

# Pre-Operations Report

**Operation Name: Young Marlow**  
**County: Coos**  
**Management Basin: 10**

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

Area	Type of Operation	Gross Acres	Net Acres
1	Clearcut	124	115

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

This operation is a one-unit timber sale totaling 115 net acres. This timber sale is located on the western slope of the Coast Range in the Marlow Creek watershed within Elliott State Forest Management Basin 10. 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 75-80 inches. Temperatures range from 20-95 degrees Fahrenheit throughout the year. This timber sale has an elevation of 440 to 1440 feet above sea level with slopes ranging from 60 percent to over 80 percent. The dominant aspect of the sale area is south with some east and west faces. Eocene sedimentary rocks underlie the area. Soil types consist of Preacher-Bohannon loams with some Milbury-Bohannon-Umpcoos association.

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

The timber sale is predominantly third growth Douglas-fir that originated from logging which occurred in the 1940's and 1970's. There are two distinct cohorts in this sale. The primary stands are composed of approximately 71 acres of 65 to 68 year-old Douglas-fir with a significant component of red alder, bigleaf maple and scattered understory hemlock trees. The secondary stands are composed of approximately 44 acres of 30 to 36 year-old mixed Douglas-fir and western hemlock. The sale area also contains small patches of timber older than 70 years and individual residual trees that were retained from operations 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.

**Table 2. Stand Inventory Information**

Area	Prescription	Stand ID <sup>1</sup>	Species	Age in 2008	DBH	BA	TPA	RD	Acres <sup>2</sup>
1	CC	1709	DF, WH	30	13	194	204	53	5
1	CC	1710	DF, RA	36	11	166	275	50	27
1	CC	1711	DF, RA, BM, WH	65	17	229	139	56	20
1	CC	1712	DF, WH	68	16	178	125	45	51
1	CC	1713	DF, WH, RA	34	11	146	220	43	12
1	Target <sup>3</sup>	1709, 1710, 1711, 1712, 1713	DF, WH, BM, RC		16	8	3	1	115

1. The source of stand inventory information is (ROOTS) from 2008 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 RD) 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 mainly Douglas-fir with a smaller component of other conifer species, possibly including hemlock and/or red cedar. Red alder and bigleaf maple will also naturally regenerate in the stand. Green trees retained from the previous rotation 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 403 trees (about 3.5 per acre) will be left in or adjacent to the sale area. Emphasis will be given to retention of conifer species other than Douglas-fir. Single green trees will not be left unless localized soil conditions provide for wind firmness and logging conditions are suitable. The location of retained trees will be determined during the sale prep

process. Emphasis may be given to widening riparian management areas.

Snag Retention and Creation – A portion of this sale is categorized as a young stand and has very little to no existing snag component, therefore, the Green Tree Retention requirements for the sale area have been increased from 3 trees per acre to 3.5 trees per acre. Locations for snag creation in the older age class stands will be explored during the sale preparation phase.

Down Log Retention - At least 345 logs (3 logs per acre harvested) will be left in or adjacent to the sale area 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.

**V. ESTIMATED TIMBER AND REVENUE OUTPUTS**

**Table 4. Timber and Revenue**

Ownership		Sale Type	
BOF	CSL	Cash	Recovery
100%			X
Planned Quarter:		alternate	

	Conifer	Hardwood	Total
Net Volume (MBF)	2,993	203	3,196
Stumpage Value (\$/MBF)	250	300	
Estimated Gross Value	748,250	60,900	809,150
		Project Costs:	59,650
		Estimated Net Value:	749,500

**VI. HARVESTING AND ACCESS CONSIDERATONS:**

Access to the sale area will be via the 1000 road and 1370 roads through Weyerhaeuser Co. land. Use of these roads are covered by an existing agreement. There is a short section of property line (~100 feet) on the east boundary that is against Weyerhaeuser just north of where the property line crosses the 1000 road. Existing access to the sale area is from the 1372 and 1376 roads, both rocked spurs in good shape, and the 1377 road, a rocked spur which may need some improvement, and the 1378 road, a dirt spur requiring improvement. A portion of the 1376 road is located within the Henry's Bend Marbled Murrelet Management Area and will be seasonally restricted for hauling. The 1377 road may be extended and new landings constructed. Final locations will be determined during the sale preparation process. The segments of the 1377 and 1378 roads that are within/adjacent to the sale area will be examined to determine if pullback of sidecast is necessary.

The sale area will be cable yarded up hill from landings on the 1377 and 1378 roads, with a small portion above the 1377 road to be down hill yarded. Approximately 40 acres in the southern part of the sale is behind an intervening ridge and will require a multispan yarding system in order to yard this portion.

