

Pre-Operations Report

Operation Name: Sunday Drive

County: Washington

Management Basin: Sunday Creek

Legal Description: Sec. 7 and 8, T01S, R05W, W.M.
Sec. 12 and 13, T01S, R06W, W.M.

Table 1. Operation Areas, Types and Acres

Area	Type of Operation	Gross Acres	Net Acres
I	Moderate Partial Cut	524	488
Total	Partial Cut Harvest	524	488

I. PHYSICAL DESCRIPTION OF OPERATION AREA:

Slopes have a varied aspect and range from 10% to 50%. Elevations range from 1400 to 2000 feet. The major soil types are Grindstone and Killam. The sale area occupies the ridges and upper slopes.

The landforms are gentle to moderate slopes of the divide between the headwater of Sunday Creek and Lee Creek and the Wilson River. The underlying rock is igneous, Tertiary intrusive diabase with pillowform and radial columnar joints, sills are cut by regional dike swarms of the Tillamook Volcanics.

II. CURRENT STAND CONDITION:

The sale area burned in the 1933, 1939 and 1945 Tillamook Burns.

The sale has been inventoried using the Stand Level Inventory (SLI) procedure and the stand has been classified as UDS.

The stand is composed almost entirely of overstocked Douglas-fir.

The stand contains minor amounts of *Phellinus weirii* and will not be treated at time of harvest.

The understory is comprised primarily of vine maple and dwarf Oregon grape.

There is a moderate amount of snags (6-7 per acre) in various states of decay throughout the sale area.

There is a large amount (13,000 ft³ in stand 8077 and 7,000 ft³ in stand 8096) of DWD in decay classes 3 and 4 throughout the sale area.

Table 2. Stand Inventory Information

Area	Prescription	Stand ID ¹	Species	Age	DBH	BA	TPA	SDI	Net Acres ²
I	PC-M ⁴	8077	DF	47	15	241	198	62	382
		8096	DF	42	15	227	198	59	106
		<i>Target</i> ³	<i>DF</i>		17	136	86	33	488

¹ The source of stand inventory information is from SLI in 2004.

² The acres are based on GIS and exclude existing and planned roads, stream buffers, and non-thinnable areas.

³ The Target row for partial cut areas identifies expected stand characteristics (DBH, BA, TPA and SDI) after harvesting has been completed.

⁴ PC-M is Moderate Partial Cut

III. DESIRED STAND CONDITION:

The harvest operation will continue the stand's development as UDS structure in the short term. According to the Forest Grove District's landscape design for the Sunday Creek basin, the desired future condition (DFC) for the sale area is 86% GEN and 14% OFS.

All existing snags and down woody debris of all decay classes shall be retained. Hardwoods and all conifer species other than Douglas-fir shall be reserved from harvest. All of these components combined will maintain and promote biodiversity within the future stand.

Table 3. Stand Structure Information

Area	Stand ID	Current	Post Harvest ¹	Desired Future	Net Acres
I	8077	UDS	UDS	GEN	312
				OFS	70
	8096	UDS	UDS	GEN	106

¹ The stand is expected to continue development of this condition in the five to ten years after this operation is completed rather than returning to CSC.

IV. PROPOSED MANAGEMENT PRESCRIPTION:

Partial Cut - Moderate:

Area I is PC- M. The target SDI is approximately 33.

Douglas-fir will be selected for harvest. All other species will be reserved. The stand will be thinned to a target basal area of 130 to 140 square feet. The average DBH of the residual stand will be approximately 17 inches. Residual trees will be the trees that have the largest DBH and height, and are of the best

form and vigor. All trees less than 8 inches shall be reserved and shall not count toward the target basal area.

Understory vegetation will be enhanced from the additional growing spaces made available.

All existing DWD will be reserved in the sale areas. DWD recruitment is expected through mortality, windthrow of residual trees, felled snags, and logging slash.

Existing snags determined not to be a safety hazard will be retained and any felled snags will be left for down wood. Additional snags will be created over time through natural processes.

V. ESTIMATED TIMBER AND REVENUE INFORMATION:

Table 4. Timber and Revenue

Ownership		Sale Type	
BOF	CSL	Cash	Recovery
100%	%		<input checked="" type="checkbox"/>
Planned Quarter:		1	

	Conifer	Hardwood	Total
Net Volume (MBF)	4,800		4,800
Stumpage Value (\$/MBF)	\$350		
Estimated Gross Value	\$1,680,000		\$1,680,000
		Project Costs:	\$314,000
		Estimated Net Value:	\$1,366,000

VI. TRANSPORTATION PLANNING AND HARVESTING:

The sale area is accessed via Stimson Mainline to Lee Creek Road to Sunday Loop Road. The Stimson roads are currently crushed rock and the Sunday Loop Road is dirt. An access easement will need to be obtained from Stimson. Road use fees will apply.

