# NORTH CASCADE DISTRICT 2025 ANNUAL OPERATIONS PLAN



# NORTH CASCADE DISTRICT

# FISCAL YEAR 2025 ANNUAL OPERATIONS PLAN OVERVIEW

This plan describes the activities and outcomes that Oregonians can expect to see on the Santiam State Forest for Fiscal Year 2025. The Santiam State Forest is an actively managed forest, valued by many Oregonians for its mixture of environmental, economic, and social benefits. This plan supports this mixture and provides a balance of these benefits as required by Oregon Administrative Rule (OAR 629-035-0020). We strive to manage the forest sustainably, so that the benefits from the forest can be delivered into perpetuity. The forest harvesting is planned at a sustainable level; a level that our computer models suggest can be harvested year after year without reduction.

Forest habitat is expected to develop so the forest has a mixture of habitat types for all of Oregon's native wildlife. Recreational opportunities are diverse and high quality, allowing for off-highway vehicles, bicycling, hiking, hunting, horseback riding, and more, striving to minimize user and environmental conflicts in the context of a working forest.

Managing a public forest has its challenges. In addition to the challenges of providing the opportunities described above, the forest is expected to be financially self-supporting. About two- thirds of the revenues from state forest timber sales go to local counties and other taxing districts, including schools. Oregon Department of Forestry (ODF) uses the remaining third of the revenue to manage the forests and keep them healthy, through activities including fire protection, tree planting, thinning, research and monitoring, recreation services, road maintenance and stream improvement. We are striving to continue to provide the current opportunities and are considering a few opportunities for change.

Every year in the Forest, we learn new things and find new challenges and opportunities. In preparing this plan, we have consulted with ODF's wildlife biologists, aquatic specialist, archaeologist, geotechnical engineer, road engineers, as well as fish and wildlife biologists from the Oregon Department of Fish and Wildlife. The plan will undergo a 45-day public comment period. The operations were shared with the nine federally recognized Tribes in Oregon.

This Annual Operations Plan will be reviewed by the State Forests Advisory Committee (composed of Oregonians representing many interests), a variety of interest groups, as well as Oregonians in general.

#### A short summary of activities planned for the coming year:

- Planting approximately 224,930 trees on 542 acres and conducting vegetation and animal management activities on an additional 2,262 acres to ensure the survival and growth of these and other newly established stands.
- Conducting density surveys for northern spotted owls covering the majority of the district and surveying for the presence of fish habitat if operations include unclassified streams.
- Protecting streams and water resources through a series of buffers and seasonal restrictions.
- Habitat development projects such as retaining green trees in clearcut areas and leaving down wood, all for wildlife benefits in harvest areas and future forests.
- Constructing approximately 1.4 miles of road, and improving, rocking, or maintaining approximately 58.1 miles of road to ensure ditch water is dispersed and filtered as much as possible, keeping runoff from entering streams.
- Reviewing District roads to develop plans to block or vacate roads to help manage trash dumping and target shooting.
- Proposing to harvest approximately 9.9 million board feet of timber volume, through clearcuts, and partial cuts generating revenue of an estimated \$4,318,263 million net value.
- Operating and maintaining developed facilities in a safe, clean, and responsible manner.
- Providing a safe and clean environment for the numerous dispersed activities which occur across the forest hunting, camping, angling, sight-seeing, target shooting, swimming, mushroom picking, etc.
- Maintaining, managing, and patrolling the 6 miles of motorized and 26 miles of non-motorized trail networks, striving to protect the trail investments, provide for user safety, address developing trail issues, and protect water quality.
- Providing a firewood cutting program as timber sales are completed.
- Supporting ongoing research on the district, in partnership with research cooperatives and universities.

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# INTRODUCTION

This annual operations plan outlines activities on state-owned forestland managed by the North Cascade District for Fiscal Year 2025, which begins July 1, 2024, and ends June 30, 2025. By law, ODF must manage state forests for economic, environmental, and social benefits. This plan outlines a balanced approach to meeting this mandate as well as the goals, strategies, and objectives of the NW Oregon Forest Management Plan, draft Habitat Conservation Plan, and the North Cascade District 2023 Implementation Plan.

The annual operations plan document is divided into five major categories: Integrated Forest Management, Planning and Information Systems, Public Information and Education, Administration and Appendices. Appendix F describes any modifications to the Forest Land Management Classification System. Appendix G describes any modifications to the North Cascade District's Landscape Design<sup>\*</sup>

A 45-day public comment period on these activities will be held from April 3, 2024, through May 17, 2024. The District Forester will review and consider all comments before approving this plan.

Unfortunately, some of the Santiam State Forest remains closed to the public due to resource protection and safety concerns caused by the devastating 2020 fires and some areas may not be re-opened in the next few years.

The North Cascade District has been working diligently to mitigate safety risks and restore forest resources, which has allowed for seven large geographic areas of the forest to be reopened to the public.

- Stout Creek: Limited public access to non-motorized use only
- South Block: Full public access
- Sevenmile Road: Full public access
- Niagara Road: Full public access
- Packsaddle Road: Full public access
- Crooked Finger: Full public access
- Elkhorn/Evans Mountain: Full public access Vehicle access along North Fork Road, Pioneer Road and Gates Hill Road is managed by Marion County Public Works

As part of our commitment to transparency, we invite you to take a look at our public website, <u>Restoring the Santiam State Forest</u> which has maps of all current closures and open areas as well as specific road systems where access can be obtained and general guidelines for these areas. The website also has an interactive web map that includes the fire perimeter and the pre-fire and post-fire aerial imagery.

Accomplishments of forest management activities that occurred under previous annual operations plans can be found in several reports, including the *State Forester's Annual Report for the Association of Oregon Counties* and the *Common School Forest Lands Annual Report*. These reports are available through the local district office or online.\*\*

<sup>\*</sup>Minor/major modifications and the procedures for making these changes are described in West Oregon District IP. \*\*The State Forests' individual district annual reports are available on the Oregon Dept. of Forestry website under "Reports." You can access here: <u>http://www.oregon.gov/ODF/Pages/Reports.aspx</u>

# INTEGRATED FOREST MANAGEMENT OPERATIONS

# **Timber Harvest Operations**

#### **Overview of Timber Harvest Operations**

All of the primary harvest operations will be reviewed by ODF's wildlife biologists, aquatic specialist, archaeologist, geotechnical engineer, road engineer, and planning manager, as well as fish and wildlife biologists from the Oregon Department of Fish and Wildlife. All of the operations will be reviewed against the State Historic Preservation Office and General Land Office databases for potential impact to cultural resources. Occasionally, operations may contain a resource or activity where review with another state agency, such as the Department of Agriculture is warranted. Written comments from the external resource specialists and the resolution of those comments can be found in Appendix C.

The Fiscal Year 2025 Annual Operations Plan is estimated to produce 9.9 million board feet in timber volume, generate gross revenues of approximately \$5,242,750 and net revenues of \$4,318,263. The volume objective is within the 9 – 10 million board feet range outlined in the North Cascade District's 2023 Implementation Plan. However, some events may result in an annual operations plan volume that is outside the annual harvest objective range. These events may consist of, but are not limited to, storm damage, insect and/or disease outbreaks, timber market conditions or other significant events. Alternate timber sales included in the annual operations plan may be sold as primary operations in response to any of these circumstances. In the instance where volume targets were achieved in the previous fiscal year prior to all of the primary sales being sold one or more of those sales may move into this fiscal year. These sales would contribute to the annual volume objective.

Additional operations may produce timber volume for the district during Fiscal Year 2025 but are not included in this annual operations plan. These are generally small areas, produce little volume, and/or are time sensitive in nature. These sales do not require significant effort to develop and execute and will comply with all policies, the district Implementation Plan, and the Forest Management Plan. Examples of these sales include salvage, pulp sales, removal of hazard trees, pole sales, etc.

Refer to the attached North Cascade District Financial Summary Table (Appendix A, Table A-1) and vicinity map (Appendix B) for more detail on expected outputs from planned timber sales.

Table 1. Accomplishment of Annual Operations Plan Harvest Volume Compared to
Implementation Plan Annual Objective (Million Board Feet of Timber Volume)

Harvest Objectives	Fiscal Ye Implement Harvest	ation Plan Ranges	2025 Annual Operations
	Low	High	Plan
Volume (Million Board Feet of			
Timber Volume)	9	10	9.9

#### **Overview of Structural Components**

The guidelines for managing structural habitat components listed under Landscape Management Strategy 3 in the NW Oregon State Forests Management Plan (pg. 4-52), will be followed for the Fiscal Year 2025 Annual Operations Plan. Structural components may be retained at higher levels in some units and at lower levels in other units. The intent is to achieve the targets outlined in the Forest Management Plan strategies in a given annual operations plan.

The green tree retention target for regeneration harvest units is an average of five trees per acre in the NW Oregon State Forests Management Plan. Green tree arrangements for this annual operations plan may 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 sale is being laid out to incorporate information on potential minor tree species, unique stand features, steep slopes, visual considerations, reforestation considerations, etc. To promote diversity on the landscape a variety of green tree placement strategies will be used.

The NW Oregon State Forests Management Plan strategy for hard snags is to manage for at least two per acre on average across the landscape. The Forest Management Plan strategy for Down Woody Debris is to retain an average of 600 to 900 cubic feet of hard conifer logs (class 1 & 2) per acre during regeneration harvest. Strategies for retaining snags and down wood are determined using a current condition assessment from forest inventory data or timber cruising data. The need for snag creation in each unit is evaluated based on cruise or inventory information that documents snags in decay class 1 and 2 in the sale and surrounding landscape. Areas with less than 2 hard snags per acre will be evaluated and an appropriate snag prescription will be developed as needed. Down Wood will continue to be created through bucking practices, leaving felled snags in the unit and tops on ground yarding areas.

The wind events of December 2006, November 2007 and December 2007 made significant contributions to snag and down woody debris levels despite the salvage of some large concentrations. The residual decadence in turn led to scattered bark beetle outbreaks resulting in additional tree mortality during 2009-2011. The majority of beetle caused mortality is located within the Mad Creek and Rock Creek Basins. Based on these observations (and evaluation of upcoming timber sale areas), snag creation may only be considered on planned sales outside of those basins. In September 2020, a series of catastrophic wildfires impacted approximately half of the Santiam State Forest causing extensive damage to the forest and producing many residual snags and down woody debris components across the landscape where older stands are present. Due to this now extensive legacy snag and down wood component, snag creation will generally not be pursued within basins that were affected by the 2020 fires. If snags are found in an area during sale layout, efforts are made to leave them on the landscape where safety permits.