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

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construct	0.0	0.0	0.1	0.0
Improve	0.0	0.0	0.4	0.0
Maintain	0.0	0.9	0.0	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 the Marlow Creek watershed, a large size Type F tributary of the East Fork Millicoma River. The streams associated with this sale were surveyed to ODFW protocol for fish presence in 1997. The tributary along the western boundary was surveyed again to protocol in 2006. Marlow Creek is classified as a medium Type F along the southern boundary of the sale area. The tributary along the western sale boundary is classified as a small Type F. The remainder of the drainages inside the sale area and bordering the northeast are classified as small Type N's. All drainages associated with the sale area were field surveyed during the 2007 summer low flow period to determine the stream channel extent and whether streamflow is perennial or seasonal. The stream near the eastern boundary is perennial for approximately 750 feet from it's confluence with Marlow Creek and transitions to a seasonal channel for another 600 feet. There is one perennial stream approximately 350 feet long along the southern boundary flowing from the sale area. There is one seasonal channel of approximately 1,500 feet in the western side and 3 seasonal channels in the northwest part of the sale area.

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

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

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 10 above the required reserve acres. Reserve acres in this basin include 844 acres (17%) that will be continually retained in riparian management areas, habitat conservation areas and other conservancy acres. After this sale plan, there will

be about 3,463 acres of dispersal habitat retained within this basin which includes 45 acres of in-growth in 2007 and 74 acres of in-growth in 2009. In this basin a minimum of 2,465 acres of dispersal habitat must be maintained.

Marbled Murrelet – Despite stands within this sale being relatively young, the sale area does contain small patches of potentially suitable marbled murrelet habitat that are remnants from past harvest operations. The patches within the sale area were surveyed to protocol in 2007 and surveyed utilizing approved PSG tree climbing protocol in 2008. No evidence of murrelet occupancy was found. A narrow strip within the southern part of the sale along Marlow Creek is within 330 feet of the Marlow Bottom Marbled Murrelet Management Area and a portion of the sale is within one-quarter mile of the Henrys Bend Marbled Murrelet Management Area. ODF's Southern Oregon Area Biologist will determine the application of seasonal restrictions during sale layout to comply with ODF's policies for the marbled murrelet.

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

Salmon and Steelhead – Approximately 850 feet of the western boundary and the entire southern boundary are within 100 feet above Type F streams. There are no suitable locations for placement of large wood into Marlow Creek or tributaries associated with this sale.

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

Fragmentation - This sale area is predominately a young stand and harvesting will not increase fragmentation of interior mature forest habitat.

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

This sale has had a map review by an ODF geotechnical specialist. A closer examination will be made during the sale layout process to determine if additional geotechnical review is needed. Most of the unit appears to meet criteria for classification as high landslide hazard locations (uniform slopes greater than 75% and/or planform concave slopes greater than 65%). Streams draining the unit appear to have deliverability to the mainstem of Marlow Creek, however the 1000 road will likely intercept most of the debris flow material of all but the largest debris flows. Debris flows originating in the lower basin of Marlow-tributary are likely to deliver wood to the fish bearing portion of the tributary. Debris flows originating on the slope below the 1377 road have direct delivery to the non-fish reach of Marlow-trib. Large wood may subsequently be mobilized during high peak flows and carried down stream to the fish bearing reach of Marlow-T.