Approximately 5.0 miles of existing surfaced and unsurfaced road will be improved which includes grading, rocking, widening, culvert replacement, spot rocking, sidecast pullback, and adding new culverts at a cost of \$192,500. This work will bring all roads up to standards described in the Forest Roads Manual. See maps for specific road locations and conditions.

Approximately 2.7 miles of road will be constructed to provide access to landing locations at a cost of \$121,500.

New construction is limited to ridge tops and gentle to moderate side slopes. Proposed roads will cross several seasonal type N streams.

All haul roads will have high quality crushed rock or pit run surfacing. Roads will provide access to all timber within the sale area and allow for logging methods and hauling which will minimize impacts to soils, residual timber, streams, and riparian areas.

Following harvest on each setting during logging operations, roads and skid trails within the sale areas will be evaluated for closure.

Total project work estimated cost is \$314,000.

The operation will be 50% cable yarding and 50% ground yarding.

Table 5. Transportation Planning Summary (Miles).

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construct	0	0	2.7	0
Improve	0	5	0	0
Maintain	12	1	0	0
Close/Block	0	0	0	0
Vacate	0	0	0	0

For determination of road class either use results of the Harvest and Habitat roads classifications, or if this information is not available then low use roads are spurs, medium use roads are collectors and high use roads are mainlines. Use these same criteria when comparing the total for all AOP sales to the IP plans.

VII. AQUATIC RESOURCES AND WATER QUALITY:

Two unnamed small Type F streams are within or adjacent to the sale area. Four small perennial and several seasonal Type N streams are within sale area. These streams are tributaries within the Tualatin watershed.

Riparian areas are hardwood/conifer mixed.

Stream buffers within harvest unit boundaries will be managed according to FMP Riparian Strategies. The riparian areas will be reviewed during sale layout for current stand conditions and/or operational constraints for implementing FMP strategies.

In order to protect water quality during active operations, a variety of methods will be used to prevent sediment from entering live streams. These methods include (but are not limited to) maintaining culverts and other road drainage structures, using sediment control devices in road ditches when necessary, and seasonal restrictions on logging and hauling operations. Culvert installment and

replacement in live streams will be conducted between July 1, and September 30. Operations outside of this period will be reviewed with ODFW.

VIII. T&E SPECIES CONSIDERATIONS:

The sale area has been reviewed with the ODF Northwest Oregon Area Biologist (Area Biologist).

Surveys for northern spotted owls were conducted in 2004 due to the presence of potentially suitable spotted owl habitat within and adjacent to the timber sale area. Sunday Drive was surveyed for spotted owls three times in 2004 with no responses, and the second year of survey will be completed in 2005. All surveys were/will be conducted in accordance with USFWS protocol.

Surveys for marbled murrelets are not required, due to the absence of potentially suitable habitat within the sale area. The ODF wildlife biologist for the NW Oregon Area made the determination that the sale area is non-suitable habitat for marbled murrelets.

The sale area was checked against the Oregon Natural Heritage Program (OHNP) database of known listed plant locations. No listed plant records were identified within the sale area.

IX. SLOPE STABILITY AND GEOTECHNICAL ISSUES:

The initial assessment from the geotechnical specialist is low. There are only a few steep slopes scattered though the sale area. The geotechnical specialist may be consulted if concerns arise during sale layout.

X. RECREATION RESOURCES:

The sale area is designated as Non-Motorized in the Tillamook State Forest Comprehensive Recreation Plan (1993). The area is accessed through private industrial forest land. Public access is prohibited. There is no impact to recreation.

XI. CULTURAL RESOURCES:

The sale area was checked against the Tillamook State Forest Cultural Resource Inventory database. No cultural resource records were identified within the sale area. If any significant cultural resources are located during sale preparation, the Public Use Coordinator (ODF Salem Staff) will be consulted regarding potential protection measures.

XII. SCENIC RESOURCES:

The sale area has a visual classification of Level 3, low sensitivity.

XIII. OTHER RESOURCE CONSIDERATIONS:

Property lines have been true blazed and posted.

All known survey corners and witness trees shall be protected from damage during any operations.

XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:

Table 6. Land Management Classification Summary. This table summarizes the acres of Focused and Special Stewardship within the operations. Due to overlapping classifications under the Land Management Classification System, the acres summarized for each operational area in this table may exceed the net or gross acreage of the area. For example, a particular acre can be classified as Focused Stewardship for Aquatic and Riparian Habitat, Recreation, and Scenic resources.

Area	LMCS Subclass	Focused Stewardship	Special Stewardship
I	Aquatic and Riparian Habitat	132	9
	Research and Monitoring	8	0