# FOREST GROVE DISTRICT 2019 ANNUAL OPERATIONS PLAN



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This plan describes the activities and outcomes that Oregonians can expect to see on the eastern side of the Tillamook State Forest for 2019. The Tillamook 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 large 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. 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. Current financial constraints are limiting many activities and you will see this theme throughout the year's plan. We are striving to continue to provide the current opportunities, and are considering a few opportunities for change.

Every year in the Tillamook State Forest, we learn new things and find new challenges and opportunities. In preparing this plan, we have consulted with geotechnical specialists, wildlife biologists, fish biologists, aquatic specialists, engineers, adjacent landowners, and a variety of interest groups and has undergone a 45 day public comment period.

This AOP was reviewed by the Forest Trust Land Advisory Committee (representing the counties that deeded land to ODF), the State Forests Advisory Committee (SFAC - composed of Oregonians representing many interests), Oregon Department of Fish and Wildlife, the US Fish and Wildlife Service, motorized and non-motorized recreation users, hunters, fishermen, and wildlife advocates, as well as Oregonians in general.

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

- Planting 560,000 trees on 1,350 acres and conducting vegetation and animal management activities on an additional 3,615 acres to ensure the survival and growth of these plantations.
- Conducting density surveys for northern spotted owls covering the majority of the district and surveying 9 miles of streams for the presence of fish habitat.
- Protecting streams and water resources through a series of buffers and seasonal restrictions.
- Stream improvement projects. An initial screen by ODF's Aquatic and Riparian Specialist suggests that 1 stream near the planned harvest units could benefit from large wood additions to the stream system.
- Habitat development projects such as creating snags by removing the tops (551 planned this year), retaining green trees in clearcut areas, and leaving down wood, all for wildlife benefits in harvest areas and future forests.
- Maintaining 795 miles of road and improving approximately 21.3 miles of road to ensure ditch water is dispersed and filtered as much as possible, keeping runoff from entering streams. These roads provide access to timber harvest as well as various recreational opportunities.
- Reviewing District roads to develop plans to block or vacate roads to help manage trash dumping and irresponsible target shooting.
- Beginning the planning cycle to harvest approximately 56.5 million board feet of timber volume, through modified clearcut, generating revenue of an estimated \$28.2 Million net value. This harvest level is in alignment with longer term plans and modeling to ensure it is sustainable and promotes the development of a mixture of habitat types across the landscape.
- Operating and maintaining the following developed facilities in a safe, clean, and responsible manner:
  - 5 campgrounds
  - 2 day use picnic areas
  - 2 highway wayside interpretive sites
  - 12 trailhead facilities
- Providing a safe and clean environment for the myriad of dispersed activities that occur across the forest hunting, camping, angling, sight-seeing, target shooting, swimming, mushroom picking, etc.

- Maintaining, managing, and patrolling the 117 miles of motorized and 66 miles of nonmotorized trails, striving to protect the trail investments, provide for user safety, address developing trail issues, and protect water quality.
- Supporting the important volunteer network that assists in forest management including the following programs:
  - Camp Hosts, Adopt a Trail and Trail Patrol
  - Forest Clean-up
  - Trail Maintenance and Construction Work Parties
  - OHV Trail Equipment Volunteer Operator
- Supporting the pre-planned 8 to 10 organized motorized events and providing support for 2 non-motorized events. Evaluate new event proposals for fit with forest goals.
- Supporting the planning effort on the Salmonberry Rail and Trail project, the opportunity to convert the damaged Tillamook to Banks railroad line into a rail line for portions and a recreational trail throughout its length.
- Providing a firewood cutting program and miscellaneous forest products permits (salal, mushrooms, etc.) as done in 2018.
- Supporting ongoing research on the district, in partnership with research cooperatives and universities.

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# **INTRODUCTION**

This annual operations plan (AOP) outlines state-owned forestland managed by the Forest Grove District for Fiscal Year 2019 (FY19), which begins July 1, 2018 and ends June 30, 2019. This document describes how the activities and projects undertaken by the district will achieve the goals, strategies, and objectives of the *NW Oregon Forest Management Plan (FMP)*, *Tillamook State Forest Recreation Action Plan*, and the *Forest Grove District 2011 Implementation Plan (IP)*. Please refer to the district IP for more specific information on physical characteristics and other district resource information.

The AOP document is divided into five major categories: Integrated Forest Management; Planning and Information Systems; Public Information and Education; Administration and Appendices. A short summary of proposed activities are listed within this introduction. In addition to describing forest management activities for FY 2019, Appendix F of this AOP also describes *minor modifications\** to the State Forests' Forest Land Management Classification maps. Appendix G describes a minor modification to the district Landscape Design. These changes were reviewed by the NWO Area Director and District Forester respectively following the public comment period and approved.

The proposed harvest operations and activities are planned to be designed, engineered, and submitted for processing during the FY19 time period. Actual onthe-ground operations will likely not occur during FY19 due to the time-lag associated with contract duration, which could be one to three years after auction. In contrast, reforestation, young stand management, recreation management, and planning activities will be carried out during FY2019.

A 45-day public comment period was held from March 19, 2018 through May 4, 2018. No specific comments to the Forest Grove District were received. No changes have been made to the plan since the public comment period. The District Forester has approved this plan.

Accomplishments of forest management activities that occurred under previous AOPs 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.\*\*

\*Minor modifications and the procedures for making these changes are described in Forest Grove 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**

The FY19 AOP is estimated to produce 56.5 million board feet in volume, generate gross revenues of approximately \$29,853,360 and net revenues of \$28,240,360. The net revenue exceeds the revenue target set for the district. The volume objective is below the 61 MMBF goal outlined in the Forest Grove District's 2011 Implementation Plan (IP). This is to compensate for the expected volume outcome of 67.4 MMBF in the FY18 AOP. Further reductions in harvest volume may occur in future AOPs. The goal is to achieve the average of the Annual Harvest Objective (AHO) over the expected duration for the IP. Under normal circumstances, the volume proposed in an AOP will be near the AHO target. However, some events may result in an AOP volume that is farther from the AHO target. These events may consist of, but are not limited to, storm damage, insect and/or disease outbreaks, timber market as primary operations in response to any of these circumstances. Refer to the attached Financial Summary Table (Appendix A, Table A-1) and vicinity map (Appendix B) for more detail.

All of the Primary and Alternate harvest operations and many of the other forest management activities have been reviewed by ODF's wildlife biologists, aquatic specialist, geotechnical engineer, road engineer, and operations coordinator, as well as fish and wildlife biologists from the Oregon Department of Fish and Wildlife and archeologists from Oregon Department of Transportation. Occasionally, operations may contain a resource or activity where review with another state agency, such as the Department of Agriculture or the Department of State Lands, is warranted. Written comments from the external resource specialists and the resolution of those comments can be found in Appendix C.

Silvicultural Activity	IP Annual Objective		-		2019 AOP
	Low	High	Objective		
Partial Cut Harvest	0	2,100	0		
Regeneration Harvest	500	2,000	1,227		

# Table 1. Annual Operations Plan objectives compared to annual objectives identified in the Forest Grove District 2011 Implementation Plan. All values are acres.

Table 1 shows the proposed acres by harvest type. The 1,227 acres of regeneration harvest planned for FY19 represents one percent of the district. One hundred percent of the regeneration harvest acres will be designed as modified clearcuts. No partial cuts are planned for this AOP. The majority of thinnings in older stands have already been accomplished and there were no younger stands that were ready to be thinned this year. The anticipated harvest acres, volume, and revenue for each proposed operation in this AOP are listed in the "Harvest Operations – Financial Summary" Table A-1 in Appendix A.

Fiscal Year	IP Annual Objective	AOP Planned Volume	AOP Sold Volume	Cumulative Difference from Objective <sup>1</sup>
FY 12	61	59.0	61.2	+0.2
FY 13	61	65.8	63.0	+2.2
FY 14	61	59.0	63.4	+4.6
FY 15	61	56.6	64.9	+8.5
FY 16	61	58.1	57.7	+5.2
FY 17	61	56.1	55.4	-0.4
FY 18 <sup>2</sup>	61	65.5	67.4	+6.0
FY 19	61	56.5		

Table 2. Accomplishment of AOP Harvest Volume Compared to IP Annual Objective (MMBF)

1. IP Harvest Objective versus Sold Volume.

2. An alternate operation was added to the AOP Planned Volume.

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

The guidelines for managing structural habitat components listed under Landscape Management Strategy 3 in the NWO State Forests Management Plan (pg.4-52) will be followed for the FY19 AOP.

Structural habitat components such as green trees, snags and down woody debris (DWD) are considered for all harvest prescriptions; however, most intentional development and retention of structural components is done within regeneration harvest units.

The green tree retention target for regeneration harvest units is five trees per acre. Green tree arrangements for this AOP include; scattered individual trees, clumps of trees, and trees concentrated in and adjacent to riparian management areas.

The Forest Grove district began leaving green trees within clearcut units in 1987, 14 years prior to the Forest Management Plan. Green tree retention levels began at one tree for every 2 acres of harvest and quickly increased up to the current level of five to seven trees per acre.

In 1992 the district began to incorporate tree topping in our timber sale contracts. Since that time there have been thousands of trees topped to create hard snags on the Forest Grove district. The FMP strategy for hard snags is to manage for at least two per acre on average across the landscape. The need for snag creation for regeneration sales is evaluated on a sale by sale basis. The wind events of 12/06, 11/07, & 12/07 and the snow/ice event of 1/17 made significant contributions to snag and DWD levels despite the salvage of some large concentrations of blow down. This in turn led to scattered bark beetle outbreaks resulting in additional tree mortality during 2009. The majority of beetle caused mortality is located within the McGregor, Wheeler, and Upper Salmonberry Basins. Minor amounts were observed in Larch Mtn., Gales Creek, and Roger's Basins. Based on these observations, snag creation will only be required on planned sales in the Sunday Creek Basin, Wilark Basin, Scoggins Basin, and portions of Gales Creek and Roger's Basins. A total of 551 manmade snags greater than 15 inches in diameter will be created with this AOP.

Beginning in 1997, the district restricted windthrow salvage to large concentrations and roadsides allowing DWD to accumulate across the landscape. While landscape DWD levels are still below the FMP targets, it is believed that over time these targets will be achieved through a combination of natural processes and the ODF salvage policy. The FMP strategy for DWD is to retain an average of 600 to 900 cubic feet of hard conifer logs (class 1 & 2) per acre during regeneration harvest. Stand Level Inventory (SLI) data indicates that there is approximately 200 cubic feet of Class 1 & 2 DWD per acre over the district. These numbers do not include additions from recent wind events or all of the snags & DWD created with recent timber sale contracts. In 2008 the district completed DWD surveys on ten recently completed modified clearcut units. Class 1 & 2 DWD amounts ranged from 600 to 1,700 cubic feet per acre. This shows that our current practices are meeting the down wood strategy.

Another opportunity for natural recruitment of snags and DWD is created by laminated root rot disease (*Phellinus weirii*). In severe cases of root rot, we attempt to retard the spread of the disease by cutting out the infected trees. In other cases we do not cut out the infected trees. This allows the disease to spread at a rate of approximately one foot per year, slowly adding snags and DWD to the stand. Whether laminated root rot is treated or untreated, we know from experience that additional trees will be infected by the disease, creating snags and eventually DWD.

Within a given annual operations plan, snags and DWD may be retained at higher levels in some units and at lower levels in other units, with the intent of achieving the landscape targets outlined in the Forest Management Plan strategies. The estimates used in the pre-operation reports for existing snags and DWD are based on our inventory for the sale area or on the basin average when not available for the sale area. The estimates for post-harvest expectations are based on contract requirements, monitoring results, and SLI data from the previous ten years of regeneration harvests. Stand Level Inventory data collected on sales harvested over the past 10 years show an average of 665 cubic feet per acre of Class 1 and 2 DWD for regeneration harvest UND results can be attributed to natural recruitment from green tree retention, residual logging slash, and tree topping. A total of 937,650 cubic feet of sound down wood will be added to the forest as part of the FY 19 AOP.

## Harvest Operations within Terrestrial Anchor Sites and Aquatic Anchors

The 2011 IP implemented the State Forests' Species of Concern Strategies that specifically identifies fish and wildlife species of concern on the Tillamook State Forest. Two of these strategies are Terrestrial Anchor Sites (TAS) and Aquatic Anchor (AA) sites.

- Terrestrial Anchor Sites (TAS) 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 TAS 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 TAS were designated for the development of complex structure in the Landscape Design.
- Aquatic Anchor (AA) sites are watersheds where salmon and aquatic amphibian conservation is of concern. Riparian management strategies beyond those described

in the FMP will be applied within AAs. In addition, areas designated for the development of complex structure in the Landscape Design are clustered around streams important to fish in the AA.

The Species of Concern Strategies provide long term goals for TAS and AA. The management activities within those areas are designed to achieve those goals. These strategies have not identified specific limits to the total area that can be harvested within these areas; however, the district and resource specialist will be tracking the harvest trends within these areas to ensure the harvest prescriptions and rate is consistent with the goals of these strategies.

## Terrestrial Anchor Sites

Since the adoption of the TAS in the 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 TAS. These sales were reviewed with ODF and ODFW Resource Specialists. Table 3 shows there are no harvest operations within the TAS proposed in the 2019 AOP and also shows the cumulative operations in TAS since the strategy was adopted (AOPs 2012 through 2019). Partial cuts have occurred within the Upper Salmonberry and Wolf Creek TAS in previous fiscal years.

Acres within TAS		nt AOP 2019)	Cumulative Harvest (Since FY 2012)	
	Clearcut	Partial Cut	Clearcut	Partial Cut
AOP Acres	1,227	0	9,216	6,123
% of District Acres	1%	0%	8.1%	5.3%
South Fork Wilson (2,081 ac)	0	0	0	0
% of Acres	0%	0%	0%	0%
Upper Salmonberry (3,097 ac)	0	0	0	365
% of Acres	0%	0%	0%	11.8%
Wolf Creek (4,203 ac)	0	0	0	649
% of Acres	0%	0%	0%	15.4%
All TAS (9,381 ac)	0	0	0	1,013
% of Acres	0%	0%	0%	11%

Table 3. Summary of Harvest Operations within TAS (Acres and Percent)

## Aquatic Anchors

The AAs became effective July 1, 2013 and replaced the Salmon Anchor Habitat Strategy that expired June 30, 2013. 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 AA's. These sales were reviewed with ODF and ODFW Resource Specialists. Table 4 shows the current harvest and the cumulative total from FY 2014. Increased water protection measures will be implemented on regeneration harvest operations planned within the AA's as specified in the Species of Concern strategy.

Acreages	Current AOP (FY 2019)			ve Harvest FY 2014)
	Clearcut	Partial Cut	Clearcut	Partial Cut
AOP Acres	1,227	0	7,130	3,305
% of District Acres	1%	0%	6.3%	2.9%
Aquatic Anchor (AA) Basins				
Ben Smith Creek (2,410 ac)	0	0	0	0
% of Acres	0%	0%	0%	0%
Devils Lake Fork Wilson River (6,132 ac)	0	0	324	118
% of Acres	0%	0%	5%	2%
Elkhorn Creek (1,049 ac)	0	0	0	0
% of Acres	0%	0%	0%	0%
Lousignont Creek/Upper Nehalem River (12,355 ac)	424	0	1,555	1,256
% of Acres	3.4%	0%	12.6%	10.2%
S. Fork Salmonberry River (5,659 ac)	0	0	86	260
% of Acres	0%	0%	1.5%	4.5%
Upper Rock Creek (3,295 ac)	87	0	87	0
% of Acres	2.6%	0%	2.6%	0%
All Aquatic Anchors (30,900 ac)	511	0	2,052	1,634
% of Acres	1.7%	0%	6.6%	5.2%

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

## Summary of Timber Harvest Operations by Basin

In the following section, the harvest operations planned for FY19 will be summarized in the context of the eleven management basins on the Forest Grove District. ODF and ODFW resource specialists reviewed the FY19 AOP and provided input. Individual pre-operation reports include information regarding riparian protection and structural components such as snags, down wood, and green tree retention. Since the Forest Management Plan strategies provide standards for these components, they are not discussed in the summary. Road concerns 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.

