

# Pre-Operations Report

**Operation Name: Larson Creek #2**

**County: Coos**

**Management Basin: 9**

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

Area	Type of Operation	Gross Acres	Net Acres
1	Clearcut	45	42
2	Clearcut	6	5
Total		52	47

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

This operation is a two-unit timber sale totaling 47 net acres. This timber sale is located on the western slope of the Coast Range in the Larson Creek watershed within Elliott State Forest Management Basin 9. This timber sale area is in close proximity to the Pacific Ocean, which has a dominant influence on the climate. The average annual rainfall is between 70-75 inches. Temperatures range from 32-90 degrees Fahrenheit throughout the year. This timber sale has an elevation of 160 to 1040 feet above sea level with slopes ranging from 30 percent to over 100 percent. Area 1 has a northerly aspect with some west and east faces, and Area 2 has a southerly aspect. Eocene sedimentary rocks underlie the area. Soil types are Milbury-Bohannon-Umpcoos associations. Slopes in both units are steep.

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

The majority of Area 1 is second growth Douglas-fir that originated after the Coos Bay fire of 1868. It is composed of 111 to 117 year-old Douglas-fir with a minor component of red alder and scattered understory hemlock. The southern portion of Area 1 and Area 2 is 77 year old Douglas-fir and red alder that originated after logging in the early 1900's. Table 2 contains stocking, size and age information for all the areas in this timber sale. There are few hard snags in the stand. Stand health is satisfactory which is typical for the Elliott State Forest.

**Table 2. Stand Inventory Information**

Area	Prescription	Stand ID <sup>1</sup>	Species	Age in 2006	DBH	BA	TPA	SDI	Acres <sup>2</sup>
1	CC	2003	DF,WH	117	29	133	28	25	21
1	CC	1905	DF,CX	111	29	133	28	25	19
1	CC	1990	DF,CX	77	16	57	37	14	2
2	CC	1990	DF,RA	77	16	57	37	14	5
	Target <sup>3</sup>		DF,WH		16	3	3	1	47

1. The Stand ID data source is (SLI) current records.

2. The acres are based on GIS, and exclude interior roads, streams buffers, reserve areas, etc.

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

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

The desired condition is a young age class stand to provide early successional habitat in accordance with the Balanced Landscape strategy of the Elliott State Forest Management Plan. It will be composed of Douglas-fir other conifer species including hemlock and red cedar. Red alder will also naturally regenerate in the stand. Green trees retained during this operation will provide for multi-story stand structures valuable for wildlife. This mix of planted and natural regeneration will comprise the next planned rotation.

**Table 3. Stand Structure Information (Does not apply Elliott State Forest)<sup>1</sup>**

### **IV. PROPOSED MANAGEMENT PRESCRIPTION:**

The prescription for this sale is to harvest most of the overstory, leaving standing trees within buffer areas and scattered in selected locations in or along the edge of the sale unit.

Site Preparation and Planting - Site preparation will be achieved by yarding disturbance and treating residual brush with herbicide prior to planting. The site will be planted with conifer seedlings at approximately 400-500 trees per acre.

Green Tree Retention - A minimum of about 141 trees (about 3 per acre) will be left in or adjacent to Areas 1 and 2. Emphasis will be given to retention of conifer species other than Douglas-fir. Some of these trees will be topped and/or girdled for snag creation. Single green trees will not be left unless localized soil conditions provide for wind firmness and logging conditions are suitable. The location and final number of retained trees will be determined during the sale prep process. Emphasis may be given to widening riparian management areas.

Snag Retention and Creation - Existing snags within the sale area will be left,

with the exception of those that endanger work crews. Green trees may be girdled or topped to leave approximately 24 topped trees in Areas 1 and 2 (about one tree per 2 acres harvested). Specific instructions for selecting, girdling, and topping trees will be provided by the Southern Oregon Area Biologist during the timber sale layout process.

Down Log Retention - At least 141 logs (3 logs per acre harvested) will be left in or adjacent to Areas 1 and 2 for habitat purposes in accordance with the Elliott State Forest Management Plan. Down logs shall meet the following minimum specifications: 16 feet in length and 12 inches diameter at the large end. Down logs shall be left in stable locations to minimize safety concerns to tree planters and other forest workers.