In addition to the leave tree strategies within the Forest Management Plan, all timber sales within Fiscal Year 2025 will also abide by the green tree retention strategies of the Draft Habitat Conservation Plan. Two trees per acre will be retained within any forest stand harvested using regeneration harvest techniques. Trees selected for retention will be outside of Riparian Conservation Areas and will be assessed during each final harvest so that selected trees will not be removed in subsequent rotations and will contribute to long-term recruitment of large diameter snags and downed wood. Overlaps may occur with the green tree retention strategies of the Forest Management Plan. Leave tree configuration will be determined during

sale layout to ensure compliance with Forest Management Plan and Habitat Conservation Plan strategies.

#### Climate Change and Carbon Storage

Climate change and carbon sequestration are generally topics related to higher-level strategies in the Forest Management Plans or Implementation Plans. While the current Forest Management Plans and Implementation Plans don't address carbon or climate change directly, the main strategies of the Climate Change and Carbon Plan are being implemented during this transition period with the implementation of the draft HCP strategies combined with the current Forest Management Plan requirements and 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.

Under these current plans, large portions of the landscape provide carbon storage and will continue to do so long into the future. These include areas that have a desired future condition of Layered or Older Forest Structure, draft Habitat Conservation Areas, Riparian Conservation Areas, no harvest wildlife areas, and forested areas that are inoperable, etc. In addition, existing old growth trees are also protected and are generally scattered individual trees or occasional small, isolated patches. Legacy structures retained (green trees, snags, down wood) within harvest areas will continue to store carbon while the seedlings regenerating around these structures will accumulate carbon. Carbon is also stored in harvested wood products removed during the Annual Operation Plan implementation, as trees are converted to lumber for houses or other various paper products a percentage of this carbon is stored until it decays or is replaced. Forest health strategies are addressed on a site-specific basis for areas impacted by insects and diseases such as Swiss needle cast and when reforestation plans are 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, and the desired future condition of the stand. This will provide for a diverse, healthy, productive, and sustainable forest ecosystem over time that will be more resilient to change.

#### Harvest Operations within Habitat Conservation Areas

Habitat Conservation Areas are one of the draft Habitat Conservation Plan strategies that is being implemented with this AOP. HCAs were designed to conserve the highest quality existing covered species habitat and nearly all known occupied parts of the permit area; however, there are many areas of lower quality habitat in HCAs, given the size of HCAs and the disturbance and management history of the permit area. The overarching management objective for HCAs is to increase the quality and quantity of habitat for terrestrial covered species. Stands that provide lower quality habitat or no habitat will be managed more frequently, in order to increase the quality of habitat. Over time HCAs will become better habitat for terrestrial species as more acres of lower quality habitat grow into higher quality habitat.

The majority of stand management that will occur in HCAs will be in locations that currently provide limited habitat value for covered species. Managing stands in HCAs that are lacking habitat characteristics for covered species will help promote development of them as the forest grows. These important characteristics include large trees and snags, multistoried and multispecies canopies, and large woody material. The primary purpose of these management actions is to selectively and strategically improve and accelerate development of such habitat

characteristics for terrestrial covered species that rely on late-seral forests. Management within the HCAs will primarily fall into one of four categories:

- Healthy Conifer: Typically management will include a variety of density management prescriptions in young healthy conifer forests to ensure that late-seral structure develops more quickly. Many of these stands have a high original planting density intended for timber production, and will persist as simple, closed canopy stands without a reduction in density and overall uniformity. To improve covered species habitat, these stands will receive thinning and patch cuts that will increase growth of dominant trees and allow for the initiation (or re-initiation) of understory tree and shrub species that will increase both vertical and horizontal heterogeneity, as well as species diversity, within the stand.
- Swiss Needle Cast: Another focus of management within HCAs will be to reset stands that are stunted, due to Swiss needle cast, and will likely not become high quality habitat for covered species over the course of the permit term. By harvesting these stands early in the permit term, including regeneration harvests that remove significant portions of stands, ODF will be able to replant the stands with a species mix that will grow into more suitable habitat during the permit term. Swiss needle cast regeneration prescriptions will include the retention of other conifer and hardwood species that are unaffected by the disease.
- Conifer Restoration in Hardwood-dominant Stands: Hardwood-dominant stands include those that have >50% hardwood species. Hardwood species have value for covered species and other wildlife; however, large expanses of red alder dominant stands with little conifer component are unlikely to develop into suitable or highly suitable habitat for marbled murrelets or red tree voles and are unlikely to support nesting northern spotted owls over the permit term. Therefore, there will be a focus on managing a portion of hardwood-dominant stands (primarily red alder) in the first 30 years of the permit term in order to reforest those stands with conifer species that will grow into higher quality habitat for covered species over time. In addition to the reforested conifer component, existing conifers will be retained where operationally feasible, and some hardwoods will also be retained in these stands during harvest.
- Young Stand Management: Plantings will occur at lower densities and incorporate greater proportions of minor species (western red cedar, Sitka spruce, western white pine, hemlock, true firs). Natural regeneration will be allowed to occur in some small patch cuts, and root-rot tolerant species will be planted where patch cuts are used to address infestations. If needed, alternative management plans will be filed where restocking conditions fail to meet FPA standards. Intensity of manual release operations will be reduced to allow for some hardwood retention and development. These treatments are intended to promote complex early seral stand conditions that have greater potential to develop into high quality habitat for the covered terrestrial species than more intensive production-oriented treatments and prescriptions.

#### Table 2. Summary of Primary Timber Harvest Operations. All values are in net acres.

2025 Annual Operatior	is Plan
Harvest Outside of Habitat Conservation Areas	Harvest Inside of Habitat Conservation Area

	Partial Cut Acres	Clearcut Acres	Partial Cut Acres	Clearcut Acres
Primary	84	230	0	0
Alternates	206	222	0	0

#### Harvest Outside of Habitat Conservation Areas

The 230 acres of regeneration harvest planned for Fiscal Year 2025 represents less than one percent of the district. All of the regeneration harvest acres will be designed as clearcuts.

The 84 acres of partial cut harvest planned for Fiscal Year 2025 represents less than one percent of the district. The partial cut sale is a first entry thinning and the intent is to thin this area to promote growth.

#### Harvest Inside of HCAs

There are no planned harvest units within the Habitat Conservation Areas for Fiscal Year 2025.

Refer to the attached North Cascade District Financial Summary Table (Appendix A, Table A-1) and vicinity map (Appendix B) for more detail on expected outputs from planned timber sales.

#### Harvest Operations within Terrestrial Anchor Sites and Aquatic Anchors

Supplemental Species of Concern Strategies provide for fish and wildlife species of concern. Two of these strategies are Terrestrial Anchor Sites and Aquatic Anchor sites.

#### Terrestrial Anchor Sites

Terrestrial Anchor Sites areas are intended 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 Terrestrial Anchor Sites is intended to be limited, to emulate natural small-scale disturbance patterns, and to minimize short- term negative impacts to habitat. All areas that were designated as Terrestrial Anchor Sites were designated for the development of complex structure in the Landscape Design. Since the adoption of the Terrestrial Anchor Sites in July 2011, the district has been proceeding with operations in these areas. Great care has been given in selecting stands for harvest and developing prescriptions in these areas to ensure that these harvest activities achieve the goals of the Terrestrial Anchor Sites. These sales were reviewed with ODF and Oregon Department of Fish and Wildlife Resource Specialists. The entire Rhody Lake Terrestrial Anchor Site was within the 2020 fire perimeter. Approximately 83% of that Terrestrial Anchor Site was burned with the majority in a moderate or high burn severity. As part of one of the post-fire restoration timber sales in FY22, the road systems within the Terrestrial Anchor Site were treated with a partial cut prescription along rights of way focusing on mitigating fire compromised hazard trees to promote public safety when travelling these roads. ODF in partnership with American Forest were able to underplant 650 acres of high severity burn within the Terrestrial Anchor Site in FY23. A mix of Douglas-fir and noble fir were planted totaling 216,000 seedlings. American Forest paid for the planting contractor and the seedlings that were planted. Table 3 shows there are no harvests planned within the Terrestrial Anchor Sites in the 2025 Annual Operations Plan. Table 3 also shows the cumulative operations in Terrestrial Anchor Sites since the strategy was adopted (Annual operations plans 2012 through 2025).

 Table 3. Summary of Harvest Operations within Terrestrial Anchor Sites (Acres and Percent)

Acres within Terrestrial Anchor Sites	Current Annual Operations Plan (Fiscal Year 2025)		Cumulative Harvest (Since Fiscal Year 2012)	
	Clearcut	Partial Cut	Clearcut	Partial Cut
Rhody Lake Terrestrial Anchor Site (1,376 ac)	0	0	0	269
% of Acres	0%	0%	0%	19.5%

#### Aquatic Anchors

Aquatic Anchor Sites are geographically identified watersheds where salmon and aquatic conservation is of particular concern. In these areas, additional riparian management strategies are implemented when conducting harvest operations. These strategies do not preclude or limit harvest or road building activities, but rather supplement existing riparian buffer protections to further bolster the conservation goals in these areas. Streams will be protected by applying no harvest Riparian Conservation Areas from the draft Habitat Conservation Plan as well as extended out to 50 feet when regeneration harvesting in Aquatic Anchors near small perennial, debris flow-prone, and high-energy non-fish streams. In addition, areas designated for the development of complex structure in the Landscape Design are clustered around streams important to fish in the Aquatic Anchors.

The AAs became effective July 1, 2011. Table 4 shows the current harvest and the cumulative total from Fiscal year 2012.

Acreages	Current Annual Operations Plan (Fiscal Year 2025)		Cumulative Harvest (since Fiscal Year 2012)	
	Clearcut	Partial Cut	Clearcut	Partial Cut
Rock Creek (12,263 acres)	0	0	271	1,290
% of Acres	0%	0%	2.2%	10.5%
Sardine Creek (3,514 acres)	0	0	0	0
% of Acres	0%	0%	%	0%
All Aquatic Anchors (15,777 acres)	0	0	271	1,290
% of Acres	0%	0%	1.7%	8.2%

Table 4. Summary of Harvest Operations within Aquatic Anchors (acres and percent)

#### Summary of Timber Harvest Operations by Basin

In the following section, the harvest operations planned for Fiscal Year 2025 will be summarized in the context of the seven management basins on the North Cascade District. Road strategies and standards are discussed in the Forest Roads Management section. Additional information regarding the harvest operations may be found within Table A-2, the Forest Resources Summary in Appendix A.

Basin	2025 Annual C	2025 Annual Operations Plan		
Dasin	Partial Cut	Clearcut		
Butte Creek	0	79		
Cedar Creek	84	2		
Crabtree	0	67		
Green	0	0		
Mad Creek	0	82		
Rock Creek	0	0		
Scattered	0	0		
Totals	84	230		

Table 5. Summary of Timber Harvest Operations in each basin. All values are in net acres.

