

#### **Department of Forestry**

State Forester's Office 2600 State Street Salem, OR 97310-1336 503-945-7200 FAX 503-945-7212 www.oregon.gov/ODF



To: Mike Wilson, State Forests Division Chief

Andy White, Northwest Oregon Area Director Mike Cafferata, Forest Grove District Forester

Cc: Ron Zilli, State Forests Deputy Division Chief

From: Cal Mukumoto, Oregon State Forester

Date: April 07, 2023

Subject: Forest Grove District Implementation Plan for the Northwest Oregon

State Forests Management Plan.

#### Introduction

This memo documents my review and approval of the revision to the Forest Grove District Implementation Plan (IP). At the direction of the Board of Forestry, the State Forests Division is continuing the development of the draft Western Oregon State Forests Habitat Conservation Plan (HCP) and new Forest Management Plan (FMP) for Western Oregon State Forests. At the time of developing this revised IP, the HCP is a formal public draft document with an accompanying draft Environmental Impact Statement in the federal National Environmental Policy Act (NEPA) process.

While the HCP is going through the NEPA process, the Division is focusing resources on the development of the new FMP and supporting IPs. These plans are going through a staggered development process as the details of each planning level feed into the next. The draft HCP process is expected to be completed by fall of 2023. The new FMP process is expected to be completed in 2024 and the supporting IPs are expected to be completed in late 2024 to early 2025.

#### **Implementation Plan Revision**

The current IP for the Forest Grove District expires June 30th, 2023. This creates a transition period for fiscal years 2024 and 2025 (July 1, 2023 to June 30, 2025) before the HCP, new FMP and accompanying IP are in place. The revised Forest Grove District IP guides management activities that will be undertaken to implement the strategies described in the NW FMP. This IP has also been revised to include new information on the district land base and forest resources, the requirements outlined in the recent Coho Lawsuit Settlement Agreement, and the components of the draft HCP in order to cover the expected HCP, new FMP, and supporting IP approval timelines.

Once a final HCP decision is received from NOAA and USFWS, the Board of Forestry will consider whether to direct the Department to implement the HCP and new FMP. Until the Incidental Take Permits are issued and a new FMP has been adopted, the Division is obligated to continue to implement the NW FMP and to comply with the Endangered Species Act using take avoidance measures that include surveys for Northern Spotted Owls and Marbled Murrelets. Focused efforts on the companion FMP and IP represent ODF's continued commitment to the HCP and will ensure that it can be implemented in short order should the Board of forestry direct the Department to do so.

#### **Public Comment**

The Forest Grove District Implementation Plan revision underwent a 30-day public comment period from February 3, 2023 to March 6, 2023, and a public information workshop was held on February 2, 2023. During the public comment period, 48 written comments were received. These comments were considered and some refinements were made to this implementation plan as a result. A summary of the comments received and the Division's responses can be found in Appendix D. I reviewed this IP and found it to be consistent with the Northwest Oregon Forest Management Plan (2010). The activities conducted under this implementation plan are consistent with state forests operational policies and strategies, the Coho Lawsuit Settlement Agreement (2023), and the draft HCP. Therefore, I approve the revised Forest Grove District Implementation Plan.

Sincerely,

Calvin Mukumoto Digitally signed by Calvin Mukumoto Date: 2023.04.07 14:22:24 -07'00'

Cal Mukumoto Oregon State Forester



# **Forest Grove District**

Implementation Plan (IP)

July 1, 2023

## Contents

Forest Grove District	i
Executive Summary	1
Introduction	1
District Overview	2
Land Ownership	
Physical Elements	
Biological Elements	5
Forest Structure	13
Current Forest Structure	14
Landscape Design Overview	15
Forest Land Management Classification System	18
FLMCS	
Integrated Forest Management Activities	
Timber Harvest Operations	
Young Stand Management	23
Forest Road Management	24
Recreation, Education, and Interpretation (REI) Management	25
Other Integrated Forest Management Activities	28
Aquatic & Riparian Management	28
Land Exchanges and Easements	29
Property Lines and Corners	29
Special Forest Products	29
Cultural, Archeological, and Historical Resources	29
Energy and Mineral Resources	30
Map Section	31
Appendix A	38
Harvest Modeling Analysis	38
Appendix B	41
SOC Limiting Factors Coarse Evaluation and Additional Strategies.	41
Appendix C	45
References	45
Appendix D	46
Public Comment Summary	46

ii

## **Executive Summary**

In October of 2020, the Board of Forestry (BOF) gave direction to the State Forests Division to continue the development of a draft Western Oregon State Forests Habitat Conservation Plan (HCP) and Forest Management Plan (FMP) for Western Oregon State Forests. While the HCP is going through the National Environmental Policy Act (NEPA) process, the Division is focusing resources on the development of the new FMP and supporting Implementation Plans (IPs). These plans are going through a staggered development process as the details of each planning level feed into the next. The draft HCP process is expected to be completed by fall of 2023. The new FMP process is expected to be completed in 2024 and the new IPs for that FMP are expected to be completed in late 2024 to early 2025.

The current IP for Forest Grove expires June 30th, 2023. This creates a transition period for fiscal years 2024 and 2025 (July 1, 2023 to June 30, 2025) where the current FMP strategies are being implemented and the draft HCP may be approved. At the time of developing this IP revision, the HCP is a formal public draft document with an accompanying draft Environmental Impact Statement in the federal NEPA process. Finalization of this process and issuance of Incidental Take Permits (ITPs) is expected to occur within FY 2024. In order to cover this transition period, the existing IP will be revised with an expected term of two years, through June 30th, 2025. In order to address the planning uncertainty and risk of timeline adjustments to the long-term planning processes these IP revisions can be extended through an extension memo signed by the State Forester. In addition, this IP has been revised to include new information on the district land base and forest resources, the requirements outlined in the Coho Lawsuit Settlement Agreement (2023), and the components of the draft HCP to cover the expected HCP approval timeline. As this ongoing policy work evolves, ODF will also evaluate new information or changes in direction to determine if adjustments need to be made.

## Introduction

The Oregon Department of Forestry (ODF) manages approximately 763,000 acres¹ of forestland throughout the state. Of these lands, 730,000 acres¹ are Board of Forestry lands, which are managed to secure greatest permanent value (GPV) by maintaining healthy and productive forests, providing clean air and water, recreation and outdoor learning opportunities, and diverse native fish and wildlife habitat. Timber from state forests provides local governments with much-needed revenue and supports family-wage jobs. The remaining 33,000 acres¹ are Common School Forest Lands (CSFL).

<sup>&</sup>lt;sup>1</sup> These acres are legal acres. All other acres referenced in this document are based on GIS for analysis purposes.

ODF manages these lands for the Department of State Lands to provide the greatest benefit to Oregonians, consistent with resource conservation and sound land management strategies. Among these lands is the Forest Grove District. The *Northwest Oregon State Forests Management Plan* (FMP) adopted by the Board of Forestry in 2010 is the policy document that guides how these forests will be managed to secure GPV and support the CSFL goals. This Implementation Plan revision characterizes the overall framework for implementing the FMP during this time of transition.

The Forest Grove District IP guides forest management for all forest resources on the Forest Grove District beginning July 1, 2023. This implementation plan is a major revision of the plan approved by the State Forester in 2011. It is prepared to broadly characterize forest operations, activities and projects that will achieve the intent of the long-range vision of the April 2010 *Northwest Oregon State Forests Management Plan* (FMP) and the provisions of the draft HCP over the next few years.

In summary, this implementation plan was developed to:

- Implement current Forest Management Plan strategies;
- Implement requirements outlined in the Coho Lawsuit Settlement Agreement (2023)
- Implement the HCP requirements and provisions of the ITP;
- Incorporate new information on the districts land base and forest resources;
- Adjust the mapped landscape design of the desired future condition to incorporate new information;
- Develop a sustainable and predictable harvest level;
- Contribute to financial sustainability necessary to meet plan goals;
- To cover the two-year period of transition between FMPs and new IPs (July 1, 2023 to June 30, 2025), with the option to extend them if needed.

In addition, the management activities conducted under this plan will be consistent with the management strategies in the State Forests Operational Policies and Bulletins. The specific operations and management activities necessary to carry out this IP will be described in annual plans, beginning with the FY24 Forest Grove *Annual Operations Plan (AOP)*.

## **District Overview**

## **Land Ownership**

The Forest Grove District has 115,005 acres and makes up roughly the eastern one-third of the Tillamook State Forest. See the district overview map in the Map

Section. Most of the acres are in Tillamook and Washington counties, but there are also a significant number of acres in Clatsop, Columbia, and Yamhill counties. The acreage breakdown by county is shown in Table 1 below.

Within the district, 114,377 acres are Board of Forestry (BOF) lands, 611 acres are Common School lands (CSL), and 17 acres are administrative sites.

Forest lands adjacent to the northern, eastern, and southern boundaries of the district are mostly privately owned industrial forest lands and interspersed with scattered tracts of Bureau of Land Management and privately owned non-industrial forest lands.

Table 1. – Forest Grove District Acreage and Percent by County and Fund

County	Administrative Sites	Board of Forestry	Common School	Total
Clatsop	-	8,590	-	8,590
		$(7.5\%)^1$		
Columbia	12	6,310	79	6,401
	(<0.1%)	(4.1%)	(<0.1%)	
Tillamook	-	54,222	198	54,420
		(47.1%)	(0.2%)	
Washington	5	45,251	256	45,511
	(<0.1%)	(36.7%)	(0.2%)	
Yamhill	-	5	77	82
		(<0.1%)	(<0.1%)	
<b>Total Acres</b>	17	114,377	611	115,005

<sup>&</sup>lt;sup>1</sup> Percent of total district acres

## **Physical Elements**

## **Topography**

The majority of the district lies in rolling uplands along the crest of the Coast Range. Elevation ranges from 450 feet along Gales Creek to over 3,400 feet on Saddle Mountain. Approximately 7% of the district is below 1,000 feet, 63% lies between 1,000 and 2,000 feet, 29% lies between 2000 and 3,000 feet, and 1% is above 3,000 feet. The district is dominated by gentle to moderate slopes with steep slopes generally associated with incised stream channels. Steep slopes are more widespread in a few areas including the Salmonberry River watershed and the Wilson River watershed north of Highway 6. Approximately 49% of the district has slopes less than 30 percent, 34% has slopes between 30 and 60 percent, and 17% has slopes over 60 percent.

#### **Climate**

Mild winters and summers are typical. Although the higher elevations receive snow each year, there is not always enough to build a snowpack. Rainfall averages from 50 inches per year on the district's eastern edge to 150 inches per year on the western edge near the Coast Range divide. Most precipitation results from low-pressure systems flowing in from the Pacific Ocean. During summers, the prevailing jet stream shifts to the north resulting in high-pressure systems that bring fair, dry weather for extended periods. There has also been an increase of extreme weather events throughout the seasons in recent years. Douglas-fir is well suited to almost all portions of the district and makes up approximately 95 percent of the forest cover types; the higher elevations are ideal for growing Noble fir. Other tree species that do well in this climate include western hemlock, western redcedar, and red alder.

Natural disturbances such as wildfire, windstorms, floods, landslides, and insect and disease outbreaks have influenced and will continue to influence the forest condition. These disturbances often result in increased forest diversity and complexity. Laminated root rot disease (Phellinus weirii) and windstorms are the most common of these disturbances in the Forest Grove District. Forest management will reduce the impact of epidemic natural disturbances, but endemic levels will continue to result in increased forest diversity and complexity.

### Water

The district's distinguishing geographic feature is its location in relation to the Coast Range divide. About one-half of the district land base drains to the Pacific Ocean and the other half flows to the Willamette River. Five rivers originate within the Forest Grove District. These include the Nehalem River, Salmonberry River, Wilson River, Tualatin River, and the North Fork Trask River. In addition, nine important tributaries feed into these rivers from within the district: Wolf Creek, North Fork Wolf Creek, Lousignont Creek, North Fork Salmonberry, Gales Creek, Devils Lake Fork Wilson, South Fork Wilson, Scoggins Creek, and the North Fork of the North Fork Trask River. Barney Reservoir lies at the district's southern end and is mostly surrounded by state forest land. Covering approximately 450 acres and with a capacity of 20,000 acre-feet, this reservoir supplies water to much of Washington County.

Municipal and/or domestic water systems exist throughout the forest. ODF utilizes the Oregon Water Resources Department (OWRD) website to access the most current information for identification of domestic water systems when reviewing planned timber sales, which allows for protection of these sites.

## Geology and Soils

4

The Forest Grove District is located in the northern Oregon Coast Range. The geologic formations in this part of the Coast Range were generally formed by volcanic eruptions associated with the creation of an offshore volcanic island chain and by deposition of sediments in the surrounding shallow seas. These formations

have since been accreted to the continent, uplifted, and eroded to form the rugged topography of the current-day Coast Range. The predominate rock types on the district are diabase sills and dikes (intrusive igneous rocks), basalt flows and breccias and tuffs of the Tillamook Volcanics (extrusive igneous rocks), and marine mudstones and siltstones and sandstones (sedimentary rocks). The rocks are mostly Eocene in age and were formed 35 to 55 million years ago. They have experienced significant amounts of folding and faulting since then due to tectonic activity.

The rugged topography and wet climate combined with the forces of ongoing tectonic uplift and stream down-cutting make the Coast Range inherently prone to landslides.

Deep-seated landslides are common on those portions of the Forest Grove District dominated by weak marine sedimentary rocks prone to such landslides. Shallow landslides are common on those portions of the district dominated by steep slopes.

The dominant soil associations within the Forest Grove District include Grindstone, Jewell, and Pinochle (*ODF Soil Survey*, 1978). The majority of these are colluvial soils, medium to moderately-fine textured, moderately deep to deep, and well-drained. On average, site index ranges between about 100 to 130 (high Site II). Some of the higher elevation soils have a high rock content and exhibit poorer productivity.

#### Scenic Resources

Areas deemed scenic resources can include lands with established, high public use vistas, viewpoints, or significant natural features; lands immediately adjacent to scenic highways; lands immediately adjacent to scenic waterways; areas adjacent to campgrounds; or lands visible from urban centers. Known scenic resources in the Forest Grove District include:

- Highway 26 (FPA Scenic Highway)
- Highway 6 (FPA Scenic Highway)
- Camp Wilkerson (Columbia County Campground)
- Browns Camp OHV Campground
- Elk Creek Campground
- Gales Creek Campground
- Reehers Camp
- Stagecoach Horse Camp

## **Biological Elements**

## Vegetation

All of the Forest Grove District lies within the western hemlock zone (Tsuga heterophylla), as classified by the U.S. Forest Service technical report, Natural Vegetation of Oregon and Washington (*Franklin and Dyrness* 1973). Typically, the

forest is comprised of heavily stocked stands of Douglas-fir mixed with minor amounts of western hemlock, western redcedar, true fir, and hardwoods. Generally, stands in the northern one-third of the district have a larger percentage of these other tree species than the stands in the southern two-thirds of the district, where the stands are nearly 100 percent Douglas-fir. Stands in the district's northern third are primarily 70 to 90 years old, and the stands in the southern two-thirds are primarily 60 to 70 years old. The most common shrubs and herbs include vine maple, hazel, ocean spray, cascara, huckleberry, salmonberry, salal, sword fern, trillium, and oxalis.

The District Plant List (Table 2) includes endangered, threatened, candidate, and special concern plants that are, or have the potential to be found, on the district. This list is an expanded version of the list found in the Forest Management Plan.