Basin	2019	AOP
Dasiii	Partial Cut	Clearcut
Bell Mountain	0	0
Isolated Tracts	0	0
Gales Creek	0	152
Larch Mountain	0	0
McGregor	0	88
Rogers	0	233
Scoggins Creek	0	0
Sunday Creek	0	102
Upper Salmonberry	0	229
Wheeler	0	423
Wilark	0	0

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

## Bell Mountain Basin

No harvest operation is planned for this basin.

### **Isolated Tracts Basin**

No harvest operation is planned for this basin.

## **Gales Creek Basin**

<u>Likely Storey</u>: This is an 81 acre modified clearcut. The 67 year-old Douglas-fir stands within this sale contain minor amounts of noble fir, western hemlock and western red cedar and are currently classified as Understory stands. The Desired Future Condition for the sale is for non-complex stands. Following the harvest, the unit will be reforested with Douglas-fir, western hemlock and noble fir seedlings.

Streams within this sale flow into Gales Creek.

No new road construction is planned with this sale.

This sale is located within the Middle Drift Creek Northern Spotted Owl site. The NWOA biologist has prepared a biological assessment for this proposed sale. The assessment was reviewed by the US Fish and Wildlife service and they determined that the sale was a low risk.

<u>Cat's Pajamas</u>: This is a 71 acre modified clearcut containing 85 year-old Douglas-fir. This sale has a current stand condition of Understory with a Desired Future Condition of non-complex stands. The unit will be planted with a mixture of Douglas-fir, western hemlock, grand fir and western red cedar seedlings after the completion of the harvest.

A small spur road will be constructed to aid in the harvest. Transmission lines run through this sale and will require extra consideration during sale layout and harvesting.

## Larch Mountain Basin

No harvest operation is planned for this basin.

## McGregor Basin

<u>Sunset Rest</u>: This is an 88 acre modified clearcut. The 70 year-old Douglas-fir and western hemlock stands contain the root disease *Phellinus weirri*. The sale has a current stand condition of Layered and Understory. The Desired Future Condition for the sale is for non-complex stands. A root disease survey will be completed before the sale is reforested. Following the completion of harvest, western hemlock and western red cedar seedlings will be planted. Douglas-fir seedlings may be planted in areas where there is no known root disease.

Streams within this sale flow into the South Fork of Rock Creek. This sale is located within the Upper Rock Creek Aquatic Anchor (AA). The small, perennial, non-fish bearing streams within the sale will be protected with 50 foot no harvest buffers. The small and medium fish bearing streams will be protected with a 100 foot no harvest buffer as per AA strategies.

Approximately 0.7 miles of new road will be constructed to harvest this sale. This road will remain open to facilitate reforestation activities and will then be evaluated for closing.

Transmission lines run through this sale and will require extra consideration during sale layout and harvesting.

## Rogers Basin

<u>BD7</u>: This is a two unit modified clearcut totaling 150 acres. The Douglas-fir stands within this sale range from 56 to 68 years-old and are currently classified as Layered (Unit 1) and Understory (Unit 2). The Desired Future Condition for both Units is for non-complex stands. A *Phellinus weirri* survey will be completed before the sale is reforested. Following the harvest, western hemlock and western red cedar seedlings will be planted. Douglas-fir seedlings may be planted in areas where there is no known root disease.

Streams within this sale flow into the South Fork of the Wilson River.

Less than 1 mile of new road construction will be needed to harvest these two units. These roads will remain open to facilitate reforestation activities, however, a gate will be installed on the BD7 spur to prevent potential garbage dumping.

<u>Duchess and the Duke</u>: This is an 83 acre modified clearcut. The Douglas-fir trees within this sale range in age from 63 to 69 years-old. The stands are currently classified as Understory. The Desired Future Condition of the sale is for non-complex stands. The unit will be reforested with a mixture of Douglas-fir, western hemlock and western red cedar seedlings following the completion of harvest.

Streams within this sale flow into the South Fork of the Wilson River.

Approximately 0.5 miles of road will be constructed to harvest this sale. These roads will remain open to facilitate reforestation activities and then be evaluated for vacating.

<u>Power Trip (ALT):</u> This is a 70 acre modified clearcut. The sale unit is made up of 63 year-old Douglas-fir trees. The stands within this sale are currently classified as Understory with a

Desired Future condition of non-complex stands. Following the completion of harvest, the unit will be planted with a mixture of Douglas-fir and western hemlock seedlings.

Streams within the sale flow into a tributary of the South Fork of the Wilson River.

Approximately 0.14 miles of road will be constructed to aid in the harvest of this unit. Over 2 miles of road will be improved in conjunction with this sale.

## Scoggins Creek Basin

No harvest operation is planned within this basin.

## Sunday Creek Basin

<u>Florade:</u> This is a 102 acre modified clearcut consisting of a 67 year-old Douglas-fir stand. The stand is currently classified as Understory with a Desired Future Condition of non-complex stands. Following harvest, a mixture of Douglas-fir, western hemlock and noble fir seedlings will be planted.

Streams within the sale flow into Maple Creek.

Approximately 2.23 miles of road will be improved in conjunction with this sale.

<u>Willy-nilly (ALT):</u> This is a two unit modified clearcut totaling 190 acres. The mixed conifer trees within this sale range in age from 61 to 68 years. The current stand condition is classified as Understory. The Desired Future Condition of both harvest units is for non-complex stands. Following harvest, both units will be planted with a mixture of Douglas-fir and western hemlock seedlings.

Streams within this sale flow into the Middle Fork of the North Fork of the Trask River and the North Fork of the North Fork of the Trask River.

A little over a half mile of new spur road will be constructed to facilitate the harvest. These roads will remain open during reforestation activities and will be evaluated for closure when reforestation is complete.

## Upper Salmonberry Basin

<u>Nor Sam</u>: This is a three unit modified clearcut totaling 114 acres. The mixed conifer stands within this sale are between 60 and 64 years-old. The current stand condition of these units is classified as Understory. The Desired Future Condition of all three units is for non-complex stands. Units 1 and 2 will be planted with a mixture of Douglas-fir, western hemlock and western red cedar seedlings while Unit 3 will be planted with a mixture of Douglas-fir, western hemlock and hemlock and noble fir seedlings following the completion of harvest.

Streams within this sale flow into the North Fork Salmonberry River.

Less than one half mile of new spur road will be constructed to aid in harvesting. These roads will remain open to facilitate reforestation activities and will be evaluated for closure upon completion.

<u>Pretty Penny</u>: This is a two unit modified clearcut totaling 115 acres. The mixed conifer trees within these units are between 77 to 80 years-old. The current stand condition of the harvest is classified as Understory with a small component (6 acres) of Layered. The Desired Future Condition for both units is for non-complex stands. Both units will be planted with a mixture of Douglas-fir, western hemlock and noble fir seedlings following harvest.

Streams within this sale flow into Pennoyer Creek and the Salmonberry River.

No new road construction is needed for this sale.

<u>Sloopy (ALT):</u> This is a 69 acre modified clearcut. The mixed conifer stands within this sale are 79 years-old. The current stand condition is Understory. The unit has a Desired Future Condition of non-complex stands. The unit will be planted with a mixture of Douglas-fir and western hemlock seedlings following harvest.

Streams within this sale flow into the Salmonberry River.

No new road construction is needed for this sale.

## Wheeler Basin

<u>Back Track (ALT):</u> This is a 108 acre modified clearcut. The Douglas-fir stands range in age from 68 to 75 years-old. The current stand condition for the majority of the stands that make up this sale is Understory with 27 acres classified as Layered. The Desired Future Condition for the entire sale is for non-complex stands. The sale will be replanted following the harvest with a mixture of Douglas-fir, western hemlock and noble fir seedlings.

This sale is located within the Lousignont Creek/Upper Nehalem River Aquatic Anchor (AA). The small, perennial, non-fish bearing streams within the sale will be protected with 50 foot no harvest buffers. The small and medium fish bearing streams will be protected with a 100 foot no harvest buffer as per AA strategies.

Less than a mile of new road will be constructed to help facilitate the harvest. Approximately 0.6 miles of road will be improved in conjunction with this sale.

<u>Big Louie:</u> This is a 90 acre modified clearcut. The Douglas-fir stand is 91 years-old. The current stand condition is Understory while the Desired Future Condition is for non-complex stands. The unit will be planted with a mixture of Douglas-fir, western hemlock and western red cedar seedlings following harvest.

Streams within the sale flow into Lousignont Creek. This sale is located within the Lousignont Creek/Upper Nehalem River Aquatic Anchor (AA). The small, perennial, non-fish bearing streams within the sale will be protected with 50 foot no harvest buffers. The large fish bearing stream will be protected with a 100 foot no harvest buffer as per AA strategies.

Approximately 0.4 miles of road will be constructed to facilitate the harvest. Approximately 1.7 miles of roads will be improved in conjunction with this sale.

<u>Hanns Down</u>: This is a 104 acre modified clearcut. The Douglas-fir trees within this operation are 89 years-old. The current stand condition is Understory with a 3 acre component of

Layered. The Desired Future Condition of this unit is for non-complex stands. Following harvest, the unit will be planted with a mixture of Douglas-fir and western hemlock seedlings.

Streams within this sale flow into Derby Creek and the Nehalem River. This sale is located within the Lousignont Creek/Upper Nehalem River Aquatic Anchor (AA). The small, perennial, non-fish bearing streams within the sale will be protected with 50 foot no harvest buffers. The large and medium fish bearing streams will be protected with a 100 foot no harvest buffer as per AA strategies.

No new road construction is needed for this sale. Approximately 2.7 miles of road will be improved in conjunction with this sale.

Lou's Leftovers: This is a 4 unit modified clearcut totaling 133 acres. The mixed conifer stands range in age from 68 to 84 years-old. All 4 units are currently classified as Understory with a Desired Future Condition of non-complex stands. All four units will be planted with a mixture of Douglas-fir, western hemlock, western red cedar and grand fir following harvest.

Streams flow into the North Fork Lousignont River. This sale is located within the Lousignont Creek/Upper Nehalem River Aquatic Anchor (AA). The small, perennial, non-fish bearing streams within the sale will be protected with 50 foot no harvest buffers. The small fish bearing streams will be protected with a 100 foot no harvest buffer as per AA strategies.

No new road construction is needed for this sale.

<u>More Cow Bell</u>: This is a 96 acre modified clearcut. The mixed conifer stands within this sale range in age from 68 to 84 years-old. The majority of the stands are currently classified as Understory with 22 acres classified as Layered. The Desired Future Condition of the stands is harvest unit for non-complex stands. Following harvest, the unit will be replanted with a mixture of Douglas-fir, western hemlock and noble fir seedlings.

The Raven Ridge mountain bike trail is located along the southern edge of the harvest unit. The district marketing unit will work closely with the recreation unit to minimize disruptions to the trail.

This sale is located within the Lousignont Creek/Upper Nehalem River Aquatic Anchor (AA). The small, perennial, non-fish bearing streams within the sale will be protected with 50 foot no harvest buffers. The small fish bearing streams will be protected with a 100 foot no harvest buffer as per AA strategies.

Approximately 1.1 miles of new road will be constructed to facilitate this harvest. These roads will be evaluated for closure or vacating after reforestation activities are complete.

## Wilark Basin

<u>Star Date 2020 (ALT)</u>: This is a 94 acre modified clearcut. This stand consists of 78 year-old mixed conifers. The current stand condition is Understory with a Desired Future Condition of non-complex stands. The sale will be replanted with a mixture of Douglas-fir and western hemlock seedlings following harvest.

No new roads are needed for this sale. Approximately 0.9 miles of road will be improved in conjunction with this sale.

## Forest Roads Management

## Overview

The district's primary road network is an established system that has been in place for over twenty years. It provides access for forest management activities, fire suppression, and recreation. Visions, guiding principles, and goals for managing the district's road network are discussed in the *Northwest Oregon State Forests Management Plan* (April 2010) and the *State Forest Roads Manual* (July 2000). The *State Forest Roads Manual* also provides standards and guidance for all road management activities and definitions, road classifications and other terms.

The district's total road system consists of mostly collectors and spurs; in total approximately 755 miles of mostly single-lane roads with turnouts. Many of the district's main roads (collectors) were originally built as railroads and then converted to truck roads in the 1940s and 1950s to standards considerably less stringent than those applied today. These roads were originally often constructed with inadequate drainage systems, poor surfacing, and little regard for slope stability and fish passage. Most of these roads have been upgraded and now have rock surfacing, and improved width and alignment. There are still a few roads that are a legacy from those earlier decades and need improvement, access restriction, or vacating.

Road drainage structure improvement continues district wide. The district is in the process of inventorying all road culverts; 725 miles have been inventoried. The culvert inventory will help identify such issues as maintenance needs, undersized culverts, and connected ditchlines. A connected ditchline is where ditch water flows directly into streams, resulting in increased sediment. Cross drain culverts are installed just before stream crossing culverts and direct water onto the forest floor away from live streams.

Almost all of the road work in this AOP is related to constructing spur roads and for improving haul routes for the FY19 timber sales. In addition, the District road crew will be maintaining roads not used for timber sales. Timber sale associated road work is summarized in the Forest Roads Summary Table A-3.

Identification and control of invasive weeds, mostly scotch broom, is a priority during this fiscal year. The District has been inspecting roads for presence and severity of scotch broom on District roads as limited resources are available.

Under this plan, 3.9 miles of road will be constructed, and 20.4 miles of road will be improved. Of the roads to be improved, all are collector or spur roads that are part of the existing road system and will be improved to maintain current road standards.

## **Road Construction**

Road construction and improvement identified in this plan will be primarily achieved through project work connected with timber sales.

There are 3.9 miles of new rocked construction in the AOP. Construction costs are estimated at \$352,200. Most of these spur roads will be constructed on gentle slopes. New LiDAR based slope information was helpful in locating roads away from locally steep slopes.

## **Road Improvement**

Approximately 20.4 miles of road will be improved as part of the FY19 primary timber sales.

The majority of this improvement work will be performed on collector and spur roads and will consist of installing new cross drains and disconnect culverts, replacing culverts, ditchline improvements, and new surfacing. Improvement costs are estimated at \$1,106,600.

## **Road Access Management**

Approximately 3.1 miles of road will be vacated or blocked as part of timber sales in this years' AOP. Upon completion of logging, 2.7 miles of rocked roads will be blocked and 0.4 miles of dirt roads will be blocked. Roads continue to be planned to reduce conflicts with recreational uses, and keeping the correct users on the correct road or trail, reducing conflicts when trails cross or use roads. Upon completion of Reforestation activities, additional roads will be evaluated for closure.

Total road vacating and blocking projects are estimated at \$8,400.

## **Road Maintenance**

Roads will be maintained as necessary to protect water quality and the road system asset value. Road maintenance activities will follow the maintenance guidance in Chapter 7 of the Forest Roads Manual and the Forest Practices rules. Road maintenance is accomplished under timber sale contracts for roads used for hauling forest products, and using the district road crew for all other roads. Maintenance is focused on ensuring proper drainage to prevent sediment entering streams. After this, roads are graded to allow efficient forest management and where needed, recreation. Collector roads and roads in active sale areas need and get the most maintenance. District personnel respond to heavy storms and thaw periods by performing road inspections, additional maintenance, and where necessary, stopping heavy truck use during periods when roads cannot handle traffic without damage to water quality or the road asset.

## Management of Rock Source/Supply

Forest Grove provides durable rock for in-sale spurs and haul routes which allows for yearround harvest opportunities. Forest Grove has numerous rock pits and stockpiles of varying quality spread across the District.