#### Butte Creek Basin

<u>Butte 600 (Primary Sale)</u>: This is a clearcut totaling 79 acres. The harvest will take place in 89year-old Douglas-fir and red alder. The stands within this timber sale were previously thinned in 2011. The current stand condition is Understory Development, and the Desired Future Condition is for non-complex. Following completion of harvest, the sale will be planted with species native to the geographic area.

Approximately 0.39 miles of road will be constructed to facilitate harvest and 2.1 miles of road will be improved, rocked, or maintained.

#### Cedar Creek Basin

<u>Elk Prairie Thin (Primary Sale):</u> This is an 84-acre partial cut and 2 acres of new road construction right-of-way. 75 acres of the harvest will take place in 42-year-old Douglas-fir and red alder with 9 acres in 105-year-old red alder and Douglas-fir. The 42-year-old cohort is the target of this timber sale. The larger 105-year-old trees will be retained or posted out of the timber sale. No previous management records exist for this sale. The current stand condition is Understory Development. The Desired Future Condition is non-complex on 75 acres and complex on 9 acres.

Approximately 0.4 miles of road will be constructed to facilitate harvest and 0.2 miles of road will be improved, rocked, or maintained.

Mashed Potatoes (Alternate sale): This is a 133-acre clearcut of 84 to 94-year-old Douglas-fir. The stands within Unit 1 and portions of Unit 3 were thinned in 2007. The stand within Unit 2 and portions of Unit 3 were thinned in 2004. The current stand condition is Understory Development (34 acres), Layered (8 acres) and Closed Single Canopy (89 acres), and the NORTH CASCADE DISTRICT FISCAL YEAR 2025 ANNUAL OPERATIONS PLAN 14 DRAFT - APRIL 2024

Desired Future Condition is for non-complex stands. Following the completion of harvest, the sale will be planted with a mixture of species native to the geographic area.

Approximately 0.6 miles of road will be constructed to facilitate the harvest.

#### Crabtree Basin

<u>Last West (Primary Sale)</u>: This is a 67-acre clearcut of 88-year-old Douglas-fir. The stands within this timber sale were previously thinned in 1997. The current stand condition is Understory Development, and the Desired Future Condition is non-complex. Following the completion of harvest, the sale will be planted with a mixture of species native to the geographic area.

Approximately 0.06 miles of road will be constructed to facilitate the harvest.

#### Green Basin

No sales are planned for this basin.

#### Mad Creek Basin

<u>Kaupper Top (Primary sale)</u>: This is an 82-acre clearcut of a 100-year-old Douglas-fir and western hemlock stand. The stands within this timber sale were previously thinned in 2006. The current stand condition is Understory Development. The Desired Future Condition is for a non-complex stand. Following the completion of harvest, the unit will be planted with a mixture of species native to the geographic area.

Approximately 0.4 miles of road will be constructed to facilitate the harvest and approximately 0.8 miles of road is planned to be improved, rocked, or maintained.

The sale may be visible from Highway 22. This will be taken into consideration while developing a green tree retention strategy for the sale.

<u>Pluto (Alternate sale)</u>: This is an 86-acre clearcut of 90-year-old Douglas-fir and western hemlock. The stands within this timber sale were thinned in 2001. The current stand condition is Understory Development, and the Desired Future Condition is for non-complex stands. Following the completion of harvest, the sale will be planted with a mixture of species native to the geographic area.

Approximately 0.3 miles of road will be constructed to facilitate the harvest and 1.8 miles of road will be improved, improved, rocked, or maintained.

The sale may be visible from Highway 22. This will be taken into consideration while developing a green tree retention strategy for the sale.

#### Rock Creek Basin

<u>1000 Line Jim Thin (Alternate sale)</u>: This is a 206-acre partial cut and 3 acres of new road construction right-of-way. The harvest will take place in 38 to 60-year-old Douglas-fir, red alder, noble fir, and western hemlock. No management records exist for this sale. The

current stand condition Understory Development (93 acres) and Closed Single Canopy (47 acres), and the Desired Future Condition is for non-complex stands.

Approximately 0.5 miles of road will be constructed to facilitate the harvest and 2 miles of road will be improved, rocked, or maintained.

#### Scattered Basin

No sales are planned for this basin.

# Forest Roads Management

#### Overview

The State Forest road network provides access for forest management activities, fire suppression, and recreation. Visions, guiding principles, and goals for managing the road network are discussed in the Northwest Oregon State Forests Management Plan (April 2010) and the State Forest Roads Manual (September 2006). The State Forest Roads Manual also provides standards and guidance for all road management activities and definitions, road classifications and other terms.

#### **Road Construction**

The district evaluates each timber sale and strives to build the minimum number of roads required, except where the district 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. The district 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 district 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 longterm impact to wildlife and recreation.

Minimal roads will be built within Habitat Conservation Areas and Riparian Conservation Area. The intent is to be very deliberate when building roads in these locations and ensure that other options were reviewed and that the planned road location is required and that other alternatives were not operationally or economically feasible.

#### **Road Improvement**

Road improvement projects will use ODF road inventory protocols to assess existing road drainage, stability, and vegetation conditions, and to aid in the development of transportation system improvement plans. Road Improvement activities will follow the guidance of the State Forest Roads Manual, State Forest Stewardship Agreement, and Chapter 4 of the Draft Habitat Conservation Plan. Road improvement is generally accomplished through timber sale or Work

order contracts. The majority of this improvement work will be performed on collector and spur roads and will consist of installing or replacing existing culverts and bridges, ditchline or cutbank improvements, or sidecast pull back and stabilization efforts.

#### **Road Maintenance**

Roads will be maintained as necessary to minimize the impact on natural resources, protect water quality and protect the investment made to the road infrastructure. Road maintenance activities will follow the guidance of the State Forest Roads Manual, State Forest Stewardship Agreement, and Chapter 4 of the Draft Habitat Conservation Plan. Road maintenance can be accomplished through timber sale contracts, Work order contracts, or the State forests road crew. Emergency maintenance can also be accomplished by directly hiring contractors within a certain threshold. Maintenance is focused on ensuring proper drainage to prevent sediment from entering streams. Collector roads, and roads in active sale areas, need and get the most maintenance. Surface rock replacement is used during maintenance and is defined as adding additional surface rock to an already surfaced road to replace the rock worn down from road use.

#### Work Order Contracts

Road maintenance and improvement projects not associated with a timber sale will be primarily facilitated through Work Order Contracts. This process uses the same protocols and guidance outlined in the road improvement and maintenance sections but allows the department to be efficient in accomplishing this work and prepare for future projects. The work associated with these contracts can include bridge design, fish culvert installation, road brushing, road maintenance and repair, or repairing/replacing gates.

Other Planned Road Projects to be completed by Work Order Contract in the Fiscal Year 2025 Annual Operations Plan:

- North Block Brushing
- South Block Crushing
- Bridge Creek Pit Crushing
- Hammond 400 Rd Realignment
- Sardine Creek Road Repair (carryover from approved FY23 AOP)
  - Delay in implementation due to coordination with utility companies planning processes for post-fire restoration work.

#### **Road Access Management**

State Forests are managed to support public access while providing for community safety, environmental benefits, protection of state and private assets, and wildfire prevention. Following timber harvest, roads are evaluated for their public access benefits and costs. 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.

Currently some of the Santiam State Forest is closed to the public due to resource protection and safety concerns caused by the devastating 2020 fires. Re-opening will occur in phases as it is safe to do so and ODF can protect forest resources. The district will continue re-opening of areas within the forest as it becomes safe to do so.

Seven large geographic areas of the forest have been reopened to the public.

- Stout Creek: Limited public access to non-motorized use only
- South Block: Full public access
- Sevenmile Road: Full public access
- Niagara Road: Full public access
- Packsaddle Road: Full public access
- Crooked Finger: Full public access
- Elkhorn/Evans Mountain: Full public access Vehicle access along North Fork Road, Pioneer Road and Gates Hill Road is managed by Marion County Public Works

Maps of all current closures and open areas as well as specific road systems where access can be obtained and general guidelines for these areas are available at this website: <u>Restoring</u> the Santiam State Forest

#### Hydrologic Connectivity

Hydrological connectivity surveys are performed on haul routes during sale layout. The intent of these surveys is to determine what portions of the road and ditchlines are directly connected to streams and determine if there are ways to minimize or mitigate the connection distances. ODF prioritizes road improvement projects that address 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 improvement and maintenance investments are made to support forest operations, protect existing road infrastructure and water quality, and provide for safety improvements. ODF also closely monitors road conditions on active haul routes and performs additional patrols and assessments during and after inclement weather events. The District will continue conducting hydrologic connectivity surveys and mitigating items discovered during the process.

#### Management of Rock Source/Supply

The District provides durable rock for in-sale spurs and haul routes, which allows for yearround harvest and recreation opportunities as well as safe public travel and fire protection access. Rock quarry development, rock crushing, and/or purchasing rock is necessary to provide sufficient quantities of the road rock for planned road construction, road improvement, and road maintenance activities.

The District will continue to explore new rock sources in Fiscal Year 2025. Quarry developments are planned for the following projects; however, these plans are subject to change as project work is laid out:

- Hammond 400 Rd Realignment Work Order Contract
- South Block Crushing (Tom Rock Pit, 1100 Pit) Work Order Contract

• Bridge Creek Pit Crushing (Bridge Creek Pit) – Work Order Contract

#### Land Surveying

The 2020 labor day fires destroyed property line markers in many areas. These need to be resurveyed or refreshed prior to harvest. Survey work may be accomplished by utilizing the licensed surveyor on staff with ODF or may be done utilizing a contracted licensed surveyor. Land surveying may be necessary on the following sales:

- Elk Prairie Thin (Primary sale) 1.0 mile
- Kaupper Top (Primary sale) 0.25 mile
- 1000 Line Jim Thin (Alternate sale) 0.5 mile
- Mashed Potatoes (Alternate sale) 1.0 mile

# Young Stand Management

The State Forest strategy is to use a range of silvicultural tools to establish and maintain diverse stands of well-adapted natural species throughout the landscape to meet the objectives and goals in the Forest Management Plan and District Implementation Plan. These tools include site preparation, planting, tree protection, vegetation management, pre-commercial thinning, early commercial thinning and interplanting or replanting. Each practice must be considered and prescribed for individual stands on a site-specific basis.

This section describes the types of reforestation and young stand management activities that will occur in Fiscal Year 2025, and the attached Young Stand Management Table (Appendix A, Table A-4) describes the anticipated total amounts. The location and amount (acres) of these activities are estimates based on plans, information, and conditions as known at this point in time. The type, amount and specific stand management prescriptions will be further adjusted based on when existing harvest units are completed and on updated assessments and surveys that will occur during and after the 2024 growing season.

Reforestation activities will be completed by using experienced contractors. A portion of the activities may be completed by utilizing work crews from the Oregon Santiam Correctional Facility. These crews work on activities such as tree protection, mechanical hand release, planting, and noxious weed control.