Table 2. – Forest Grove District Endangered, Threatened or Candidate Plant Species<sup>1</sup>

Species						Potential
					Record	to be
Genus	Species	Subspecies	Common name <sup>2</sup>	Status <sup>3</sup>	exists <sup>4</sup>	present
Threatened a	nd Endangered	l Plants				
Erigeron	decumbens		Willamette daisy	SE, FE		<b>~</b>
Erythronium	elegans		Coast Range fawn- lily	ST, FSOC		~
Lupinus	sulphureus	kincaidii	Kincaids lupine	ST, FT		<b>✓</b>
Sidalcea	nelsoniana		Nelson's sidalcea	ST, FT	<b>✓</b>	
Plants of Spe	ecial Concern					
Castilleja	chambersii		Chamber's	SP,		<b>~</b>
			paintbrush	FSOC		
Dodecatheon	austrofrigidum		Frigid shootingstar	SP, FSOC		<b>~</b>
Candidate Pl	ants					
Cardamine	pattersonii		Saddle Mt. bittercress	SC		~
Filipendula	occidentalis		Queen-of-the-forest	SC		<b>~</b>
Saxifraga	hitchcockiana		Saddle Mt. saxifrage	SC, FSOC		~
Sidalcea	hirtipes		Bristly-stemmed sidalcea	SC		~
Cimicifuga	Elata var. elata		Tall bugbane	SC		
Sullivantia	oregana		Oregon sullivantia	SC, FSOC		~

<sup>&</sup>lt;sup>1</sup>Data Source: Oregon Biodiversity Information Center Database - 2022

6

<sup>&</sup>lt;sup>2</sup>Plant names in bold are on the NWFMP list of plants.

#### Forest Health

Most insect, invasive weeds, disease, and abiotic forest threats are best handled through prevention via management for forest resilience. Healthy trees are well-defended and able to resist or tolerate these forest threats. Silvicultural methods will be used to enhance tree and stand resiliency to ensure forest health and sustainability.

Climate change, wildfire, poor site quality or suitability for a tree species can predispose trees to damage caused by insects and disease. Silvicultural activities that may be utilized to address forest stressors include:

- Planting native species in locations most suitable for their growth, accounting for changing temperature and precipitation;
- Widening spacing to reduce competition for soil moisture and mitigate reduced or inconsistent precipitation;
- Increasing tree species diversity to inhibit the spread of host-specific insects and diseases;
- Avoiding planting host tree species in known root disease pockets;
- Utilizing preventive techniques during operations to prevent the spread of invasive weeds and diseases; and
- Removing marketable timber in a timely manner to avoid defect-causing agents such as wood boring beetles and fungi.

In addition to these techniques forest managers are also working to address several forest health concerns on the Forest Grove District that are described below.

#### **Insects and Disease**

Phellinus weirii - is a root disease that affects Douglas-fir trees severely, and western hemlock moderately. The disease is spread when uninfected roots of a susceptible tree grow into contact with infected roots and are colonized by Phellinus weirii. For most of the Forest Grove District, root disease is of high concern although the exact amount of the disease is unknown. However, surveys have detected it in every basin, with some basins believed to be fifteen percent infected. If left untreated the disease will spread at an estimated rate of one to two feet per year, creating openings in the forest which initially will be occupied by brush species and trees that seed in naturally. Eventually, these young trees will be infected and the disease cycle will continue.

Two possible management strategies can be applied in stands with significant presence of laminated root disease are regeneration harvest or thin with patch cuts in the disease pockets. In both cases the resulting open spaces may be planted with tree species that are either disease-resistant or immune. In a

<sup>&</sup>lt;sup>3</sup>Status: SE – State Endangered; ST – State Threatened; SC – State Candidate; SP – Special Concern; FE – Federal Endangered; FT – Federal Threatened: FSOC – Federal Species of Concern

<sup>&</sup>lt;sup>4</sup>Plants have been observed on or within ½ mile of state forestlands.

predominately Douglas-fir forest these strategies will contribute to species and age diversity.

These silvicultural decisions are based largely on the extent and magnitude of the disease within a given stand. It is generally not recommended that Douglas-fir stands be commercially thinned if the disease is present in more than 40 percent of the stand. In these highly infected stands, the best option is often regeneration harvesting and reforesting with immune tree species, or through stump removal and replanting with Douglas-fir. While stump removal is expensive it is a very effective way to remove the inoculum from the soil. Where the disease is present in 10 to 40 percent of the stand, thinning with patch cutting of disease pockets may be feasible. In stands with minor amounts of laminated root disease, the disease is often ignored.

Additional information regarding this disease may be found in the publication titled Laminated Root Rot in Western North America (*Thies and Sturrock*, 1995).

Currently, Swiss needle cast does not occur in significant amounts within the Forest Grove District. No management constraints are anticipated as a result of Swiss needle cast.

Emerald ash borer (Agrilus planipennis Fairmaire) – is an insect that primarily targets ash trees. The insect consumes a trees cambium and restricts the trees ability to transport nutrients and water until the trees die. Emerald ash borer is of high concern for areas where it is discovered. The exact amount of presence in the Forest Grove District is unknown at this time.

#### **Invasive Weeds**

Integrated pest management principles to address incidences of invasive, nonnative plants will be applied on state forest land. ODF will coordinate with other agencies and landowners in efforts to address such problems. The district will take steps to assure that management activities are not contributing to existing or new invasions of non-native plant species. These steps will include vegetation management efforts to control such species on state forest land, and the use of native plant species in re-seeding projects on state forest lands.

Most noxious weeds or invasive plants are found along roads and have spread into young stands. The main sources for the weed introduction into the forest are from vehicle traffic, landscape debris dumping, equipment moved into and out of district, and where soil disturbance occurs. The Department requires 100% weed free grass seed and certified weed-free straw used for mulch for forest projects. Equipment washing is required in timber sale contracts to prevent the introduction of weed seed from other sites.

Currently there are seventeen exotic plant species known to exist on the district that are classified by the Oregon Department of Agriculture as "noxious weeds". They are Canada thistle, Scotch broom, Himalayan blackberry, Tansy ragwort, False Brome, Poison-hemlock, common teasel, Herb Robert, English ivy, English holy, Reed canary grass, Evergreen blackberry, Traveler's joy, Curly dock,

Common St. Johnswort, Garlic mustard, and Japanese knotweed. Except for Japanese knotweed, these non-native plants are found scattered in various densities throughout the district. Japanese knotweed is found in limited locations on the district Management and control of invasive species is described under Proposed Management Activities.

#### Fish and Wildlife

The Forest Grove District provides habitats for most native species found in forests in the Coast Range and Willamette Valley (*Johnson and O'Neil* 2001). Appendix E of the FMP contains lists of native fish and wildlife species that are currently known, or are likely, to exist within the area covered by the FMP. The Oregon Conservation Strategy<sup>2</sup> provides a list of species of concern for each ecoregion of the state. Many of the species listed as "Conservation Species" for the Coast Range and Willamette Valley ecoregions are likely to be present on the Forest Grove District. In addition, many game and furbearer species occur on the district. Some of the most common game species are black-tailed deer, Roosevelt elk, black bear, ruffed grouse and mountain quail. Also common are American beavers, mountain beavers, cougars, bobcats and coyotes.

The streams, rivers, lakes, and other water bodies on the Forest Grove District provide habitat for a variety of fish and amphibian species. These aquatic species use habitats in or downstream of the plan area for part or all of their life history.

The integrated forest management strategies, as well as aquatic and riparian strategies, will contribute to diverse habitats that are likely to accommodate most native wildlife species and contribute to the maintenance and restoration of habitat.

#### **Species of Concern (SOC)**

Opportunities for additional conservation measures for "species of concern" have been identified on the Forest Grove District. Species of Concern are listed in Table 3 for the Forest Grove District. The list includes those on federal or state ESA lists, state sensitive species, and Oregon Conservation Strategy species for the Coast Range and Willamette Valley. Information regarding limiting factors and habitat needs was taken directly from *ODFW's Oregon Conservation Strategy (OCS)* for most species. For species not addressed in the OCS, general habitat needs were described based on available research and monitoring. The results of the assessment and development of SOC "course" strategies for the District are presented in Appendix B. Strategies in addition to the *NW State Forests Management Plan (2010)* to address these species are identified in policy and in the HCP. Some of these strategies include:

 The application of silvicultural tools to attain an array of forest stand structures and habitat types across the landscape, in a functional

<sup>&</sup>lt;sup>2</sup> Oregon Department of Fish and Wildlife. February 2016. The Oregon Conservation Strategy, Salem, OR. <a href="http://www.oregonconservationstrategy.org/">http://www.oregonconservationstrategy.org/</a>

- arrangement, and the production of stand structural components (e.g. canopy layering, understory development).
- The application of landscape design principles: The landscape design developed for this IP applied landscape design principles to provide a functional arrangement of stand types considering characteristics such as patch size and distribution, fragmentation, corridors, and interior habitat. The result is a landscape design that includes 30 percent of the landscape designated for complex forest structure. See additional information in the "Landscape Design Overview" section of the IP.
- Terrestrial Anchor Sites (TAS) which are designated areas to benefit
  terrestrial wildlife species of concern, especially those associated with
  older forest or interior habitat conditions, sensitive to forest fragmentation,
  or do not readily disperse across younger forest conditions. Management
  within TAs is intended to be limited, to emulate natural small-scale
  disturbance patterns, and to minimize short-term negative impacts to
  habitat. Harvest will likely be limited to thinning projects with some small
  retention cuts. ODF biologists will be involved in development of
  management prescriptions within TAS.
- Aquatic Anchor (AA) watersheds with a heightened focus on conservation for salmon and/or aquatic amphibian species of concern. Riparian management strategies beyond those described in the FMP will be applied within AAs.
- Strategies for northern spotted owls and marbled murrelets are described in State Forest Division Operational Policies.
- Snags, green trees, and downed wood: The FMP, HCP and related strategies, call for active forest management for retention and development of key structural components such as snags, green trees, and downed wood, and the application of targets for these components at landscape scales.
- Riparian and aquatic strategies: the application of FMP and HCP riparian management standards as well as upslope components such as roads and slope stability strategies. Stream restoration projects will be undertaken as resources allow and focus on high priority areas.
- Site-specific plans, or modified practices: In addition to the above "coarse filter" strategies, some species may need additional "fine filter strategies." If these species are identified on the district, this will be accomplished through the development of site-specific plans. Fine filter strategies in site plans, or otherwise recommended for consideration, may include modified harvest prescriptions or practices, seasonal restrictions, site specific actions such as leaving slash piles, buffers and resource site protection.

Table 3 -- List of Fish and Wildlife Species of Concern for Forest Grove District<sup>1</sup>

#	Species	Regulatory Status <sup>2</sup>		
AMPHIBIANS				
1	Clouded Salamander	SSV		
2	Coastal Tailed Frog	Fsoc, SSV		
3	Columbia Torrent Salamander	SSV		
4	Cope's Giant Salamander	SSV		
5	Northern Red-legged Frog	Fsoc, SSV		
6	Western Toad	SSV		
	REPTILES			
7	Northwest Pond Turtle	Fsoc, SSV		
8	Western Painted Turtle	SSV		
	BIRDS			
9	Bald Eagle	FPA		
10	Band-tailed Pigeon	FPA		
11	Great-blue Heron	FPA		
12	Marbled Murrelet	FT, SE		
13	Northern Goshawk	Fsoc, SSV		
14	Northern Spotted Owl	FT, ST		
15	Olive-sided Flycatcher	Fsoc, SSV		
16	Osprey	FPA		
17	Peregrine Falcon	SSV		
18	Purple Martin	Fsoc, SSC		
19	Western Bluebird	SSV		
20	Willow Flycatcher	Fsoc, SSV		
	MAMMALS	5		
21	California Myotis	SSV		
22	Fringed Myotis	Fsoc, SSV		
23	Hoary Bat	Fsoc, SSV		
24	Long-legged Myotis	Fsoc, SSV		
25	Red Tree Vole	FC, SSV		
26	Silver-haired Bat	Fsoc, SSV		
27	Townsend's Big-eared bat	Fsoc, SSV		
00	FISH	001/		
28	Chinook, Lower Columbia, Fall	SSV		
29	Chinook, Coastal, Spring	SSC		
30	Chum, Coastal	SSC		
31	Chum, Lower Columbia	FT, SSV		
32	Coastal Cutthroat, Oregon Coast	Fsoc, SSV		

Table 3 -- List of Fish and Wildlife Species of Concern for Forest Grove District<sup>1</sup>

#	Species	Regulatory Status <sup>2</sup>
33	Coho, Coastal	FT, SSV
34	Coho, Lower Columbia	FT, SSV
35	Lamprey, Western Brook	Fsoc, SSV
36	Lamprey, Pacific	Fsoc, SSV
37	Lamprey, River	Fsoc
38	Steelhead, Upper Willamette, Winter	FT, SSV
39	Steelhead, Lower Columbia, Winter	FT, SSV

<sup>&</sup>lt;sup>1</sup>Strategy Species are those identified in *The Oregon Conservation Strategy* (*ODFW*, 2016). http://www.oregonconservationstrategy.org/

#### <sup>2</sup>Regulatory Status:

Fsoc - Federal Species of Concern

FPA – Forest Practices Act

FT - Federal Threatened

FE - Federal Endangered

SE - State Endangered

SSC - State Sensitive Critical

SSV - State Sensitive Vulnerable

FC – Federal Candidate (Distinct Population Segment Only)

#### **Aquatic Anchors**

Aquatic Anchor (AA) sites are watersheds where additional stream and riparian management standards are applied to specifically maintain and enhance habitat for salmonids and headwater amphibians. Aquatic Anchors (AAs) were selected through a collaborative effort with ODFW District Fish Biologists, State Forests Aquatic Specialist, and district staff during the 2011 IP development and will remain in place through this transition period.

Table 4. – Forest Grove District Aquatic Anchors

Name	Total Acres
Ben Smith Creek	2,405
Devils Lake Fork Wilson River	6,132
Elkhorn Creek	1,049
Lousignont Creek/Upper Nehalem River	12,362
South Fork Salmonberry River	5,677
Upper Rock Creek	3,295
Total Aquatic Anchors	30,920

#### **Terrestrial Anchors**

Terrestrial Anchor Sites (TAS) are intended to benefit terrestrial wildlife species of concern, especially those associated with older forest or interior habitat conditions, sensitive to forest fragmentation, or that do not readily disperse across younger forest conditions. The TAS locations were selected through a collaborative effort with biologists and district staff during the 2011 IP development and will remain in place through this transition period.

Table 5. – Forest Grove District Terrestrial Anchors

Name	Total Acres
South Fork Wilson	2,082
Upper Salmonberry	3,106
Wolf Creek	4,199
Total Terrestrial Anchors	9,387

## **Forest Structure**

The foundation of the current FMP is to create a diverse set of forest conditions over time and across the landscape. These forest conditions are described as stand structure types described below.

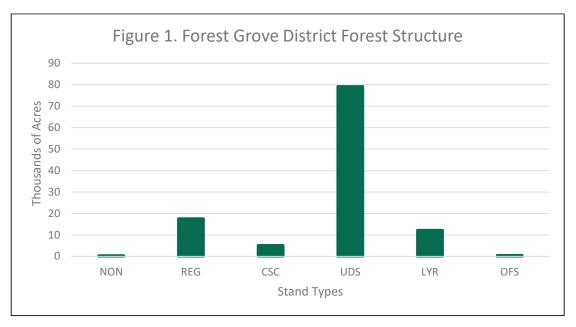
- Regeneration (REG): This stand type occurs when a disturbance such as timber harvest, fire, or wind has killed or removed most or all of the larger trees, or when brush fields are cleared for planting
- Closed Single Canopy (CSC): This stand type occurs when new trees, shrubs, and herbs no longer appear in the stand, and some existing ones begin to die from shading and competition, in a process called stem exclusion.
- Understory Development (UDS): This stand type occurs after the stem
  exclusion process has created small openings in the canopy, when
  enough light and nutrients become available to allow herbs, shrubs, and
  new trees to grow again in the understory
- Layered (LYR): This stand type occurs as the process of understory reinstitution progresses where openings in the canopy persists. Shrub and herb communities are more diverse and vigorous, and two or more distinct layers of tree canopy appear.
- Older Forest Condition (OFS): This stand type occurs when a forest stand attains structural characteristics such as numerous large trees, multilayered canopy, substantial number of large, down logs, and large snags.

### **Current Forest Structure**

The current stand condition is displayed in the graphs that follow, and on a map in the Map Section. Figure 1 shows the current stand structure and acreage using the structure-based management definitions for structure types. In order to determine the current condition of the stand structure array on the district, Stand Level Inventory (SLI) was used to identify stand characteristics such as diameter, heights, trees per acre, density, snags, down wood, and understory vegetation to determine stand structures.