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

**Table 4. Timber and Revenue**

Ownership		Sale Type	
BOF	CSL	Cash	Recovery
1%	99%		X
Planned Quarter:		1	

	Conifer	Hardwood	Total
Net Volume (MBF)	1,645	8	1653
Stumpage Value (\$/MBF)	350	360	
Estimated Gross Value	575,750	2,880	578,630
		Project Costs:	10,000
		Estimated Net Value:	568,360

**VI. HARVESTING AND ACCESS CONSIDERATONS:**

All legal access to the sale is obtained and there are no property lines needing to be surveyed. Access to Area 1 is from the 3170 road. Winter harvesting will require purchaser supplied rock. If new landings and short access spurs are constructed in Area 1, final locations will be determined during the sale preparation process. The rocked collector spurs are in good shape and will require only maintenance or minor improvement. The dirt segments of the 3170 road will be examined during the timber sale preparation process for maintenance and determination if pullback of sidecast is necessary. An unnumbered dirt spur in Area 1 will be evaluated for vacating and for the need for any sidecast pull back since this portion of the road was built prior to full containment construction requirements. Final stockpile requirements will be determined during the timber sale preparation process.

The sale areas will be cable yarded up hill. Full suspension will be required over  
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stream channels and single end suspension on the remainder of the sale area. Trees will be felled parallel or away from the residual trees and Riparian Management Areas.

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

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construct	0.0	0.0	0.0	0.0
Improve	0.0	0.0	0.07	0.0
Maintain	0.0	0.0	0.54	0.0
Close/Block	0.0	0.0	0.0	0.0
Vacate	0.0	0.0	0.0	0.0

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

The sale area is located within Larson Creek watershed. Streams associated with these sale areas were surveyed to ODFW protocol in 1997 and 2006 for fish presence. All drainages associated with the sale area were field surveyed during the 2006 summer low flow period to determine the stream channel extent and whether streamflow is perennial or seasonal. A medium Type F perennial stream bisects Areas 1 and 2. The eastern and western streams adjacent to Area I are perennial Type N streams, with the exception of the bottom 100 feet of the western reach. The remaining drainages in the sale area are classified as small seasonal Type N debris flow track reaches.

There are no known water rights within or downstream of the proposed operation.

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

The older habitat within this sale area may be suitable for certain T and E species. This sale is planned under the standards of the Elliott State Forest Management and Habitat Conservation Plans and other Oregon Department of Forestry (ODF) policy. The specific measures are as follows:

NSO Habitat Retention - There is no minimum acreage for NSO nesting, roosting, and foraging habitat in Basin 9 above the required reserve acres. Reserve acres in this basin include 1127 acres (18%) that will be continually retained in riparian management areas, habitat conservation areas and other conservancy acres. Fifty percent of this basin (3106 acres) must provide dispersal habitat. After this sale plan, there will be about 4272 acres of dispersal habitat retained which includes 73 acres of in-growth in 2007 and 90 acres of in-growth in 2008.

Marbled Murrelet - The sale areas were surveyed according to protocol

standards during the 2005 and 2006 survey seasons. Currently, no areas of the timber sale are within 330 feet of a Marbled Murrelet Management Area. The Larson Bottom Marbled Murrelet Management Area is within one-quarter mile of portions of the timber sale.

Bald Eagle, Other - There are no known bald eagle nest sites or other listed animal species in the vicinity of this sale.

Salmon and Steelhead – Areas 1 and 2 are within 100 feet of a Type F stream.

Plants - No listed plant records were identified within the sale area.

Fragmentation - This timber sale bisects an isthmus of contiguous timber that is adjacent to the timber sale on the northern and southwestern boundary,

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

This sale area has had an office review by an ODF geo-technical specialist. A closer examination will be made during the sale layout process to determine if other site specific protection measures will be necessary. Generally, portions of the slopes appear to meet criteria for classification as high landslide hazard locations (in the Tye Core Area uniform slopes greater than 75% and/or planform concave slopes greater than 65%). Deliverability of wood via debris flows or torrents is likely for landslides originating in the units.

Area 1 debris torrent source areas: There appear to be two very small basins on the north aspect slope which have steep, convergent topography and are likely source areas which have deliverability to Larson Creek. There are two areas of convergent topography in the south-east corner of the unit which are likely source areas with deliverability to the tributary and Larson Creek. Steep uniform slopes on the west aspect slope are likely source areas for the tributary with deliverability to Larson Creek.

Area 2 debris flow source areas: Slopes in the unit would likely deliver wood material to Larson Creek via debris flow.

To minimize yarding impacts on the slopes, single end suspension cable yarding will be required. Roads will be located on ridge-crests as much as possible and any steep sidehill portions will be constructed with full bench end-haul design and construction. Construction will be done during the dry season.

**X. RECREATION RESOURCES:**

The most common recreation for this area is hunting and dispersed undeveloped recreation. Harvesting of these units will provide forage area to help promote healthy deer and elk populations. In addition, areas of bare soil around road edges and landings will be grass seeded after logging to provide forage. Surrounding forest types provide escape cover. No conflict is seen with respect to the undeveloped, dispersed recreation usage of the forest.

**XI. CULTURAL RESOURCES:**

There are no cultural sites associated with this sale.

**XII. SCENIC RESOURCES:**

The units are not within any scenic management areas.