Rock Type	Total # on District	# of Rock Sources in FY19	Approximate Total Volume in FY19 (cubic yards)
Durable Crushed Rock Pits	8	4	59,000
Marginal Crushed Rock Pits	4	2	8,000
Diggable Pit-run Rock Pits	15	1	5,000
Stockpiles	15	6	18,000
Purchase			0

Overburden removal, drilling, and blasting are required in all of the Durable and Marginal Crushed Rock Pits to be used in FY19.

A 20,000 cubic yard stockpile will be crushed with a Work Order Contract to provide rock for future timber sales and maintenance rock. Cat's Pajamas will crush a 5,800 cubic yard stockpile to replace a depleting stockpile used for maintenance rock on numerous active timber sales in the area.

Annually, the District requires between 4,000 to 8,000 cubic yards of crushed rock stockpiles for appraised road maintenance work. The District will continue to explore new rock sources and further development of existing rock pits in FY19.

## Land Surveying

For the FY19 AOP, the following property line surveys are required for Lou's Leftovers and Sunset Rest. Approximately 0.85 miles of property line and 3 property corners are planned to be re-witnessed at an estimate cost of \$15,300.00.

## **Young Stand Management**

The district's strategy is to use 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 Forest Grove District Implementation Plan. These tools include site preparation, planting, animal damage control, vegetation management, pre-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 and anticipated amounts of reforestation and young stand management activities that will occur in FY19. Also refer to the attached Young Stand Management Table (Appendix A, Table A-4) for further details. 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 2018 growing season.

Reforestation activities will be completed by using experienced contractors. Also, a portion of the activities will be completed by utilizing inmate crews from South Fork Camp. South Fork Camp is a correctional facility that has joined in a cooperative effort between the Department of Corrections and Oregon Department of Forestry located west of Forest Grove near Highway 6. These crews work on such activities as, planting, inter-planting, tree protection, mechanical hand release, and noxious weed control.

## **Site Preparation**

These activities prepare the planting sites so new stands can be effectively established. Treatments include slash burning, mechanical site preparation, and chemical treatments.

- 1) <u>Pile Burning</u>: Harvest units completed in 2017 and 2018 will be considered for burning of landings and piles to reduce fire hazard and create additional planting spots within the units. Post-harvest assessments will determine the actual necessity to burn.
- 2) <u>Mechanical Site Preparation</u>: There are 6 units that may need some amount of mechanical site preparation, up to 195 acres, which is included in the timber sale contract. The scheduled units are My Mulligan, Mega Lou Mania, Josey Gales, Boxcar Willie, Camp View, and Woods Way. Portions of the units have relatively gentle terrain that can be accessed by equipment to accomplish site preparation without causing significant soil compaction.

Mechanical site preparation may include slash manipulation or piling and reduction of competing vegetation. It is utilized where slopes are less than 35%, brush and/or harvesting debris prevent the planting and establishment of the desired number of trees per acre and burning is either more costly or impractical due to poor control boundaries or smoke management restrictions. Planting spots are created in a fairly even distribution.

3) <u>Chemical Site Preparation</u>: This method of site preparation is used when it is found to be the most cost effective method to control vegetation that would severely impact the survival and growth of newly planted seedlings. The objective is to control brush species to allow stand establishment and maintain 2-3 years free of significant competing vegetation. The current estimate is for approximately 1150 acres. The actual site preparation plan will be prepared in late spring when harvest unit availability and brush development is better known. Approximately 90% of the chemical site preparation will be completed by helicopter spraying, while 10% will be done using ground base methods where aerial application is not cost effective or to protect adjacent ownership or specific resources (i.e. water).

## Seedlings / Nurseries

In order 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. The Reforestation Unit is responsible for determining the appropriate species and stock type to meet management objectives. The tree seedlings will be grown at five nurseries and compose of 55% bare root and 45% plug stock for planting in FY19. The majority of the species will be 70% Douglas fir while approximately 30% will be comprised of western hemlock, western red cedar, grand fir, and noble fir. The district scheduled 560,000 seedlings to be planted in FY19.

## Planting

Initial Planting: Planting activities establish the desired species and stocking levels to meet the goals in the Forest Management Plan. Seedlings are planted in modified clearcuts, areas that have had *Phellinus weirii* treatment, and stands where current stocking does not meet Forest Management Plan goals.

 Initial Planting (Clearcut Units): There are an estimated 1200 acres that will be planted during FY19. All of these sites will be planted to allow for the establishment of stands that can be managed to provide complex structure. A mix of transplant and plug Douglas-fir seedlings will compose 70%-85% of the planting stock on these sites where root rot is not a concern. Other native species will be selected and either mixed with the Douglas-fir or planted on micro sites for which they are best suited. These species include noble fir, grand fir, western hemlock, and western red cedar plug stock. Where root rot is a concern resistant and immune species will be planted such as, western red cedar and western hemlock. The objective of planting a variety of species is to create a healthy and diverse stand by placing tree species on sites for which they are well adapted and where they will experience a high rate of survival and growth. The majority of the planting will be completed by contractors, while approximately 15-20% will be done by utilizing South Fork inmate crews.

- 2) <u>Interplanting</u>: The interplanting objective is to raise stocking in young plantations that are below acceptable levels, to a minimum of 300 trees per acre. Surveys are conducted one and two years after initial planting to determine interplanting needs. Where necessary, interplanting is done the following winter. During the spring and fall of 2018, surveys will be conducted to determine interplanting needs for the 2019 planting season. The current estimate is 150 acres, based on historical averages. Approximately half of the project will be done by utilizing South Fork inmate crews, while the other portion will be done by contractors.
- 3) <u>Underplanting</u>: None planned in FY19.

## Vegetation Management

Vegetation management is done to reduce light or moisture competition in a young stand of trees to improve survival and growth. Vegetation management may be required to meet forest practices reforestation stocking requirements, the NW Oregon State Forests Management Plan and the Forest Grove District Implementation Plan.

Vegetation management can be categorized as manual cutting, aerial application of herbicides, and ground-based application of herbicides. Each method is tailored to the location and vegetation control needs and all three are valuable tools used to manage vegetation in young stands. For noxious weed control, ground based application of herbicides will be the most effective and common treatment, although manual cutting is also used in some circumstances.

Emphasis is being put on site preparation and planting the first season following timber harvest, resulting in better performance of trees in planted units, a reduced need for follow-up interplanting or vegetation management, and the opportunity for diverse vegetation to develop along with planted trees. Plantations will be evaluated during the spring and summer of 2018 to determine treatment needs for FY19.

<u>Manual</u>: The current estimate is 150 acres, based on historical averages. This work will be accomplished by utilizing South Fork inmate crews.

<u>Chemical</u>: The current estimate is 350 acres. Any areas that show development of unacceptable levels of competing vegetation will either be treated by helicopter or on the ground by hand.

## **Tree Protection**

Deer and elk, as well as mountain beaver, can heavily damage young stands and prevent meeting Forest Management Plan goals. 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 are to help prevent damage from big game. Also, trapping mountain beaver in highly populated areas prior to planting helps prevent damage to newly planted trees.

Approximately 25 acres of new tube installation and maintenance will be required with the FY19 planting for protection of western red cedar. The bulk of this is located in micro-sites well suited to cedar or in pockets of *Phellinus weirii* (root disease) delineated in harvest units. Bud capping will be required on approximately 175 acres where heavy populations of big game are present. The need for mountain beaver trapping has been projected on approximately 700 acres. Heavy populations are being trapped in harvest units prior to planting. The majority of this work will be accomplished by utilizing South Fork inmate crews.

## Pre-commercial Thinning

Although there is a back log of 450 acres, no PCT is scheduled for the FY19 AOP due to budget constraints. The district will survey and evaluate potential stands for pre-commercial thinning needs over the fiscal year. It is anticipated there will be an additional 200 acres for FY20.

## **Fertilization**

Budget constraints in FY19 eliminate the consideration of any fertilization.

## Pruning

No pruning is planned for FY19 beyond W. white pine for disease prevention of blister rust. Approximately 40 acres are anticipated. This work will be accomplished by utilizing South Fork inmate crews.

## **Invasive Species**

Reforestation continues to work with the Marketing, Forest Roads, and Recreation Units 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. Funding is limited. Two harvest units are scheduled for site preparation herbicide treatment as a preventive measure to inhibit the invasion of scotch broom. They are Gales 80 and portions of Nehalem Breaks, totaling 160 acres.

## **Roadside Spraying**

Reforestation works with Forest Roads on the management of vegetation on the districts 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 spraying using herbicides is one of the tools used to manage unwanted vegetation along roads ways. During the spring 2018, roadside vegetation surveys will be conducted to determine roadside

treatment needs for FY19. The current estimate is 200 miles, based on historical averages. The project will be done by utilizing experienced contractors.

## Stocking Surveys

The Reforestation Unit has the responsibility of ensuring that the goals of the Forest Management Plan are met. Stocking surveys is one of the tools to ensure the stands are on track for the desired future condition. The surveys are done in order to check initial plantation survival at a time when the seedlings are vulnerable and there is still time to remedy problems, such as interplanting and animal damage control measures. In addition, stocking surveys are conducted in order 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.

Approximately 2,500 acres of stocking surveys are planned during the fall on young stands.

## **Recreation Management**

## **Overview of Recreation Management**

Recreation use has been taking place on the Tillamook State Forest and the Forest Grove District for more than 60 years and has been managed in varying degrees since the 1960s. Currently the direction for management of the Recreation program flows from the Northwest Oregon State Forest Management Plan (2001), the Tillamook State Forest Comprehensive Management Plan (1993), and the Recreation Action Plan 2000 (2001). Budget levels remain static and Agency focus continues to be on maintaining existing infrastructure and opportunities.

## Planned Activities for FY 2019

## Facilities

The Forest Grove District plans to operate and maintain the following developed facilities:

- 5 campgrounds
- 2 day use picnic areas
- 2 highway wayside interpretive sites
- 12 trailhead facilities

All developed facilities will be operated and maintained in good working order and will be kept clean and safe for public use and managed to minimize user conflict and to avoid adversely impacting the resource. The operating season for developed campground facilities will remain consistent with the FY2018 operating season.

## **Dispersed Use**

Each year, a high amount of dispersed recreation use occurs across the Tillamook State Forest. Most of this use is associated with recreation activities such as hunting, camping, angling, sight-seeing, target shooting, swimming, and mushroom picking. Most of these activities take place at specific dispersed use sites. These activities are expected to continue in FY 2019 and will require varying degrees of District staff attention. Dispersed use sites will be monitored, maintained, and improved as resources allow, to meet safety, sanitation, and resource protection objectives.

See Table 6 below for developed and dispersed facility maintenance and improvement projects planned for FY2019.

Project	Project	Work	Project
Type Name		Resources	Description
Facility Improvement	Bollard barrier replacement	District staff / South Fork / Contractor	Project work will involve replacing broken and failing bollard barriers at Gales Creek Campground and Reehers Camp
Facility Improvement	Grey water drain replacement	District staff / South Fork / Contractor	Project work will involve replacing old grey water drains at Gales Creek Campground.
Target Shooting Lane Development	Clear Creek Alley Target Shooting Lane Development	District staff / Volunteers / District Road Crew / South Fork	This project will create three to four target shooting lanes that will accommodate 50, 100, 200 yard shots and potentially shots up to 400 yards long.
Facility Maintenance	Campground weed/invasive species spray project	District staff / Contractor / South Fork	Complete weed and invasive species control work at Browns Camp, Stagecoach Horsecamp, Reehers Camp, and Gales Creek Campground.
Dispersed Site Improvement	Wilson River Dispersed Site Improvement	District Staff (Recreation, Protection. Roads) and Resource Specialists	Project work will involve improvement at one or two sites depending on funding and crew capacity.

Table 6. Developed and Dispersed Facility Projects

## **OHV Trails**

The District will continue to place emphasis on maintenance and upgrade of existing trails, development of partnerships to increase our capacity to manage the trail network, and on upgrading and improving the designated OHV trail network in an effort to better connect the trail system, protect forest resources, re-establish trails after timber harvest, move trail users off the mainline haul and public use roads, reduce trail congestion and the potential for conflict between trail users, improve user safety, improve maintenance efficiency, and reduce infrastructure investments and maintenance workload. Due to trail maintenance needs, winter weather limitations, and fire season restrictions, some project work from FY2018 is expected to extend into FY2019. FY2019 OHV trail projects are identified and briefly described in the following table (Table 7).

Table 7. OHV Trail Projects

Project	Project	Project	Work	Project
Туре	Name	Mileage	Resources	Description
Trail Bridge Replacement	Elliott Creek Trail Bridge Replacement	NA	District Staff / ODF Equipment Operators / Volunteers	Project work will involve dismantling of a failing 8 log stringer bridge and construction of a new 45 foot long glu-lam stringer bridge. This project addresses user safety, user accommodation, investment protection, trail system sustainability and resource protection issues.
Trail System Improvement	Elliott Creek Trail Reroute	1 mile	District Staff / ODF Equipment Operators / Volunteers / Resource Specialists	This project will involve construction of a 1 mile long reroute to improve trail sustainability, improve trail flow, and reduce maintenance need. Project work will also vacate 1/3 of a mile of old trail.
Trail System Improvement	Cedar Tree Trail Extension	1 mile	District Staff / ODF Equipment Operators / Volunteers /Resource Specialists	This project will involve construction of a 1 mile segment of trail that will connect Cedar Tree Trail with Firebreak Five Trail. This project addresses user safety, user conflict, and trail system connectivity issues,
Trail System Improvement	Powerline Trail Reroute	2.2 miles	District Staff / ODF Equipment Operators / Volunteers / Resource Specialists	This project will involve construction of 2.2 miles of new trail that will reroute OHV use off of the Powerline Access Road. Work would be done in three phases and will extend into FY2020. This project addresses user safety, conflict associated with using the BPA Powerline Access Road and better accommodates OHV use.

## **Non-motorized Trails**

The District will be focused on making improvements to existing non-motorized trails to address user safety, resource protection, investment protection, sustainability, and user accommodation. Due to trail and facility maintenance needs and South Fork and District staff capacity, some project work from FY2018 will extend into FY2019. FY2019 non-motorized trail projects are identified and described in the following table (Table 8)

	Table 6. Non-Motorized Trail Frojects						
Project	Project	Project	Work	Project			
Туре	Name	Mileage	Resources	Description			
Trail Improvement	Nels Rogers Trail Reroute	¼ to ½ mile	District Staff and South Fork	This project will involve construction of a ¼ to ½ mile long reroute to eliminate chronic maintenance issues, improve trail flow and sustainability, and reduce trail bridge infrastructure,			
Trail Improvement / Emergency Services Support	Wilson River Trail / Elk Creek Trail	4 miles	District Staff, Resource Specialists, and South Fork	This project will involve widening sections of these trails to help facilitate ATV access for search and rescue personnel that are responding to incidents on the Elk Mountain and Kings Mountain Trails.			

## Table 8. Non-Motorized Trail Projects

## Trail Maintenance (OHV and Non-motorized)

Maintenance of existing trails remains our 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 activity includes the completion of trail condition assessments on all trails, development of maintenance strategies, and completion of maintenance work. Basic trail maintenance work typically involves cleaning water bars and rolling dips, cleaning out culverts, trail tread work, cleaning trail bridges, clearing downed trees, brushing, and sign replacement. Heavy trail maintenance work, which typically results from winter storms, includes repairing trail bridges, reestablishing trail tread in slide or washout areas, rebuilding stream ford crossings, clearing and logout work associated with heavy concentrations of downed trees, and rerouting trails due to slides, washouts, or safety issues.

The District expects to complete condition assessments and trail clearing maintenance on all trails (117 miles OHV and 66 miles non-motorized) and will complete user safety and resource protection maintenance as needed. Other basic trail maintenance work is completed on most trails every two or three years. Approximately 30% to 40% of the network will receive basic trail maintenance attention in FY 2019.