Currently, 77% percent of the Forest Grove District has been inventoried. Information for unmeasured stands is generated by imputation. Imputation uses specific information from a single measured stand to represent similar unmeasured stands.

All silvicultural prescriptions will be based on actual field reconnaissance during pre-operational analysis and planning, in conjunction with SLI data.



Figures 1 & 2. Based on 2020 SLI data.

Note: Non-forest (NON) lands are those areas, greater than 5 acres that are maintained in a permanently non forest condition. The only lands on the district currently in this classification are large power line right-of-ways.

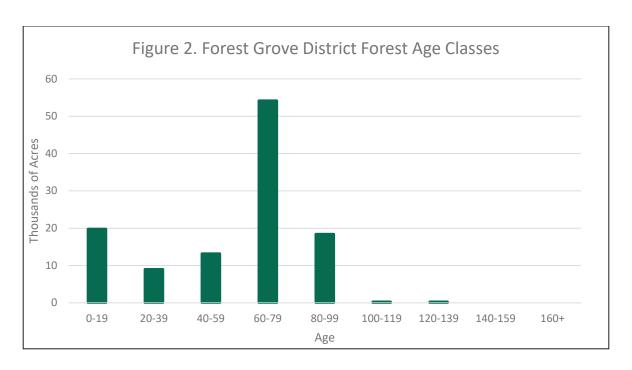


Table 6 – Management Basin by Acres and Current Stand Condition

Management Basin	ACRES	NON	REG	CSC	UDS	LYR	OFS
Bell Mountain	1,732	-	-	707	1,015	10	-
Gales Creek	10,167	25	1,292	454	7,621	775	-
Larch Mountain	13,154	6	616	407	9,906	2,219	-
McGregor	10,632	21	2,163	655	7,158	562	73
North East District Iso- Tracts	44	5	-	-	40	-	-
Rogers	20,843	169	4,258	545	13,966	1,877	29
Scoggins Creek	3,019	-	810	118	2,091	-	-
South East District Iso- Tracts	378	1	160	-	161	56	-
Sunday Creek	15,201	34	2,493	167	12,296	210	-
Upper Salmonberry	18,953	5	2,482	736	12,535	3,194	-
Wheeler	16,159	13	2,297	834	11,420	1,274	321
Wilark	4,723	101	363	364	3,752	143	
District Total	115,005	380	16,935	4,988	81,958	10,320	423

<sup>\*</sup>Acreages are not exact due to GIS rounding errors.

## **Landscape Design Overview**

The FMP establishes targets for how much of the forest landscape will be managed to create each of the five structure classes. Expressed as percentage of the landscape, the targets describe a long-range desired future condition (DFC), with upper and lower limits (Table 7).

Table 7. Desired Future Condition (Targets) for the proportion of Stand Structure types across the landscape on each district

Stand Type	Range
REG	15-25%
CSC	5-15%
UDS	30-40%
LYR	15-25%
OFS	15-25%

Together, the LYR and OFS are considered complex stand structures and are designated in a functional arrangement across the landscape resulting in a "mapped landscape design" or DFC Complex. A desired future condition map is in the Map Section. While DFC Complex is mapped, targets for REG, CSC and UDS stands are not mapped, but rather are expressed as a desired range that accounts for changes across the landscape from management during the duration of the IP.

The landscape design process was a collaborative effort between the district, resource specialists, and ODFW biologists. The district intends to achieve the desired future condition of 30 percent complex stands on the district by designating areas for older forest structure (OFS) and layered (LYR) stand structures across the landscape, ensuring a variety of forest patch sizes and dispersal habitat for wildlife. It is important to note that the mapped DFC Complex does not represent the current amount of complex forest structure on the landscape. It represents the long-term target and location that will be achieved through active management which is estimated to take to achieve.

The broader landscape design considerations applied consisted of the following:

- The distribution of habitats for native wildlife;
- The range of habitat patch sizes provided;
- Provision of interior habitat areas for species of concern;
- Unique, rare, or sensitive habitats and associated species;
- Connectivity across the landscape including habitats on adjacent federal lands.
- Operational feasibility of active management;
- Current stand age and structure.

The contribution that each selected stand provided to the overall distribution of habitats, and to patch sizes, interior habitat, and connectivity was considered, as well as known or suspected potential to harbor SOCs. Identification and protection of key habitat areas (occupied, suitable, or important for larger landscape connectivity) for SOCs will help maintain existing populations and allow for

colonization of new habitat as it develops over the longer term. This landscape design is a foundational strategy for species of concern.

In addition to the development of complex structure, corridors of the more complex stand structure types will be provided along streams. These corridors can provide some connectivity between the complex stands within basins, especially when combined with adjacent federal land.

In the long term these forests are expected to maintain the same general balance of structures over the landscape through time.

Table 8. Mapped DFC Complex (Targets) by Management Basin

Management Basin	Total Basin Acres	LYR	OFS
Bell Mountain	1,732	-	-
Gales Creek	10,167	17%	12%
Larch Mountain	13,154	47%	6%
McGregor	10,632	11%	8%
North East District Iso-Tracts	44	-	-
Rogers	20,843	13%	11%
Scoggins Creek	3,019	-	-
South East District Iso-Tracts	377	-	-
Sunday Creek	15,200	-	2%
Upper Salmonberry	18,952	33%	21%
Wheeler	16,159	8%	34%
Wilark	4,723	3%	9%
District Total	115,005	18%	14%

The landscape design map represents the current vision of where complex structures will be developed over time under the current FMP and can be seen in the Desired Future Condition Map in the map section. The district will use this map in the planning of harvest operations and the designing of silvicultural prescriptions. Through the course of implementation, however, refinements to the landscape design map are likely to occur due to stand conditions, harvest efficiency and operability concerns, or new information.

Changes to the landscape design will be fully described in an Annual Operations Plan. The landscape design map will be fully reviewed with any major revision of the district IP.

# Forest Land Management Classification System

The Forest Land Management Classification System (FLMCS). FLMCS is a method of describing the management emphasis of parcels of state forest land and has been implemented in accordance with OAR 629-035-0055. The management emphasis identifies the extent to which a parcel of land can be managed for a variety of forest resources. It also identifies when a particular forest resource may need a more focused approach in its management, or possibly an exclusive priority in its management. Below are tables summarizing the district's FLMCS.

The framework of the FLMCS places all state forest land within one of four land management classifications. The classifications are: (1) General Stewardship, (2) Focused Stewardship, (3) Special Use Areas, (4) High Value Conservation Areas. Subclasses are assigned for the specific forest resources that require a Focused Stewardship, Special Use Classification, or High Value Conservation Area Classification.

The definition of land management classifications as defined by OAR are:

On General Stewardship lands, all forest resources are actively managed using integrated management strategies, techniques, and practices to meet forest management planning goals. Strategies, techniques, and practices that are used may vary spatially and temporally.

On Focused Stewardship lands, integrated management practices are performed in a manner that is intended to accomplish forest management planning goals, and are compatible over time and across the landscape when actively managed, but for which a forest management plan, habitat conservation plan, or other legal requirement identifies a requirement for one or more of the following for a specific resource: supplemental planning, before conducting management practices, that helps to achieve identified goals for the specific resource; modified management practices that help achieve the identified goals for the specific resource; or, compliance with legal or contractual requirements above those required on lands classified as General Stewardship.

On lands classified as Special Use, a forest management plan, or other legal requirement identifies one or more of the following: a legal or contractual constraint dominates the management of the lands and precludes the integrated management of all forest resources; lands are committed to a specific use and management activities are limited to those that are compatible with the specific use.

On lands classified as High Value Conservation Areas, a forest management plan, habitat conservation plan, or other legal requirement identifies areas in the landscape that need to be appropriately managed in order to maintain, enhance, or restore important conservation values and one or more of the following: a legal or contractual constraint dominates the management of the lands and directs the management of forest resources; lands are committed to a specific conservation value and management activities are limited to those that are compatible with achieving goals for the specific conservation value.

Tables 9 and 10 below show the district's land management classification revision. Table 9 shows the classified acres in each of the four management classes. Table 10 shows the number of subclass acres located in the Focused Stewardship Areas, Special Use Areas, and High Value Conservations Areas. Both tables include overlapping acres.

### **FLMCS**

Tables 9 and 10 reflect the current FLMCS for the Forest Grove District.

Table 9 -- Forest Grove District Acres, by Stewardship Class and Fund\*

Classification	BOF	CSL	<b>Total Acres</b>
Focused Stewardship	97,538	489	98,027
Special Use	18,254	45	18,299
High Value Conservation Area	19,819	76	19,895
General Stewardship	34,477	159	34,636

<sup>\*</sup> Acres in Table 9 and Table 10 include overlapping classifications.

Table 10 -- Forest Land Management Classifications for Forest Grove District - Focused and Special Subclasses (Acres)

	Focused Stewardship	Special Use	High Value Conservation Area
Administrative Sites	0	101	0
Agriculture, Grazing	0	0	0
Aquatic & Riparian	15,356	0	9,927
Cultural Resource	25	99	0
Deeds	0	0	0
Domestic Water Use	10,568	0	0
Easements	0	3	0
Energy & Minerals	0	117	0
Operationally			
Limited	0	16,312	0
Plants	0	0	0
Recreation	22,004	153	0
Research/Monitoring	396	202	0
Transmission	0	301	0
Unique, Threatened			
or Endangered			
Plants	0	0	578
Visual	10,121	1,029	0
Wildlife Habitat	39,556	0	9,390

# Integrated Forest Management Activities

The Forest Grove District forests are actively managed to provide a mixture of environmental, economic, and social benefits. The following sections describe the general forest operations, activities and projects that will provide a balance of these benefits as required by Oregon Administrative Rule (OAR 629-035-0020) and will honor the current planning process and commitments made to the HCP during this transition period.

## **Timber Harvest Operations**

## Management Activities

Different types of management activities will be used to implement the FMP and HCP strategies. Multiple factors apply to selecting stands for management and

prescribing silvicultural prescriptions and their relative importance may change from year to year. Additional factors that affect these annual decisions include the overall objectives identified in this IP, the Annual Harvest Objective (AHO), recent harvest activity in the area, results of threatened and endangered species surveys, condition of the transportation system, current market conditions, division revenue forecasts and the district's ability to cover its share of division costs.

Described below are the different types of management tools that will be used during this IP as needed and where appropriate. The specific operations and management activities necessary to carry out this IP will be described in the Annual Operations Plans starting in FY24.

#### **Partial Cut Harvests (Thinning)**

Past management experience found that when timed correctly most stands respond well to thinning. Partial cutting improves forest health by increasing stand vigor and lowering susceptibility to damage from insects, disease, and windthrow, capture natural competition mortality, etc. Partial cutting also produces timber, yields revenue, and enhances scenic and wildlife resources.

Partial cuts in areas not planned to be developed into complex forest conditions will have a silvicultural thinning prescription that reduces stocking enough to increase or maintain individual tree growth. Trees are left evenly spaced over the stand. The goal is to produce high quality, high volume stands at final harvest.

In areas planned to be developed into complex forests, thinning prescriptions will be utilized that are intended to increase or maintain individual tree growth and promote complex forest conditions. Reducing the stocking will encourage larger canopies, diameters, and limbs on the residual trees. In addition, more sunlight will reach the forest floor, which will enhance understory development. The goal here is to put the stands on a pathway towards a complex structure as opposed to producing high value stands for final harvest.

#### **Regeneration Harvests (Modified Clearcuts and Retention Cuts)**

Regeneration harvest removes most trees, but leaves specified numbers of green trees, snags, and down wood to provide structure (habitat) in the new stand. These types of harvest will pre-dominantly be focused in stands that are located outside of the mapped landscape design of DFC complex and the draft HCAs.

Some stands that are alder or have forest health issues may be considered for regeneration harvest (modified clearcut or retention cut) inside of the mapped landscape design of DFC complex or draft HCAs. These types of harvest prescriptions will be developed in conjunction with biologists with the goal of creating better quality habitat in the future. In these cases, the result will be to create a new conifer stand of vigorously growing trees while maintaining many of the structural components of the previous stand. These structural components include remnant trees, live green trees, snags, and down wood.

## **Overview of Structural Components**

The FMP, draft HCP and related strategies, describe retention requirements of key structural components such as snags, green trees, and downed wood. The techniques used to develop snags and down wood will vary according to tree size, age, species, and type of management activity.

In first entry commercial thinnings (generally between ages 25 and 40), no prescriptions will be used to develop snags and down wood, as trees this size do not make long-lasting snags or down wood. Some of the trees left in the thinning will naturally become snags, due to top breakage. This would also be the case in younger stands harvested early because of Swiss Needle Cast (SNC) infections. In older partial cuts, if pre-harvest stand examinations do not indicate enough snags, then some trees may be topped or girdled during the operation to become snags. Harvest prescriptions may be modified to provide contributions to landscape level goals for down wood.

In clearcuts, to obtain down wood and snags objectives pre-harvest estimates and harvest prescriptions must be used to assure these levels are attained. If snags or down wood are found to be deficient in an area, additional leave trees may be retained with the assumption that due to natural causes a certain percentage of these will become snags and/or down wood. In hardwood stands, it is often difficult to find enough large down wood and snags after the operation. Therefore, these structural elements must often come from conifer trees that are present in the stand.

## Planned Annual Harvest Objectives

This section describes the management activities that will be accomplished during the duration of the Implementation Plan period. All management activities will be designed consistent with FMP strategies and draft HCP objectives.

The AHO identifies the sustainable and predictable production of timber (forest products) from the district, and the harvest activities for the IP period. The AHO is determined through the District Harvest Modeling Analysis described in Appendix A. The analysis establishes the AHO range of 43-47 MMBF as the sustainable volume that can be produced to meet the goals of the Northwest Oregon State Forest Management Plan and draft HCP as applied through this IP. The top of the range allows for flexibility for sale planning and to incorporate additional harvest within HCAs when the Incidental Take Permit takes effect. The AHO will be implemented through the district's Annual Operations Plan (AOP). The objective is to be within the range of the AHO on an annual basis throughout the length of the IP. All management activities will be designed consistent with FMP strategies, the Coho Lawsuit Settlement Agreement (2023) and draft HCP objectives.

Under normal circumstances, the volume proposed in an AOP will be within the AHO target range; however, some events may result in an AOP volume that is farther from the AHO target. These events may consist of, but are not limited to, catastrophic windstorm, fire, and/or market conditions. For example, catastrophic

events may lead to emergency salvage operations that result in harvesting above the AHO, or market conditions preclude meeting AHO targets. The Annual Operations Plan will describe how the volume relates to the AHO volume identified in the IP.

Harvests that occur to meet the AHO range may move some stand types to other stand types during this IP period. Modified clearcut and retention cut harvest would move stands from their current stand condition into the Regeneration stand type while partial cutting may maintain a stand's current stand condition, or could provide improved growing conditions to allow for increased stand diversity over time to move into another more complex stand type. Due to the short duration of this IP, impacts to the amounts of different stand types will be relatively minor and will be described in the Annual Operations Plan.

## Young Stand Management

#### Reforestation

Reforestation promptly follows all regeneration harvests and patch-cut harvests as per the Oregon Forest Practice Rules. ODF plants native tree species that are grown from seed that is considered to be suited to future conditions. This seed is produced from traditional crossbreeding of trees from a variety of seed zones to make them resilient to current disease and future climate conditions. Individual reforestation strategies are developed for harvest units. These strategies take into consideration elevation, aspect, disease, desired future stand conditions, and anticipated drier, hotter future conditions resulting from climate change. These strategies include site preparation, species, stock type and tree spacing tailored to each unit.

A variety of species may be planted during reforestation, with Douglas-fir being the primary species. Western hemlock, western red cedar, grand fir and Noble fir will also be planted if the site is appropriate for those species. In areas where pathogens affecting Douglas-fir are present, resistant species such as red alder or western redcedar may be planted in higher percentages.

