

# 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
1	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 landform is gentle to moderate slopes of a spur-ridge and saddle dividing the North Fork of the Salmonberry River and the main-stem of the Salmonberry River. The underlying rocks are igneous origin Basalts of the Tillamook Volcanics Formation.

## **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 are approximately 4 to 8 snags per acre and 5,500 to 7,500 ft<sup>3</sup> of DWD. Most of the snags and DWD are classes 4 and 5.

**Table 2. Stand Inventory Information**

Area	Prescription	Stand ID <sup>1</sup>	Species	Age <sup>4</sup>	DBH	BA	TPA	SDI	Net Acres <sup>2</sup>
1	MC <sup>3</sup>	7293	DF,WH	55-75	18	273	157	66	24
		7311	DF,WH	59-61	17	235	150	58	6
		7323	DF	54-59	19	202	98	47	61
		7337*	DF,WH	39 est.	15	192	163	50	7

<sup>1</sup> The source of stand inventory information is from SLI grown to 2005. Stand ID shown with (\*) is from expanded SLIP information based on similar stands as of 11/2/2005.

<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

<sup>4</sup> Actual measured breast height ages are shown unless labeled "est."

### **III. DESIRED FUTURE CONDITION/VISION:**

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. The harvest operation will develop these stands into REG structure in the short term.

The sale will be planted with a mix of conifer species, predominantly Douglas-fir, and managed for timber production. Retaining some green trees, creating snags, adding down woody debris and planting a variety of tree species will provide habitat for early seral wildlife species between harvest intervals. It is anticipated that the newly established plantation will be scheduled for precommercial thinning at approximately age 15 and commercial thinning at approximately age 40 before the next modified clearcut harvest at age 60. The stand will move through the REG, CSC and UDS conditions between harvest intervals.

**Table 3. Stand Structure Information**

Area	Stand ID	Current	Post Harvest <sup>1</sup>	Desired Future	Net Acres
1	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 AND PATHWAY:**

**Modified Clearcut:**

A variety of methods will be used to achieve green tree retention requirements, which include green tree retention clumps, stream buffers and reserving tree species other than Douglas-fir and hemlock. Green tree retention is planned to be nine trees per acre. From these residual green trees, two 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, seven green trees per acre will remain available as a source for snags and DWD, which are expected to develop over time through natural processes.

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 90% Douglas-fir and 10% noble fir. At this time it is anticipated that the site will be prepared for planting by broadcast burning. Future management needed to move this site towards the stated vision include precommercial thinning at age 15, partial cut at age 40 and a modified clearcut at age 60 to 70.

**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:		<b>Tier Two</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 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.

Estimated project cost is \$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
Construction	0	0	0.3	0
Improvement	0	0	0	0
Maintenance	0	5.0	0.3	0
Vacation	0	0	0	0

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

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

There are several small Type N, perennial streams within the sale area. Riparian areas are a mix of conifer and hardwood.

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 or replacement in live streams should be needed. Culvert installment, if required, will be conducted between August 15 and September 15. Operations outside of this period will be reviewed with Oregon Department of Fish & Wildlife (ODFW).

**VIII. WILDLIFE AND T&E SPECIES CONSIDERATIONS:**

The sale areas have been reviewed with the ODF Northwest Oregon Area Biologist (Area Biologist).

Surveys for northern spotted owls were conducted in 2005 due to the presence of potentially suitable spotted owl habitat within and adjacent to the timber sale area. Toucan Sam was surveyed for spotted owls three times in 2005 with no responses, and the second year of survey will be completed in 2006. 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.

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:**

There are very few scattered steep slopes in the sale area. The initial hazard and risk assessment from the geotechnical specialist is low. The geotechnical specialist will be consulted if high landslide hazard locations are observed during field work to determine if a field visit is needed.

#### **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 and proposed road construction right-of-way were checked against the Tillamook State Forest Cultural Resource Inventory Database (GIS format). No cultural resource records were identified within or adjacent\* to the operation areas. If any significant cultural resources are located during sale preparation, the Public Use Coordinator (ODF Salem Staff) will be consulted regarding potential protection measures.

*\*Adjacent refers to approximately one tree length from an operation area. For the purpose of this screen, a 200 foot buffer around the sale boundary and proposed road construction right-of-way was assessed for cultural resource locations.*

**XII. SCENIC RESOURCES:**

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

**XIII. OTHER RESOURCE CONSIDERATIONS:**

No property survey is needed.

No other resources of significance are involved.

**XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:**

Area 1 contains Focused Stewardship, Aquatic and Riparian Habitat Subclass, due to the presence of perennial streams within the sale area. See Section VII, Aquatic Resources and Water Quality, for the management guidelines to be utilized.