#### Seedlings / Nurseries

To meet the goals of the Forest Management Plan, the State Forests Program requires tree seedlings that are physiologically healthy and best suited for the planting sites. A wide variety of seedlings are grown at forest nurseries throughout the Pacific Northwest to meet the reforestation needs. Seedlings are grown in three different stock types: 1) plug seedlings or one-year-old container grown seedlings, 2) plug ones which are grown one year in a container followed by a second year in a bare root bed, and 3) straight bare root seedlings grown from seed in a bare root bed and then transplanted to a lower stocking bare root bed. The budget accounts for a string of growing costs over several years rather than just those costs of the trees being grown and planted in the winter. The budget for seedlings includes portions of the costs for growing seedlings for three planting years. Additionally, there are costs associated with the seed that is used for growing the

seedlings, estimated transportation costs and various costs associated with packaging and freezer and/or cooler storage. The individual species mixture and stock type used for a particular reforestation unit is determined after the final inventory from the forest nursery and varies by District.

#### Site Preparation

Site preparation is any planned measure to prepare a site to allow for favorable growing conditions for newly planted seedlings. More than one of these techniques may be used for any given site based on the attributes and reforestation prescription for the site. The three main site preparation techniques are mechanical, chemical and slash burning.

- 1) <u>Slash Burning</u>: Slash burning will be accomplished by burning piles of slash that result from the harvest.
- 2) <u>Mechanical</u>: Mechanical site preparation is the use of mechanized equipment to rearrange or alter forest slash and/or disturb the forest surface layer and vegetation to create seedbeds or planting spots. Planting spots are created in a fairly even distribution. Dense slash concentrations created during timber harvest may be mechanically piled as part of the timber sale contract.
- 3) <u>Chemical</u>: Chemical site preparation involves the application of herbicides to control competing vegetation before planting or natural regeneration and during the early stages of seedling establishment. Applications occur by two primary methods: aerially by helicopter or ground based with the use of backpack application equipment. The objective is to control brush species to allow stand establishment and maintain 2-3 years free of significant competing vegetation. The actual site preparation plan will be prepared in late spring when harvest unit availability and brush development is better known.

#### Planting

Tree planting operations are conducted for various reasons. These include meeting Forest Practices Laws, quickly establishing a new stand of trees after timber harvesting and increasing species diversity in the area and across the landscape. Planting is comprised of matching the appropriate species and stock type to the planting site. Forest health strategies are addressed on a site-specific basis when the planting plan is developed. Site specific prescriptions will incorporate a site-appropriate species mix factoring in seed zone, location, elevation, aspect, presence of root disease, the Desired Future Condition of the site, and hotter, drier conditions as a result of climate change where possible. To accomplish this, a mixture of species and planting densities are utilized to provide for a healthy, productive, and sustainable forest ecosystem over time that is more resilient to climate change. The following are different types of planting.

- Initial Planting (Regeneration harvest units): Planting activities establish the desired species and stocking levels to meet the goals in the Forest Management Plan and Forest Practices Laws. Planted seedlings will be well suited and adapted to the reforestation site and where appropriate, a mixture of species may be planted to increase diversity on the landscape.
- 2) <u>Interplanting</u>: Interplanting may occur when stocking levels fall below or are at risk of falling below Forest Practices Act minimums. In certain instances, interplanting will

NORTH CASCADE DISTRICT FISCAL YEAR 2025 ANNUAL OPERATIONS PLAN DRAFT - APRIL 2024 occur to increase stocking on high quality sites to fully capture the site. In other areas, lower stocking will be acceptable, as it will provide high quality early seral habitat while still meeting Forest Practices Act requirements.

- <u>Underplanting</u>: This type of planting is occasionally conducted after thinning in order to introduce both species diversity and an additional future layer of structure into a stand.
- 4) <u>Natural Regeneration</u>: This approach will be utilized to accomplish reforestation goals in areas that have difficult access or safety concerns for planting due to remaining hazard trees and have enough surviving green trees in the overstory to provide seed. This approach will help promote a natural succession pathway that includes a delayed response to conifer regeneration and allow for perennial shrubs and hardwoods to colonize these areas.

#### **Tree Protection**

Animal damage on newly planted seedlings reduces their overall size, health, and vigor. Extensive damage can lead to interplanting, may extend the time to achieve free to grow status as defined by the Forest Practices Act and prevent meeting Forest Management Plan goals. Deer and elk, as well as mountain beaver, can heavily damage young seedlings. Various tree protection strategies are applied to help re-establish trees in areas with high concentrations of these species. Most commonly, various types of physical barriers (bud caps, vexar tubes, etc.) help prevent damage from big game. Direct control includes trapping mountain beaver in highly populated areas prior to planting to help prevent damage to newly planted trees.

#### Vegetation Management – Release Treatments

Vegetation management is done to reduce light, moisture, or nutrient competition from undesirable vegetation in a young stand of trees to improve survival and growth. It can also be used to alter tree species composition under pressure from insect and disease and favor species that are tolerant or resistant to the threat. Vegetation management may be required to meet forest practices reforestation stocking requirements, the NW Oregon State Forests Management Plan and the District Implementation Plans. There are two types of vegetation management, chemical and manual release treatments. They are described below.

<u>Chemical Release</u>: Chemical release treatments involve the application of herbicides to control undesirable vegetation. Typical application methods are broadcast, directed spray, and hack and squirt. Broadcast application treatments are sprayed over the top of seedlings and undesirable vegetation using either aerial or backpack methods. Directed spray applications are made with a backpack and target individual plants. This method is often used to remove invasive species such as Scotch broom from young stands. Hack and squirt involves basal or stem injection of chemicals. This method is typically applied to hardwoods to release conifers from hardwood competition.

<u>Manual Release</u>: Manual release can include cutting down of noxious weeds or hardwoods. Hardwood release is used when ingrowth of hardwoods, mainly red alder in the northwest and madrone and tanoak in the southwest, threaten to change the stand from conifer dominate to hardwood dominate. In this treatment, hardwoods are removed using chainsaws leaving all of the conifer trees. This differs from Pre-Commercial Thinning (described below) in the fact that conifer spacing and species are not

manipulated. While hardwoods are important on the landscape, long-term conifer production is the goal for many stands across the district.

#### **Pre-Commercial Thinning**

Pre-commercial thinning is a silviculture activity used to manipulate the density, structure or species composition of overstocked young forest stands. Generally, the purpose of a pre-commercial thinning operation is to release the biggest and best growing trees so they can maintain their growth. Pre-commercial thinning is normally conducted in a stand between the ages of 10 and 20 years old. In areas of disease such as Swiss Needle Cast or *Phellinus weirii* (laminated root rot), pre-commercial thinning can be used to favor species other than impacted Douglas-fir trees in the residual stand.

#### Pruning

No pruning activities are planned for this annual operations plan.

#### Stocking Surveys

The Reforestation Unit has the responsibility of ensuring that the goals of the Forest Management Plan are met. Stocking surveys is one tool to ensure the stands are on track for the Desired Future Condition. The surveys are done to check initial plantation survival at a time when the seedlings are vulnerable and there is still time to remedy problems, by using interplanting and animal damage control measures as examples. In addition, stocking surveys are conducted to assess free-to-grow status and to get baseline data on the stand for future management planning, for example evaluating release treatments and pre-commercial thinning candidates.

#### **Invasive Species**

Most noxious weeds or invasive plants are found along roads and have spread into plantations. The main sources for the weed introduction into the forest are vehicle tires, equipment moved into and out of district, and where soil disturbance occurs. 100% weed-free grass seed and certified weed-free straw used for mulch is required for project work on roads. Equipment washing is required in timber sale contracts to prevent the introduction of weed seed from other sites. It is also required that weed-free hay be used for feeding stock on State Forest Lands.

Reforestation continues to work with Marketing, Forest Roads, and Recreation personnel to identify appropriate steps each unit can take to prevent the introduction and spread of invasive plants. Knotweed, Scotch broom, and false brome are the primary species known to exist in the district. Active control measures are being planned and prioritized for roadside, in-unit, and trail treatment.

#### **Roadside Vegetation Management**

Reforestation works with the Forest Roads personnel on the management of vegetation alongside forest roads. Vegetation management protects the investment by preventing damage from unchecked vegetation growth, helps to maintain a safe driving environment by maintaining clear sight distance, controls noxious weeds, and reduces fire hazards. Roadside

vegetation will be controlled manually, mechanically or chemically where necessary. The method used will depend on the characteristics of the vegetation and its location.

## **Recreation Management**

#### **Overview of Recreation Management**

Recreation use has been taking place on the Santiam State Forest for more than 70 years and has been managed in varying degrees. Currently the direction for management of the Recreation Program flows from the NW Oregon State Forest Management Plan (2010).

Recreation use includes hunting, fishing, target shooting, Off-Highway Vehicle (OHV) riding, mountain biking, hiking, equestrian use, mushroom picking, sight-seeing, picnicking, boating, swimming, and camping. Recreation use takes place in developed sites and in dispersed sites across state forest land. Use levels for all activities are expected to increase.

Dispersed site activities are expected to continue in Fiscal Year 2025 and will require varying degrees of Recreation Program and district staff attention. Dispersed use sites will be monitored, maintained, and improved or closed as resources allow to meet safety, sanitation, and resource protection objectives.

Due to facility and trail maintenance needs, winter weather limitations, timber sale activity, fire season restrictions, and staffing vacancies some project work from Fiscal Year 2024 will extend into Fiscal Year 2025.

The Fiscal Year 2025 plan focuses on maintaining current trails, facilities, and opportunities by maintaining existing infrastructure, providing resources for addressing public safety and sanitation, and mitigating recreational impact to natural resources. The Recreation Program will also take a step back from trail system development and focus on internal business processes to improve internal integration with other state forest business, improve spatial data organization, standardize recreation infrastructure, improve information delivery to the public, and align operational activities with the guidelines and requirements identified in the Draft Habitat Conservation Plan.

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

The Recreation Program manages the following developed facilities on the North Cascade District:

- 3 campgrounds
- 1 OHV staging area
- 7 trailheads and parking areas
- Dispersed camping and target shooting opportunities.

#### Facility Maintenance

Maintenance of existing facilities remains the Recreation Programs' highest priority. Facilities will be maintained as necessary to protect investment, address developing resource and safety issues, and to protect water quality.

Facility maintenance work includes the completion of facility condition assessments on all facility infrastructure, prioritization of maintenance needs, development of maintenance plans, and completion of maintenance work identified. Standard facility maintenance work includes performing maintenance activities on restrooms, trash and garbage services, facility access roads and trails, facility infrastructure (picnic tables, fire pits, potable water wells, grey water disposal areas, tent pads, wood storage sheds, picnic shelters, parking areas...etc.), sign and information board infrastructure, and vegetation management.

Heavy facility maintenance work such as addressing landslides, sinkholes, flood damage, and downed trees which results from winter storms will be incorporated into facility maintenance plans and conducted as needed.