Tree planting, site preparation, vegetation management, and tree protection activities are important for successful stand establishment. Site-specific prescriptions may include, but are not limited to, slash piling, prescribed burning, herbicide treatments, manual release, and tubing (of seedlings to protect them from animal damage).

## **Pre-commercial Thinning**

Pre-commercial thinning (PCT) is an important density management practice in young, dense stands. PCT generally occurs in stands between 13 and 17 years old and removes non-merchantable small or defective trees, in order to provide more water, light, and nutrients to increase the growth of the healthy residual trees. In addition, PCT delays the canopy from closing, thus preserving the growth

of herbaceous vegetation to maintain plant species diversity and forage opportunities for wildlife and to contribute to species diversity through density management tree selection.

## **Forest Road Management**

### **Overview**

The State Forests program is nearing completion of specific guidance for conducting transportation planning. District priorities for transportation planning are described in Management Basin Descriptions under Resource Considerations and Management Opportunities. Transportation planning will be a priority for basins or blocks determined to have limited or inadequate access.

The existing road system consists of collectors and spurs: in total 802 miles of mostly single-lane roads with turnouts. Many of the district's main roads (collectors) were originally built as railroads and then converted to truck roads in the 1940s and 1950s to standards that are not the same as those identified in the *ODF Forest Roads Manual* (September 2006). However, most of these roads have been upgraded or vacated and now meet the more recent standards of improved drainage structures, rock surfacing, width, and alignment.

Fish passable structures have been installed on nearly all streams that have been classified as fish streams. There may be a limited number of streams in the upper reaches of drainage basins that have yet to be classified as fish or non-fish where structures may need to be replaced.

The following table shows the approximate number of miles by road classification:

Table 11 – Forest Grove District Surfaced Road System

Road Classification	Miles
Mainline	2
Collector	262
Spur	538
Total Miles	802

Although nearly 95 percent of the district's road miles are surfaced with gravel, not all surfaced roads are suitable for all-weather haul. Surfaced roads not suitable for all-weather haul will be improved as needed for timber sale access.

Hydrological connectivity surveys are performed on haul routes during sale layout. The district prioritizes road improvement projects that reduce hydrologic connectivity and culvert replacements that are barriers to fish migration on active or planned haul routes and sites of opportunity near active or planned haul routes. Road maintenance investments are made to support forest operations, protect existing road infrastructure and water quality, and provide for safety

improvements. The district also closely monitors road conditions on active operations and performs additional patrols and assessments during and after inclement weather events.

### Potential Road Activities

Roads will be constructed and maintained as necessary to protect water quality and the road system asset value. Road maintenance activities will follow the maintenance guidance in Chapter 7 of the *Forest Roads Manual (September 2006)* and the Oregon Forest Practices rules. Road maintenance, like road construction and improvement, is primarily accomplished under timber sale contracts or through work order contracts.

Road construction and improvement identified in this plan will be primarily achieved through project work connected with timber sales or through work order contracts. The majority of roads to be constructed will be single lane spur roads that are within or access timber sale areas. Collector roads may be built to connect these sale areas to the mainline system, and in most cases, will access other future timber sales. Many of these same roads will be used for numerous management activities over the next several decades.

# Recreation, Education, and Interpretation (REI) Management

The REI program manages and maintains over seventy-five recreation facilities, including campgrounds, picnic areas, trailheads, boat launches, river access areas, target shooting lanes, interpretive sites, and viewpoints. The program also manages close to 500 miles of off-highway vehicle trails and just over 145 miles of non-motorized trails across five districts (Astoria, Forest Grove, North Cascade, Tillamook, and West Oregon).

Recreation, Education, and Interpretation opportunities on state forests create pathways and opportunities for visitors to explore, learn about, enjoy, and connect with Oregon's state forests. These opportunities and the connections they create foster stewardship and partnership, support community health and wellbeing, and promote understanding of the value of the environmental, economic, and social benefits that flow from management of state forests, including clean drinking water, healthy resilient forests for recreation opportunities and wildlife, jobs and revenue for local communities, and forest products we use daily.

Through recreation opportunities, REI program services, and community engagement, the program introduces people to Oregon Department of Forestry. This work highlights the program's role in achieving the agency's overall mission: "To serve the people of Oregon by protecting, managing, and promoting stewardship of Oregon's forests to enhance environmental, economic, and community sustainability."

### Recreation Resources

Recreation opportunities on the Forest Grove District are diverse and include angling, foraging, hiking, horseback riding, camping, off-highway vehicle use, mountain biking, and target shooting. There are additional opportunities to learn about the forest and active forest management through interpretive and educational programs. These activities will continue to be integrated into the overall planning and forest management activities.

#### Facilities (Campgrounds, Viewpoints, Trailheads, etc.)

Existing facilities include campgrounds, OHV staging areas, designated dispersed campsites, interpretive sites, and trailheads.

Existing developed facilities on the Forest Grove District:

- 5 campgrounds
- 2 day-use picnic areas
- 2 highway wayside interpretive sites
- 14 trailhead facilities
- 4 target shooting lanes

In addition to the existing facilities dispersed camping continues to be popular and tends to be concentrated along rivers and streams. Fishing and hunting are also popular throughout the forest. In general, the district's recreation use is seasonal with the most activity occurring in the late spring, summer, and fall, but more use is occurring district-wide and all year round.

#### **Motorized Trails**

Motorized use includes motorcycles, quads, side-by-sides, and four-wheel drive vehicles. Trails may be designated for all three activities or for specific types of motorized vehicles. There are approximately 119 miles of motorized trails in the Forest Grove District.

#### **Non-Motorized Trails**

Non-Motorized use includes hiking, mountain biking and equestrian uses. Trails may be designated for all three activities or for specific types of non-motorized activity. There are approximately 69 miles of non-motorized trails in the Forest Grove District.

#### Planned Recreation Activities

Over the course of this implementation plan the REI program will focus on conducting an inventory and assessment of existing opportunities, development of best management practices, updating recreation facility design standards, and developing recreation management and trail system plans in collaboration with the use community consistent with the goals and strategies of the REI Program Strategic Plan. These plans will inform management, future improvements, development, and distribution of recreation opportunities across the state forests and ultimately lead to more welcoming, accessible, and accommodating recreation opportunities for all visitors.

Recreation Program projects over the course of this implementation plan will focus on maintenance of existing infrastructure, and operations and enhancement (improvement and development) of recreation facilities and trail networks consistent with the goals and strategies of the Recreation, Education, and Interpretation Program strategic plan. More specifically, Recreation AOP projects will be prioritized and advanced when the project will:

- Improve public safety and reduce user conflict
- Enhance facility and trail system access for all visitors
- Improve recreation facility and trail system sustainability
- Improve operational efficiency and reduce facility and trail system maintenance need and costs
- Improve trail system connectivity, diversity, and flow
- Address and minimize resource impacts
- Align with the timing of operational activity and reduce the potential for future interactions with timber harvest, reforestation, and roads management operations
- Align recreation program trail and facility infrastructure with future vision

#### Volunteer Program and Partnerships

Oregon's state forests embody the Oregon Way of shared ownership, resiliency, and compromise. Volunteerism and a sense of individual stewardship of state forests are part of what makes these lands special for many Oregonians. The REI program is committed to maintaining volunteer program efforts and developing partnerships that provide opportunities for all Oregonians to get involved while stewarding state forests.

Focus over this implementation plan will be on updating and expanding REI's Volunteer Stewardship and Partnership Programs. REI program staff will create uniform policies and procedures to guide volunteer program efforts and develop a Community Engagement Plan that will help guide partnership efforts.

Activities associated with the volunteer program include the recruitment, selection, and management of campground hosts, planning and management of trail maintenance, trail development, and special volunteer projects. Updates to the current volunteer manual, policies, and best management practices will be developed to guide volunteer activity across state forests.

The Recreation program will continue to look for opportunities to develop new partnerships and to enhance existing partnerships that will increase our collective capacity to meet program and project goals and objectives.

# Other Integrated Forest Management Activities

## **Aquatic & Riparian Management**

An objective of State Forests' aquatic resources management is to maintain, enhance, and restore aquatic habitat. Strategies are employed during harvest activities and include but are not limited to: leave trees adjacent to streams to protect stream temperature, provide nutrients, protect stream banks, and eventually provide wood to improve fish habitat. This is achieved primarily through riparian buffer strategies specific to the aquatic resource characteristics such as presence of fish, size, and flow duration.

## Stream Enhancement Projects

State Forests has been committed to implementing stream enhancement work on ODF-managed lands for more than two decades as a partner in the Oregon Plan for Salmon and Watersheds and in partnership with ODFW, local partners, and adjacent land managers. Stream enhancement, fish passage, and ODF's current riparian management area standards are designed to collectively improve processes and function of aquatic ecosystems over time, and ultimately benefit resident and anadromous aquatic-dependent species.

The overarching approach to habitat restoration is described in the Forest Management Plan and is summarized below:

- Eliminate human-induced conditions on the forest that may contribute to aquatic habitat deficiencies, or that may limit the timely recovery of desired aquatic habitat conditions.
- Promote aquatic habitat conditions that will support the short-term survival needs of depressed salmonids, in order to reduce the potential for further declines in these populations.
- Attain properly functioning aquatic habitat conditions in a timely manner.
- Encourage forest conditions that will support the ecological processes necessary to naturally create and maintain complex aquatic habitats on a self-sustaining basis.

When preparing the Annual Operation Plans the district and the staff riparian specialist will work together to assess stream enhancement opportunities. Where feasible, the district intends to combine large wood placements and other stream enhancement projects in high priority stream reaches with the timing of an adjacent or nearby timber sale in order to recognize the benefits of onsite equipment, operators, and available trees. Additionally, and when available, specialists work with ODFW and/or watershed councils, access other local

prioritization information such as Coho Strategic Action Plans, Rapid Bioassessments, Watershed Assessments, etc. to inform where to focus efforts.

Model and GIS data will be utilized to develop a first screening and initial prioritization of potential projects for each Annual Operation Plan. Once this initial list has been developed there are still several remaining factors to consider, including but not limited to: stream access, species and size of trees within harvest units, harvest mechanisms (i.e., ground or cable), and stream specific characteristics such as current wood loading amounts, valley configuration, gradient, stream size and power, nearby infrastructure, land ownership upstream/downstream, domestic water sources, etc. This work will be conducted during the Annual Operations Plan process or during sale layout depending on workloads and efficiency.

## **Land Exchanges and Easements**

In order to maintain or improve access to land parcels and potentially consolidate lands the district will continue to pursue land exchange and easement opportunities that are consistent with current Board of Forestry policy to achieve greatest permanent value.

## **Property Lines and Corners**

The establishment and maintenance of property corners and lines will be prioritized and scheduled through the Annual Operations Plans. Survey work may be accomplished through multiple methods including service contracts with licensed professional land surveyors, cost sharing with adjacent landowners or utilizing the licensed surveyor on staff with ODF.

## **Special Forest Products**

The Forest Grove District currently administers a Special Forest Products program which consists of issuing permits to individuals who wish to collect larger quantities of various forest products. There is a fee charged to individuals for a permit, which is based on the type of forest product and quantity. Special Forest Products include: Firewood, mushrooms, salal, moss, and ferns. Additionally, the public has the ability to gather smaller quantities of these forest products, free of charge, for personal use.

## Cultural, Archeological, and Historical Resources

It is the policy of the Oregon Department of Forestry, State Forests Division, to preserve and protect archaeological and cultural resources and sites during forest management activities according to state law. In order to protect any potential cultural resources during forest management activities, planned operations areas are screened for the presence of cultural resources. Areas where cultural

resources may be present receive further review and avoidance measures where appropriate. Consultation with the State Historic Preservation Office or a qualified archaeologist shall occur if any cultural or archaeological resources are inadvertently discovered on State Forest lands during the course of management activities.

## **Energy and Mineral Resources**

Hard rock is removed from state forest lands for road surfacing on an ongoing basis. These sites, called rock pits or quarries, are in specific locations, generally less than three acres. They are used for ten or more years before being exhausted of suitable surfacing rock. Most often the hard rock from these sites is crushed to produce surfacing rock of specific size and grade for forest roads. This crushed rock is either applied directly to existing or newly constructed roads, or is stockpiled at a nearby location for future application. When quarry sites are exhausted, they are vacated by providing water drainage, reducing the slope of the quarry walls, and sometimes filling them in with topsoil and reseeding the surface with annual and perennial plants.