**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:**

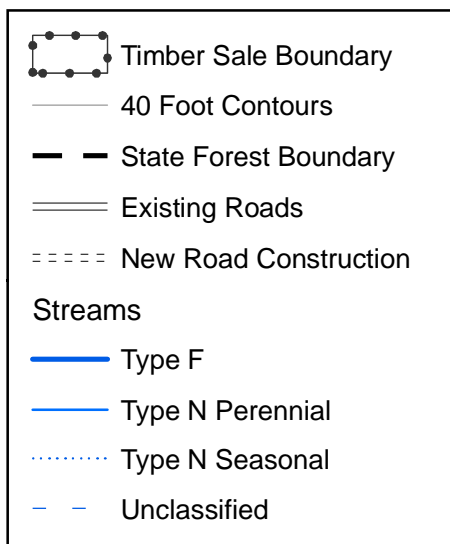
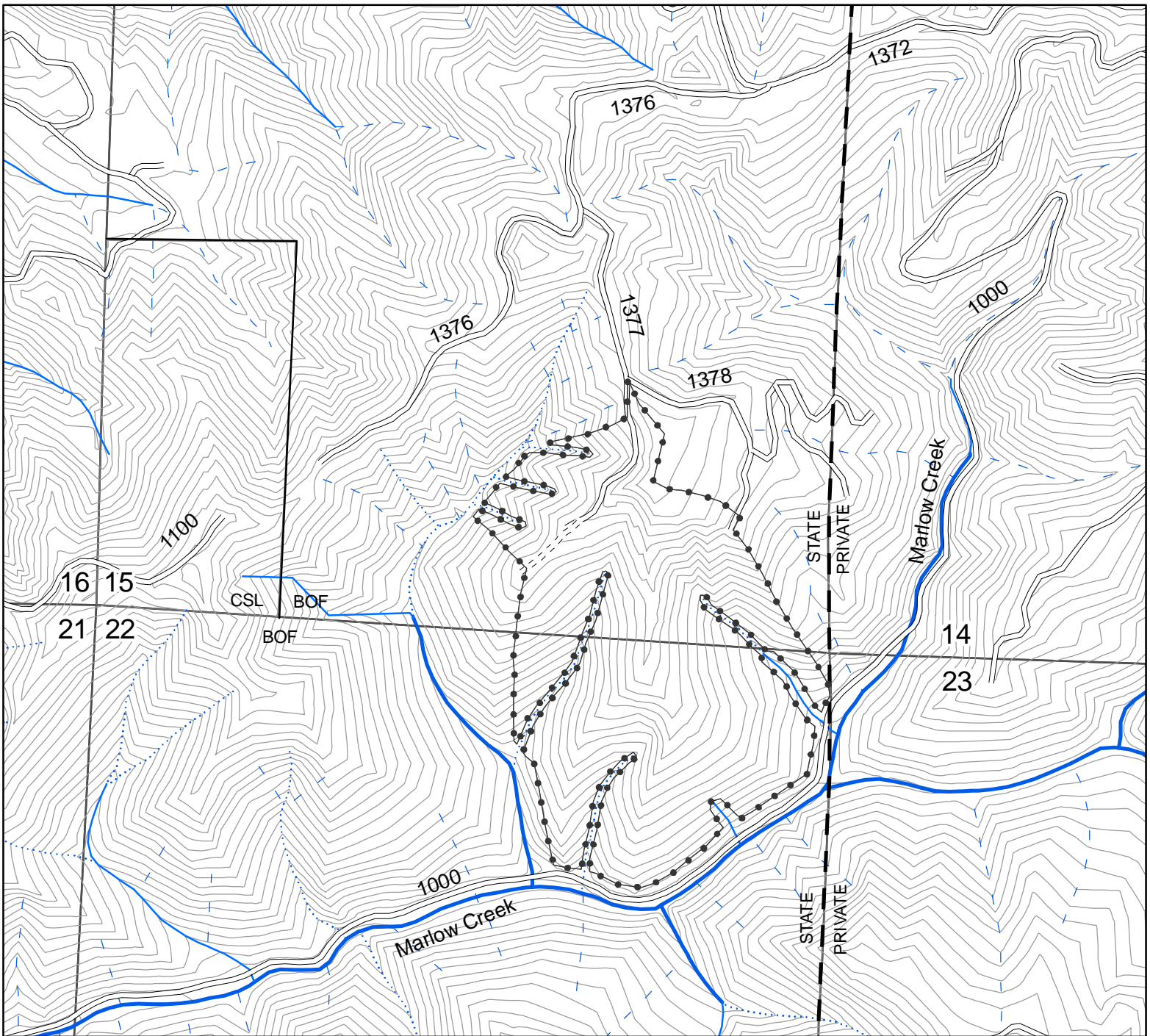
There are no other known resource considerations associated with this sale.

**XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:**

**Table 6. Land Use Classification Summary**

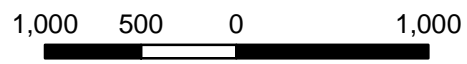
Area	Production
1	115

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



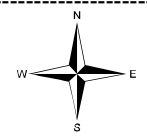
Young Marlow  
 -- Topography --  
 FY 2010 Sale Plan  
 Coos District

