

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	126	117

I. PHYSICAL DESCRIPTION OF OPERATION AREA:

This operation is a one-unit timber sale totaling 117 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 72 acres of 64 to 67 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 45 acres of 29 to 35 year-old mixed Douglas-fir and western hemlock. The sale area also contains small patches 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	Veg Code ¹	Species	Age in 2007	DBH	BA	TPA	RD	Acres ²
1	CC	1709	DF, WH	29	11	189	290	56	5
1	CC	1710	DF, RA	35	10	163	301	50	27
1	CC	1711	DF, RA, BM, WH	64	19	153	78	36	22
1	CC	1712	DF, WH	67	19	152	80	36	50
1	CC	1713	DF, WH, RA	33	11	118	190	35	13
1	Target ³	1709, 1710, 1711, 1712, 1713	DF, WH, BM, RC		20	8	3	1	117

1. The source of stand inventory information is (ROOTS) from 2007 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)¹

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 409 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 351 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)	2,500	200	2,700
Stumpage Value (\$/MBF)	400	400	
Estimated Gross Value	1,000,000	80,000	1,080,000
		Project Costs:	59,650
		Estimated Net Value:	1,020,350

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. The eastern property boundary will need to be marked on the ground by the District Engineering Team prior to posting the sale boundary. Existing access to the sale area is from the 1372 and 1376 roads, both rocked collector spurs in good shape, and the 1377 road, a rocked collector spur which may need some improvement, and the 1378 road, a dirt collector 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	0.90	0.5	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 Marlow –T stream along the western boundary is perennial for approximately 850 feet upstream from it's confluence with Marlow Creek. There are 2 perennial streams, one approximately 350 feet long and the other 700 feet, along the southern boundary flowing from the sale area. All other streams and drainages associated with the sale area were determined to be seasonal. Marlow Creek and all perennial streams and seasonal streams with defined channels will be buffered according to RMA standards of the Northwest Oregon State Forests Management Plan.

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 1,805 acres

(36%) that will be continually retained in riparian management areas, habitat conservation areas and other conservancy acres. Fifty percent of this basin (2465 acres) must provide dispersal habitat. After this sale plan, there will be about 3395 acres of dispersal habitat retained within this basin which includes 82 acres of in-growth in 2006, 45 acres of in-growth in 2007, and 74 acres of in-growth in 2009.

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, in lieu of surveys in 2008 we will climb trees in consultation with USFW. 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 all of the 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 - The sale area was checked against district knowledge for any listed plant location. The sale area was also checked against the Oregon Natural Heritage Program (ONHP) database of known listed plant locations. 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-T 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-T. 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:

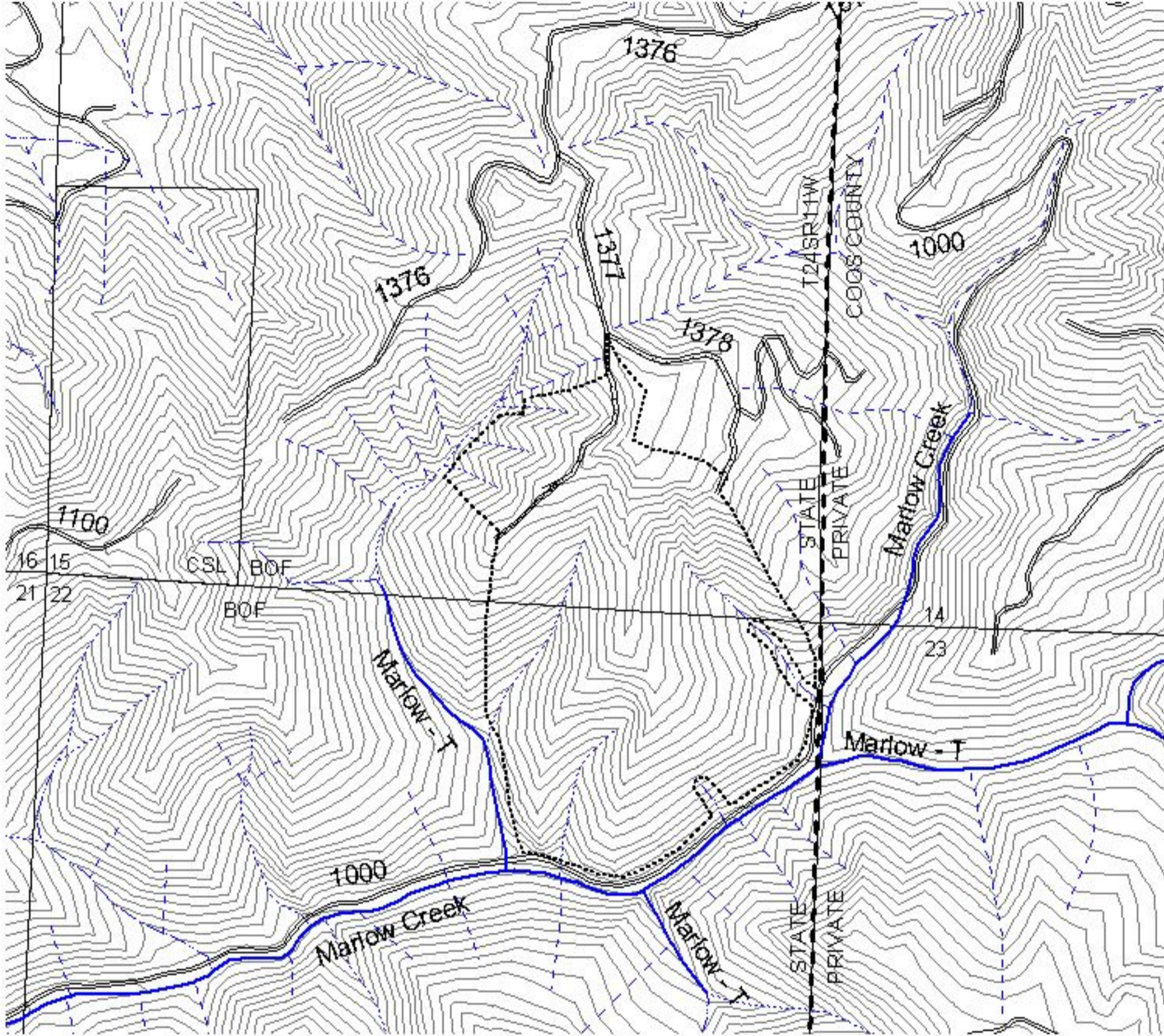
There are no other known resource considerations associated with this sale.

XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:

Table 6. Land Use Classification Summary

Area	Production
1	117

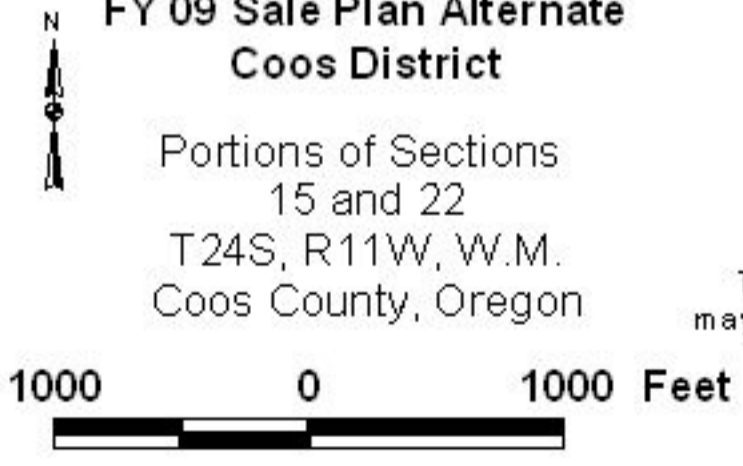
This table summarizes the acres in each land use class within the operation.



- Timber Sale Boundary
- Type F perennial streams
- Type N perennial streams
- Type N seasonal streams
- Type N unclassified streams
- Existing Roads
- New Construction
- Road Improvement
- State Forest Boundary
- Section Lines
- 40 Foot Contours