Facility maintenance needs vary year to year based on factors such as volume of use and seasonal weather conditions.

#### Motorized (OHV) Trails

The Recreation Program will continue to place emphasis on the maintenance and upgrade of existing trails. Upgrades will be focused on improving trail system connectivity and diversity, reducing user conflict, addressing user safety, natural resource protection, recreational infrastructure investment protection, improving sustainability, and reducing maintenance workload.

To support OHV Program management, ODF receives All-Terrain Vehicle Fund dollars from Oregon Parks and Recreation Department to support personnel and associated service and supply costs.

#### Non-motorized Trails

The Recreation program will continue to place emphasis on maintenance, and upgrade of existing trails. Upgrades will be focused on improving trail system connectivity and diversity, reducing user conflict, addressing user safety, natural resource protection, recreational infrastructure investment protection, improving sustainability, and reducing maintenance workload.

Fiscal Year 2025 non-motorized trail projects on the North Cascade District are identified and described in the following table (Table 6).

Project Type	Project Name	Project Status	Work Resources	Project Description
Trail Construction	Butte Creek Falls	Ongoing-	Recreation Staff,	Trail construction to
	Trail	Approved	Santiam	connect Butte Creek

#### Table 6. Non-motorized Trail Projects

Year 2023 Institution Adults Butte Creek Falls in Custody Crews Trailhead. Construction of 0.5 miles in Fisca Year 2024-2025.
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#### Trail Maintenance (Motorized and Non-motorized)

Maintenance of existing trails remains the Recreation Programs' highest trail program priority. Trails will be maintained as necessary to protect investment, address developing resource and safety issues, and to protect water quality.

Trail maintenance work includes the completion of trail condition assessments on all trails and trail infrastructure, prioritization of maintenance needs, development of maintenance plans, and completion of maintenance work identified. Standard trail maintenance work includes activities such as cleaning water bars and rolling dips, cleaning out culverts, performing trail tread repair work, cleaning trail bridges, clearing downed trees, vegetation management, sign infrastructure maintenance, and trail infrastructure repair or replacement.

Heavy trail maintenance work such as addressing landslides, sinkholes, flood damage, and downed trees which results from winter storms will be incorporated into trail maintenance plans and conducted as needed.

Trail maintenance needs vary year to year based on factors such as volume of use and seasonal weather conditions.

#### Hydrologic Connectivity

Hydrological connectivity surveys will be performed on trails during trail maintenance and condition assessments. The intent of these surveys is to determine what portions of the road and ditchlines are directly connected to streams and determine if there are ways to minimize or mitigate the connection distances. The Recreation Program prioritizes trail improvement projects that address hydrologic connectivity and culvert replacements that are barriers to fish migration. Trail maintenance investments will be made to support recreational opportunities, protect existing trail infrastructure, protect water quality, and provide for public safety improvements. The Recreation Program monitors trail conditions year-round and performs additional assessments during and after inclement weather events. The Recreation Program will incorporate items discovered during the process into annual maintenance plans to be mitigated.

#### **Timber Sale and Recreation Resource Interactions**

As a working forest it is inevitable that as we plan future timber harvests there is interaction with our growing recreational infrastructure. The Marketing, Roads, and Recreation staff collaborate when sale and recreation resource interactions occur and develop actions to minimize impact to recreational infrastructure and address natural resource impact when trails do not meet sustainability or resource protection goals.

#### Volunteer Program and Partnerships

Volunteers contribute labor, supplies, and expertise to the Recreation, Education, and Interpretation Program. Volunteers have partnered with ODF to construct new trails, maintain infrastructure, and preserve natural resources.

Volunteer activities include.

- Camp Host Program at Santiam Horse Camp Campground
- Non-profit and user group led trail maintenance and construction work parties

In Fiscal Year 2025, activities associated with the volunteer program will include the recruitment, selection, and management of campground hosts, planning and management of volunteer trail maintenance and development work, and special volunteer projects.

The Recreation Program continues to partner with local recreation providers and volunteers to maintain working relationships and accomplish work. The 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.

#### Grants

The program will be exploring applying for grants to support a variety of infrastructure projects across state forest land.

The Recreation Program will also be partnering with clubs and organizations that will be submitting grant applications to advance Recreation Program work in NW Oregon Area.

#### Target Shooting

The Recreation Program, in collaboration with our partners in the target shooting community and North Cascade District, will continue to work on implementing a target shooting management strategy that will work towards:

- Resolving the safety, sanitation, and environmental issues.
- Reducing the fire potential associated with target shooting.
- Developing public ownership and involvement in the development and implementation of the strategy.

Maintaining safe and sustainable opportunities for recreational target shooting on the Santiam State Forest.

#### Education and Interpretation

In an effort to collect resources proactively for future interpretive opportunities in relation to the Santiam State Forest wildfire impacts and restoration efforts, the Recreation, Education, and Interpretation Program will continue the following work in Fiscal Year 2025:

• Establish a temporary interpretive sign in the Fern Ridge Demonstration Forest to share fire impacts and recovery as it relates to the Santiam State Forest. This sign will serve as a placeholder until an Interpretive Master Plan is developed.

- Continue work to record historical evidence and interpretive resources and data to preserve the record and provide meaning to the Labor Day Fires in relation to the Santiam State Forest.
- Finalize a system for monitoring forest cyclic and seasonal post fire (change over time) that provides staff and the public an opportunity to contribute.

# **Other Integrated Forest Management Projects**

#### Aquatic & Riparian Management

All streams found in State Forests are subject to the Management Standards for Aquatic and Riparian Areas as outlined in Appendix J found in the Northwest Oregon State Forests Management Plan (2010) at a minimum. An objective of State Forests' aquatic resources is to maintain, enhance, and restore properly functioning aquatic and riparian functions. This is achieved primarily through riparian buffer strategies specific to the aquatic resource characteristics such as presence of fish, stream size, and flow duration.

Several strategies, described in the Forest Management Plan, dictate protection measures designed to protect, maintain, and restore aquatic and riparian functions. These 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. Best management practices for road construction, reconstruction, and maintenance minimize impacts to water quality.

In addition to the strategies detailed in the Forest Management Plan all goals and strategies identified within the Draft Habitat Conservation Plan will be followed for Fiscal Year 2025 timber sales. These goals and strategies at times will overlap with those within the Forest Management Plan. Final stream protection configurations will be determined during sale layout to ensure compliance with Forest Management Plan and Habitat Conservation Plan strategies.

<u>Threatened and Endangered Fish Species:</u> Federally Threatened listed species with Critical Habitat Designations found within the District include Upper Willamette River Winter Steelhead and Upper Willamette River Spring Chinook.

<u>Fish Distribution Surveys</u>: Streams are classified in part as supporting fish (Type F) or not supporting fish (Type N). Riparian protection measures depend in part on the presence of fish. Many streams in the past have been surveyed with electro-fishing techniques that established the upper extent of fish use. However, many small streams have not yet been surveyed for fish presence. Streams needing classification in the annual operations plan will be evaluated using a Physical Habitat Survey. This physical survey methodology was developed in conjunction with Oregon Department of Fish and Wildlife. The seasonal/perennial break in the streams will be evaluated during fish distribution surveys or during sale layout.

<u>Restoration Goals and Identification Process</u>: The overarching principles for fish habitat restoration are described in the Forest Management Plan. After review by ODF's Aquatic and Riparian Specialist and by Oregon Department of Fish and Wildlife biologists during the annual operations plan cooperators meeting, it was determined that there may be opportunities for stream enhancement in some of the planned sale areas. Further field reconnaissance will be completed by District and ODF's Aquatic and Riparian Specialist, along with Oregon Department of Fish and Wildlife, to determine possible locations.

Restoration accomplishments are reported to Oregon Watershed Enhancement Board using the Oregon Watershed Restoration Inventory electronic filing process and reported by ODF annually in our report to the counties, board of forestry, and Division of State Lands.

#### Land Exchange

The process for a potential purchase or land exchange with Weyerhaeuser began in Fiscal Year 2021 and will continue in Fiscal Year 2025. Weyerhaeuser owns approximately 400 acres directly adjacent to the ODF Shellburg parcel. Acquiring this parcel will help create a safer public access point to the Shellburg Falls trail network and add 3 more waterfalls to the Recreation Area.

#### Law Enforcement and Public Safety

Currently the district participates in a Cooperative Law Enforcement program in Linn County, Marion County and Clackamas County in cooperation with other private timber companies.

#### Firewood Cutting Program

The primary objective of the District Firewood Cutting Program is to provide a source of firewood from Sate Forests to the public for personal use. The permit fee for personal firewood cutting is \$20 for two cords. Permits are issued for a period of three weeks. Historically firewood cutting has only been allowed outside the months of fire season. The district typically sells 50-75 woodcutting permits each year. Firewood permits will not be issued where there is a public use closure on the Santiam State Forest.

#### **Non-Timber Forest Products**

The North Cascade District has suspended its commercial Miscellaneous Forest Products permit program due to lack of staffing resources. Previously, forest products such as mushrooms, vine maple, and salal were available for commercial permit. Many of these products are available throughout the forest landscape and can be found in the different stand structures on the forest. The permit program policy will be re-evaluated in Fiscal Year 2025.

The district does issue personal use permits, consistent with Northwest Oregon Area policy. Gathering of these products is allowed provided that the products and quantities are not removed or exceeded as outlined in Oregon Revised Statute 164.813. No personal use permits will be issued where there is a public use closure on the Santiam State Forest.

## Planning

Below are the significant district-level planning projects currently scheduled for commencement, completion, or both in Fiscal Year 2025.

#### Archaeological, Historical and Cultural Resources

All of the operations will be reviewed against the State Historic Preservation Office and General Land Office databases for potential impact to cultural resources. All of the operations will be shared with the nine federally recognized Tribes in Oregon.

#### Forest Inventory

In Fiscal Year 2022, the State Forest Inventory Program and the North Cascade District collaborated to redraw stand polygons within the 2020 fire perimeter in an effort to reflect post-fire conditions more accurately in the Stand Level Inventory.

The State Forests Division is developing a new Enhanced Forest Inventory that uses a network of permanent monitoring plots, lidar data, and remote imagery. When the Enhanced Forest Inventory is complete, it will replace the Stand Level Inventory. The 2020 fires on the North Cascade District impacted the development of the Enhanced Forest Inventory by delaying the installation and measurement of permanent plots and by changing the landscape in areas where lidar data had already been collected. Since the fires, the remaining plot level data has been gathered and a grant has been awarded to ODF for the acquisition of additional lidar data within the fire perimeter. In Fiscal Year 2024 ODF partnered with the United States Forest Service and the Bureau of Land Management to develop the Enhanced Forest Inventory for the fire affected areas.