**XIII. OTHER RESOURCE CONSIDERATIONS:**

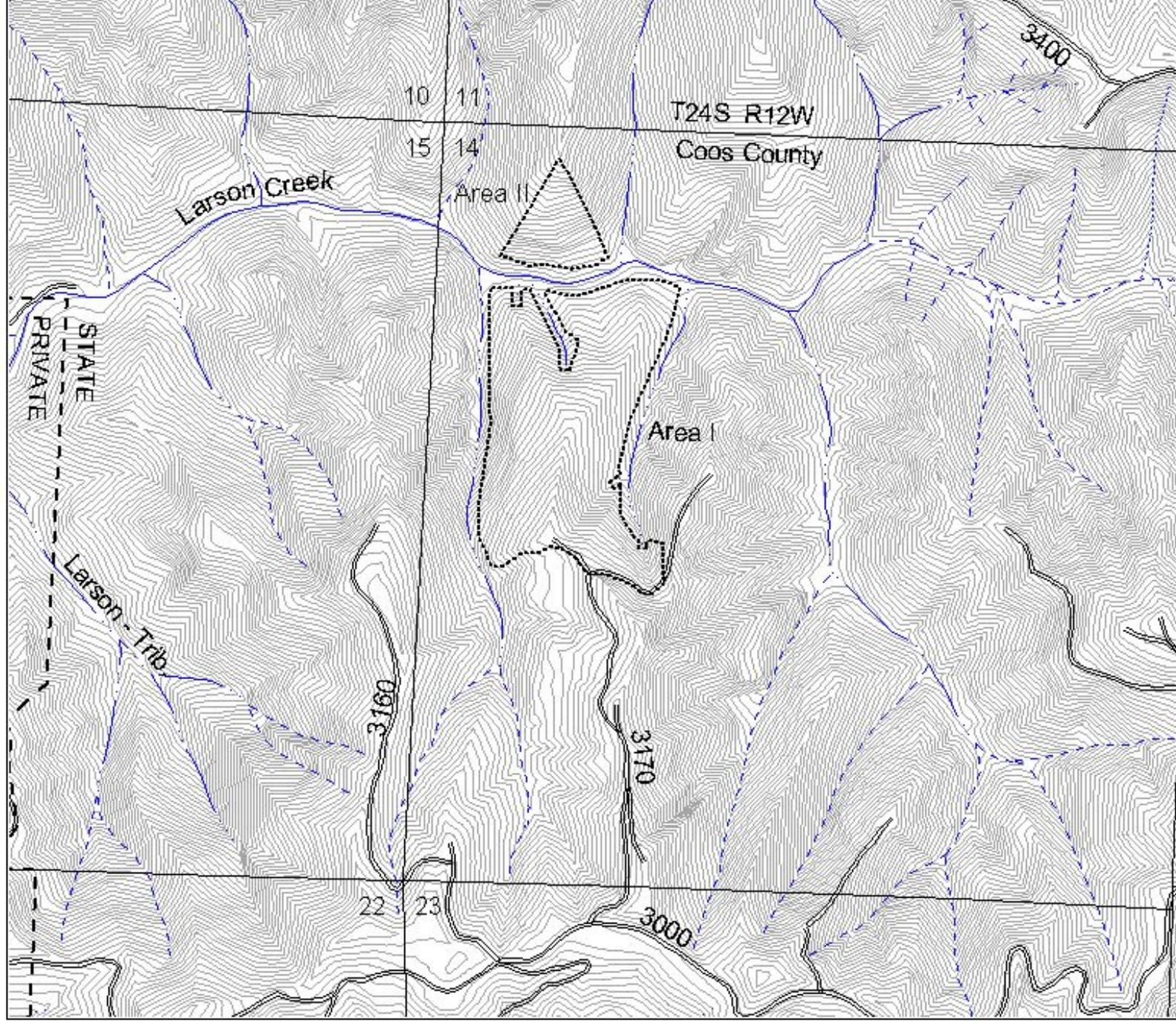
There are no other known resource considerations associated with this sale.

**XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:**

**Table 6. Land Use Classification Summary**

Area	Production
1	42
2	5

This table summarizes the acres in each land use class within the operation.