## **Map Section**

Forest Grove District Overview

Forest Grove District: Current Condition Stand Structure

Forest Grove District: Desired Future Condition

Forest Grove District: Forest Land Management Classification – Stewardship

Classes

Forest Grove District: Forest Land Management Classification - Biological

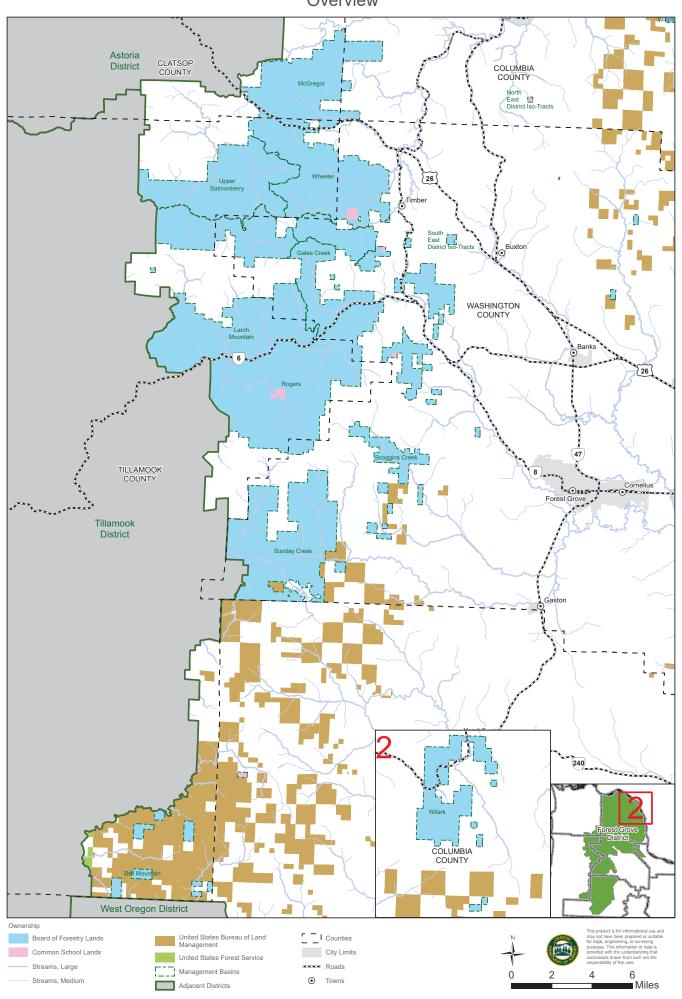
Subclasses

Forest Grove District: Forest Land Management Classification – Management

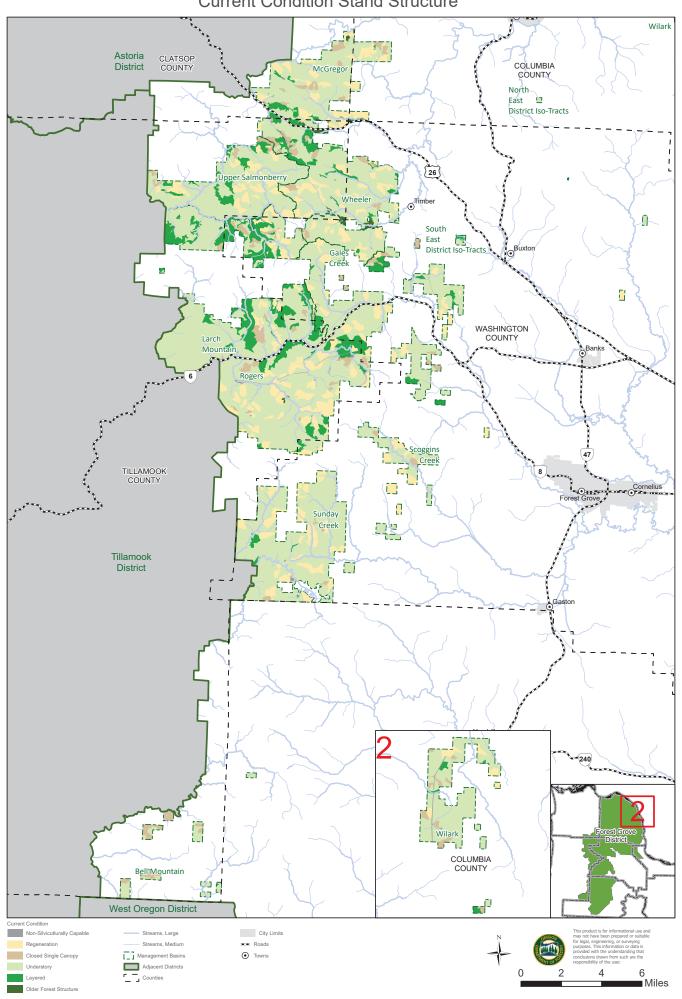
Subclasses

Forest Grove District: Forest Land Management Classification – Social Subclasses

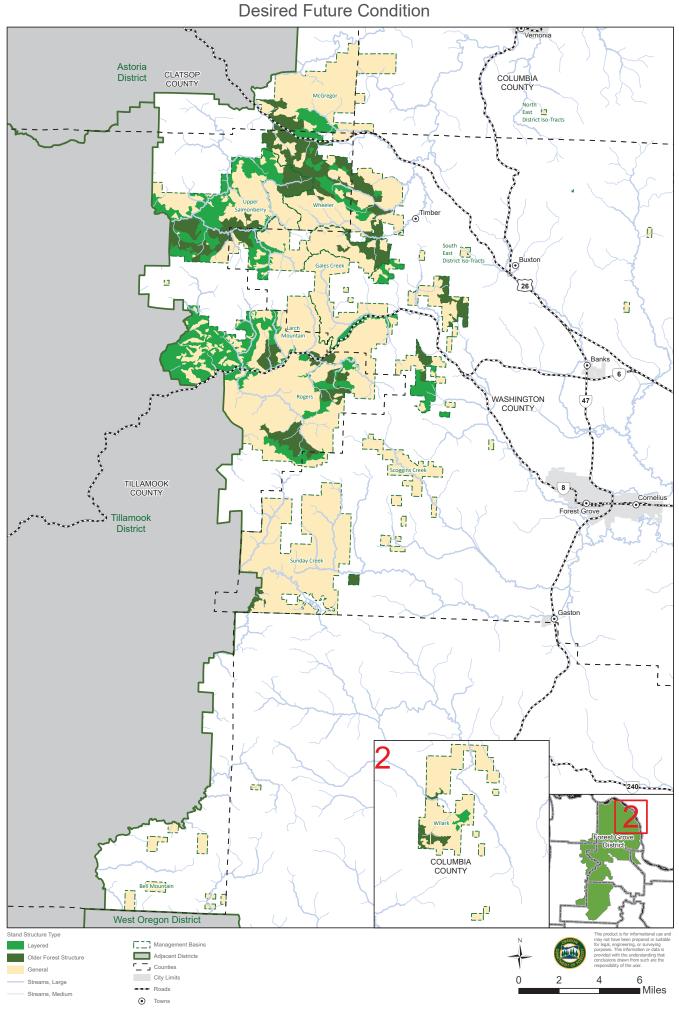
## Forest Grove District Overview



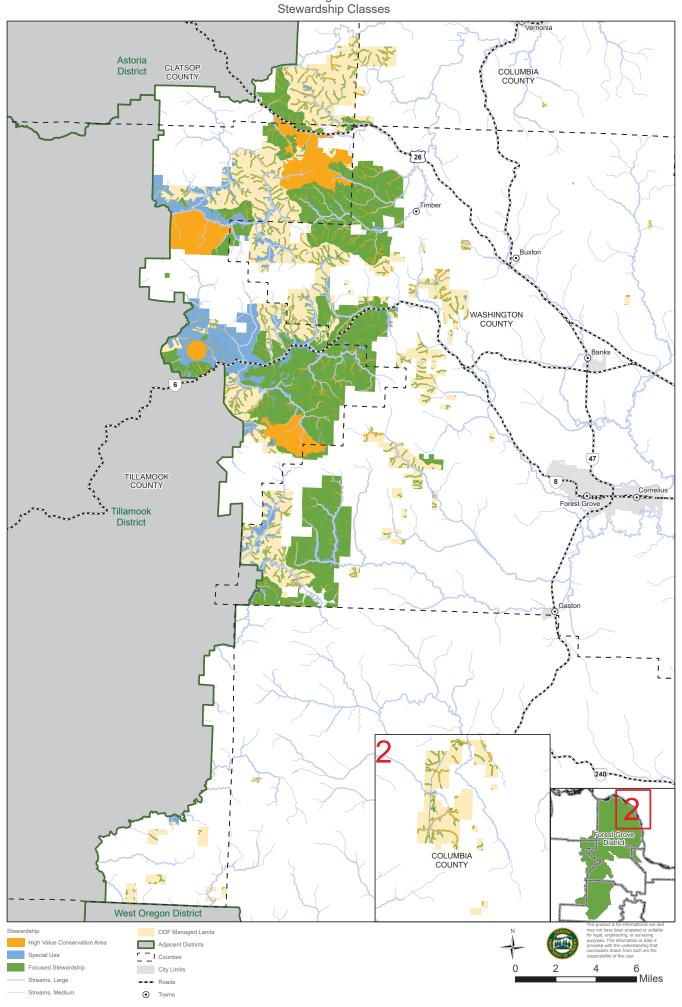
# Forest Grove District Current Condition Stand Structure



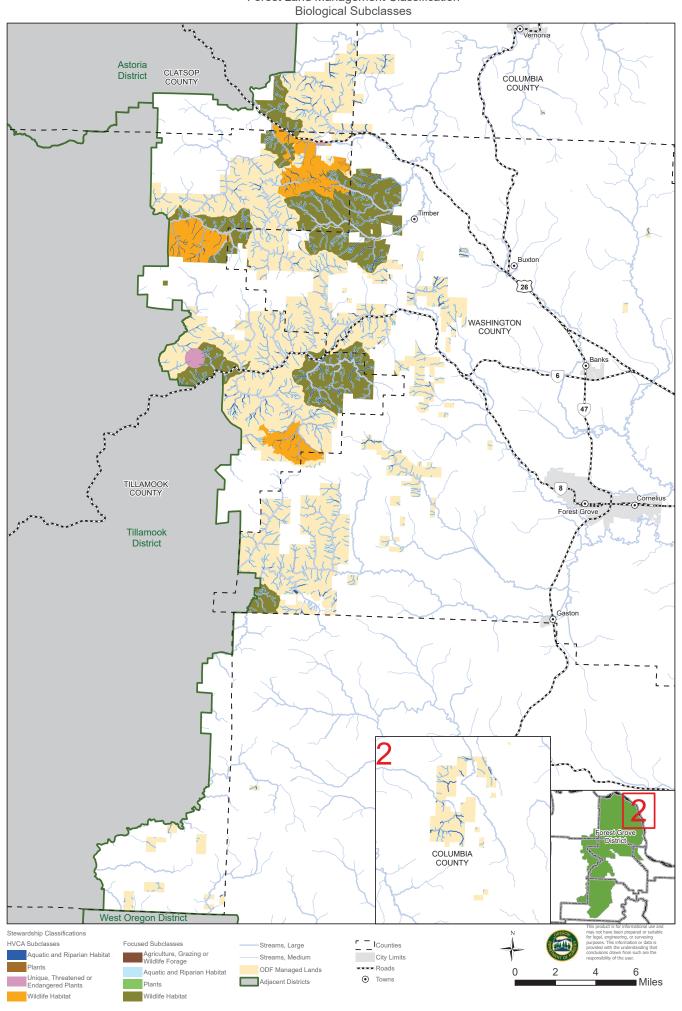
# Forest Grove District Desired Future Condition

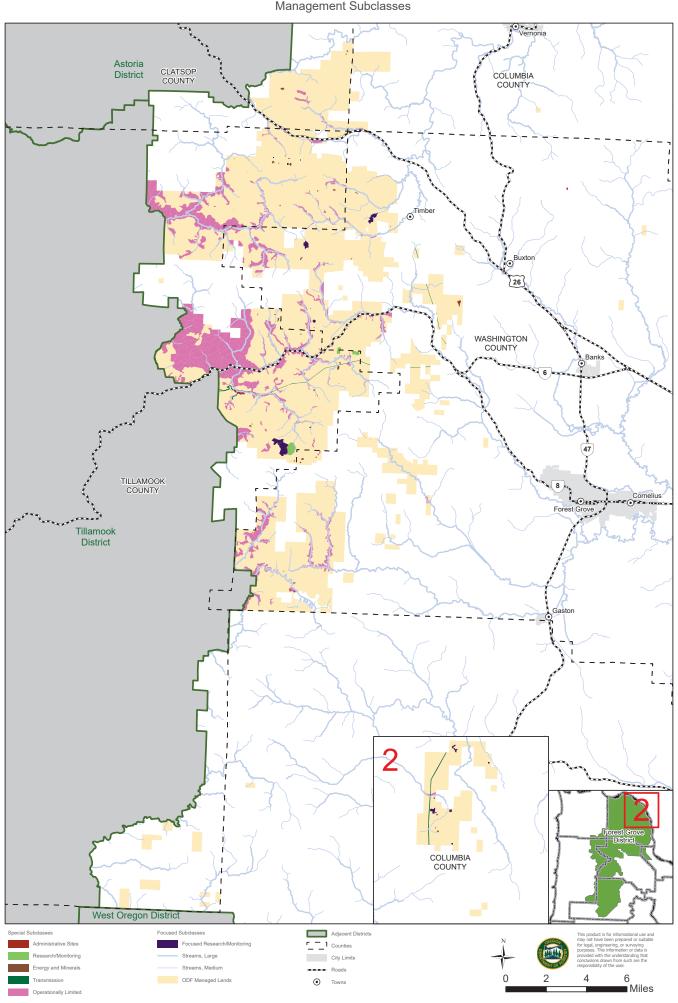


Forest Grove District
Forest Land Management Classification
Stewardship Classes

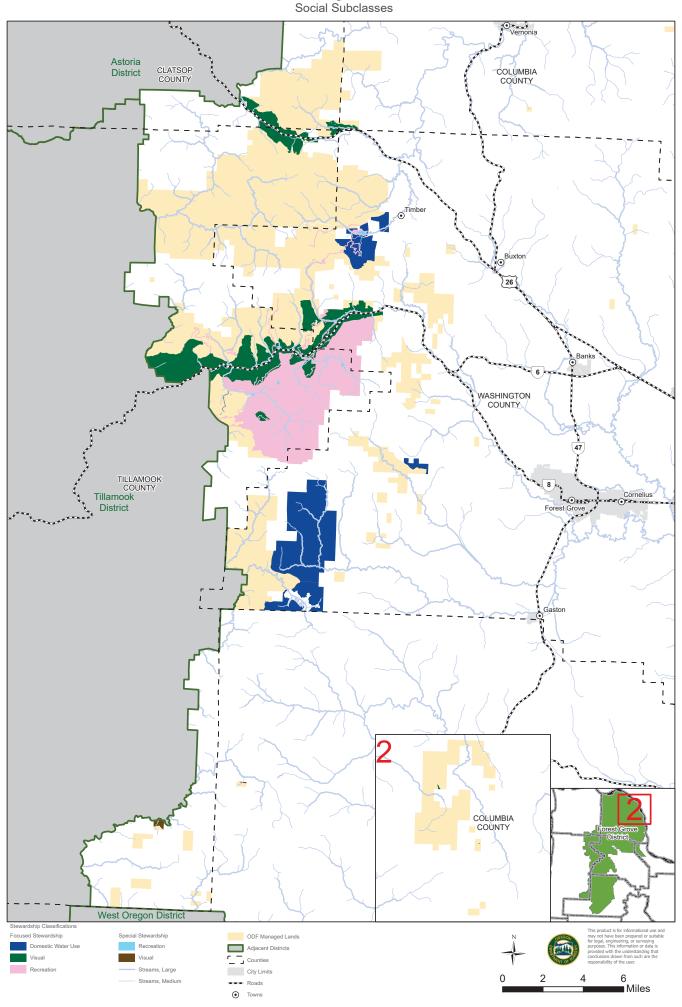


Forest Grove District
Forest Land Management Classification
Biological Subclasses





Forest Grove District
Forest Land Management Classification
Social Subclasses



## **Appendix A**

## **Harvest Modeling Analysis**

This appendix describes the *Harvest Modeling Analysis* the district used to determine the Annual Harvest Objective (AHO) resulting from the strategies described in this Implementation Plan, the Northwest Oregon State Forest Management Plan, the draft HCP requirements, the Species of Concern strategies, and the other plans, policies or strategies listed in this Implementation Plan

The analysis is based on the volume, stand structure and wildlife habitat outputs produced utilizing a harvest scheduling model called Patchworks. These outputs were then reviewed and adjusted as necessary using expert opinion from the district. This model uses spatial inputs and a set of rules to find a solution that optimizes multiple goals across a 150 year timeframe. There are three primary inputs to the harvest model: (1) a growth-and-yield model, in this case the Forest Vegetation Simulator (FVS), (2) a detailed spatial representation of the landscape, using thousands of polygons in GIS, and (3) a set of rules and weighted goals.

The primary competing goals in the model are (1) timber harvest in the short- and long-term; (2) landscape design in the short-term and complex structure requirement in the long-term and (3) wildlife habitat development in the short- and long-term.

Some of the other rules followed by the model include:

- Ensure sustainability of both long-term timber harvest and inventory on the landscape: Harvest volume is held to even-flow through the entire 150 years and volume of growing stock is not allowed to decline after year 100. Even-flow means that the harvest volume is not allowed to decrease or increase, but must remain the same during the 150 year timeframe.
- No regen harvest within the mapped landscape design for desired future complex stands for the first five years, then the landscape design is allowed to move around the landscape.
- No regen harvest in Terrestrial Anchor Sites for the first five years.
- Regen harvest is allowed with the HCAs to treat Swiss needle cast and alder stands for wildlife habitat improvement as allowed by the HCP for the first 30 years.
- Thinning of healthy conifer stands within the HCAs for the first 30 years to improve wildlife habitat as allowed by the HCP.
- A minimum of 40% estimated spotted owl dispersal habitat was maintained outside of HCAs as required by the HCP.

 Patches of regeneration harvest were not allowed to exceed 120 acres in a single five year model period.

The model solution suggests a volume output where the long-term integrity of both the Desired Future Condition and the HCP implementation requirements remain intact at the end of the IP timeframe (2-3 years). The IP volumes need to accommodate several scenarios during this transition period as ODF works towards getting an approved HCP and developing a new Western Oregon FMP. Those scenarios include:

- Current FMPs with species of concern protections, take avoidance strategies and T&E surveys while implementing the HCP (period 1 only);
- Current FMPs while implementing the HCP requirements with an incidental take permit (after period 1);
- Allow for the planning process needed to determine where up to 1,500 acres per year of thinning of healthy conifer stands within the HCAs will occur across the HCP Permit Area.

#### Table 1. Modeled Harvest Volume Per Year

Total Harvest Volume		
(MMBF)		
48.6		

Harvest models are limited by the model's inputs, and uncertainty in the inputs should be noted. Initial stand measurements are taken from a stand inventory that inherently has uncertainty for inventory, stand age, etc. From that initial inventory, stands are projected using the FVS growth model, which introduces additional uncertainty pertaining to current and future forest conditions. Spatial information is based on current GIS layers where uncertainty occurs from using modeled streams and roads layers, and predicted steep slope and inner gorge areas.

The model solution was reviewed by the district to ensure that model rules were being followed across the landscape and that the solution is implementable. The district also reviewed a sub-set of harvest units within the first ten years of the model to evaluate age at harvest, harvest volume, inventory growth rates, and if model rules were being followed at the operational level. The model solution review also looked at impacts to recreation, wildlife, district workload and finances.