Portions of Sections  
 15 and 22  
 T24S, R11W, W.M.  
 Coos County, Oregon



Scale 1 : 12,000

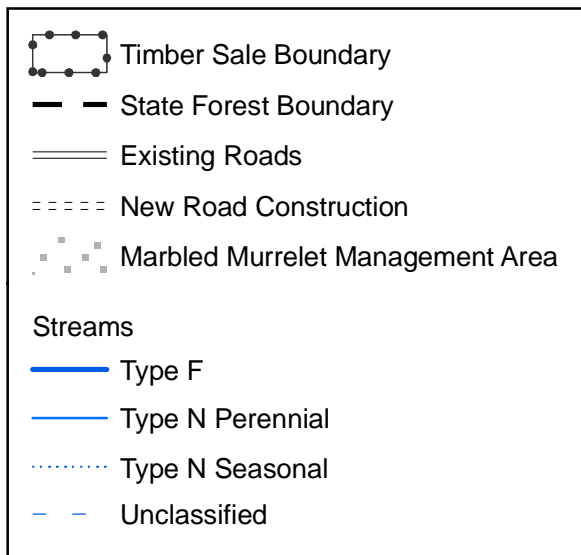
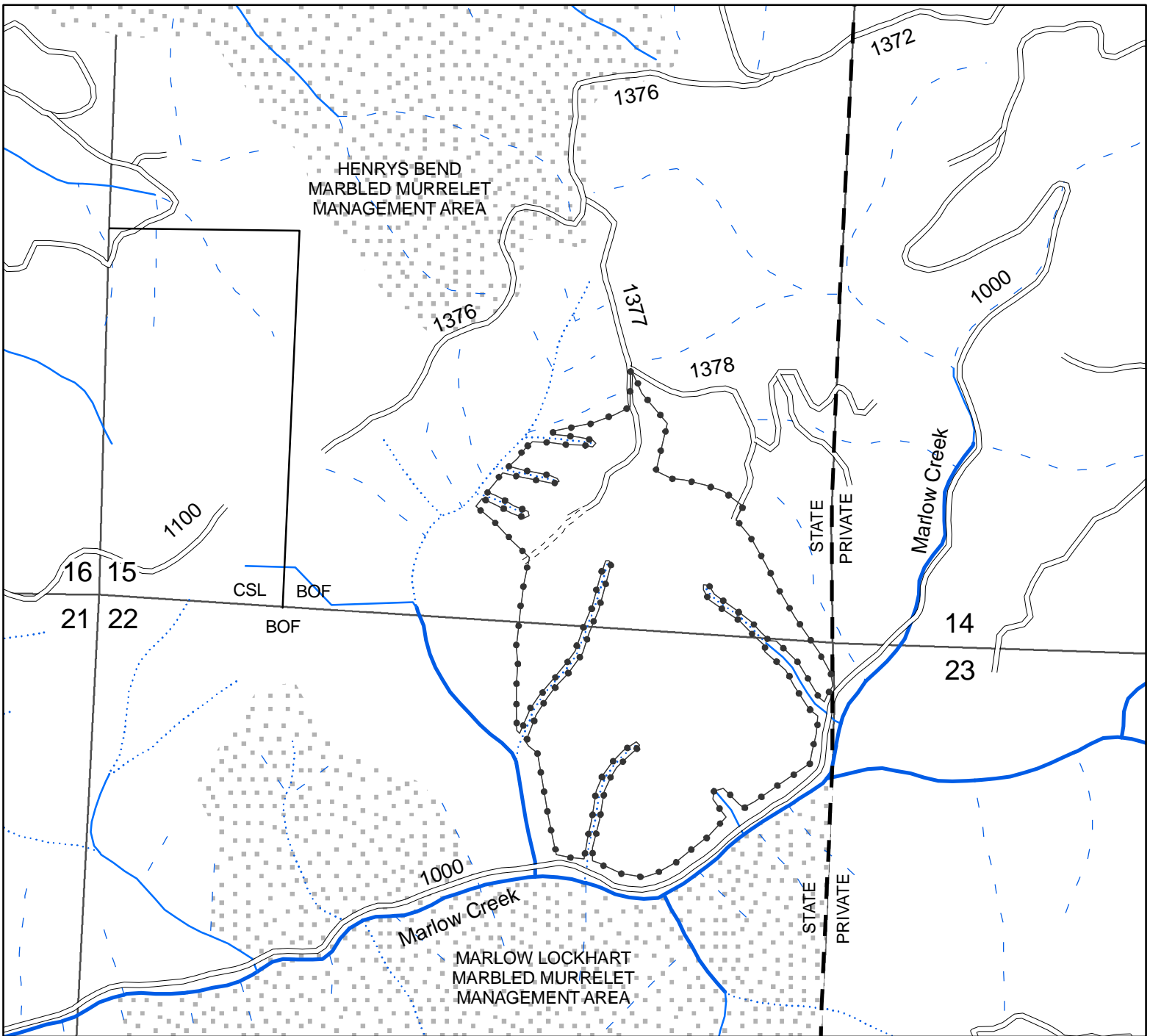
Sale Area	Harvest Type	Net Acres
1	clearcut	115



Coos District GIS  
 08/08/2008

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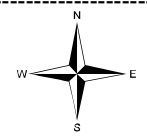
ATTACHMENT A



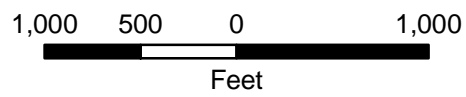
**Young Marlow  
-- Key Resources --  
FY 2010 Sale Plan  
Coos District**

Portions of Sections  
15 and 22  
T24S, R11W, W.M.  
Coos County, Oregon

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