## Volunteer Program and Partnerships

The recruitment and use of volunteers is critical to the overall success of the recreation program. The district currently manages a Volunteer Program that includes the following recreation oriented sub-programs:

Camp Host	Trail Maintenance and Construction Work Parties
Adopt a Trail	OHV Trail Equipment Volunteer Operator
Forest Clean-up	Trail Patrol

Activities associated with the volunteer program will include the recruitment, selection, and management of campground hosts; planning and management of trail maintenance, trail development, and special volunteer projects; facilitation of Adopt a Trail program activities; and management of the Tillamook State Forest Volunteer Trail Patrol program. The Recreation Unit anticipates facilitating between 4,000 to 5,000 hours of volunteer contribution in FY2019.

District staff are also involved in revising and updating the ODF Volunteer Program Manual. This work will extend into FY2019.

ODF and the district 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.

## Event Management

The Forest Grove district permits organized sponsored trail use events. Both motorized and non-motorized trail events are held on the district. The events consist of poker runs (fun runs), competitive timed motorcycle races, trials motorcycle competitions, and four-wheel drive rallies. Other events, such as equestrian poker rides, mountain bike races, running races, and archery events are scheduled less frequently. Non-motorized events will be evaluated to determine if the District has the capacity to support proposed event activities. In FY 2019 the district expects

to review, permit, and administer 8 to 10 motorized trail events and 2 non-motorized trail events. Motorized events for FY 2019 were scheduled at a meeting in October 2017. There are no plans to pre-schedule FY 2019 non-motorized events.

## Grants

The Recreation Unit expects to apply for and administer several grants in FY2019 to support project and program activity.

- ATV and RTP grants to support purchase of OHV trail maintenance equipment. (Administration and Application)
- RTP grant to support trail bridge replacement and development projects (Administration)
- Land and Water Conservation and RTP grants to support expansion of Kings Mountain Trailhead. (Application and Administration).
- Washington County Visitor Association Grant to support trail bridge replacement on the Low Divide Loop Trail. (Administration)

The Recreation Unit is also partnering with clubs and organizations that will be submitting grant applications to advance Recreation program work on the Tillamook State Forest.

## Target Shooting

The district will continue to work on implementing a target shooting management strategy, in collaboration with our partners and the target shooting community that will:

- Resolve the safety, sanitation, and environmental issues
- Reduce the fire potential associated with target shooting
- Develop public ownership and involvement in the development and implementation of the strategy.
- Maintain safe and sustainable opportunities for recreational target shooting on the TSF

In FY2019, development of additional target shooting lanes and closure of unsafe target shooting sites will flow from this work.

## **Unplanned Activities**

The activities above represent project and program work items for the fiscal year. However, the Agency often receives requests from non-profit and commercial businesses to utilize the forest for their trail use events or business ventures. Any new requests beyond the above described workload will be reviewed and evaluated based on the following criteria, to determine whether or not the request will be permitted:

- Safety
- Risk of environmental damage
- Risk of trail and facility impacts
- Conflict with other forest users

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- Conflict with other forest management activity
- Contributions to social, environmental, and economic goals
- Contribution to forest management plan goals
- Risk of fire
- Impacts on law enforcement
- Staff workload
- Opportunity for new partnerships and increased program capacity

## **Other Integrated Forest Management Projects**

### Aquatic Habitat Improvement

The Forest Grove District's distinguishing geographic feature is its location in relation to the Coast Range divide. About one-half of the district land base drains to the Pacific Ocean and the other half flows to the Willamette River. Five rivers originate within the district. These include the Nehalem River, Salmonberry River, Wilson River, Tualatin River, and the North Fork Trask River. In addition, nine important tributaries feed into these rivers from within the district: Wolf Creek, North Fork Wolf Creek, Lousignont Creek, North Fork Salmonberry, Gales Creek, Devils Lake Fork, South Fork Wilson, Scoggins Creek, and the North Fork of the North Fork Trask River.

Barney Reservoir lies at the district's southern end and is mostly surrounded by state forest land. Covering approximately 450 acres and with a capacity of 20,000 acre-feet, this reservoir supplies water to much of Washington County.

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. Aquatic Anchors have been established on 6 watersheds in which additional aquatic conservation measures are applied. The Aquatic Anchors include: Upper Rock Creek, Lousignont Creek/Upper Nehalem River, South Fork Salmonberry, Devils Lake Fork Wilson River, Elkhorn Creek and Ben Smith Creek.

<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. Fish distribution information varies across the district. Many streams have been surveyed with electro-fishing techniques that established the upper extent of fish use. However many very small streams have not yet been surveyed for fish presence. Streams in the AOP will be evaluated with a Physical Habitat Survey. The physical 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>Aquatic and Riparian Conditions</u>: Watershed assessments have been completed on 3 watersheds on this district. In addition the Oregon Department of Fish and Wildlife completed Fish Habitat Assessments and summarized the findings by district (ODFW 2005-2006). Limiting factors have largely been identified in the ODFW conservation strategy, the 2005 State of Oregon Coastal Coho Assessment (OCCA) (State of Oregon 2005), and ODF watershed analyses. Common limiting factors include: a lack of large wood in streams, increased fine

sediment in riffles, a lack of complex pool habitat, and a need for more off-channel habitat. The task during this AOP is to identify, design, and implement projects to address the limiting factors either through opportunistic projects (e.g. harvest units adjacent to streams that meet certain criteria) or through larger, multi-collaborator, diversely funded projects.

Restoration Goals and Identification Process: The overarching principles for fish habitat restoration are described in the Forest Management Plan. Landscape and site-specific strategies will improve levels of aquatic function in the short term to meet the immediate habitat needs of depressed species and place aquatic habitats on a trajectory toward desired conditions. At the same time actions are carried out to restore the ecological processes and functions that create and maintain self-sustaining habitats over the long term. Restoration strategies include completing assessments to identify limiting factors and identify, design, and implement projects to remedy identified problems. Projects should mimic natural process, use multidisciplinary approach, and consider site-specific as well as watershed scale processes and disturbance regimes. Projects will be designed to re-establish natural physical and biological processes. The district's approach to restoration planning is further refined in the Implementation Plan (Forest Grove District 2011 Implementation Plan, "Aquatic Resources -Stream Enhancement Projects", page 38). The types of projects in order of priority are: (1) Fish Passage, (2) Road Decommission or Hydrologic Disconnection, (3) Instream Habitat Projects, (4) Alternative Plans to Manage Riparian Areas, and (5) Beaver Relocation. More information on these project types and rationale for priorities is provided in the Forest Grove District IP.

Projects can be planned or implemented *opportunistically* (when operating near streams that would benefit from restoration efforts) or with a more complex and typically *larger scale* approach both of which will be evaluated for ecological benefits. All sales will be evaluated for the ability to do in stream habitat projects. Those projects with high benefit and relative lower costs, which are supported by ODFW, will be implemented as resources allow.

For the Forest Grove District the goals are to:

- Implement 2-5 collaborative projects over a 10-year period if resources and partners are available.
- Implement 2-3 opportunistic projects per year if resources are available.
- Contribute to fish passage improvement and hydrologic disconnection.

In the FY19 AOP, an initial screen by the ODF Aquatic and Riparian specialist and ODF road specialists have identified 1 stream within the Lou's Leftovers sale as a potential candidate for restoration projects.

Planned Projects within the FY 19 AOP:

- 21.3 miles of road will be improved. This includes installing additional cross drain culverts to hydrologically disconnect the roads from streams as possible.
- 1 fish passage issue will be further reviewed by ODF Aquatic and Riparian Specialist and District Staff.
- 1 stream enhancement project will be further reviewed by ODF Aquatic and Riparian Specialist and District Staff.

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

There are no active land exchange projects for this AOP.

## Law Enforcement and Public Safety

ODF and the Tillamook County Sheriff's Office (TCSO) partner to maintain 3 full time forest deputies that are funded through ATV grants and ODF dollars. Forest Grove District staff work closely with the forest deputies and Tillamook District staff to facilitate law enforcement activity on the district and across the Tillamook State Forest.

The forest deputies enforce state, federal, and forest recreation laws with an emphasis on ATV enforcement as they patrol the forest. Deputies also provide search and rescue services as needed. Fire laws pertinent to recreation use are enforced by county deputies, fire protection, and recreation staff. The forest deputies are essential to the success and overall management of the forest and their presence benefits all forest users.

Forest Grove District staff also work closely with the Washington County Sheriff's Office and Oregon State Patrol to support and facilitate law enforcement patrol, EMS, and search and rescue activities on the Tillamook State Forest in western Washington County.

## **Firewood Cutting Program**

The district administers an active public woodcutting program issuing between 2,000 and 3,000 permits annually, generating \$40,000 to \$60,000 in gross revenue. The Forest Grove District will continue to issue personal firewood cutting permits in the coming year for the entire district.

Where:

The entire district will be open to wood cutting as described on the permits **<u>except</u>** for areas shown on maps attached to permits. Areas excluded from wood cutting are sold timber sales, recreation sites, planned operations, ODOT right of way, etc. All of these areas are shown as cross hatch on the maps. The district is divided into four basins for the purpose of issuing firewood permits.

## When:

Permits will be issued for 3 week periods, during the months outside the fire season. Wood Cutting will be closed from July 1<sup>st</sup> until end of fire season.

## Who:

Personal firewood cutting permits will be issued with a limit of 5 permits per individual or household per 12 month period (fiscal year, July 1<sup>st</sup> – June 30<sup>th</sup>). Oregon Department of Forestry does not guarantee the quality or availability of wood when issuing firewood cutting permits. Permits will be sold and administered to employees under the same process as used by public.

## Permit Fee:

The permit cost is \$20 for 2 cords of firewood and is not transferrable to another party.

## **Non-Timber Forest Products**

Approximately 200 miscellaneous forest products permits are sold each year, mostly for salal and mushrooms, generating approximately \$20,000 in revenue. In addition, the district sells a small number of negotiated timber sales. These sales may be utilized for recovery of wind thrown trees, fire killed trees, or when an adjacent landowner needs to purchase right-of-way timber from the state in the event they have been granted permission to construct an access road across state ownership. These special sales usually generate revenues between \$80,000 and \$160,000 annually.

# <u>Planning</u>

Below are the significant district-level planning projects currently scheduled for commencement, completion, or both in FY19.

## Stand Level Inventory

During FY 19, Stand Level Inventory (SLI) is planned for 40 stands totaling approximately 4,097 acres.

## Fish and Wildlife Surveys

### Northern Spotted Owl Surveys

For FY19 AOP, the Forest Grove District will be using a density survey program, in order to effectively comply with federal and state Endangered Species Acts and to contribute to Forest Management Plan (FMP) goals. Survey requirements are determined in accordance with *ODF Northern Spotted Owl Operational Policies*, November 2017. Density surveys are accomplished with strategically placed calling stations throughout the district ownership which allows for complete survey coverage of all potentially suitable NSO habitat. Some scattered ownership parcels where no operations are planned may not be covered by the density surveys.

#### Marbled Murrelet Surveys

Most of the Forest Grove District is located within the Systematic Survey Zone (*ODF Marbled Murrelet Operational Policies*, July 2010), except for some ownership parcels in the Bell Mountain Management Basin, thus operational surveys for marbled murrelets will not be conducted for sales in the FY19 sale plan.

# Table 9. Summary of Biological Assessments for Threatened and Endangered Species

Operation	AOP	Species <sup>1</sup>	Survey	BA <sup>3</sup>	Special
	Year	(NSO/MM)	Years <sup>2</sup>	Required	Considerations
Likely Storey	2019	NSO	Density	Yes	

<sup>1</sup> Surveys are conducted according to accepted protocols when habitat for the specific species is determined to be present. NSO – northern spotted owl, MM – marbled murrelet.

<sup>2</sup> Years that surveys have been completed or are planned.

<sup>3</sup> A Biologic Assessment is required for this operation due to the presence of NSO or MM in the vicinity of the operation.

## **Research and Monitoring**

The Forest Grove District will assist in a variety of research and monitoring projects in FY19. Examples include:

- Red alder research areas.
- White Pine Blister Rust resistance studies.
- OSU research areas (commercial thinning and wildlife studies).
- Commercial thinning and *Phellinus weirii* research areas.
- Commercial thinning and Swiss Needle Cast study areas.
- Riparian zone functions study areas.
- Green tree retention and seedling growth demonstration areas.
- OSU Intensive Forest Management study.

## **Recreation Program Planning**

In FY2019, staff from the Recreation Unit will be participating in program planning work associated with the State Forest Division Business Improvement project focused on the Recreation, Education, and Interpretation (REI) programs. The objective of the project is to establish a sustainable financial and organizational structure that will support the REI programs, now and into the future, and that will position the programs to be able to meet the increasing demand, changing demographics and the evolving and expanding variety and diversity of recreation uses on state forest land.

## **Other Planning Operations**

Other planning activities will include road inventory updates and road closure opportunity plans.

## **Public Information and Education**

## Public Information and Involvement

Public information and involvement activities will include review and input regarding the FY98 Annual Operations Plan. In addition, public involvement activities concerning the Recreation program will include planning and facilitating Volunteer Trail Patrol meetings, participating and presenting at user group club meetings, and involving individuals or clubs in various district projects.

## **Public Education**

The district is involved in a variety of projects focused on informing and educating the public and interpreting the natural and cultural history of the Tillamook State Forest (TSF).

Associated activities will include:

- Maintenance of the Tillamook State Forest web page, the Tillamook State Forest Blog and recreation information phone line.
- Development of the TSF recreation brochure.

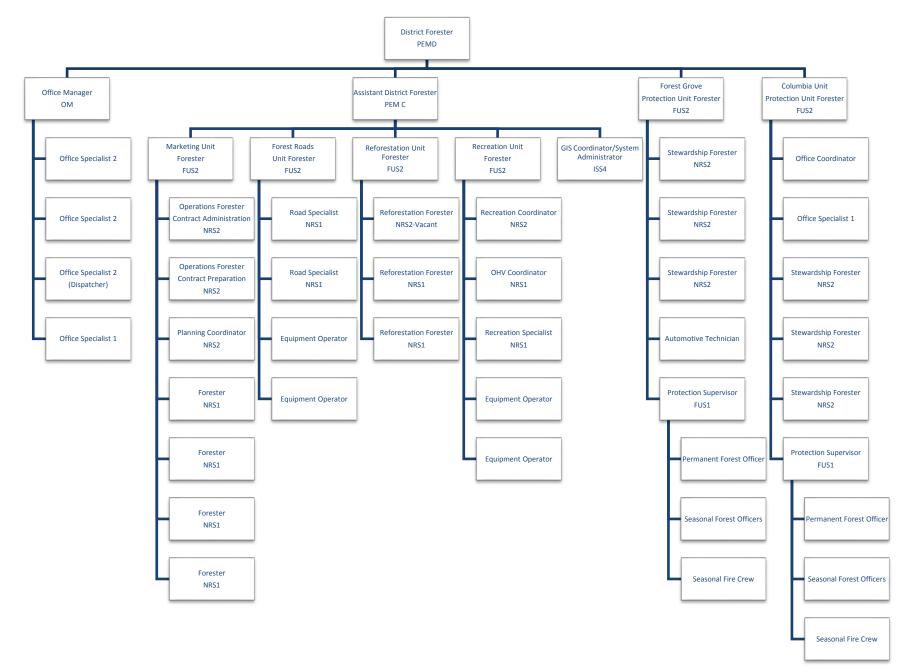
FOREST GROVE FY 2019 ANNUAL OPERATIONS PLAN APPROVED JUNE 2018

- Development of the TSF Visitor Map/Guide
- Development of information board messaging.
- Updating and reprinting OHV and Non-motorized trail brochures and guides.
- Development of press releases about Recreation program projects and recreation opportunities on the Tillamook State Forest.
- Writing articles for user group newsletters, ODF website, The Lookout, and other publications.
- Developing tools and displays to recognize and recruit volunteers and to inform and educate the public about Tillamook State Forest recreation opportunities.
- Supporting local OHV user group education programs.
- Supporting and participating in NWOA Forestry education and interpretive programs.