#### Wildlife Surveys

#### Northern Spotted Owl Surveys

For the Fiscal Year 2025 Annual Operations Plan, the district will continue the northern spotted owl survey program to comply with federal and state Endangered Species Acts and to contribute to Forest Management Plan goals. Survey requirements are determined in accordance with *ODF Northern Spotted Owl Operational Policies*, November 2017. If ODF obtains a Habitat Conservation Plan these policies will be re-evaluated.

#### Threatened & Endangered Plants

The district will continue to screen harvest operations against the Oregon Biodiversity Information Center database and other known locations on the district to identify potential conflicts with plant species listed in the district Implementation Plan.

#### Species of Concern Wildlife

The district will continue to screen harvest operations against several wildlife databases to identify potential conflicts with wildlife of concern listed in the district Implementation Plan.

#### **Research and Monitoring**

The district is actively evaluating past timber sales for compliance with the Oregon Forest Practices Act. The North Cascade District will use the information to assess and improve compliance.

Additionally, the district cooperates with Oregon State University on a study to help determine the abundance of the Oregon Slender Salamander and other terrestrial salamanders on the western slopes of the Cascade Range. The study was initially designed to help determine if there is a significant difference in the amount of down-woody debris, the Oregon Slender Salamander's primary habitat, pre- and post-harvest. This cooperative study was originally supposed to last 5 years, which ended in 2020. The study was extended in 2021 and transitioned to determining occupancy of stands pre- and post-wildfire in 2024. The district is still waiting to receive the results of the initial study design and utilize them for analysis on future planning.

In cooperation with Oregon Department of Fish and Wildlife and their bat monitoring program as well as the Bureau of Land Management, the district has had 3 sound meters installed to monitor various species of bats that are found on the Santiam State Forest. The Bureau of Land Management has also installed a sound meter on an adjacent parcel near ODF ownership. This study is ongoing, and we will be receiving more data in the coming years.

In fall 2023, ODF supported beaver activity monitoring for targeted stream reaches in the District that overlapped the North Santiam Beaver Emphasis Area. This work supports the Oregon Department of Fish and Wildlife's 3-Year Beaver Action Plan. Beaver activity surveys will be replicated in fall 2024 through continued collaboration with the BLM Northwest District, FS Willamette National Forest Detroit Ranger District, and private industrial landowners.

United States Geological Survey has been given a permit to install monitoring equipment on Sardine Creek on the Santiam State Forest. Stream gages will measure precipitation, velocity, and stage as part of the United States Geological Survey post-burn monitoring program. The data are posted online in real time at <a href="https://waterdata.usgs.gov/monitoring-location/14181350/">https://waterdata.usgs.gov/monitoring-location/14181350/</a> >

ODF will coordinate with agency, industry, nonprofit, and academic partners to design monitoring, apply for grants, and implement studies related to post-fire restoration as opportunities allow. Field work started in Fiscal Year 2022 and will continue in Fiscal Year 2025 with setting up initial plots to measure baseline conditions. Examples of studies may include tracking stand development, structure, and function in areas with different burn severities that received active management (e.g. aerial seeding, riparian underplanting, or post-fire harvest) versus passive management (i.e. natural regeneration).

In Fiscal Year 2022, ODF began a post-fire riparian monitoring study to evaluate the effects of three riparian treatments in moderate to high severity burned areas – no treatment, conifer only planting, and mixed species tree and shrub planting. Natural regeneration, species diversity, solar irradiance, snags, soil condition, and downed wood will be monitored in Fiscal Year 2025.

Two region-wide assisted-migration studies that could inform reforestation and young stand management will have data collection or planting in Fiscal Year 2025. The North Cascades Douglas-fir Assisted Migration trial by the Northwest Tree Improvement Cooperative is testing for genetic factors that may make seed sources more climate resilient. Researchers at the USFS Pacific Northwest Research Station are planting seedling from different climate regions at different densities to test for climate adaptations as part of the Experimental Network for Assisted Migration and Establishment Silviculture (ENAMES).

Other post-fire research projects for which Supplemental Use Permits have been issued or are anticipated for Fiscal Year 2025 include a pollinator study (National Council for Air and Stream Improvement), a riparian management study (National Council for Air and Stream Improvement), a vegetation burn severity study (Western Oregon University), and a soil science study (Oregon State University).

#### Recreation, Education, and Interpretation Program

In Fiscal Year 2025, Recreation, Education, and Interpretation Program staff will be working on the following planning efforts.

- Support the State Forest Division's Forest Management Plan work, Habitat Conservation Plan work and district annual operations plan development and implementation.
- Recreation Standards Manual Development- Recreation, Education, and Interpretation Program to work with a consultant to develop a Recreation Program Standards Manual for recreation facility infrastructure (ex. fire pits, information boards, picnic tables, site signs, etc.). This project began in Fiscal Year 2023 and will continue in Fiscal Year 2025.
- Volunteer Program Manual- The Recreation, Education, and Interpretation Program is undergoing an extensive re-evaluation of the volunteer program including onboarding, communication, and recruitment components. The deliverable of this process will be the development of a volunteer manual that will be applied across all forests and programs. This project began in Fiscal Year 2023 and will continue in Fiscal Year 2025.
- Recreation Data Management Business Improvement- The Recreation Program is in process of updating the management of recreation trail and facility spatial data to improve internal integration, operational and maintenance efficiency, delivery of information to the public, and implement new tracking and reporting requirements.

#### Other Planning Operations

- In conjunction with the Recreation, Education, and Interpretation Team, the district will provide input and context to recreation planning.
- The district will also continue to participate in Forest Management Plan and Habitat Conservation Plan reviews as needed.
- In cooperation with Marion County Sheriff's Office (MCSO), ODF is starting discussions to enter into an Intergovernmental Agreement with MCSO to provide area to build a Search and Rescue training facility. The site would likely include a permanent building to be used for Search and Rescue training.

The South Cascade District has a similar agreement for a Search and Rescue training facility in place with Linn County Sheriff's Office and one of the landowners in that district. That partnership has shown success for both parties.

Currently, ODF and MCSO have an agreement in place for forestry patrol to be done on the Santiam State Forest within Marion County. The planned Search and Rescue Training Facility would further strengthen the relationship between ODF and MCSO as well as add to managing the Santiam State Forest for greatest permanent value to all Oregonians.

# **Public Information and Education**

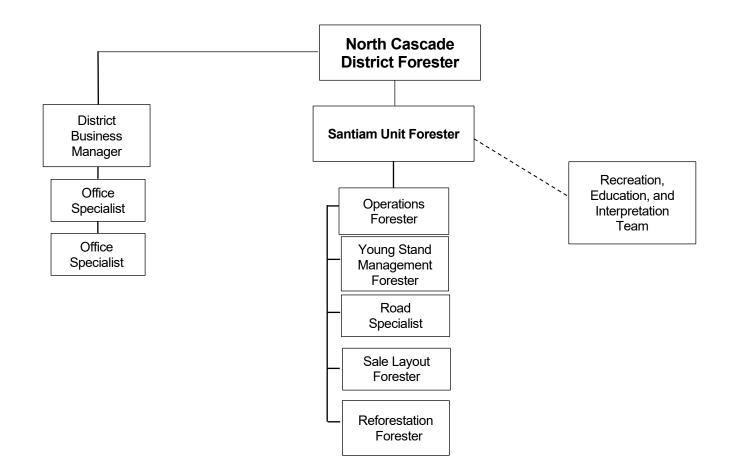
Public information and involvement activities will include review and input regarding the Fiscal Year 2025 Annual Operations Plan and the 2020 Labor Day fires.

The Recreation, Education & Interpretation Program offers various interpretation and educational programs and services on the State Forest system, with primary offerings featured at the Tillamook Forest Center (TFC), located at milepost 22 on the Wilson River Highway (Highway 6). The TFC is ODF's only visitors' center, and while located on the Tillamook District, it serves as a hub for public education on forest-related topics, active forest management, fire prevention messaging, agency wide initiatives, and general information about the variety of recreational opportunities available on state forests, while also offering meaningful interpretive programs to help promote a culture of forest stewardship. The Tillamook Forest Center continues to host many school groups, family activities, and other forest visitors, and is open March through November annually.

The REI Program is also actively engaged in additional community outreach and engagement efforts to raise awareness about the Program itself and the many benefits provided by the recreational and educational opportunities available on state forest lands. It should be noted that the REI Program staff is relatively small, and gratefully depends on the significant investments made by long-standing and committed volunteers, use-community partnerships, and generous donations to the Program's nonprofit funding partner, the State Forests Trust of Oregon, to help maintain and sustain its existing services and infrastructure to the public.

## Administration

There are 5 permanent positions whose full-time function is to manage State Forest land on the district. In addition, the district is supported by the NW Oregon Area Recreation, Education, and Interpretation Team and the NW Oregon Area Operations Team as well as the Division Planning and Coordination Team. All are responsible for implementing the Fiscal Year 2025 Annual Operations Plan. The State Forest Unit is responsible for ensuring that all management approaches, activities, and projects for timber marketing, road management and young stand management are designed to meet the goals, strategies, and objectives of the Forest Management Plan, Implementation Plan, Annual Operations Plan, and Recreation Plan. The sales and projects are coordinated across the district and with the NW Oregon Area and Division Teams from the development of the Annual Operations Plan to the final sale administration for consistency within and between units to meet common goals.



# **APPENDICES**

# A. Summary Tables

- 1. Harvest Operations Financial Summary
- 2. Harvest Operations Forest Resource Summary
- 3. Forest Road Management Summary
- 4. Reforestation and Young Stand Management Summary
- 5. Recreation Management Summary

# **B. Vicinity Maps**

1. Harvest Operations Vicinity Maps

# C. Consultations with Other State Agencies

This appendix summarizes the results of consultations with the Oregon Department of Fish and Wildlife, Oregon Department of Transportation, and other agencies as appropriate.

# **D. Public Comment Process**

This appendix will describe the results of the public involvement process of this annual operations plan.

# **E. Pre-Operations Reports**

Pre-Operations Reports are available on the ODF website.