- Timber Sale Boundary
- Elliott State Forest Boundary
- Type F Streams
- Type N Perennial Streams
- Type N Seasonal Streams
- Unclassified
- Existing Road
- 20 Foot Contours
- Section Lines

**Larson Creek #2 Timber Sale**  
**Areas 1 and 2**  
**-- Topography --**  
**FY 08 Sale Plan**  
**Coos District**

Portions of Section 14  
 T24S, R12W, W.M.  
 Coos County, Oregon



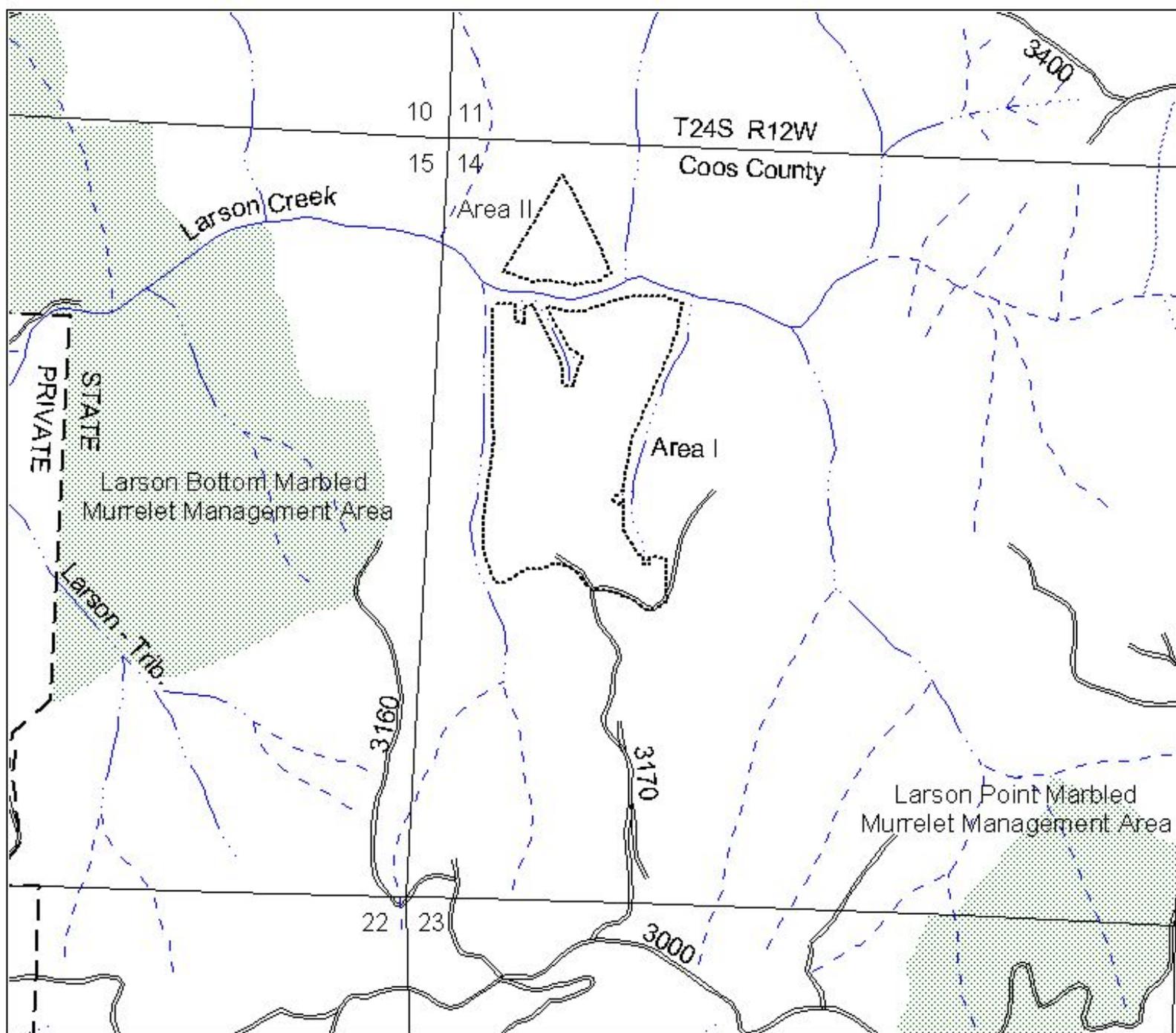
1000      0      1000 Feet

1"=1000'

Sale Area	Harvest Type	Net Acres
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**Larson Creek #2 Timber Sale**

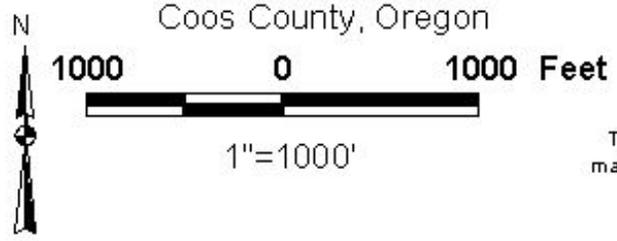
**Areas 1 and 2**

**-- Key Resources --  
FY 08 Sale Plan  
Coos District**

Portions of Section 14  
T24S, R12W, W.M.  
Coos County, Oregon

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- Timber Sale Boundary
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- Unclassified
- Existing Road
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- Marbled Murrelet Management Area



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