## **Administration**

The State Forest Program in Forest Grove District is organized into five separate functional work units. The five work units include:

- Administration includes the District Forester, Assistant District Forester, Office Manager and clerical staff. The administrative function provides policy and planning direction, budgeting, coordination between units and programs, oversight to the field units, public contact and clerical support. The office staff is also responsible for assisting with special forest products permits and firewood permits.
- The Forest Roads Unit is responsible for the planning and maintenance of the district State Forest road network, the design and administration of all timber sale road development and the establishment and maintenance of State Forest property lines.
- The Forest Management / Marketing Unit is responsible for the planning, preparation and administration of all State Forest timber sales on the district, planning and administering threatened and endangered (T&E) species surveys, and developing and maintaining GIS data and map products related to these functions.
- The Recreation Unit is responsible for the planning and development of new trails and facilities, management of existing trails and facilities (campgrounds, day-use sites trailheads, and staging areas), development and management of volunteer programs, public contact and information, and monitoring and assessment of overall recreational use patterns.
- The Reforestation / Young Stand Management Unit is responsible for all the planning, prescription determination and administration of all reforestation and young stand management activities on State Forest land, including all the associated monitoring and record keeping.



#### FOREST GROVE FY 2019 ANNUAL OPERATIONS PLAN APPROVED JUNE 2018

### **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 Site Management Summary
- 6. Recreation Trail Management Summary
- 7. Recreation Grant Management Summary

#### B. Maps

- 1. Harvest Operations Vicinity Map
- 2. Recreation Projects Vicinity Map
- 3. Recreation Facilities Vicinity Map

#### C. Consultations with Other State Agencies

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

#### **D. Public Involvement**

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This appendix describes the results of the public involvement process of this AOP.

#### **E. Pre-Operations Reports**

Pre-Operations Reports are available from the district upon request.

#### F. Forest Land Management Classification Minor Modification

## G. District Implementation Plan Minor Modification – 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 Site Management Financial Summary
- Table A-6: Recreation Trail Management Financial Summary
- Table A-7: Recreation Grant Management Financial Summary

District:	District: Forest Grove Fund %							-	Date: 0	2/28/2018		
	Fun	d %		Sale	Net A	cres	Vo	lume (MN	1BF)		Value	
Primary Operation	BOF	CSL	County	Quarter	Partial Cut	Clear- cut	Con- ifer	Hard- woods	Total	Gross	Projects	Net
BD7	100%		Tillamook	4		150	6.2		6.2	\$3,221,920	\$117,700	\$3,104,220
Big Louie	100%		Washington	1		62	4.0		4.0	\$2,256,236	\$69,330	\$2,186,906
			Tillamook			28	1.8		1.8	\$1,042,354	\$16,270	\$1,026,084
Cat's Pajamas	100%		Washington	3		71	4.0		4.0	\$2,306,080	\$217,600	\$2,088,480
Duchess & The Duke	16%	84%	Tillamook	4		83	3.6		3.6	\$1,801,100	\$39,700	\$1,761,400
Florade	100%		Washington	4		102	3.8		3.8	\$1,897,000	\$0	\$1,897,000
Hanns Down	100%		Tillamook	4		104	4.0		4.0	\$2,322,320	\$187,000	\$2,135,320
Likely Storey	100%		Washington	2		81	3.6		3.6	\$1,825,800	\$8,000	\$1,817,800
Lou's Leftovers	100%		Washington	3		133	6.0		6.0	\$3,344,320	\$108,100	\$3,236,220
More Cow Bell	100%		Washington	4		96	5.2		5.2	\$2,705,560	\$132,500	\$2,573,060
Nor Sam	100%		Tillamook	1		114	4.9		4.9	\$2,511,750	\$582,400	\$1,929,350
Pretty Penny	100%		Tillamook	2		115	5.4		5.4	\$2,697,000	\$0	\$2,697,000
Sunset Rest	100%		Clatsop	2		88	4.0		4.0	\$1,921,920	\$134,400	\$1,787,520
				Total:	0	1,227	56.5	0.0	56.5	\$29,853,360	\$1,613,000	\$28,240,360
Alternate Operations												
Back Track	100%		Washington			108	4.5		4.5	\$2,246,500	\$151,700	\$2,094,800
Power Trip	100%		Tillamook			70	2.5		2.5	\$1,227,940	\$76,800	\$1,151,140
Sloopy	100%		Washington			39	2.3		2.3	\$1,300,116	\$283,200	\$1,016,916
			Tillamook			30	1.7		1.7	\$1,000,974	\$8,500	\$992,474
Star Date 2020	100%		Columbia			94	5.0		5.0	\$2,916,820	\$25,200	\$2,891,620
Willy-nilly	100%		Washington			189	7.0		7.0	\$3,477,500	\$536,900	\$2,940,600

#### **TIMBER HARVEST OPERATIONS - FINANCIAL SUMMARY**

#### PRIMARY HARVEST OPERATIONS - FOREST RESOURCE SUMMARY

#### District: Forest Grove

Fiscal Year 2019

Date: 02/28/2018

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

Primary Harvest Operations	Unit (Optional)	Forest Health Issues <sup>1</sup>	Invasive Species	LYR/OFS Structures <sup>2</sup>	Landcape Design LYR/OFS <sup>3</sup>	Install/Replace Culverts on Fish Bearing / Perennial Streams	Harvesting within 100' of Fish Bearing Stream	Domestic Water Source	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 Plants	Geotechnical Issues Needing Field Review	Recreation Sites	Cultural Resources	Scenic Resources	Other Resources or Issues
BD7	1, 2	х	х	х											х		х	х			
Big Louie		х	х							х					х		х				
Cat's Pajamas			х																		BPA transmission lines
Duchess & The Duke		х	х												х		х		х		
Florade			х	х																	
Hanns Down			х	х						х					х				х		
Likely Storey			х									х					х		х		
Lou's Leftovers	1,2,3,4	х	х						х	х					х						
More Cow Bell			х	х						х					х		х	х			permanent plot
Nor Sam	1,2,3	х	х												х		х				permanent plot
Pretty Penny	1,2	х	х	х											х				х		
Sunset Rest		х	х	х		х				х					х				x	х	Adjacent to the Sunset Rest Area

<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. The Pre-Operation Report identifies whether T&E fish are present in the basin.

#### ALTERNATE HARVEST OPERATIONS - FOREST RESOURCE SUMMARY

		es <sup>1</sup>		s <sup>2</sup>	LYR/OFS <sup>3</sup>	: Culverts on Perennial	100' of Fish	Source	Habitat	nchor	Anchor	NSO	MMMA	Sale s Required	to Harvest s		s Needing				
Alternate Harvest Operations	Unit (Optional)	Forest Health Issue	Invasive Species	LYR/OFS Structure	Landcape Design L	Install/Replace Culv Fish Bearing / Perer Streams	Harvesting within Bearing Stream	Domestic Water So	Potential Stream H Improvement <sup>4</sup>	in Aquatic A	Within Terrestrial	Operating within a Provincial Circle	Operating within a (BA Required)	Murrelet Timber S Screening Process (MM Policy 2.27)	T&E Fish Adjacent Unit / Haul Route <sup>5</sup>	T&E Plants	Geotechnical Issues Field Review	Recreation Sites	Cultural Resources	Scenic Resources	Other Resources or Issues
Back Track			х	х		х				х					х						
Power Trip			х												х		х				BPA transmission line
Sloopy			х												х						
Star Date 2020			х												х						BPA transmission line
Willy-nilly	1,2		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 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. The Pre-Operation Report identifies whether T&E fish are present in the basin.

#### FOREST ROADS SUMMARY

District	: Forest	Grove					Fiscal Year:	20	)19			Date:	02/28/2018
Primary Operations	Co Miles	nstruction Cost	lm Miles	•	vement Cost	Ot	her Projects	т	otal Project Costs	G	Fross Value of Operation	Total Cost as a percent of Gross Value	Comments
BD7	0.7				37,800		6,000.00	\$	117,700		3,221,920.00	4%	
Big Louie	0.4	\$ 25,900			59,700	\$	-	\$			3,298,590.00	3%	
Cat's Pajamas	0.1	\$ 5,700			130,200	\$	81,700.00	\$	217,600	\$	2,306,080.00		Stockpile Construction
Duchess & The Duke	0.5	\$ 36,100			3,600	\$	-	\$	39,700	\$	1,801,100.00	2%	
Florade	0.0	\$-	0.0	\$	-	\$	-	\$	-	\$	1,897,000.00	0%	
Hanns Down	0.0	\$-	2.7		187,000	\$	-	\$	187,000	\$	2,322,320.00	8%	
_ikely Storey	0.0	\$-	0.4	\$	6,000	\$	2,000.00	\$	8,000	\$	1,825,800.00	0%	
_ou's Leftovers	0.0	\$-	1.8		106,600	\$	1,500.00	\$	108,100	\$	3,344,320.00	3%	
More Cow Bell	1.1	\$ 131,500	0.0	\$	-	\$	1,000.00	\$	132,500	\$	2,705,560.00	5%	
Nor Sam	0.3	\$ 30,000	9.8	\$	550,400	\$	2,000.00	\$	582,400	\$	2,511,750.00	23%	
Pretty Penny	0.0	\$-	0.0	\$	-	\$	-	\$	-	\$	2,697,000.00	0%	
Sunset Rest	0.7	\$ 49,100	0.8	\$	25,300	\$	60,000.00	\$	134,400	\$	1,921,920.00	7%	Type F Culvert
Total	3.9	\$352,20	20.4	. 9	\$1,106,600		\$154,200		\$1,613,000		\$29,853,360	5.4%	
Alternate Operations													
Back Track	0.9				18,800		40,000.00				2,246,500.00		Type F Culvert
Power Trip	0.1	\$ 14,300			62,500		-	\$	76,800.00		1,227,940.00	6%	
Sloopy	0.0		4.9		291,700		-	\$	,		2,301,090.00	13%	
Star Date 2020	0.0		0.9		25,200		-	\$			2,916,820.00	1%	
Willy-nilly	0.6	\$ 41,100	8.8	\$	495,800	\$	-	\$	536,900.00	\$	3,477,500.00	15%	
Road Projects Not Associa	ated wit	th Harvest O	peratio	ons i	in this AOI	Р							
Operation	Co Miles	nstruction Cost	lm Miles	-	vement Cost	Ot	her Projects	Т	otal Project Costs	F	unding Source		Comments
Beaverdam Crushing	0.00		0.00		-	\$	260,000.00	\$	-		FDF		
Bridge Designs - S. Lou &	0.00	Ŧ		Ť		*	,	Ψ		$\vdash$			
Chicken Camp	0.00	\$-	0.00	\$	-	\$	14,000.00	\$	14,000.00	1	FDF		
Pork Belly Pre-Roading		\$ 30,400.00			16,000.00		-	\$	46,400.00	+	FDF	To be completed	with Lou's Leftovers Project Work
Rogers Basin Road	0.00	+ 50, 100100	01	Ť	,	Ť		Ť	,				
Brushing 30 miles	0.00	\$-	0.00	\$	-	\$	30,000.00	\$	30,000.00	1	FDF		
Round Top Area Road	0.00	Ŧ	0.00	Ť		Ť	30,000.00	Ť	30,000.00	+			
Brushing 13 miles	0.00	s -	0.00	\$	-	\$	13,000.00	\$	13,000.00	1	FDF		
Six Codero Improvement	0.00				<u></u>		10,000.00	Ť	00.000.00	+		<b>T</b> - 1	

1.86 \$ 78,000.00 \$ 317,000.00 \$ 165,400.00 0.30 \$ 30,400.00 Total

1.59 \$ 62,000.00 \$

-

0.00 \$

Six Cedars Improvement

\$

-

62,000.00

FDF

To be completed with BD7 Project Work

District:	Forest Grov	e	Fiscal Year:	2019		Date:	11/14/2017	
Projects Conducted by ODF		<b>Board of Fores</b>	stry	Comm	on School For	est Lands	Dis	strict
	Acres	Average		Acres	Average			
Staff or Contractors	Planned	Cost*/Acre	BOF Cost	Planned	Cost*/Acre	CSL Cost	Total Acres	Total Cost
Seedling / Nursery Costs	1,350	\$195.00	\$263,250.00	13	\$195.00	\$2,535.00	1,363	\$265,785.00
Initial Planting	1,037	\$131.00	\$135,847.00	13	\$131.00	\$1,703.00	1,050	\$137,550.00
Interplanting	75	\$107.00	\$8,025.00			\$0.00	75	\$8,025.00
Underplanting	0	\$0.00	\$0.00			\$0.00	0	\$0.00
**Tree Protection - Barriers	200	\$68.00	\$13,600.00			\$0.00	200	\$13,600.00
Tree Protection - Direct Control	0	\$0.00	\$0.00			\$0.00	0	\$0.00
Site Prep - Chemical - Aerial	1,000	\$62.00	\$62,000.00	13	\$62.00	\$806.00	1,013	\$62,806.00
Site Prep - Chemical - Hand	100	\$128.00	\$12,800.00			\$0.00	100	\$12,800.00
Site Prep - Broadcast Burning	0	\$0.00	\$0.00			\$0.00	0	\$0.00
**Site Prep - Piling Burning	800	\$5.00	\$4,000.00			\$0.00	800	\$4,000.00
Site Prep - Mechanical	195	\$150.00	\$29,250.00			\$0.00	195	\$29,250.00
Release - Chemical - Aerial	250	\$59.00	\$14,750.00			\$0.00	250	\$14,750.00
Release - Chemical - Hand	50	\$128.00	\$6,400.00			\$0.00	50	\$6,400.00
Release - Mechanical - Hand	0	\$0.00	\$0.00			\$0.00	0	\$0.00
Precommercial Thinning	0	\$0.00	\$0.00			\$0.00		\$0.00
Pruning	0	\$0.00	\$0.00			\$0.00		\$0.00
Invasive Species	0	\$0.00	\$0.00			\$0.00	0	\$0.00
Road Side Spraying	200	\$178.00	\$35,600.00			\$0.00	200	\$35,600.00
Stocking Surveys	2,500	\$10.00	\$25,000.00			\$0.00	2,500	\$25,000.00
Other			\$0.00			\$0.00	0	\$0.00
Totals	7,757		\$610,522.00	39		\$5,044.00	7,796	\$615,566.00

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

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

Projecto Conductod by		<b>Board of Fores</b>	stry	Comm	on School For	est Lands	Dis	strict
Projects Conducted by	Acres	Average		Acres	Average			
Inmates	Planned	Cost*/Acre	BOF Cost	Planned	Cost*/Acre	CSL Cost	<b>Total Acres</b>	Total Cost
Initial Planting	163	\$155.00	\$25,265.00			\$0.00	163	\$25,265.00
Interplanting	75	\$105.00	\$7,875.00			\$0.00	75	\$7,875.00
Underplanting	0	\$0.00	\$0.00			\$0.00	0	\$0.00
Tree Protection - Barriers	200	\$110.00	\$22,000.00			\$0.00	200	\$22,000.00
Tree Protection - Direct Control	700	\$78.00	\$54,600.00			\$0.00	700	\$54,600.00
Site Prep - Chemical - Hand	50	\$99.00	\$4,950.00			\$0.00	50	\$4,950.00
Site Prep - Broadcast Burning	0	\$0.00	\$0.00			\$0.00	0	\$0.00
Site Prep - Piling Burning	150	\$10.00	\$1,500.00			\$0.00	150	\$1,500.00
Release - Chemical - Hand	50	\$99.00	\$4,950.00			\$0.00	50	\$4,950.00
Release - Mechanical - Hand	150	\$165.00	\$24,750.00			\$0.00	150	\$24,750.00
Precommercial Thinning	0	\$0.00	\$0.00			\$0.00	0	\$0.00
Pruning	40	\$200.00	\$8,000.00			\$0.00	40	\$8,000.00
Invasive Species	20	\$220.00	\$4,400.00			\$0.00	20	\$4,400.00
Other			\$0.00			\$0.00	0	\$0.00
Totals	1,598		\$158,290.00	0		\$0.00	1,598	\$158,290.00