# F. Forest Land Management Classification

# G. Landscape Design

# **Appendix A – Summary Tables**

- Table A-1: Commercial Forest Management Operations Financial Summary
- Table A-2: Commercial Forest Management Operations Forest Resource Summary
- Table A-3: Forest Roads Summary
- Table A-4: Reforestation and Young Stand Management Summary
- Table A-5: Recreation Management Financial Summary

#### TIMBER HARVEST OPERATIONS - FINANCIAL SUMMARY

District: North Cascade			Fiscal Year: 2025				Date: 04/01/2024						
Primary Operation	Fund %			Sale	Net Acres		Volume (MMBF)			Value			
	BOF	CSL	County	Quarter	Partial Cut	Clear- cut	Con- ifer	Hard- woods	Total	Gross	Projects	Net	
Kaupper Top	100%	0%	Linn (100%)	4	0	82	3.1	0.0	3.1	\$1,691,250	\$101,572	\$1,589,678	
Elk Prairie Thin	100%	0%	Clackamas (100%)	1	84	2	0.9	0.0	0.9	\$265,800	\$58,690	\$207,110	
Butte 600	100%	0%	Clackamas (100%)	2	0	79	3.2	0.0	3.2	\$1,738,000	\$87,032	\$1,650,968	
Last West	100%	0%	Linn (100.0%)	3	0	67	2.6	0.2	2.8	\$1,547,700	\$18,283	\$1,529,417	
Sub-total: Project WOC Sub-total: Total:					84	230	9.7	0.2	9.9	\$ 5,242,750	\$ 265,577	\$ 4,977,173	
					0	0	0.0	0.0	0.0		\$ 658,910		
					84	230	9.7	0.2	9.9	\$ 5,242,750	\$ 924,487	\$ 4,318,263	

Alternate Operation	Fund %			Sale	Net Acres		Volume (MMBF)			Value		
	BOF	CSL	County	Quarter	Partial Cut	Clear- cut	Con- ifer	Hard- woods	Total	Gross	Projects	Net
Pluto	100%	0%	Linn (100%)	ALT	0	86	3.1	0.0	3.1	\$1,702,800	\$214,342	\$1,488,458
1000 Line Jim Thin	100%	0%	Linn (100%)	ALT	206	3	1.7	0.0	1.7	\$510,300	\$114,066	\$396,234
Mashed Potatoes	100%	0%	Marion (100%)	ALT	0	133	4.3	0.0	4.3	\$2,553,600	\$39,634	\$2,513,966
				Total:	206	222	9.1	0.0	9.1	\$4,766,700	\$368,042	\$4,398,658

#### **PRIMARY HARVEST OPERATIONS - FOREST RESOURCE SUMMARY**

**District: North Cascade** 

Fiscal Year 2025

Date: 04/01/2024

This table lists Forest Resource		JIIU	ULLIE	51 193	ucs (	auures	seu withi	ILLE-	Opera		reh	ultu		ii pies	ence wit			aivesi	ope	าลแบ	115
Primary Harvest Operations	Unit (Optional)	Forest Health Issues <sup>1</sup>	Invasive Species	Current LYR/OFS Structures <sup>2</sup>	Landcape Design LYR/OFS $^3$	Habitat Conservation Area (HCA)	Install/Replace Culverts on Fish Bearing / Perennial Streams	Road/Trail Construction inside RCA/HCA	Point of Diversion (Domestic Water)	Potential Stream Habitat Improvement <sup>4</sup>	Within Aquatic Anchor	Within Terrestrial Anchor	Operating within a NSO Provincial Circle (BA Required)	Operating within a MMMA (BA Required)	Murrelet Timber Sale Screening Process Required (MM Policy 2.27)	T&E Fish Adjacent to Harvest Unit / Haul Route <sup>5</sup>	T&E/SOC Species (Includes Plants)	Geotechnical – Additional Review Required <sup>6</sup>	Recreation Sites	Scenic Resources	Other Resources or Issues
Kaupper Top		-	х	-	-	-	х	х	-	-	-	-	-	-	-	-	-	-	-	х	
Elk Prairie Thin		-	-	-	Х	-	х	-	-	-	-	-	-	-	-	Х	-	-	-	-	
Butte 600		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Last West		-	х	-	-	-	х	-	-	-	-	-	-	-	-	Х	-	-	-	-	

This table lists Forest Resources and other issues addressed within Pre-Operations Report due to their presence within or near harvest operations

<sup>1</sup> A 'x' (in any column) indicates yes the resource or other issue occurs within or near the harvest operation and is addressed by the Pre-Operations Report

<sup>2</sup> A 'x' indicates the harvest operation contains stands that were in pre-fire Layered or Older Forest Stand Structure

<sup>3</sup> A 'x' indicate that the operation contains areas that have been designated for the development of complex forest stands (LYR/OFS); operations planned in stands with a pre-

fire stand condition of layered or older forest structure are burned and no longer contain living forest components needed for those stand strucutre types.

<sup>4</sup> The final decision on these projects will occur during sale preparation and inconsultation with ODFW.

<sup>5</sup> This table lists harvest operations (units or log haul routes) that are adjacent to streams that are known to contain T&E fish.

#### ALTERNATE HARVEST OPERATIONS - FOREST RESOURCE SUMMARY

This table lists Forest Resources and other issues addressed within Pre-Operations Report due to their presence within or near harvest operations

Alternate Harvest Operations	Unit (Optional)	Forest Health Issues <sup>1</sup>	Invasive Species	Current LYR/OFS Structures <sup>2</sup>	Landcape Design LYR/OFS <sup>3</sup>	Habitat Conservation Area (HCA)	Install/Replace Culverts on Fish Bearing / Perennial Streams	Road/Trail Construction inside RCA/HCA	Point of Diversion (Domestic Water)	Potential Stream Habitat Improvement <sup>4</sup>	Within Aquatic Anchor	Within Terrestrial Anchor	Operating within a NSO Provincial Circle	Operating within a MMMA (BA Required)	Murrelet Timber Sale Screening Process Required (MM Policy 2.27)	T&E Fish Adjacent to Harvest Unit / Haul Route <sup>5</sup>	T&E/SOC Species (Includes Plants)	Geotechnical – Additional Review Required <sup>6</sup>	Recreation Sites	Scenic Resources	Other Resources or Issues
Pluto		-	х	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	х	
1000 Line Jim Thin		х	х	-	-	-	х	х	-	-	-	-	-	-	-	-	-	-	-	-	
Mashed Potatoes		-	х	-	-	-	х	-	-	-	-	-	-	-	-	-	х	-	-	-	

<sup>1</sup> A 'x' (in any column) indicates yes the resource or other issue occurs within or near the harvest operation and is addressed by the Pre-Operations Report

<sup>2</sup> A 'x' indicates the harvest operation contains stands that are currently in a Layered or Older Forest Stand Structure

<sup>3</sup> A 'x' indicate that the operation contains areas that have been designated for the development of complex forest stands (LYR/OFS)

<sup>4</sup> The final decision on these projects will occur during sale preparation and inconsultation with ODFW.

<sup>5</sup> This table lists harvest operations (units or log haul routes) that are adjacent to streams that are known to contain T&E fish.

#### FOREST ROADS SUMMARY

District:			Fiscal Year:	2025		Date:	04/01/2024		
Primary Operations	Constru	ction	•	nent, rock, iintenance	Other Projects	Total Project Costs	Gross Value of Operation	Total Cost as a percent of Gross	Comments
	Miles	Cost	Miles	Cost	Trojecta	00313	of operation	Value	
Kaupper Top	0.40	\$51,055	0.80	\$50,517	\$0	\$101,572	\$1,691,250	6.0%	
Elk Prairie Thin	0.36	\$48,081	0.22	\$10,609	\$0	\$58,690	\$265,800	22.1%	
Butte 600	0.39	\$46,561	2.10	\$40,471	\$0	\$87,032	\$1,738,000	5.0%	
Last West	0.06	\$18,283	0.00	\$0	\$0	\$18,283	\$1,547,700	1.2%	
Sub-total	1.2	\$163,980	3.1	\$101,597	\$0	\$265,577	\$5,242,750	5.1%	
Sub-total WOC (see below)	0.2	\$116,410	55.0	\$82,500	\$460,000	\$658,910	\$0		
Totals	1.4	\$280,390	58.1	\$184,097	\$460,000	\$924,487	\$5,242,750	17.6%	

#### Alternate Operations

Pluto	0.32	\$51,942	1.8	\$2,400	\$160,000	\$214,342	\$1,702,800	12.6%	Rock Crushing @ MC500 Pit
1000 Line Jim Thin	0.52	\$77,972	2.01	\$36,094	\$0	\$114,066	\$510,300	22.4%	New construct plus a lift of rock on 1010 rd
Mashed Potatoes	0.63	\$39,634	0.00	\$0	\$0	\$39,634	\$2,553,600	1.6%	
Total	1.5	\$169,548	3.81	\$38,494	\$160,000	\$368,042	\$4,766,700	7.7%	

#### Road Projects to be Completed as a Work Order Contract

Operation	Constru	iction	Improv	/ement	Other Projects	Total Project Costs	Funding Source	Comments
	Miles	Cost	Miles	Cost	-			
Bridge Creek Pit Crushing					\$160,000	\$160,000	FDF	Crush in Bridge Creek for Cedar Creek Mgmt.
South Block Crushing					\$300,000	\$300,000	FDF	Crush in the Tom Rock Pit and 1100 Pit
North Block Brushing			55.0	\$82,500		\$82,500	FDF	Brush 50 to 60 miles
Hammond 400 Road Realignment	0.2	\$116,410				\$116,410	FDF	Realign H400 Road for pit development
Total	0.2	\$116,410	55.0	\$82,500	\$460,000	\$658,910		

District:	North Case	cade	Fiscal Year:	2025		Date:	04/01/2024	
Projects Conducted by ODF Staff		<b>Board of Fores</b>	stry	Comm	on School For	est Lands	Dis	strict
or Contractors	Acres	Average		Acres	Average			
of contractors	Planned	Cost*/Acre	BOF Cost	Planned	Cost*/Acre	CSL Cost	<b>Total Acres</b>	Total Cost
Site Prep - Broadcast Burning			\$0			\$0	0	\$0
Site Prep - Piling Burning	182	\$13.20	\$2,402			\$0	182	\$2,402
Site Prep - Mechanical			\$0			\$0	0	\$0
Site Prep - Chemical - Aerial	0	\$0.00	\$0			\$0	0	\$0
Site Prep - Chemical - Ground	542	\$133.00	\$72,086			\$0	542	\$72,086
Initial Planting	542	\$193.00	\$104,606			\$0	542	\$104,606
Interplanting	200	\$135.00	\$27,000			\$0	200	\$27,000
Underplanting			\$0			\$0	0	\$0
Tree Protection - Barriers			\$0			\$0	0	\$0
Tree Protection - Direct Control	520	\$95.00	\$49,400			\$0	520	\$49,400
Release - Chemical - Aerial			\$0			\$0	0	\$0
Release - Chemical - Ground	500	\$107.00	\$53,500			\$0	500	\$53,500
Release - Manual	200	\$200.00	\$40,000			\$0	200	\$40,000
Precommercial Thinning			\$0			\$0	0	\$0
Tube Maintenance			\$0			\$0	0	\$0
Stocking Surveys	2,500		\$0			\$0	2,500	\$0
Invasive Species	500	\$55.00	\$75,000			\$0	500	\$75,000
Roadside Vegetation Mngt			\$0			\$0	0	\$0
Other			\$10,000			\$0	0	\$10,000
Totals	5,686		\$433,994	0		\$0	\$5,686	\$433,994