There were issues identified within the Model solution:

- Volume per acre was too high
- Stream data shows some inconsistencies
- Thinning ranges inside/outside HCAs were not working correctly within the model

To account for the over optimistic harvest volume per acre, a volume reduction (determined by the district using cut out data during district Model Solution Review (MSR)) was applied to the total volume from the model output as shown below.

Table 2. Adjusted Volumes

District Volume Unadjusted Total reduction based on MSR Adjusted Total				
Volume	Regen	Thin	Volume	
48.6	10%	30%	43.2	

This becomes the base amount of harvest volume per year that may be realized during this IP duration. To allow flexibility for sale planning and to incorporate additional harvest within HCAs when the Incidental Take Permit takes effect, volume targets for the IP duration are being expressed as a range presented below.

Table 3. District Harvest Volume Per Year

Volume Range (MMBF)	
43 - 47	

40

## **Appendix B**

# **SOC Limiting Factors Coarse Evaluation and Additional Strategies.**

Common Name	Limiting Factors (LF)*	FMP Strategies that Protects or Maintains LF or Habitat	Additional SOC Strategies to address LF
Clouded salamander	Limited range (occurs primarily in Oregon). Loss of large logs.	Landscape Management Concepts 1-3 and Management Strategies 1-4, particularly LMS 3 (retention of snags and downed wood in harvest units)	None at this time
Coastal tailed frog	Limited range (PNW endemic), Low reproductive rate. Low dispersal ability. Sedimentation & increases in water temperature.	Aquatic and Riparian Management Strategies	None at this time
Columbia Torrent Salamander	Highly sedentary with limited dispersal capability. Sensitive to desiccation and changes in stream flow.	Aquatic and Riparian Management Strategies	None at this time
Cope's Giant Salamander	Limited range in Oregon. Vulnerable to channel dewatering and stream barriers. Sensitive to temperature and sediment.	Aquatic and Riparian Management Strategies	None at this time
Northern red- legged frog	Loss of egg-laying habitat. Predation & competition from bullfrogs and invasive fish.	Aquatic and Riparian Management Strategies	None at this time
Western toad	Loss of breeding habitat, siltation, and recreational impacts.	Protect wetlands, road BMPs reduce siltation	None at this time
Northern Pacific pond turtle	Loss of aquatic & nesting habitats (conversion and invasive species). Road Mortality. Predation.	Aquatic and Riparian Management Strategies	Site Plans for riparian areas at known sites
Western painted turtle	Loss of aquatic & nesting habitats (conversion and invasive species). Predation.	Aquatic and Riparian Management Strategies	Site Plans for riparian areas at known sites
American peregrine falcon	Disturbance at nests.	Landscape Management Concept 2 - Landscape Design (maintain unique habitats and those of species at risk)	Site Plans near active nests
Bald eagle	Loss of large nest trees.	Landscape Management Concepts and Strategies; Aquatic and Riparian Management Strategies	Site Plan/FPA Rules
Band-tailed pigeon	Reduction in quality and number of mineral sites. Large area requirements.	Landscape Management Concepts and Strategies; Aquatic and Riparian Management Strategies	Site Plan/FPA Rules

Common Name	Limiting Factors (LF)*	FMP Strategies that Protects or Maintains LF or Habitat	Additional SOC Strategies to address LF
Common nighthawk	Loss and degradation of nesting habitat due to changes in hydrology and wildfire. Increased predation pressure and reductions in aerial insect abundance.	Landscape Management Concepts and Strategies; Aquatic and Riparian Management Strategies	Site Plans near active nests
Great blue heron	Sensitive to disturbance at nesting rookeries.	Landscape Management Concepts and Strategies; Aquatic and Riparian Management Strategies	Site Plan/FPA Rules
Marbled murrelet	Reductions in late seral forest; low reproductive output & success. Habitat loss due to severe fire.	Landscape Management Concepts and Strategies; Aquatic and Riparian Management Strategies; State Forests Marbled Murrelet Operational Policy (1.1) and associated Procedures and Guidance	None at this time
Northern goshawk	Large area requirements. Affected by reductions in amount of late successional and closed canopy forest.	Landscape Management Concepts and Strategies	Site Plan (already in existing SOC policy for other districts)
Northern spotted owl	Declining. Large home range. Reduction in late seral habitat. Habitat loss to severe fire.	Landscape Management Concepts and Strategies; State Forests Northern Spotted Owl Operational Policy (1.2) and associated Procedures and Guidance	None at this time
Olive-sided flycatcher	Relatively large area requirements. Increased predation rates in harvest units or fragmented forest.	Landscape Management Concepts and Strategies	Modified Practice: Structural retention strategies (number and location of green trees and snags) could be modified in known nest stands.
Osprey	Large snags and broken-topped trees in close proximity to water. Sensitive to disturbance at nest sites.	Aquatic and Riparian Management Strategies	Site Plan/FPA Rules
Purple martin	Loss of nesting cavities. Competition with starlings for nest cavities, adequate aerial prey base.	Landscape Management Concepts 1-3 and Management Strategies 1-4, particularly LMS 3 (retention of snags in harvest units)	Modified Practice: Focus on retention of snags with specific characteristics (low, skinny) in upland areas of clearcuts (within 3 miles of large water bodies)
Western bluebird	Habitat loss & degradation. Competition from non-native birds for cavities.	Landscape Management Concepts 1-3 and Management Strategies 1-4, particularly LMS 3 (retention of snags in harvest units)	Modified Practice: Focus on retention of snags with specific characteristics in upland areas of clearcuts
Willow flycatcher	Declining populations, loss of nesting habitat.	Landscape Management Concepts and Strategies; Aquatic and Riparian Management Strategies	Modified Practice: Consider gap creation, heavy thinning, and intentional development of complex early seral habitat
California myotis	Reduction of large snags, patchy distribution, low populations.	Landscape Management Concepts 1-3 and Management Strategies 1-4, particularly LMS 3 (retention of snags in harvest units)	None at this time
Fringed myotis	Disturbance at roosts, patchy distribution, reduction in snags.	Landscape Management Concepts 1-3 and Management Strategies 1-4, particularly LMS 3 (retention of snags in harvest units)	None at this time

Common Name	Limiting Factors (LF)*	FMP Strategies that Protects or Maintains LF or Habitat	Additional SOC Strategies to address LF
Hoary bat	Habitat loss.	Landscape Management Concepts 1-3 and Management Strategies 1-4, particularly LMS 3 (retention of snags in harvest units)	None at this time
Long-legged myotis	Reduction of late seral conifer, loss of hollow trees and tall, newly dead snags, loss of healthy riparian habitat, untimely bridge replacement.	Landscape Management Concepts 1-3 and Management Strategies 1-4, particularly LMS 3 (retention of snags in harvest units); Riparian Management Strategies	None at this time
Red tree vole	Small home range, limited dispersal ability, low reproduction rate.	Landscape Management Concepts and Strategies	None at this time.
Silver-haired bat	Reduction of late seral conifer forests, loss of hollow trees and tall, newly dead snags.	Landscape Management Concepts 1-3 and Management Strategies 1-4, particularly LMS 3 (retention of snags in harvest units)	None at this time
Townsend's big-eared bat	Highly sensitive to disturbance at roosts; highly specific roost requirements (dependent on uncommon or at risk structures for habitat). Pesticides and related prey reduction.	Cultural resource protection may protect against destruction of some mines/buildings but not against disturbance	Site Plans for any mine or cave roosts or building maternal roosts
Chinook, Lower Columbia, Fall	Water quality. Fish passage. Riparian condition. Altered watershed processes. Marine Survival.	Aquatic and Riparian strategies 1– 7 and riparian buffer strategies in Appendix J. Aquatic anchors.	None at this time
Chinook, Coastal, Spring	Water quality. Fish passage. Riparian condition. Altered watershed processes. Marine Survival.	Aquatic and Riparian strategies 1–7 and riparian buffer strategies in Appendix J. Aquatic anchors.	None at this time
Chum, Coastal	Fish passage. Loss of estuarine habitat. Altered watershed processes. Marine Survival	Aquatic and Riparian strategies 1–7 and riparian buffer strategies in Appendix J. Aquatic anchors.	None at this time
Chum, Lower Columbia	Fish passage. Loss of estuarine habitat. Altered watershed processes. Marine Survival	Aquatic and Riparian strategies 1–7 and riparian buffer strategies in Appendix J. Aquatic anchors.	None at this time
Coastal Cutthroat, Oregon Coast	Habitat fragmentation or actions that increase population isolation. Water Quality. Alterations of hydrology and watershed function. Loss of estuarine habitat for rearing. Ocean productivity.	Aquatic and Riparian strategies 1–7 and riparian buffer strategies in Appendix J. Aquatic anchors.	None at this time
Coho, Coastal	Stream complexity. Water quality. Fish passage. Riparian condition. Altered watershed processes. Marine Survival.	Aquatic and Riparian strategies 1–7 and riparian buffer strategies in Appendix J. Aquatic anchors.	None at this time
Coho, Lower Columbia	Stream complexity. Water quality. Fish passage. Riparian condition. Altered watershed processes. Marine Survival.	Aquatic and Riparian strategies 1– 7 and riparian buffer strategies in Appendix J. Aquatic anchors.	None at this time

Common Name	Limiting Factors (LF)*	FMP Strategies that Protects or Maintains LF or Habitat	Additional SOC Strategies to address LF
Lamprey, Western Brook	Reduced water quality. Passage barriers. Altered flow patterns. Dredging. Rapid water drawdowns. Marine survival.	Aquatic and Riparian strategies 1– 7 and riparian buffer strategies in Appendix J. Aquatic anchors.	None at this time
Lamprey, Pacific	Reduced water quality. Passage barriers. Altered flow patterns. Dredging. Rapid water drawdowns. Marine survival.	Aquatic and Riparian strategies 1– 7 and riparian buffer strategies in Appendix J. Aquatic anchors.	None at this time
Lamprey, River	Reduced water quality and quantity. Passage barriers. Altered flow patterns. Dredging. Rapid water drawdowns. Predation.	Aquatic and Riparian strategies 1– 7 and riparian buffer strategies in Appendix J. Aquatic anchors.	None at this time
Steelhead, Upper Willamette, Winter	Water quality. Altered flow patterns. Fish passage. Riparian condition. Marine survival.	Aquatic and Riparian strategies 1– 7 and riparian buffer strategies in Appendix J. Aquatic anchors.	None at this time
Steelhead, Lower Columbia, Winter	Water quality. Altered flow patterns. Fish passage. Riparian condition. Marine survival.	Aquatic and Riparian strategies 1– 7 and riparian buffer strategies in Appendix J. Aquatic anchors.	None at this time

<sup>\*</sup> Limiting Factors information taken from the 2016 Oregon Conservation Strategy (ODFW 2016).

## **Appendix C**

#### References

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## **Appendix D**

## **Public Comment Summary**

## **Public Involvement and Summary of Changes:**

In order to engage with Oregonians, the Oregon Department of Forestry's (ODF) Implementation Plan revisions for the Astoria, Forest Grove, Klamath-Lake, North Cascade, Tillamook, West Oregon and Western Lane districts that had a 30-day public comment period, which began February 3, 2023. The public was notified via a statewide news release and subsequent media coverage, as well as emails to citizens and stakeholders on ODF's mailing lists, the ODF website, and posts on ODF's Facebook, Instagram & Twitter platforms. A public information workshop was also held on February 2, 2023. Public comment was accepted through the ODF website, email, and letters.

The purpose of the Public Comment Period was to provide an opportunity for the public to review the revised Implementation Plan, ask questions, make recommendations, and offer comments. As a public agency, ODF strives to operate in the best interest of Oregonians. We provide opportunities for public participation to assist us in securing the greatest permanent value from state forests for all Oregonians.

The following is a summary of the changes that have been made to the Implementation Plans based on the feedback that was received and new information that we have learned:

#### **Changes in all Implementation Plans included:**

- "Executive Summary"
  - Updated language to reflect adjustments made to ongoing policy work timelines
  - Provided additional clarity and language about considering new information from ongoing policy work.
  - Added language about the requirements outlined in the Coho Lawsuit Settlement Agreement.
- "Climate" Updated language for clarity to include additional information about extreme weather events.
- "Planned Annual Harvest Objectives" Added language about the requirements outlined in the Coho Lawsuit Settlement Agreement and added harvest and stand type language for clarity.
- "Young Stand Management" Updated reforestation language to include additional information about seed sources and planting considerations.
- "Forest Health" Updated silviculture activities to provide additional clarity.
- "Appendix A" Updated take avoidance land T&E survey language to provide additional clarity.
- "Appendix C" Updated references to include Coho Lawsuit Settlement Agreement (2023)
- "Appendix D" Added this appendix which summarizes the Public Comments

**Summary of comments:** In all, ODF received 48 individual written comments related to the Implementation Plan revisions for the Astoria, Forest Grove, Klamath-Lake, North Cascade, Tillamook, West Oregon and Western Lane districts. While there were many comments that specifically pertained to the Implementation Plan revisions, a large number of comments were out-of-scope as they related to other topics like the Habitat Conservation Plan, new Forest Management Plan, grants, legislation, etc. While these out-of-scope comments won't be addressed in this document we did summarize them below. The following is a summary of comments received and agency responses, to these draft plans.

#### Implementation Plan/Habitat Conservation Plan Comments

Comments related to the incorporation of the draft Habitat Conservation Plan requirements into the Implementation Plan revisions included general comments of support or opposition as well as recommendations. Commenters recommend:

- Extending current Implementation Plans until the Habitat Conservation Plan is adopted instead of approving the revised Implementation Plans.
- Delaying implementation of the Habitat Conservation Plan until the new Forest Management Plan is finalized.
- Implementing the Habitat Conservation Plan requirements and provisions of the Incidental Take Permit only when they are approved and in place.
- Developing transitionary implementation plans for Fiscal Year 24-25 that continue business as usual.
- Delaying implementation of the draft Habitat Conservation Plan to give ODF, counties, and industry time to plan for possible reduced harvest going forward.
- Support ODF applying Habitat Conservation Areas and Riparian Conservation Areas into Implementation Plans revisions which will help create more complex forests, provide habitat for many species, make forests less prone to wildfire, and older stands that store more carbon than those managed on a 40-year rotation.
- Extending current Implementation Plans should not increase the timeline to draft Fiscal Year 2024 Annual Operations Plans just add alternate sales or primaries from previous fiscal years.
- Removing Habitat Conservation Area restrictions on where regeneration harvest sales can occur until a Habitat Conservation Plan is finalized.
- Removing the Habitat Conservation Plan requirement that a minimum of 40% estimated spotted owl dispersal habitat will be maintained outside of Habitat Conservation Areas from Implementation Plans.
- Using Habitat Conservation Plan Alternative 3 for adequate protection of water quality and aquatic resources in the Implementation Plans.
- Removing limits on thinning and clearcut harvesting in Habitat Conservation Areas until Board of Forestry approves a Forest Management Plan designating Habitat Conservation Areas.

- Excluding any language related to draft Habitat Conservation Plan in the guiding documents for any of ODF managed lands until the Habitat Conservation Plan has been finalized.
- Implementing conservation measures from the draft Habitat Conservation Plan consistent with the wildlife goals and Desired Future Condition Complex ranges outlined in the current Forest Management Plan.
- Using a transitional approach that implement some conservation measures of the draft Habitat Conservation Plan that truly align with the current Forest Management Plan instead of combining all conservation measures and overemphasizing thinning prescriptions.
- Implementing Habitat Conservation Area strategies in areas designated as Desired Future Condition Complex.
- Exclude draft Habitat Conservation Plan management prescriptions in Implementation Plans until Habitat Conservation Plan is adopted and incidental take permits are issued.
- Incorporating the approved Private Forest Accord since all major environmental groups, timber stakeholders, and the State of Oregon and can agree that the Private Forest Accord meets all Endangered Species Act requirements, and all water quality and environmental goals and all economic goals that the Board of Forestry is expected to meet and balance.