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

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

\*\*Cost for materials only

Grant Funded Activities		<b>Board of Fores</b>	stry	Comm	on School For	est Lands	Dis	strict	
	Acres	Average		Acres	Average				Funding
Project	Planned	Cost*/Acre	Cost	Planned	Cost*/Acre	Cost	<b>Total Acres</b>	Total Cost	-
			\$0.00			\$0.00	0	\$0.00	
			\$0.00			\$0.00	0	\$0.00	
			\$0.00			\$0.00	0	\$0.00	
			\$0.00			\$0.00	0	\$0.00	

District:	Forest Gr	-	ATION SIT Fis	E MANAG cal Year:	-	UMMARY	Date :	02/14/2018
Project		tion Cost ding)	Improven (Fun		Operation (Fund		Total Costs	Comments
	ODF (\$)	Other (\$)	ODF (\$)	Other (\$)	ODF (\$)	Other (\$)	COSIS	
Campgrounds								
Stagecoach Horsecamp					\$1,000		\$1,000	Vault Service
Gales Creek Campground			\$ 10,000		\$7,500		\$17,500	Vaults (\$4750) garbage (\$2750). Grey water drain replacement (\$8000), bollard replacement (\$2000) - South Fork Projects
Dechem Comm			¢ 2.000		ćr. 000		ćr. 800	Vaults (\$4000) garbage (\$1800). Bollard replacement (\$2600)- South
Reehers Camp Browns Camp			\$ 2,600		\$5 <i>,</i> 800	\$17,000	-	Fork Project Vaults (\$7500) garbage (\$9500)
Elk Creek					\$5,600	\$17,000		Vaults (\$7500) garbage (\$9500) Vaults (\$2400)
Designated Dispersed Campsites an	d Dispersed	     so Aroas			3 <u>3,000</u>		JJ,000	
North Fork Wolf Creek Target Shooting Lane Improvement				\$10,200			\$10,200	Volunteer project. Possibly some South Fork and Road Crew need
Clear Creek Alley Target Shooting Land Development			\$ 6,000					Volunteer project. South Fork Project (\$6000). Other funding needs unknown
Wilson River Dispersed Site Improvement			\$ 5,000				\$5,000	Road crew and South Fork Project. Dependent on crew capacity
Lyda Camp Portable Toilets						\$2,400	\$2 <i>,</i> 400	ATV Transfer, 5 months of service for two portables
Day Use Areas	1	1	1					
See Campgrounds							\$0	
Trailheads								
Bell Camp							\$0	
Deyoe Creek								
Four County Point								

Gales Creek					
Kings Mountain		\$2,800		\$2,800	Vault service
Rogers Camp		\$1,750	\$1,750		Vault service (3500) - split ODF and ATV Transfer
Storey Burn					
Summit					
Interpretive Sites					
Gales Creek Overlook		\$450		\$450	Parking lot striping
Other Operations	- <u>1</u> - 1				
Law Enforcement					WCSO, TCSO, OSP Coordination. TCSO in Tillamook District budget
					Trash clean-up and abandoned
Dumpsite Clean-up		\$2,500		\$2,500	vehicle removal
					Volunteer program support,
Volunteer Program		\$1,000		\$1,000	recognition, and recruitment supplies and services for developed
					and dispersed facility operations -
					. , .
					well testing, county well reviews, we
					maintenance, fee envelopes, dust
					abatement, hazard tree removal,
					abandoned vehicle removal, tools
					and equipment, sign repair and
					replacement, invasive species and
					weed management, general
					operations supplies, trail maps and
Other Operations Expenses		\$58 <i>,</i> 000		\$58,000	brochures
		District	Total	\$110,000	
		Other	Total	\$31,350	
		•	TOTAL	\$138,750	

District:	Forest G	irove	RECR		FRAIL MAN	IAGEMENT	2019	ARY		Date ·	02/14/2018
Project		estruction Pr	ojects		rovement Pro	ojects		ations & Main Projects	tenance	Total Costs	Comments
	Miles	ODF (\$)	Other (\$)	Miles	ODF (\$)	Other (\$)	Miles	ODF (\$)	Other (\$)		
Non-Motorized											
Wilson River Trail/ Elk Creek Trail widening				4.0						\$0	South Fork crew construction (16 - 20 days).
Nels Rogers Trail Reroute				.0.5						\$0	South Fork crew construction (24 days)
Maintenance Supplies Bridge Inspections Trail Maintenance				66				\$1,200		\$0	Bridge repair material, tools, supplies, signs, sign posts South Fork Crew (and Volunteers.
										\$0	
Motorized Elliott Creek Trailbridge Replacement Elliott Creek Trail Reroute				1		\$27,920					Remove old bridge and replace with a 45 foot glu-lam stringer bridge. RTP Grant for materials. OHV program staff to construct. One mile trail reroute and 0.32 mile of trail to be vacated. Work to be done by OHV program staff Work to be done by
Cedar Tree Trail Extension				1							Work to be done by OHV program staff

#### **RECREATION TRAIL MANAGEMENT SUMMARY**

								Work to be done by
Powerline Trail Reroute		1						OHV program staff
								As needed by OHV
								program staff and
Trail Maintenance		117						volunteers
								Bridge repair material,
								tools, supplies, signs,
								sign posts. ATV
Maintenance Supplies						\$1,000	\$1,000	Transfer
Bridge Inspections							\$0	
					Distric	Total	\$1,200	
					Other	Total	\$28,920	
				_		TOTAL	\$30,120	

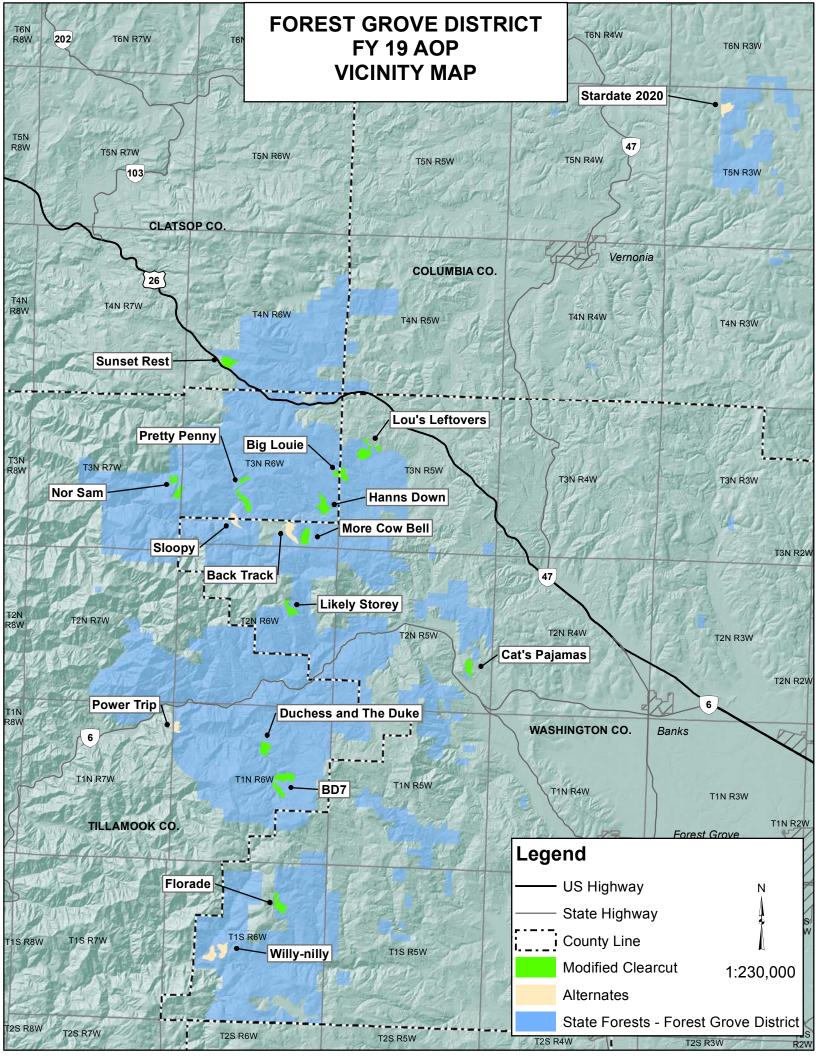
District:	Forest Gro	ove		Fiscal Year: 2019			Date :	02/14/2018
Grant	Status	Award Date (actual or	Recreation Leadership		Fun	ding	Project	Comments
		anticipated)	Approval		Grant (\$)	Match (\$)	Total	
RTP / ATV	Active	2016.0	Yes	Equipment (Rock Hauler) Purchase	\$52,345	\$7,655		Pending Buy American Waiver Request
WCVA	Submiting 3/1/18			Replace Low Divide Loop Trail Bridge	\$10,000	\$2,500		South Fork Construction project.
ATV	Planned		Yes	Equipment (Rock Hauler) Purchase	\$48,000	\$12,000		Plan to submit in FY19 if the RTP Buy American Waiver is not approved. See above
RTP / LWCF	Planned			Expand Kings Mountain Trailhead	\$237,500	\$12,500		Lots of project unknowns. Submittal in FY2018 possible
RTP	Received	Pending Notice to proceed	Yes	Bridge replacement	\$17,461	\$10,458	\$27,919	
					Grant	s Total	\$365,306	
						n Total	\$45,113	
						TOTAL	\$410,419	

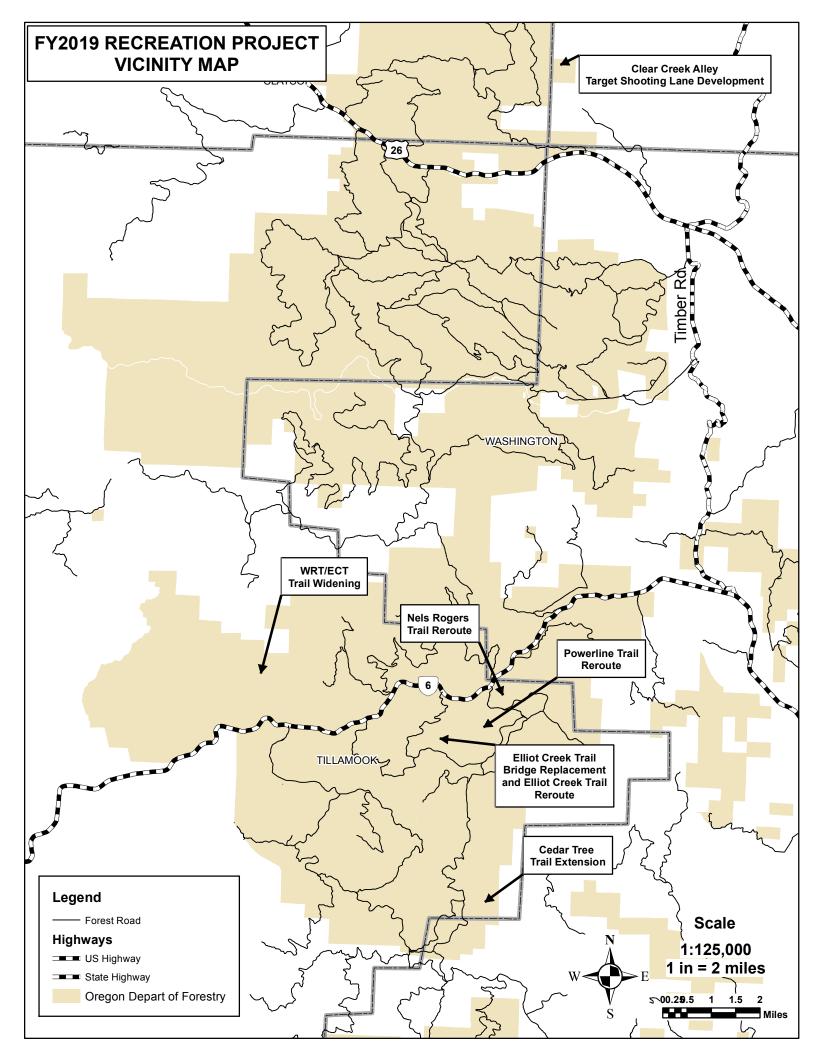
#### **RECREATION GRANT MANAGEMENT SUMMARY**

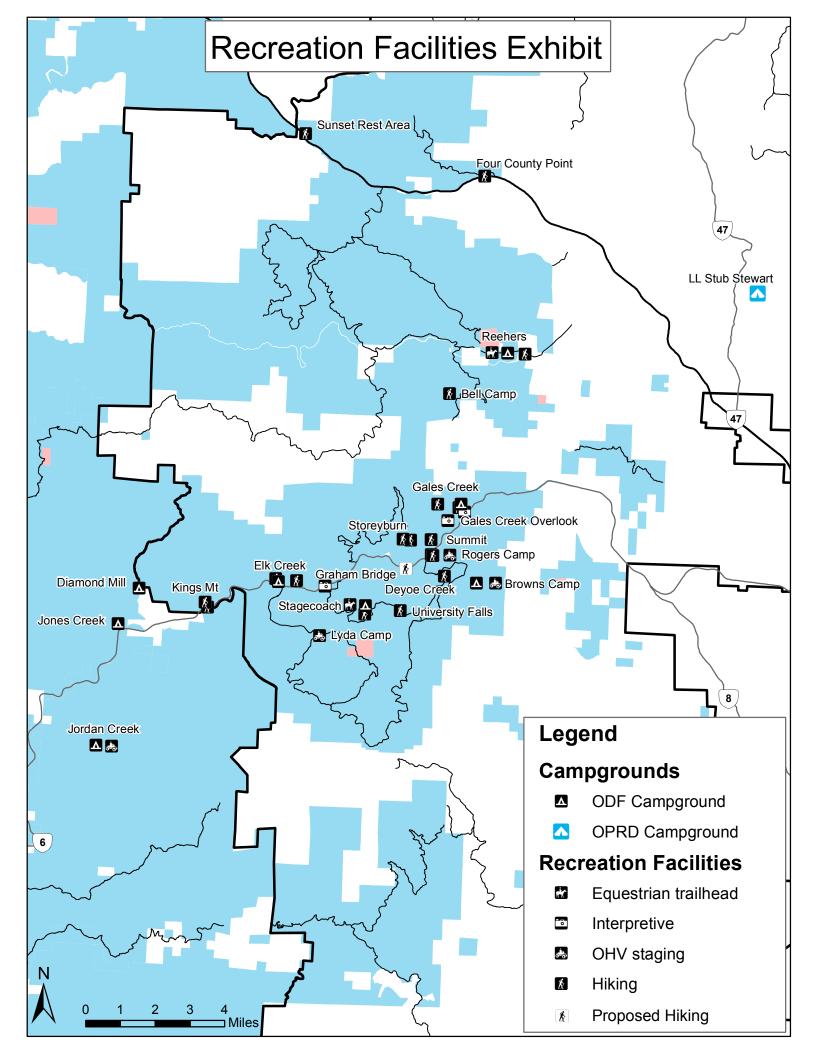
### Appendix B

### **Vicinity Maps**

- Harvest Operations Vicinity Map
- Recreation Projects Vicinity Map
- Recreation Facilities Vicinity Map







### **Consultations with Other State Agencies**

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

ODFW biologists attended a district field tour of the FY 19 AOP, a review meeting for resource specialists, and were provided the Summary and Pre-Operations Reports for review. No written comments have been received.

#### **Oregon Department of Transportation – Archaeologists:**

Archaeologists from the Oregon Department of Transportation (ODOT) have reviewed the proposed timber harvests, road construction and recreation projects to review potential impacts to cultural resources. No known historical or archaeological sites were found during this review. However, ODOT's review of historic maps and other information indicates there was human activity near some of our planned operations that could have led to the presence of cultural artifacts today.