### **REFORESTATION AND YOUNG STAND MANAGEMENT SUMMARY**

\* Work to be completed by ODF staff; cost are for materials only

Projects Conducted by Santiam		Board of Fores	try	Comm	on School For	est Lands	Dis	trict
Correctional Facility	Acres	Average		Acres	Average			
(costs are for materials only)	Planned	Cost*/Acre	BOF Cost	Planned	Cost*/Acre	CSL Cost	<b>Total Acres</b>	Total Cost
Site Prep - Broadcast Burning			\$0					
Site Prep - Piling Burning	182	\$12.36	\$2,250					
Site Prep - Mechanical			\$0					
Initial Planting			\$0					
Interplanting			\$0					
Underplanting			\$0					
Tree Protection - Barriers	0	\$0.00	\$0					
Tree Protection - Direct Control			\$0					
Release - Manual			\$0					
Precommercial Thinning			\$0					
Tube Maintenance	50	\$0.00	\$0					
Invasive Species			\$0					
Other			\$0					
Totals	232		\$2,250	0		\$0	0	\$0

Grant Funded Activities	Board of Forestry			Comm	on School For	est Lands	Dis		
	Acres	Average		Acres	Average				Funding
Project	Planned	Cost*/Acre	Cost	Planned	Cost*/Acre	Cost	<b>Total Acres</b>	Total Cost	
			\$0			\$0	0	\$0	
			\$0			\$0	0	\$0	
			\$0			\$0	0	\$0	
			\$0			\$0	0	\$0	

### **RECREATION SITE MANAGEMENT SUMMARY**

District: North Ca	scade		Fiscal Year:	2025		Date:	04/01/2024	
Project	Constructi	on Projects	Improveme	ent Projects	Operat Maintenan		Total Costs	Comments
	ODF (\$)	Other (\$)	ODF (\$)	Other (\$)	ODF (\$)	Other (\$)		
Campgrounds								
Vault Toilet Pumping					\$6,250		\$6,250	
Garbage Service					\$1,000		\$1,000	
Miscellaneous Maintenance					\$800		\$800	Well Testing
Trailheads/ Day Use Areas								
Vault Toilet Pumping					\$2,750		\$2,750	
Garbage Service								
Miscellaneous Maintenance								
Other Operations								
					FDF	Total	\$10,800	
					Other	Total	\$0	
						TOTAL	\$10,800	

#### RECREATION TRAIL MANAGEMENT SUMMARY

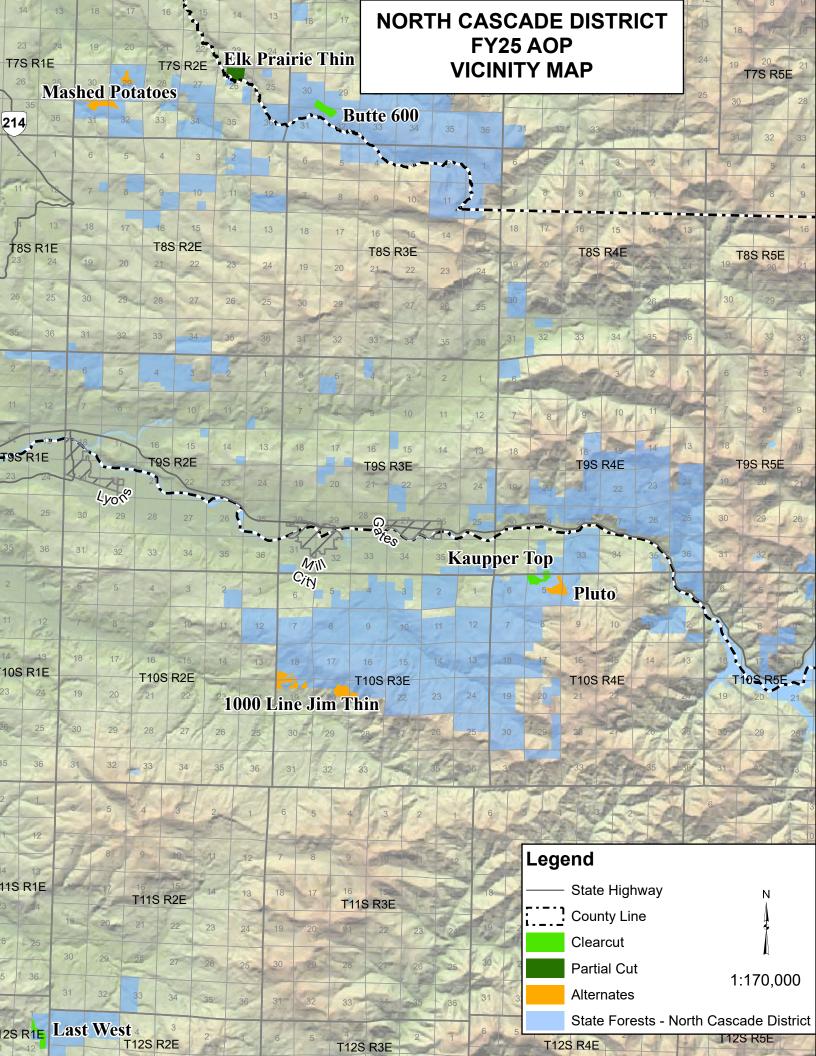
Project	Miles	Constructi	on Projects	Improveme	ent Projects		tions & ce Projects	Total Costs	Comments
		ODF (\$)	Other (\$)	ODF (\$)	Other (\$)	ODF (\$) Other (\$)			
Non-Motorized									
Motorized									
						FDF	Total	\$0	
						Other	<sup>-</sup> Total	\$0	
							TOTAL	\$0	

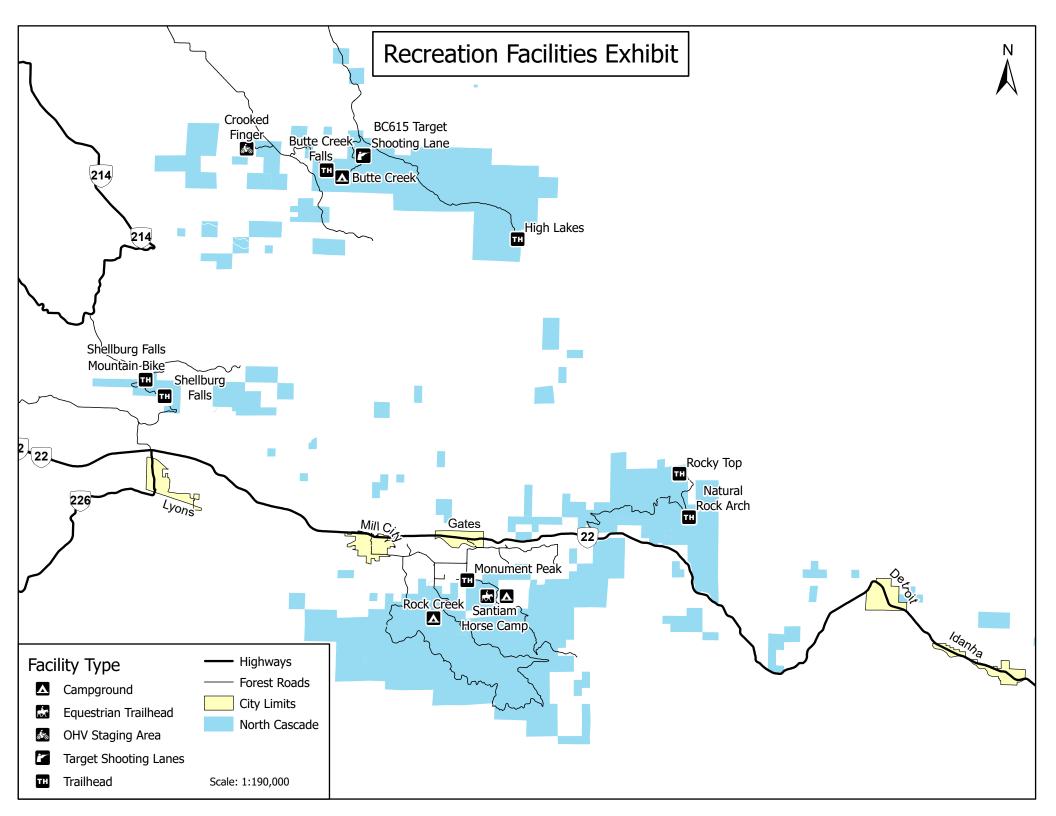
### **RECREATION GRANT MANAGEMENT SUMMARY**

	_	Award Date	Recreation		Fun	ding		
Grant	Status	(actual or anticipated)	Leadership Approval	Goals/Purpose	Grant (\$)	Match (\$)	Project Total	Comments
							\$0	
					Grants	s Total	\$0	
					Match	n Total	\$0	
						TOTAL	\$0	

# **Appendix B – Vicinity Maps**

- Harvest Operations Vicinity Maps
- Recreation Facilities Vicinity Map





### **Appendix C – Consultations with Other State Agencies**

#### Oregon Department of Fish and Wildlife (ODFW):

ODFW biologists were provided the Summary Document and Pre-Operations Reports for review. A follow up cooperator/specialist meeting was held to address questions and concerns.

The following are paraphrased comments received from ODFW (*in bold & italics*) and the response from ODF.

# Please let ODFW know when vacating roads as they have forage seed available to spread and ODFW may be able to facilitate finding volunteers to spread the seed mix.

Each district will coordinate with ODFW when vacating roads that would be a good candidate for spreading seed. The North Cascade District does not plan to vacate any roads as part of the FY25 AOP.

# ODFW would like to skips and gaps as part of young stand thinnings to create foraging opportunities.

ODF Biologists and district staff will reach out to ODFW Biologists to discuss the possibility of incorporating skips and gaps into young stand thinnings. Final thinning prescriptions are determined during sale layout.

### **Appendix D – Public Comment Process**

The Oregon Department of Forestry will issue a Press Release in April 2024, announcing a formal 45-day public comment period for the Fiscal Year 2024 Annual Operations Plans from April 1 through May 17, 2024.

The purpose of the Public Comment Period is to provide an opportunity for the public to review the Annual Operations 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

# **Appendix E – Pre-Operations Reports**

Pre-Operations Reports are available online through a Web Application at the following link:

https://geo.maps.arcgis.com/apps/webappviewer/index.html?id=ae569c1ff445457e b8fe1b556699bce8

This link should be opened using Chrome or Edge. Zoom to the sale area of interest and click inside the polygon. A pop-up box should show up with a link to the Pre-Operations Report for the sale.

# **Appendix F – Forest Land Management Classification**

### **Modification Notice**

No modifications are proposed with the Fiscal Year 2025 Annual Operations Plan.

## Appendix G – Landscape Design

# Implementation Plan Minor Modification Notice

No modifications are proposed with the Fiscal Year 2025 Annual Operations Plan.