**YOUNG MARLOW
TIMBER SALE
-- Topography --
FY 09 Sale Plan Alternate
Coos District**

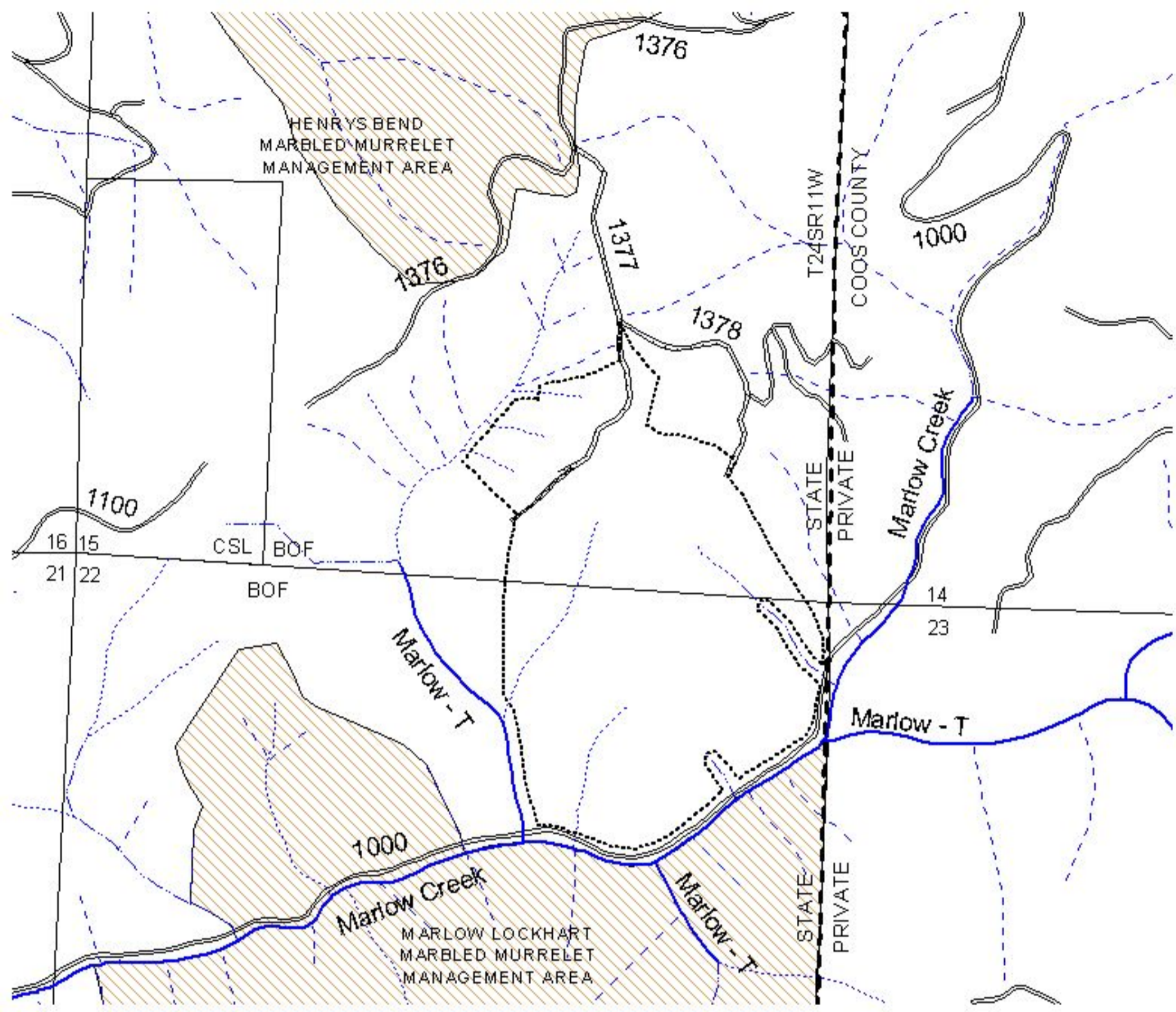
Portions of Sections
15 and 22
T24S, R11W, W.M.
Coos County, Oregon



Sale Area	Harvest Type	Net Acre
	clearcut	117
Total		117

Coos District GIS
09/12/07

This product is for information use and may not have been prepared for, or suitable for legal, or surveying purposes.

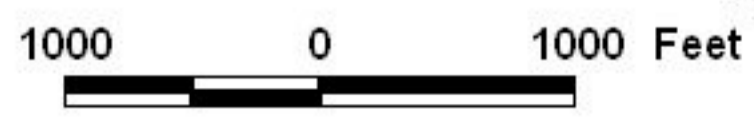


- Timber Sale Boundary
- Type F perennial streams
- Type N perennial streams
- Type N seasonal streams
- Type N unclassified streams
- Existing Roads
- New Construction
- Road Improvement
- State Forest Boundary
- Section Lines
- Marbled Murrelet Management Area

**YOUNG MARLOW
TIMBER SALE
-- Key Resources --
FY 09 Sale Plan Alternate
Coos District**

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

Sale Area	Harvest Type	Net Acre
	clearcut	117
Total		117



1" = 1000'

Coos District GIS
09/12/07

This product is for information use and may not have been prepared for, or suitable for legal, or surveying purposes.