More general comments, which did not include recommendations, include:

- Commendation for incorporating best management practices in the proposed Habitat Conservation Plan and Implementation Plans revisions.
- Supporting incorporation of draft Habitat Conservation Plan requirements into Implementation Plans revisions.
- Perspective that the revised Implementation Plans bloat areas designated as
   Desired Future Condition complex by implementing conservation strategies
   designed to meet other goals not included in the current Forest Management Plan.
- Concern that the Implementation Plans revisions do not achieve the original balance of Greatest Permanent Value in the current Forest Management Plan because of the overlap of the current Forest Management Plan requirements and the draft Habitat Conservation Plan requirements.
- Perspective that New Implementation Plans fail to balance ecosystem services and instead focuses on conservation measures due to overlapping DRAFT Habitat Conservation Plan strategies on top of current Forest Management Plan objectives.
- Perspective that the Habitat Conservation Plan restrictions are compounding the impacts of current Forest Management Plan restrictions (Desired Future Condition, Terrestrial Anchor Sites, Aquatic Anchors), which according to Implementation Plans will continue even after a Habitat Conservation Plan is adopted.
- Perspective that Districts will be operating under unnecessarily restrictive implementation plans if they move forward with implementation of the draft Habitat Conservation Plan.

#### Implementation Plan/Habitat Conservation Plan Response:

At the direction of the Board of Forestry, ODF is continuing the development of a draft Western Oregon State Forests Habitat Conservation Plan and new Forest Management Plan for Western Oregon State Forests. At the time of developing the revised Implementation Plans, the Habitat Conservation Plan is a formal public draft document with an accompanying draft Environmental Impact Statement in the federal National Environmental Policy Act process. Finalization of the Environmental Impact Statement and Biological Opinions, and issuance of Incidental Take Permits is expected to occur within Fiscal Year 2024. The current draft of the Habitat Conservation Plan states that implementation will begin with the Fiscal Year 24 Annual Operations Plan. There were several comments providing suggestions for partial implementation of the Habitat Conservation Plan requirements or adjustments to the requirements but in order to continue this process these Implementation Plans must be revised to include all of the components of the draft Habitat Conservation Plan in order to cover the expected Habitat Conservation Plan approval timeline. As this process evolves ODF will evaluate new information or changes in direction after they occur to determine if adjustments need to be made.

Forest Management Plan/Habitat Conservation Plan Balance: Given the Board of Forestry direction, even in light of the questions and the dialog that is occurring, and the timing requirements outlined in the draft Habitat Conservation Plan there is a transition period where ODF may be issued Incidental Take Permits without an approved new Forest Management Plan. This means that we need to work under current Forest Management Plan until a new Forest Management Plan has been approved including the requirements around Terrestrial Anchors, Aquatic Anchors, and Desired Future Condition. The current Forest Management Plan gives flexibility to manage above the minimum requirements outlined in the plan and provide discretion to exceed these requirements to achieve other goals. There have been many examples of current Forest Management Plan overlap with other requirements since the plan adoption, such as the Forest Practices Act rule overlap, species of concern requirements, and litigation settlement requirements. In this case it means the additional Habitat Conservation Plan requirements needed to follow the Board of Forestry direction and honor the Habitat Conservation Plan process. This overlap of rules will be temporary during this transition period and will be resolved with the adoption of a new Forest Management Plan. As the Habitat Conservation Plan and new Forest Management Plan process evolves, ODF will evaluate new information or changes in direction after they occur to determine if adjustments need to be made.

<u>Utilizing the Private Forest Accord</u>: The Private Forest Accord and the State Forests Habitat Conservation Plan are two separate Habitat Conservation Plan processes. The Private Forest Accord process excludes State Forests from being an applicant for that Habitat Conservation Plan and any Incidental Take Permits that may result. This means that State Forests could not implement the Private Forest Accord rules to meet Endangered Species Act requirements. Another major difference is that the Private Forest Accord only covers certain fish and amphibian species while the State Forest Habitat Conservation Plan covers several fish and amphibian species but also includes additional species of birds and mammals. The Private Forest Accord resulted in a new set of Forest

Practices Act rules prior to completion of its related Habitat Conservation Plan and issuance of Incidental Take Permits. This is similar to the process that State Forest is using during this transition period by implementing the State Forest draft Habitat Conservation Plan requirements while the State Forest Habitat Conservation Plan process is being completed.

#### **HARVEST LEVELS COMMENTS**

Comments related to State Forest timber harvest levels included:

- Keep harvest levels at the current Implementation Plan levels. Don't lower the harvest levels.
- Revise Implementation Plans to bring harvest levels closer to current levels.
- Several comments expressing concern that businesses and mills will close, contract firefighting and logging resources won't be available because of reduced harvest levels.
- One noted that Implementation Plans fail to accurately follow either plan and significantly reduce annual harvest objectives that will leave critical gaps in Oregon's forest manufacturing capacity and operating workforce.
- Several comments concerned the decreases in Annual Harvest Objective for the majority of the Draft Implementation Plans when Habitat Conservation Plan and new Forest Management Plan are not approved.
- Concern that required workforce won't be available for the Department to achieve its conservation goals alongside its economic goals.
- Proposed harvest reductions could be closer to 50% depending on proposed stands taken out of production.
- One commenter noted that the harvest reductions mean roughly a 30% reduction in annual harvest and amounts to an approximate decrease of \$80 million dollars in revenue over two years resulting in a \$30 million budget shortfall for ODF and \$50 million budget shortfall for counties and local governments and has the potential to adversely impact over 700 timber-related jobs in rural communities.
- Reduced harvest levels from State Forests combined with declining supply from highly regulated domestic producers will require imported wood products to meet demand.
- Reduction in harvest combined with Oregon's new emission requirements will make it hard for trucking companies to stay in business.
- State Forest reductions combined with United States Forest Service harvest level reductions, decreasing market due to 2020 fires, and increased Private Forest Accord harvest restrictions will harm local companies and families and lead to lumber being imported when we should be sustainably supplying the market locally.

#### **Harvest Levels Response:**

These Implementation Plans seek to balance the agency's legal obligation to manage state forests for economic, environmental, and social values while working through potential policy changes in the face of a broad range of perspectives. In doing so, harvest levels will be lower for the next two to three years as we work through the Habitat Conservation Plan and new Forest Management Plan process, await final direction from the Board while honoring commitments made in the Habitat Conservation Plan as to not affect the calculations of "take" during the Environmental Impact Statement and continue to implement management strategies in the current Forest Management Plan to ensure future sustainability under these rules and policies. These revisions incorporate new data and information on forest resources and incorporate both the Forest Management Plan and the draft Habitat Conservation Plan requirements during this transition period while this work is being completed. This has required harvest levels to be adjusted to ensure future sustainability under these rules and policies. The harvest levels are lower than what we have been operating on in previous years and represent a range of 19% to 27% in total volume reductions averaged across all the districts from the current Implementation Plan targets. The actual harvest levels and specific operations will be identified in the Fiscal Year 24 and Fiscal Year 25 Annual Operation Plans. Currently State Forests has approximately 325 million board feet of timber under contract and an additional 330 to 365 million board feet that will be added to the local market over the next two years. As ODF works through the Habitat Conservation Plan and new Forest Management Plan process new information or changes in direction will be evaluated after they occur to determine if adjustments need to be made.

#### **FOREST MANAGEMENT COMMENTS**

Comments related to Forest Management on state forests include:

- Regeneration harvests should be avoided in Habitat Conservation Areas
  especially harvest of alder stands within Habitat Conservation Areas should be
  avoided at all costs as alder has value in fixing nitrogen and providing foraging
  habitat.
- Partial cuts in the Habitat Conservation Areas must be limited and only applied where there are clear conservation objectives for developing complex forest conditions.
- Clearcut timber harvest on steep slopes above salmon-bearing streams must be avoided or risk violating the Endangered Species Act.
- Opposed to planting genetically modified trees.
- Consider planting more cedar because it is higher quality wood, doesn't rot away and has more value.
- Current harvest methods not only remove trees but also clear all native and nurse trees, understory plants, and then are sprayed with chemicals.

#### **Forest Management Response:**

<u>Partial Cut/Thinnings in Habitat Conservation Areas</u>: Some partial cuts for improving wildlife habitat consistent with the long-term goals of the Habitat Conservation Plan will

occur within the Habitat Conservation Areas. As areas for habitat improvement are identified, the partial cut prescription for these areas will be developed in collaboration with ODF biologists and foresters. This is done in partnership as the biologists identify what habitat characteristics they are looking for in the stands and the foresters help identify prescriptions that would lead to those desired characteristics. Partial cutting within Habitat Conservation Areas will average approximately 1,500 acres per year across the districts as per the Habitat Conservation Plan. During the time frame of these Implementation Plans, these partial cut prescriptions will align with the current NW & SW Forest Management Plans, Habitat Conservation Plan and Implementation Plans.

Regeneration in Habitat Conservation Areas: Hardwood species have value for wildlife habitat, however, large expanses of red alder dominant stands with little conifer component are unlikely to develop into suitable or highly suitable habitat for some covered species within the Habitat Conservation Areas. There are approximately 50,000 acres of hardwood dominated stands within the Habitat Conservation Areas. To assist in meeting the biological goals and objectives within the Habitat Conservation Plan for the terrestrial covered species, stand management in the form of modified clearcut or retention cut may occur in approximately 30% of red alder-dominant stands within Habitat Conservation Areas over the first 30 years of the Habitat Conservation Plan implementation. Within these managed stands, existing conifers may be retained where operationally feasible, and some hardwoods may also be retained during harvest. All trees regardless of species are maintained within Riparian Conservation Areas. Many hardwood-dominated stands within the Habitat Conservation Areas will remain unmanaged.

There are approximately 46,000 acres of stands within Habitat Conservation Areas containing Douglas-fir trees that are severely infected with Swiss needle cast. Swiss needle cast is a native disease of Douglas-fir that affects trees of all ages and causes premature loss of needles, especially in the upper crown, which reduces tree growth and vigor across affected acres. The focus of management in a subset (33%) of these infected stands within Habitat Conservation Areas over the first 30 years of the permit term will be to replace stands that are stunted by Swiss needle cast that are not otherwise likely not become high quality habitat for covered species. These managed areas will be replanted with a species mix that will grow into more suitable habitat for the covered species. Swiss needle cast regeneration prescriptions may include the retention of other conifer species and hardwood species that are unaffected by the disease. No trees regardless of Swiss needle cast infection will be removed from Riparian Conservation Areas. Many Swiss needle cast infected stands within the Habitat Conservation Areas will remain unmanaged.

<u>Green Tree Retention:</u> Green trees are retained within each modified clearcut unit. Arrangements of retained green trees include; scattered individual trees, clumps of trees, and trees concentrated in and adjacent to riparian management areas, inner gorge areas or headwalls. The final decision on the location and arrangement of the green trees is made while the timber sale is being laid out to incorporate information on potential minor tree species, unique stand features, steep slopes, visual considerations, reforestation considerations, logging costs, etc.

<u>Steep Slopes</u>: The Forest Management Plans and associated policies are designed to ensure forest resources are protected and that natural processes fundamental to healthy forests continue. Landslides are important natural geological processes, which introduce large wood and gravel into the stream network. Large wood and gravel inputs are critical to fish habitat, spawning and rearing.

Strategies in place within the forest management plans and Habitat Conservation Plan provide robust aquatic and riparian buffers that include additional protection measures and tree retention for areas of potential unstable slopes such as inner gorges, initiation sites and their associated potential debris flow track reaches and high energy seasonal streams. ODF strives to complete geotechnical reviews prior to finalizing district annual operation plans, however, some field consultations can't be completed by then or are more effectively done during sale layout. Further unstable slopes noted by foresters are addressed prior to finalizing leave tree strategies and all geotechnical concerns are addressed prior to a timber sale being sold.

<u>Young Stand Management:</u> ODF does not plant genetically modified trees. ODF plants native tree species that are grown from seed that is considered to be suited to future conditions. This seed is produced from traditional crossbreeding of trees from a variety of seed zones to make them resilient to current disease and future climate conditions. Individual reforestation strategies are developed for harvest units. These strategies take into consideration elevation, aspect, root disease, desired future stand conditions, and anticipated drier, hotter future conditions resulting from climate change. These strategies include site preparation, species, stock type and tree spacing tailored to each unit. Cedar is included as a species that may be planted on state forest in areas that are well suited to its growth.

<u>Herbicides:</u> Harvest sites by law must be replanted, and ODF strives to use the minimum amount of herbicides necessary to achieve reforestation success. After harvesting, vegetation that competes with newly planted trees rapidly re-colonizes harvest units. Herbicides are an effective tool to temporarily reduce competing vegetation which enables newly planted seedlings to establish and thrive, so there will be future forests for all Oregonians as well as the wildlife that depend on them. When using herbicides, it is done in accordance with the product label and all applicable rules and laws. Contractors hired to apply herbicides on ODF lands are closely monitored by ODF contract administrators (who are also licensed applicators). ODF uses ground-based applications where it is practical and does not unduly increase costs or present physical hazards to crews working on steep slopes. ODF encourages all concerned citizens to sign up in FERNS for notifications, as this is the easiest way to stay informed on upcoming operations.

#### **INSECT AND DISEASE COMMENTS**

Comment received related to insect and disease management:

Support harvesting in order to reduce insect infestations.

#### **Insect and Disease Response:**

Most insect, disease and abiotic forest threats are best handled through prevention via management for forest resilience. Healthy trees are well-defended and able to resist or tolerate these forest threats. Silvicultural methods will be used to enhance tree and stand resiliency to ensure forest health and sustainability. Silvicultural activities that may be utilized to address forest stressors include:

- Planting native species in locations most suitable for their growth, accounting for changing temperature and precipitation;
- Widening spacing to reduce competition for soil moisture and mitigate reduced or inconsistent precipitation;
- Increasing tree species diversity to inhibit the spread of host-specific insects and diseases;
- Avoiding planting host tree species in known root disease pockets;
- Utilizing preventive techniques during operations to prevent the spread of invasive weeds and diseases; and
- Removing marketable timber in a timely manner to avoid defect-causing agents such as wood boring beetles and fungi.

#### **WILDLIFE COMMENTS**

Themes on wildlife include:

- One commenter suggested that continuing threatened and endangered species surveys after the Incidental Take Permits are issued is unnecessary.
- Threatened and Endangered surveys should be ended once a Habitat Conservation Plan is adopted.
- Take avoidance strategies in the current Forest Management Plan should not continue after a Habitat Conservation Plan is adopted.

#### Wildlife Response:

Upcoming operations will be surveyed for Threatened and Endangered species until such time as Incidental Take Permits are issued and implemented by ODF. Forest managers will evaluate and determine the transition plan for the Threatened and Endangered survey program based on anticipated timing of the Incidental Take Permits issuance and contract commitments. The strategy surrounding surveys and take avoidance strategies is found in Appendix A – District Harvest Modeling Analysis and refers to modeling. The model is run in periods of 5 years so this language was acknowledging that take avoidance strategies would need to be applied for the first couple of years on the ground. This language in Appendix A will be adjusted for clarity.

#### STREAMS COMMENTS

54

Comments around stream health, protection and enhancement include:

 Encourage State Forests to protect drinking water coming from healthy watersheds.

- Consider fish habitat protection and enhancement along Gales Creek and its tributaries.
- Utilize one set of riparian/aquatic strategies at a time in these Implementation Plans.
- Encourage ODF to designate Tualatin tributaries such as Gales Creek as an Aquatic Anchor Watershed and Terrestrial Anchors.
- Thinning and other timber harvest operations should be avoided in Riparian Conservation Areas allowing more natural processes to run, devoid of human disturbance and providing habitats and buffers from landslide threats.

#### **Streams Response:**

Stream Buffers: Strategies within the Forest Management Plans and the Habitat Conservation Plan are designed to maintain or restore properly functioning aquatic systems. Streams will be protected by applying no harvest Riparian Conservation Areas from the draft Habitat Conservation Plan. The only exceptions to this is within the designated Aquatic Anchors where no harvest zones will be extended out to 50 feet when regeneration harvesting on small perennial, debris flow-prone, and high-energy non-fish streams as outlined in the State Forest Division Species of Concern Policy; or when a small, non-fish stream is designated as Type D or within process protection zones, then the buffers for those reaches detailed within Oregon Forest Practices Act may be applied.