The following areas (listed by historic activity) have already been reviewed on the ground and determined that no cultural artifacts are present:

- Potential Old Military Trail: Sunset Rest
- Potential Trail: Duchess and the Duke, Pretty Penny, Likely Storey, Seven Cedars Pit expansion, Cedar Tree Trail extension, Wilson River Trail reroute.

#### US Fish and Wildlife:

US Fish and Wildlife reviewed the biological assessment for Likely Storey. It was determined that the sale was low risk. See the letter on the next page.



### **United States Department of the Interior**



FISH AND WILDLIFE SERVICE Oregon Fish and Wildlife Office 2600 SE 98<sup>th</sup> Avenue, Suite 100 Portland, Oregon 97266 Phone: (503) 231-6179 FAX: (503) 231-6195

Reply To: 8503.2003(18) TS Number: 18-303, 304, 305

Brian Pew Deputy Chief, State Forests Division Oregon Department of Forestry State Forester's Office 2600 State Street Salem, OR 97310-1336

MAY 10 2018

Dear Mr. Pew:

This responds to your March 14, 2018, letter requesting review of three planned timber sales proposed to be conducted in your 2019 Fiscal Year which runs from July 1, 2018 through June 30, 2019. The following proposed timber sales have been identified as having potential impacts to the federally-listed northern spotted owl (*Strix occidentalis caurina*)(spotted owl): Likely Storey, Kennedy Ridge, and London Bridge. Attached with your letter were the pre-operations reports and preliminary biological assessments for the proposed timber sales, portions of which are briefly summarized below. Our comments are based upon the information provided in your letter and its attachments.

The Likely Storey timber sale in the Oregon Department of Forestry's (ODF) Forest Grove District is partially located within 1.5 miles of the Middle Drift Creek spotted owl activity center. The sale is a proposed modified clear cut of a 66 year-old mixed stand of Douglas-fir, western hemlock, noble fir, and red alder, totaling 81 net acres, with 52 acres within 1.2 miles of the activity center. The sale area was previously thinned in 1994 and 2000. All of the acres to be harvested are considered to be spotted owl habitat. Approximately 486 conifers, ranging from 16-28 inches diameter at breast height (dbh), will be retained post-harvest. Post-harvest, there will be approximately 3,543 acres of suitable habitat, or 78 percent of the 1.5 mile radius area. Forty percent suitable habitat within a home range radius of spotted owls is considered to be an average minimum to adequately support spotted owls. Due to the distance from the activity center, the relatively small amount of habitat removal, and the remaining available habitat within 1.5 miles of the activity center, we consider this timber sale to have a low risk of incidental take of spotted owls.

The Kennedy Ridge timber sale in ODF's Southwest District consists of three sale areas totaling 130 net acres, all considered to be suitable spotted owl habitat and within the 1.3 mile average home range radius of the Salmon Creek spotted owl site. The sale area is primarily comprised of 70-75 year-old Douglas-fir in the overstory with an average dbh of 12 inches, with some incense cedar, madrone, and oak species in the understory. Area 1 consists of a clear cut of 52 acres. Areas 2 and 3 consist of a partial cut thinning from below of the intermediate size classes of conifer and hardwoods. Average trees

per acre for these two areas is about 234, which will be reduced to about 120 to 200 trees per acre. An upper diameter limit will be established to preserve the largest trees in the stands. Area 3 contains 17 acres within a 0.7 mile radius of the Salmon Creek spotted owl activity center. If the 17 acres are partially cut, 726 acres or 74 percent of the area will remain in suitable spotted owl habitat. If the total 130 net acres are clear cut or thinned from within the 1.3 mile radius of the Salmon Creek spotted owl site, approximately 2000 acres or 59 percent of the area will remain in suitable habitat. Due to the remaining available habitat within 1.3 miles of the activity center and the distance from the activity center, we consider this timber sale to have a low risk of incidental take of spotted owls.

The London Bridge timber sale is also in the Southwest District and consists of one area totaling 89 net acres containing 85-95 year-old Douglas-fir in the overstory, with some incense cedar, madrone, and oak species in the understory. Eighty-eight acres of the timber sale fall within 1.3 miles of the Wolf Creek spotted owl activity center. All of the sale acres are considered suitable spotted owl habitat. The dbh of stands within the sale area average about 13 inches with 268 trees per acre. The prescription calls for a partial cut across stand diameters that would result in about 150 trees per acre. The goal of the prescription is to promote the development of a layered stand while lowering the risk of a stand replacement fire. None of the sale acres fall within 0.7 miles of the Wolf Creek activity center. ODF's previously approved 2018 London Broil timber sale will clear cut 73 net acres and partial cut 161 acres within the 1.3 mile circle of the Wolf Creek spotted owl site. If the 88 acres proposed under the London Bridge timber sale are added to those being removed under the London Broil timber sale, 2016 acres or 59 percent of the 1.3 mile radius area will remain in suitable habitat. We consider this timber sale to have a low risk of incidental take of spotted owls due to the distance from the Wolf Creek activity center and remaining habitat available post-treatment.

If you have any questions about this response, please contact Richard Szlemp at 503-231-6179. We appreciate your efforts to avoid negative impacts to federally-listed species such as the northern spotted owl, and look forward to continued coordination in this regard.

Sincerely, Paul Henson, Ph.D State Supervisor

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#### PUBLIC COMMENT PROCESS FOR THE FY 2019 ANNUAL OPERATIONS PLAN

The Oregon Department of Forestry issued a Press Release in March 2018, announcing a formal public comment period for the FY 2019 Annual Operations Plans from March 19 through May 4, 2018.

The purpose of the Public Comment Period was to provide an opportunity for the public to review the AOP, ask questions, make recommendations and offer comments.

The Forest Grove District did not receive any comments regarding specific sales or activities within the FY 2019 AOP. One general comment letter and one comment letter from 11 fishing, conservation, and recreation groups was received that expressed general comments related to all state forests AOPs.

No changes have been made to the AOP since the public review.

### Appendix E

### **Pre-Operations Report**

Pre-Operations Reports are available from the District by request.

### APPENDIX F

### Forest Land Management Classification System (FLMCS) Minor Modification Notification

The FLMCS is a method of describing the management emphasis of parcels of state forest land. The management emphasis identifies the extent to which a parcel of land can be managed for a variety of forest resources. It also identifies when a particular forest resource may need a more focused approach in its management, or possibly an exclusive priority in its management.

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

A minor modification of the FLMCS is defined as one that does not cumulatively exceed 500 acres within one year. The public comment period to review this modification was held between March 19 and May 4, 2018. No comments were received regarding the proposed minor modification that would add a portion of the South Fork Rock Creek Northern Spotted Owl (NSO) core area (111 acres) to the Wolf Creek Terrestrial Anchor Site (TAS) and remove a dense Douglas-fir stand (112 acres) from the TAS. The stand to be removed is almost a pure Douglas-fir stand with small live crown ratios and a salal understory. The district believes that performing a partial cut or multiple partial cuts will not move this stand towards a complex forest structure. The proposed changes would decrease the number of acres within High Value Conservation Wildlife by one acre.

The following tables from the Forest Grove District Implementation Plan, 2011 have been modified to reflect these changes:

Classification	Board of Forestry	Common School	Administrative Sites	Total Acres*
High Value Conservation	20,043	76	0	20,119
Special Use	18,752	18	16	17,234
Focused	99,409	489	0	99,898
General	33,556	166	0	33,722

### Table 2. Forest Grove District Acres, by Class and Fund

\*The sum of the total acres is greater than the total acres within the District. This is due to the overlap between the High Value Conservation, Special Use and Focused classifications on the forest.

	Acres Focused	Acres Special Use	Acres High Value Conservation
Administrative Sites	0	112	0
Aquatic and Riparian Habitat	15,361	0	9,903
Cultural Resources	25	99	0
Deeds	0	0	0
Domestic Water Use	10,549	0	0
Easements	0	3	0
Energy and Minerals	0	80	0
Operationally Limited	0	16,313	0
Plants	0	0	574
Recreation	19,328	141	0
Research/Monitoring	441	203	0
Transmission	0	268	0
Visual	10,524	485	0
Wildlife Habitat	43,669	0	9,639

## Table 3. Forest Grove District Acres, Focused, Special Use and High Value Conservation Subclasses



#### **Department of Forestry**

Forest Grove District 801 Gales Creek Road Forest Grove, OR 97116-1199 Phone: (503) 357-2191 FAX: (503) 357-4548



"STEWARDSHIP IN FORESTRY"

May 15, 2018

To: Andy White, NWOA Director

From: Mike Cafferata, Forest Grove District Forester

CC: Liz Dent, State Forests Division Chief Brian Pew, State Forests Deputy Division Chief Ron Zilli, State Forests Field and Policy Manager

Subject: Forest Grove District FLMC Update

The Forest Grove District is proposing a minor modification to the Forest Land Management Classification (FLMC). A minor modification of the FLMCS is defined as one that does not cumulatively exceed 500 acres within one year. The District proposed minor modification would add a portion of the South Fork Rock Creek Northern Spotted Owl (NSO) core area (111 acres) to the Wolf Creek Terrestrial Anchor Site (TAS) and remove a dense Douglas-fir stand (112 acres) from the TAS. This modification was reviewed by ODF Resource Specialists and ODFW Biologists during the FY 19 AOP review. Minor FLMCS modifications do not require a public comment period. For transparency in our planning process the minor modification was included as an appendix to the FY 2019 Annual Operations Plan (AOP) which has a 45 day public comment period. The Resource Specialists were in favor of the minor modification to the FLMC. No comments were received regarding the minor modification during the AOP public comment period.

After reviewing the described changes in Appendix F of the Annual Operations Plan, corresponding maps and the public input, I have found the modifications to be consistent with OAR 629-035-0055 and OAR 629-035-0060. Therefore I am requesting the approval of the modified FLMC maps for the Forest Grove District.

Sincerely:

Mike Cafferata Date Forest Grove District Forester

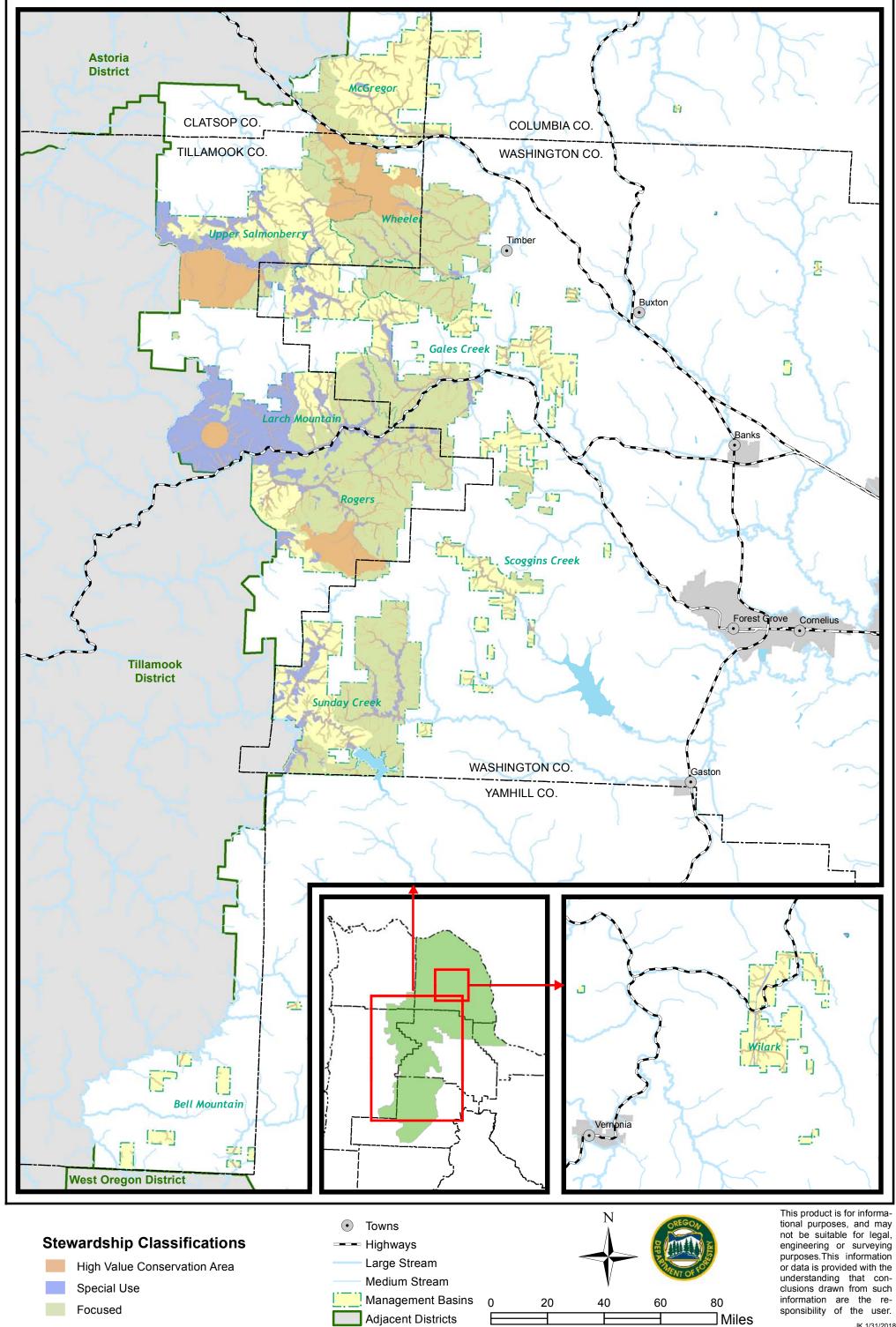
Approved:

06/05/2018 Date

Andy White NWOA Director

Enclosure: Appendix F - Forest Grove FY2019 Annual Operations Plan

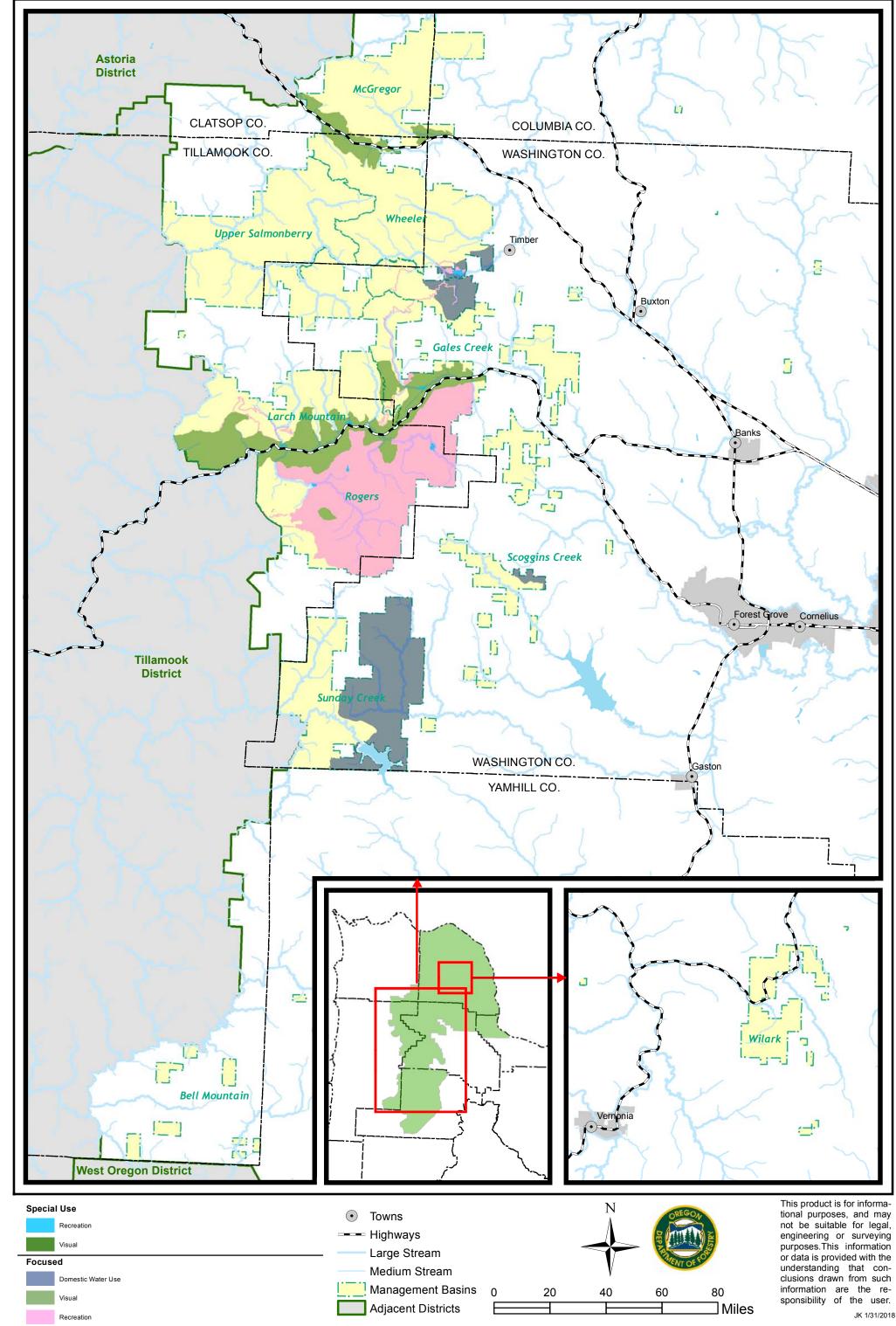
## Forest Grove District Stewardship Classifications



