

# Pre-Operations Report

**Operation Name:** Moo Goo Pon Gon

**County:** Tillamook

**Management Basin:** Upper Salmonberry

**Legal Description:** Sec. 16, 17, 20, and 21, T03N, R06W, W.M.

**Table 1. Operation Areas, Types and Acres**

Area	Type of Operation	Gross Acres	Net Acres
I	PC-M	167	144
<b>Total</b>	<b>Partial Cut Harvest</b>	<b>167</b>	<b>144</b>

## **I. PHYSICAL DESCRIPTION OF OPERATION AREA:**

Slopes have a north aspect and range from 20% to 50%. Elevations range from 1900 to 2400 feet. The major soil types are Killam and Jewell. The sale areas occupy the ridge tops to mid-slopes.

The landforms are gentle to moderate slopes in a bend of the Salmonberry River below Giveout Mountain. The underlying rock is igneous origin rock or the Tillamook Volcanics, basalt flows form the base of the shield building sequence.

## **II. CURRENT STAND CONDITION:**

The sale area was not a part of a large fire and was naturally regenerated. This area has had no prior stand management.

The stands in the sale areas are classified as 100% CSC according to the Current Condition map that appears in the Forest Grove District Implementation Plan (*March 2003*).

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 in the sale is comprised primarily of vine maple, sword fern and salal.

There is a moderate amount of snags in various states of decay throughout the sale.

The amount of down woody debris is unknown at this time. SLI plots will be taken before this sale is prepared for auction.

**Table 2. Stand Inventory Information**

Area	Prescription	Stand ID <sup>1</sup>	Species	Age	DBH	BA	TPA	SDI	Net Acres <sup>2</sup>
I	PC-M <sup>4</sup>	7344	DF	57	17	213	132	52	144
		<i>Target</i> <sup>3</sup>			20	143	66	32	144

<sup>1</sup> The source of stand inventory information is from SLI expanded data 10/6/2004.

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

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

<sup>4</sup> PC-M is Moderate Partial Cut

**III. DESIRED STAND CONDITION:**

The harvest operation will develop this stand into UDS structure in the short term. According to the Forest Grove District's landscape design for the Salmonberry basin, the desired future condition (DFC) for this stand is 94% GEN and 6% LYR.

This entry, in the short term, will primarily benefit the continued vigor of the overstory and maintain multiple options for future management decisions.

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 <sup>1</sup>	Desired Future	Net Acres
I	7344	CSC	UDS	GEN	136
				LYR	8

<sup>1</sup> The stand is expected to develop into this condition in the five to ten years after this operation is completed.

**IV. PROPOSED MANAGEMENT PRESCRIPTION:**

**Partial Cut - Moderate:**

Area I is PC-M. The target SDI is approximately 32.

Douglas-fir and hemlock will be selected for harvest. All other species will be reserved.

The stand will be thinned to a target basal area of 130 to 150 square feet. The average DBH of the residual stand will be approximately 20 inches. Residual trees will 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.

One tree per acre shall be topped to create hard snags. Snags shall be evenly distributed throughout the sale and have a DBH of at least 18 inches, and be at least 60 feet in height.

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:		3	

	Conifer	Hardwood	Total
Net Volume (MBF)	3000		3000
Stumpage Value (\$/MBF)*	\$400		
Estimated Gross Value	\$1,200,000		\$1,200,000
		Project Costs:	\$81,000
		Estimated Net Value:	\$1,119,000

**VI. TRANSPORTATION PLANNING AND HARVESTING:**

The sale is accessed via Salmonberry Road, Section 10 Road, Fire Road 2 and Ellis Road. These are currently crushed rock roads.

Approximately 1.5 miles of road will be constructed at an estimated cost of \$50,000. New construction will be done on ridge tops and in locations that avoid steep side slopes. One small Type N stream will be crossed.

Approximately 0.6 mile of existing road will be improved at an estimated cost of \$26,000. This is a ridge top road, and will provide access to future units.

Approximately 8 miles of existing spur roads will be assessed for potential closure.

The rock source is Camp 5 Pit.

Sale related project work – estimated cost \$76,000.

Other project work – estimated cost \$5,000.

The operation will be 80% cable yarding and 20% ground yarding.

**Table 5. Transportation Planning Summary (Miles).**

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construct	0	0	1.5	0
Improve	0	0	0	0.6
Maintain	0	10.0	0	0
Close/Block <sup>1</sup>	0	0	5	0
Vacate <sup>1</sup>	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.

<sup>1</sup> These mileages reflect roads that will be assessed for closure. They do not necessarily represent the actual roads that may be closed or vacated.

**VII. AQUATIC RESOURCES AND WATER QUALITY:**

There are no known Type F streams within or directly adjacent to the sale area. The headwaters of the Salmonberry River are at least 200 feet downslope from the sale.

There are three unnamed small perennial and several seasonal Type N streams within the sale areas, which are tributary to the headwaters of the Salmonberry River. If the streams in question are determined to be Type F, any road crossings will be assessed for fish passage issues and possible mitigation.

Riparian areas along these streams are a mix of hardwood and conifers.

Oregon Department of Fish and Wildlife (ODFW) will be requested to complete stream surveys before sale layout begins. Streams of unknown status will be treated as Type F until surveys are completed to verify fish use.

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 August 15 and September 15. Operations outside of this period will be reviewed with ODFW.

#### **VIII. T&E SPECIES CONSIDERATIONS:**

Surveys for northern spotted owls will be conducted in 2005 and 2006 due to the presence of potentially suitable spotted owl habitat within and adjacent to the timber sale area. All surveys 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.

This operation does not involve an activity that is listed in the National Marine Fisheries Service (NMFS) adopted rules under Section 4(d) of the Endangered Species Act. Neither the sale area nor the haul route is in close proximity to a stream with listed fish.

The sale areas were checked against the Oregon Natural Heritage Program (ONHP) database of known listed plant locations, as well as against local records in the Land Management Classification System (LMCS). No listed plant records were identified within or adjacent to the sale areas.

#### **IX. SLOPE STABILITY AND GEOTECHNICAL ISSUES:**

The initial assessment from the geotechnical specialist is low. There are only two very small steep slopes in the west portion of the sale area. The geotechnical specialist may be consulted if concerns arise during sale layout.

#### **X. RECREATION RESOURCES:**

The sale is designated as Non-Motorized in the Tillamook State Forest Comprehensive Recreation Plan (1993). The District Recreation Coordinator had no comments on this sale.

Recreational use common to this area includes hiking and hunting.

**XI. CULTURAL RESOURCES:**

The sale area was checked against the Tillamook State Forest Cultural Resource Inventory database. This database lists a cultural site within the sale area.

This resource is described as the Wheeler Lumber Company Camp 2 site. The cultural resource classification for this site is Class II – ODF Identified for Protection. The Wheeler Pond reload and a wooden donkey water tank are also listed with no resource classification. The district will consult the Public Use Coordinator for appropriate protection measures when necessary.

**XII. SCENIC RESOURCES:**

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

**XIII. OTHER RESOURCE CONSIDERATIONS:**

Property lines are not involved.

**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	32	0