Stream Enhancement: State Forests has been committed to implementing stream enhancement work on ODF-managed lands for more than two decades as a partner in the Oregon Plan for Salmon and Watersheds and in partnership with Oregon Department of Fish and Wildlife, local partners, and adjacent land managers. Stream enhancement, fish passage, and Riparian Conservation Area standards are designed to collectively improve processes and function of aquatic ecosystems over time, and ultimately benefit resident and anadromous aquatic-dependent species. Over the last 25 years, ODF has implemented many types of projects including over 200 in-stream projects across State Forests (an average of 8 projects per year) and provided over 7,618 trees (an average of over 300 trees per year) resulting in over 47 million dollars of in-kind contributions. Since 2009, ODF has done several stream enhancement projects in partnership with Oregon Department of Fish and Wildlife, Oregon Watershed Enhancement Board, the Tualatin River Watershed Council and adjacent land managers along Gales Creek and its tributaries where coho salmon were present. This includes placing 294 logs within the streams and installing 2 stream crossings that allow for the passage of fish. ODF will continue to look for additional stream enhancement opportunities with local partners in the future.

Aquatic Anchors and Terrestrial Anchor Sites: Aquatic Anchors are 6<sup>th</sup> field watersheds that were identified as important to aquatic species by the Aquatic and Riparian Specialist for ODF and Aquatic Specialists for Oregon Department of Fish and Wildlife. The watersheds selected support populations of salmonid and aquatic amphibian species of concern; contain high quality aquatic habitat for salmonids and/or aquatic amphibians; and contain an adequate proportion of state forest ownership to provide a reasonable likelihood that state forests management strategies will have a meaningful influence on watershed condition. Terrestrial Anchor Site locations were chosen collaboratively by

biologists from ODF and Oregon Department of Fish and Wildlife using data on the presence of species of concern, the habitat needs of those species while considering the current stand conditions and the likelihood of achieving complex stand structure in a timely manner. The Tualatin tributaries did not meet the criteria mentioned or were a lower priority for location for both the Aquatic Anchors and Terrestrial Anchor Sites at the time the designations were determined.

#### **CARBON/CLIMATE COMMENTS**

Climate change and the appropriate role of state forests continues to be a topic of concern. Comments received in this theme include:

- Encourage ODF to update draft Implementation Plan climate assessment under the physical elements to include information regarding the effects of climate change on forest lands.
- Several commenters noted that there is no mention of the approved Climate Change and Carbon Plan in the Draft Implementation Plan.
- Recommendation to include proposed actions to begin meeting the goals of the Climate Change and Carbon Plan to increase carbon storage and sequestration in the Tillamook State Forest.
- Consider applying a 21-inch tree harvest restriction to preserve the old growth and mature trees and to store and sequester carbon to help mitigate climate change.
- One commenter noted that thinning results in a substantial net loss of forest carbon storage, and a net increase in carbon emissions that can substantially exceed those of wildfire emissions.
- Recommendation to promote climate smart forestry practices (e.g., variable density thinning, afforestation, longer timber harvest rotations, limiting the diameter of harvested trees, etc.) all of which allow timber harvesting with minimal impacts on climate change.
- Recommend best way to store carbon long term is in living trees which sequester additional carbon as it grows.

#### **Carbon/Climate Response:**

Climate change and carbon and overall forest management strategies are being actively addressed as part of the new Western Oregon State Forests Management Plan and associated Implementation Plans as per the Oregon Department of Forestry Climate Change and Carbon Plan. The Western Oregon State Forests Management Plan and Implementation Plans will be completed in 2024 and 2025 respectively.

While the current Forest Management Plans and these Revised Implementation Plans don't address carbon or climate change directly, the implementation of these plans will result in a variety of forest stand conditions that maintain healthy, multi-species, vigorously growing forests, which will contribute to resilient healthy forests into the future. This is consistent with strategies within the Climate Change and Carbon Plan. Legacy structures retained within harvest areas will continue to store carbon while the new seedlings regenerating around these structures will accumulate carbon. Areas of the forest that have a desired future condition of Layered or Older Forest Structure, riparian areas, no

harvest wildlife areas, forested areas that are inoperable, etc. provide carbon storage throughout large portions of the landscape.

Forest health strategies are addressed on a site-specific basis when the reforestation plan is developed for planting and other young stand management treatments. Site specific prescriptions consider target species, aspect, elevation, soil types, Swiss needle cast risk where applicable, Phellinus weirii (laminated root rot) presence, required stocking guidelines, natural advanced regeneration, the desired future condition of the stand and anticipated drier, hotter future conditions resulting from climate change. This will provide for a diverse, healthy, productive, and sustainable forest ecosystem over time that will be more resilient to change.

<u>Old Growth:</u> The Northwest and Southwest State Forests Management Plan defines Old Growth as "Typical characteristics of old growth include: a moderate to high canopy closure; a patchy, multilayered, multispecies canopy with trees of several age classes, but dominated by large overstory trees with a high incidence of large living trees, some with broken tops and other indications of old and decaying wood; numerous large, standing dead trees (snags); heavy accumulations of down woody debris; and the presence of species and functional processes that are representative of the potential natural community. In western Oregon, old-growth characteristics begin to appear in unmanaged forests at 175-250 years of age."

Existing old growth trees are generally scattered individual trees or are occasionally small isolated patches. The Northwest and Southwest State Forests Management Plans specifically reserve these remnant trees from harvest.

#### **RECREATION COMMENTS**

Comments received around public engagement in recreation development include:

• Two commenters recommend engaging local residents in the development of a new trailhead, trails, and/or trail system at the far north end of the Tillamook State Forest near Highway 53 when considering development of new recreation areas.

#### **Recreation Response:**

The Oregon Department of Forestry is looking forward to engaging with local communities and trail use clubs and organizations during the development of recreation management plans and trail system plans for state forests in northwest Oregon. We will be reaching out to our partners and local communities as we begin to shape the process for development of these important plans. As stated in the draft Implementation Plan, the recreation management and trail system plans will define distribution of recreation and trail opportunities on state forest land. As we embark on this planning work in collaboration with our community partners, one of our goals will be to enhance trail system diversity, distribution, and connectivity and in the process create, where we can, recreation opportunities, particularly trail opportunities, close to home for many that live in the rural communities that surround state forests.

#### ROADS COMMENTS

Comments around public access and new road construction include:

- One commenter asked why a State Forest road is closed to public after a new bridge paid by public was put in after Prouty creek culvert washed out in 2017.
- One commenter stated they have seen roads gated off and road quality decrease due to funding shortfalls cutting off access to 500 acres in Benton County.
- Another commenter suggested that stream crossings should be avoided and ODF must minimize the use and impacts of culverts, which can be detrimental to fish migration and habitat.
- Comment that road building has expanded on State Forests in the past 10 years and recommended that road-building on steep slopes above salmon-bearing streams must be avoided or risk violating the Endangered Species Act.
- New road building should be prohibited within the Riparian Conservation Areas and Habitat Conservation Areas.

#### **Roads Response:**

State Forests are managed to support public access while providing for community safety, environmental benefits, protection of state and private assets, and wildfire prevention. Roads are evaluated for their public access benefits and costs during the annual operations planning process. Some roads are closed and vacated to reduce the maintenance costs and to minimize impacts to the environment. These areas remain open for walk-in use. The Department retains the option of gating roads if vandalism, neighbor concerns, or excessive road damage from public use becomes a problem in particular areas. The public may still access these areas on foot, bicycle or horseback.

In the case of the road closure for access to the Tillamook State Forest after a new bridge was installed on Prouty Creek, the road was temporarily closed until the bridge was replaced. This particular area of the Tillamook State Forest is accessed by traveling through privately owned lands. While the bridge was being replaced, the current private landowner decided to limit access through their property with a gate as is their right. ODF has access beyond the gate via an easement to allow for forest management and fire suppression. The easement does not allow for public access. The area behind the gate is still accessible to the public albeit through a different access point on the forest.

A well-maintained road system is necessary for a working forest and to provide the recreational access Oregonians increasingly demand. Road systems also provide access for fire response. All road construction, improvement, maintenance and vacating will follow best management practices in the State Forest Roads Manual and meet goals and objectives as outlined in the Habitat Conservation Plan. ODF evaluates each timber sale and strives to build the minimum number of roads required, except where ODF has identified road systems that can be moved away from existing streams to mitigate hydrological issues. This may result in more road miles, but relocating roads away from the stream network is beneficial for watershed processes. ODF tries to limit the number of stream crossings where possible when building new roads. Where stream crossings are unavoidable, new and replacement stream crossings will be designed to meet National Oceanic and Atmospheric Administration Fisheries (2022) passage criteria to maintain passage for covered fish species where applicable and follow best management practices

outlined in the State Forest Roads Manual. All planned road construction is reviewed by the Geotechnical specialist to ensure that new roads are located in stable locations to provide the best protection to natural resources while meeting the objective of the road. Discussions are held regarding the long-term use of the road by ODF Staff for reforestation and future management, and whether a road needs to be surfaced or if it can be left unsurfaced. Financial costs of the construction and long-term maintenance are considered as well as potential impact to sale operations, anticipated closures related to weather, and long-term impact to wildlife and recreation.

Roads in Riparian Conservation Areas/Habitat Conservation Areas: Minimal roads will be built within Habitat Conservation Areas as needed in conjunction with management activities to improve habitat. Roads will be located away from streams, wetlands, unstable areas, and sensitive resource sites. Road development within the Riparian Conservation Areas will only occur when other alternatives are not operationally/economically feasible.

#### **MODELING COMMENTS**

Concern around modeling outcomes used to inform the annual harvest objective include:

 One commenter recommended reviewing data used in harvest model based on concerns from some field staff.

#### **Modeling Response:**

District staff reviewed the modeling data and expressed concerns regarding the growth and yield outputs from the model. The modeled outcomes were then adjusted to address the District's concerns. The State Forest Division is currently working with a consultant from Mason, Bruce and Girard to see if the growth and yield data can be calibrated to more closely align with expected state forests outputs. This calibrated data will be used in future modeling efforts including the Western Oregon State Forests Management Plan implementing the Habitat Conservation Plan modeling to be presented to the Board of Forestry in September.

#### **OUT OF SCOPE COMMENTS**

Comments that were out of scope that related to the draft Habitat Conservation Plan, new Forest Management Plan, grants, legislation, and other topics:

- Several commenters support ODF's commitment to Habitat Conservation Plan
- Keep current Habitat Conservation Plan process on track and don't redesign.
- Opposed to the Habitat Conservation Plan and the negative effects to rural Oregonians.
- Suggest removing the thinning acre limits in Habitat Conservation Areas in the draft Habitat Conservation Plan.
- Several comments recommending revisiting State Forests Habitat Conservation Plan to ensure conservation, production, sustainability, and supports rural Oregonians.
- BOF should set the minimum board foot harvest per year to provide clarity.

- Recommends adopting Private Forest Accord and rejecting proposed Habitat Conservation Plan that protects more than necessary to meet Endangered Species Act requirements and all water quality and environmental goals.
- Board of Forestry should direct ODF staff to prepare a revised Habitat
   Conservation Plan to get increase harvests levels to the levels proposed at the
   beginning of this process.
- Proposed Habitat Conservation Plan arbitrarily sets aside large areas of timber into non-production.
- Recommend ODF quickly redesign Habitat Conservation Plan that will ensure sustained harvests that are in line with the current 10-year average harvest volume of 250 million board feet.
- *Habitat Conservation Plan* was developed without proven environmental models that guarantee endangered species would actually be protected.
- Disagrees with large forest set asides to protect non-existent northern spotted owl sites on Clatsop County State Forests. The two current Northern Spotted Owl circles in Clatsop County State Forests have been vacant for years and could be scheduled to close soon.
- Noted that changing the flow of harvest volume, updating growth and yield tables, or increasing thinning harvests in the Habitat Conservation Areas won't be enough, only way to increase harvest is to reduce acres in the Habitat Conservation Areas and eliminate management restrictions on those lands to be managed outside of the Habitat Conservation Areas.
- One commenter noted that the draft Habitat Conservation Plan was drafted behind closed doors and is a high-cost initiative.
- Another commenter noted that there are more cost-effective measures the state could take to support sensitive wildlife.
- Other commenters recommended additional model runs showing shorter & longer rotations, new Private Forest Accord rules and scenarios around current sustainable harvest levels to inform the Board of Forestry around tradeoffs.
- The current draft Habitat Conservation Plan sets aside more acres than needed when considering the cumulative impacts globally by requiring the imports to replace sustainably produced Oregon products.
- Concern not enough is being done to protect the logging industry.
- People's livelihoods should come before an endangered species.
- Another suggested that federal government could financially support Oregon to prevent clearcutting the temperate rainforest that is the most efficient, selfsustaining weapon against climate change like it does other countries.
- ODF timber contributes to the marketplace that generates stable revenue for the counties and helps maintain the mill infrastructure and jobs are a key piece of the economic stability in small communities.
- Noted that the reduction in harvest as a result of the Habitat Conservation Plan is unreasonable compared to the level it was claimed to achieve with the draft Habitat Conservation Plan and what the draft Environmental Impact Statement projected.
- I oppose Senate Bill 803. I oppose House Bill 3158. I oppose Senate Bill 85. I wholly support Senate Bill 498 and Senate Bill 795.

- Request for grant to help steward 10 acres of private forest in Southwest Oregon.
- Oregon can't afford to shut down our state forests.
- Manage forests by clearing underbrush and allow sufficient timber harvest to house citizens and support counties.
- Taxpayers need proper forest management, proper road maintenance, proper harvested forests that actually proved more wildlife.
- Support State Forests protecting endangered species.
- One commenter noted that saving spotted owls and other species seems noble but questioned what animals survive forest fires.
- One commenter noted that Barred Owls are currently out-competing Spotted Owls.
   Large set-asides will not make the Spotted Owls more competitive and thus are not effective.
- One commenter noted not seeing proof of significant endangered species improvement on federal forests due large timber set-asides since 1999 so unlikely to see different results on State Forests.
- One commenter noted that Oregonians have the responsibility to sustainably manage all forest lands to meet goals of the global environment and not transfer our environmental responsibility to countries with far less strict policies.
- Some wilderness is fine but not too much.
- Consideration must be given to using our temperate rainforests to combat climate change Recommends deeding or selling State Forests to private enterprise.
- Environmental groups should not have more say than people who live in the area.
- ODF lands should be managed for maximum timber production while providing recreational opportunities and fish and wildlife habitat as it is currently.
- The Habitat Conservation Plan requirement that a minimum of 40% estimated spotted owl dispersal habitat will be maintained outside of Habitat Conservation Areas should be removed from draft Habitat Conservation Plan.
- Federal agencies have not required ODF to set aside more than half of the productive land base to achieve the conservation goals it desires.
- Forest workers are not prepared for the proposed diesel ban.
- Growing of inventory while maintaining the harvest level will add more habitat to sensitive species over time improving the outlook for all objectives the Habitat Conservation Plan will be addressing.
- Harvested lands provide good food sources for wildlife.
- One commenter noted complex forests provide a variety of trees, shrubs, soil
  microorganisms, pollinators, birds, and wildlife and are important for carbon sinks,
  erosion control, moisture release, drinking water, and providing cold water for
  endangered fish and wildlife.
- Several commenters noted that limiting harvest would lead to increase of wildfires.
- One commenter recommended that proper wildland fire protection is needed.
- One commenter noted that large set asides of timberland on Federal Forests in Oregon, Washington, and California now burn more proportionally each year, causing larger and immediate carbon gas releases and cost billions of dollars to fight forest fires over the years.

- Recommendation that State and Private forests should be managed and utilized to include carbon sequestering forest products.
- One commenter noted that State Forests should serve as a carbon sink as that is one of the greatest permanent values.
- One commenter proposed revising the current agreement and unhook dependence on timber harvests to supply their funding for schools and other services.
- Supports managing State Forests for greatest value including minimizing wildfire and other catastrophic events.