

# Pre-Operations Report

**Operation Name:** Toucan Sam (alternate)  
**County:** Tillamook  
**Management Basin:** Upper Salmonberry  
**Legal Description:** Sec. 17, T03N, R06W, W.M.

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

Area	Type of Operation	Gross Acres	Net Acres
I	Modified Clearcut	108	98
<b>Total</b>	<b>Regeneration Harvest</b>	<b>108</b>	<b>98</b>

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

Slopes have a SE aspect and range from 15% to 55%. Elevations range from 1900 to 2700 feet. The major soil types are Jewell and Killam. The sale areas occupy the upper to middle slopes.

The landforms are gentle to moderate ridge and lower slopes between the North Fork of the Salmonberry River and the main stem of the Salmonberry River. The underlying rock is igneous origin rock or the Tillamook Volcanics, the eastern portion is basalt flows from the base of the shield building sequence while the western portion is subaerial flows of the upper part of the shield building sequence.

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

Approximately 91 acres (93%) has been inventoried using the Stand Level Inventory (SLI) procedure and those stands have been classified as UDS. The remaining 7 acres of the sale are classified as UDS according to the Current Condition map that appears in the Forest Grove District Implementation Plan (March 2003).

The stands are predominantly Douglas-fir with minor amounts of hemlock, noble fir, cedar, and alder, scattered throughout the area.

The stands contain significant amounts of *Phellinus weirii* and a survey will be done to determine the extent of infection.

The understory in all the sale areas is comprised primarily of vine maple, sword fern, salal, and dwarf Oregon grape. The average ground cover is estimated to be 100% based on SLI data.

The sale area lacks adequate amounts of hard snags and DWD, according to target amounts provided in the Implementation Plan (IP).

SLI data shows that there is approximately 173 ft<sup>3</sup> per acre of DWD in decay class 0,1, and 2.

**Table 2. Stand Inventory Information**

Area	Prescription	Stand ID <sup>1</sup>	Species	Age	DBH	BA	TPA	SDI	Net Acres <sup>2</sup>
I	MC <sup>3</sup>	7293	DF,WH	65	17	267	171	65	24
		7311	DF,WH	65	17	232	141	56	6
		7323	DF	65	20	194	91	43	61
		7337*	DF,WH	65	14	189	170	51	7

<sup>1</sup> The source of stand inventory information is from SLI in 2004. Stand ID shown with (\*) 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 green tree retention areas.

<sup>3</sup> MC is Modified Clearcut.

### III. DESIRED STAND CONDITION:

The harvest operation will develop these stands into REG structure in the short term. According to the Forest Grove District’s landscape design for the Upper Salmonberry basin, the desired future condition (DFC) for these stands is 100% GEN.

**Table 3. Stand Structure Information**

Area	Stand ID	Current	Post Harvest <sup>1</sup>	Desired Future	Net Acres
I	7293	UDS	REG	GEN	24
	7311	UDS	REG	GEN	6
	7323	UDS	REG	GEN	61
	7337	UDS	REG	GEN	7

<sup>1</sup> The stand is expected to develop into this condition in the five to ten years after this operation is completed, except in REG stands which occur after harvest.

### IV. PROPOSED MANAGEMENT PRESCRIPTION:

#### **Modified Clearcut:**

In Area I, Douglas-fir and hemlock will be harvested, all other species will be reserved.

A variety of methods will be used to achieve green tree retention requirements, which include green tree retention areas, stream buffers, protection of precipitous slopes, and trees scattered across the sale areas. These methods will be used

in combination to meet the green tree requirements of (5 to 9 trees per acre) provided in the Forest Management Plan (FMP).

Green tree retention for this sale is expected to meet the target objective of 9 trees per acre. From these residual green trees, 2 trees per acre shall be topped to create hard snags. Snags shall have a DBH of at least 18 inches, and be at least 60 feet in height.

After snag creation is completed, it is expected that enough green trees will be reserved to still meet the target objective. These trees will be a source for snags and DWD, which are expected to develop over time through natural processes.

All existing DWD will be reserved in the sale area. 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.

The site will be planted with Douglas-fir and noble fir. Following harvest, the sale area will be reviewed to determine if site preparation is needed.

**V. ESTIMATED TIMBER AND REVENUE INFORMATION:**

**Table 4. Timber and Revenue**

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

	Conifer	Hardwood	Total
Net Volume (MBF)	<b>3,500</b>		<b>3,500</b>
Stumpage Value (\$/MBF)*	<b>\$450</b>		
Estimated Gross Value	<b>\$1,575,000</b>		<b>\$1,575,000</b>
		Project Costs:	<b>\$15,000</b>
		Estimated Net Value:	<b>\$1,560,000</b>

\*Combined Douglas-fir and hemlock stumpage values

**VI. TRANSPORTATION PLANNING AND HARVESTING:**

The sale area is accessed via the Salmonberry Road. This is currently an all-weather, crushed rock, road.

Approximately 0.3 miles of road will be constructed to provide access to cable yarding or landing locations. New construction is limited to ridgetops and gentle to moderate sideslopes. Proposed roads will not cross any 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.

Project work and their estimated costs: \$15,000.

The operation will be 75% cable yarding, 25% ground based yarding.

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

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construct	0	0	0.3	0
Improve	0	0	0	0
Maintain	0	9	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:**

There are no known Type F streams within or adjacent to the sale area.

There is one small, Type N, perennial stream within the sale area. Riparian area stand types along this stream are a conifer / hardwood mix.

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. No culvert installment and replacement in live streams will be conducted. 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 a few, very small, scattered steep slopes in 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 District Recreation Coordinator has no comments for this sale.

Recreational uses common to this area includes hunting.

## **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:**

No known.

**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	10	0