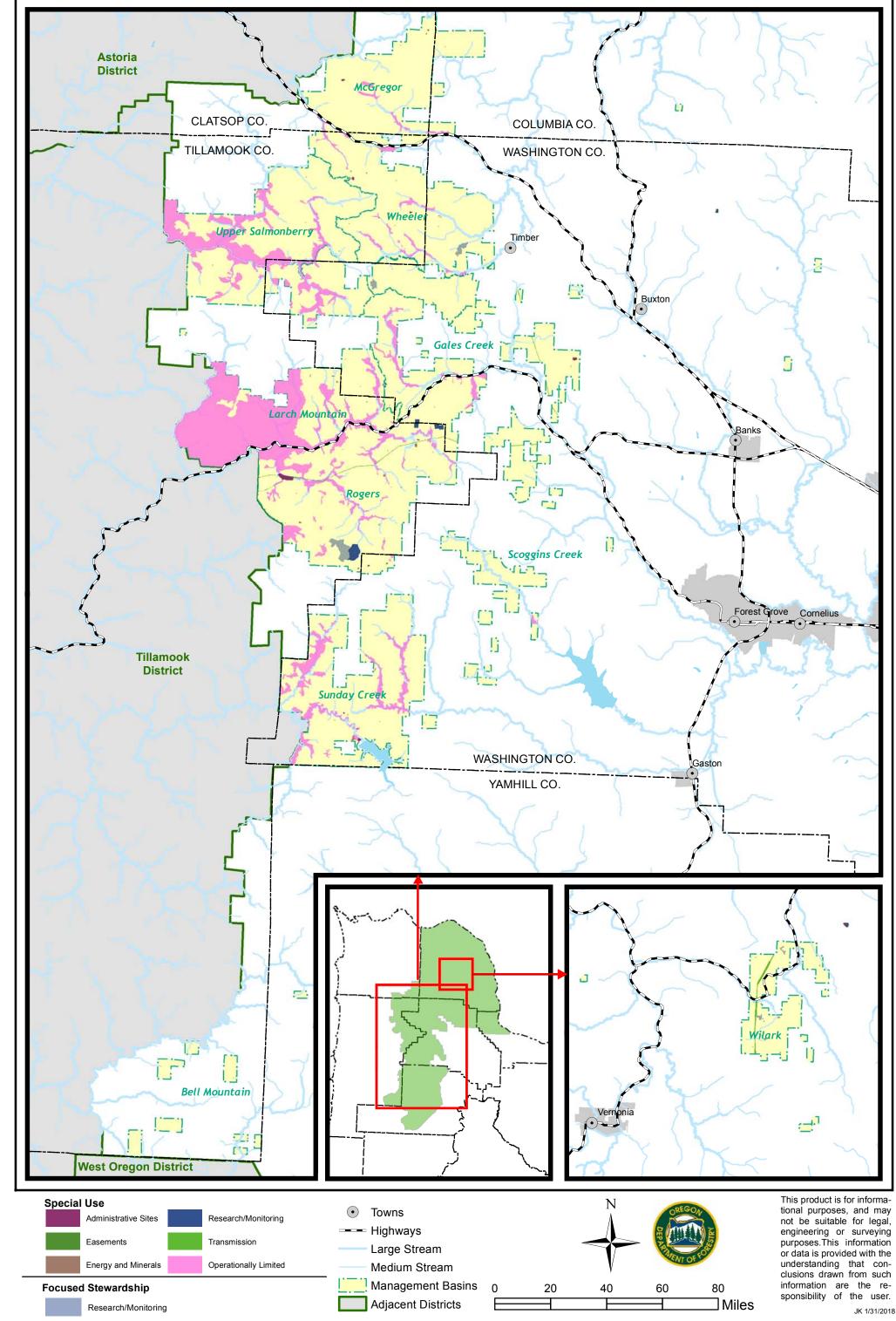


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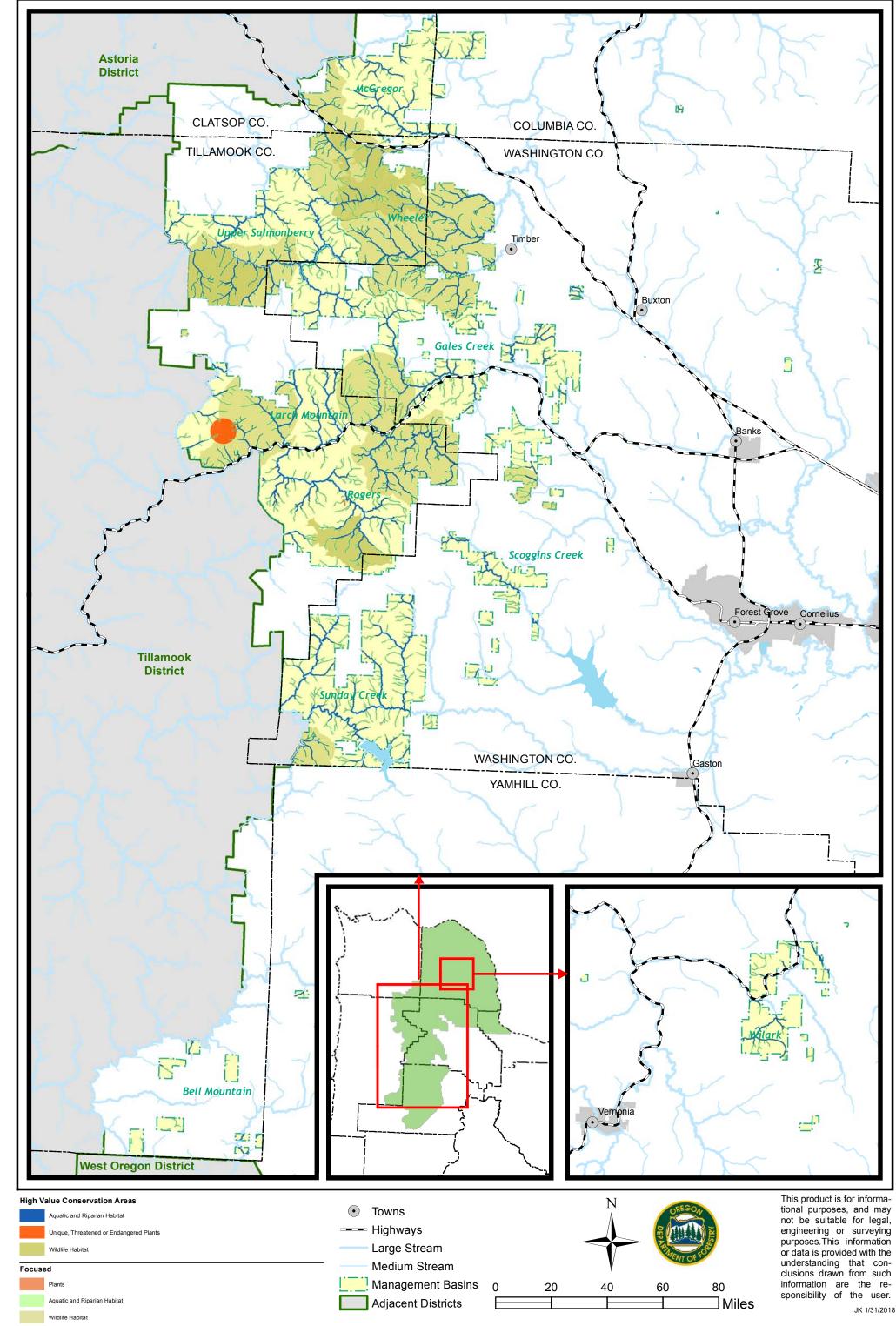
## Forest Grove District Stewardship Classifications - Social Subclasses



# Forest Grove District Stewardship Classifications - Management Subclasses



## Forest Grove District Stewardship Classifications - Biological Subclasses



## Appendix G

### Landscape Design – Forest Grove District Implementation Plan Minor Modification Notice

As described in the 2011 Forest Grove IP, the district has mapped a Landscape Design that designates 30% of the district acres in a future complex condition, either Layered (LYR) or Older Forest Structure (OFS). The term General management (GEN) or noncomplex will be used to describe the desired future condition (DFC) of stands that are not planned for OFS or LYR in the Forest Grove District's landscape design. The DFC landscape design for the Forest Grove district was done using a "broad brush" method incorporating a variety of landscape design principles and strategies. The original Landscape Design mapping process used stand types instead of geographical breaks to define the future complex stand boundaries with the intent that the boundaries could be fine-tuned during the planning process. Actual boundaries between complex and general DFC's are determined on the ground during the sale planning and preparation process. Minor changes in the DFC landscape design may occur on an annual basis due to a variety of reasons. These reasons may include; refinement of the DFC boundary on the ground, forest health issues, and fitting a stand to a more appropriate or realistic pathway based on additional data collected through Stand Level Inventory (SLI) and field observations during the AOP planning process. Changes of up to 240 acres annually are considered minor changes and can be approved by the District Forest concurrent with the Annual Operation Planning process.

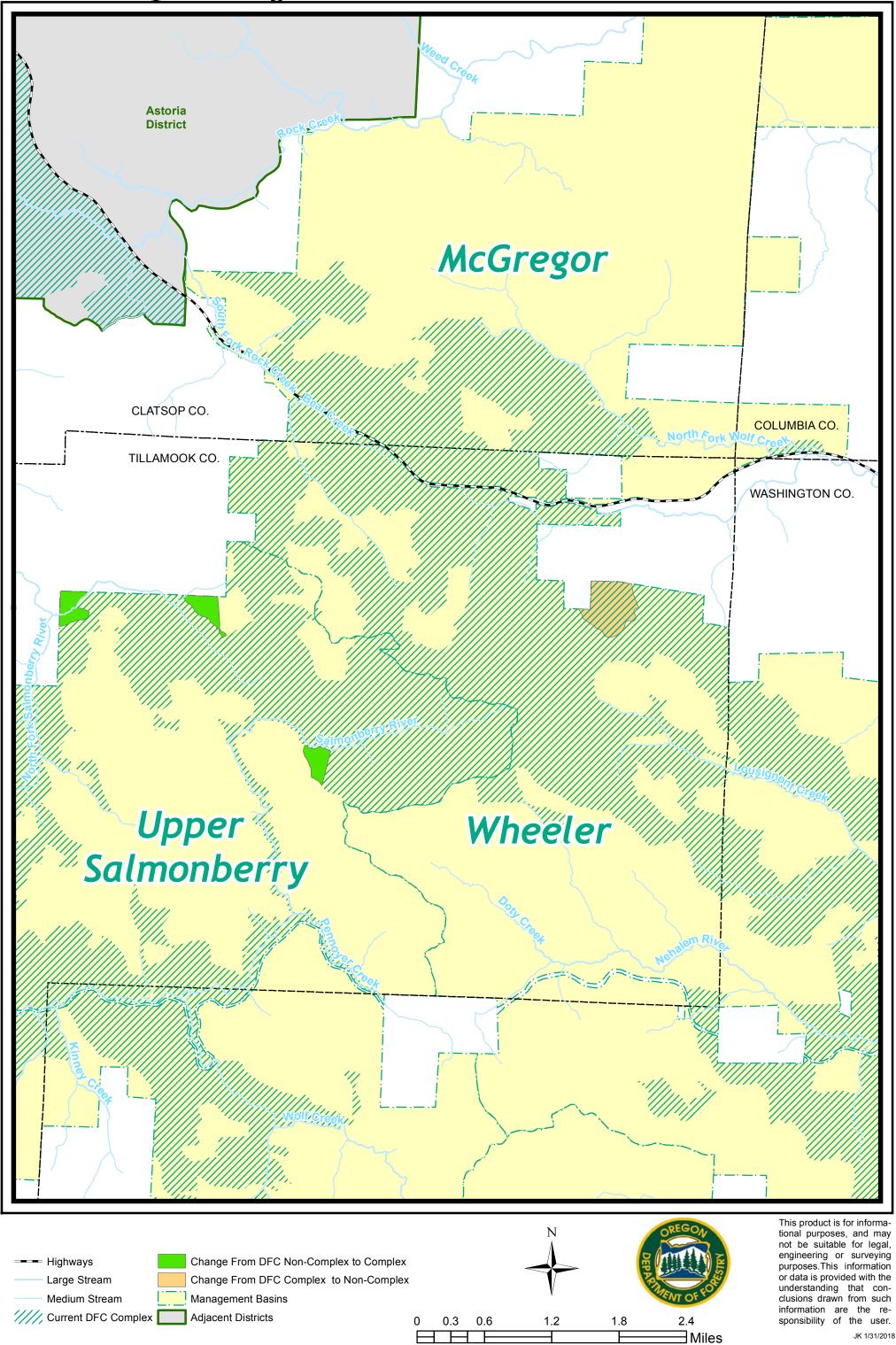
The district proposed to change 112 acres that have a current DFC of Layered to non-complex or "general". These stands to be removed are almost pure Douglas-fir stands with small live crown ratios and a salal understory. The district believes that performing a partial cut or multiple partial cuts will not move these stands toward a complex forest structure. This area was reviewed in the field with various ODF & ODFW resource specialists.

The district chose 74 acres of stands that contain multiple tree species and are capable of becoming complex structure to move from a DFC of non-complex to Layered and 32 acres to move to Older Forest Structure. This new complex designation would expand upon an area that already has a DFC of complex structure and will also replace those acres of complex lost from the DFC changes mentioned above. In addition, these stands are located along the Salmonberry River and a fish bearing tributary to the North Fork Salmonberry River. (See map below.)

**These changes have been approved by the District Forester.** The designation of DFC complex on the Forest Grove District remains at 30%.

Summary of Minor Landscape Design Modification						
Acres Rem	oved	Acres Added				
Desired Future	Acres	Desired Future	Acres			
Condition		Condition				
LYR	112	LYR	74			
OFS	0	OFS	32			
Total Acres	112	Total Acres	106			
Removed		Added				

## Forest Grove District Landscape Design - Desired Future Condition Revision





tional purposes, and may not be suitable for legal, engineering or surveying purposes.This information or data is provided with the understanding that conclusions drawn from such information are the responsibility of the user.