

Pre-Operations Report

Operation Name: Piledup Marlow

County: Coos

Management Basin: 10

Table 1. Operation Areas, Types and Acres

Area	Type of Operation	Gross Acres	Net Acres
1	Clearcut	43	40
2	Clearcut	23	22
3	Clearcut	5	5
Total		71	67

I. PHYSICAL DESCRIPTION OF OPERATION AREA:

This operation is a three-unit timber sale totaling 67 net acres. This timber sale is located on the western slope of the Coast Range in the Y Creek and Marlow Creek watersheds 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 70-75 inches. Temperatures range from 32-75 degrees Fahrenheit throughout the year. This timber sale has an elevation of 300 to 1200 feet above sea level with slopes ranging from 40 percent to over 100 percent. Area 1 is dominantly a westerly aspect with some south faces, Area 2 has a southerly aspect with some west faces, and Area 3 has an easterly aspect. Eocene sedimentary rocks underlie the area. Soil types consist of Preacher-Bohannon loams with some Milbury-Bohannon-Umpcoos association. Slopes in all units are generally steep with some gentler terrain.

II. CURRENT STAND CONDITION:

The timber sale is second growth Douglas-fir that originated after logging which occurred from 1900 to the 1930's. It is composed of 74 to 78 year-old Douglas-fir with a minor component of red alder and scattered understory hemlock trees, and approximately 1 acre of 43 year-old Douglas-fir. 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 Forest. The sale area is located outside of the current area of concern for Swiss needle cast.

Table 2. Stand Inventory Information

Area	Prescription	Veg Code ¹	Species	Age in 2004	DBH	BA	TPA	SDI	Acres ²
1	CC	1737	DF, WH	78	17	206	125	50	16
1	Target ³	1737	DF, WH	78	15	4	3	1	16
1	CC	1749	DF, WH	74	16	256	183	64	24
1	Target ³	1749	DF, WH	74	14	4	3	1	24
2	CC	1815	DF, WH	74	19	174	82	40	21
2	Target ³	1815	DF, WH	74	16	5	3	1	21
2	CC	1750	RA, DF	43	12	95	121	26	1
2	Target ³	1750	RA, DF	43	12	3	3	1	1
3	CC	1737	DF, WH	78	17	206	125	50	5
3	Target ³	1737	DF, WH	78	15	4	3	1	5

1. The source of stand inventory information is (OSCUR) from 2000 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 mainly Douglas-fir and may have a smaller component of other conifer species including hemlock and/or red cedar. Red alder will also naturally regenerate in the stand. Green trees retained from the previous rotation will provide for multi-story stand structures valuable for wildlife.

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 201 trees (about 3 per acre) will be left in or adjacent to Areas 1, 2 and 3. Emphasis will be given to retention of conifer species other than Douglas-fir. Some of these trees will be topped 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 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. Tops will be blown or sawn off green trees to leave approximately 23 topped trees in Areas 1 and 3 (about one tree per 2 acres harvested), and 11 topped trees in Area 2 (about one tree per 2 acres harvested).

Down Log Retention - At least 201 logs (3 logs per acre harvested) will be left in or adjacent to Areas 1, 2 and 3. Down logs shall meet the following minimum specifications: 16 feet in length and 12 inches diameter at the large end. In-stream large wood placement will be implemented adjacent to Areas 1 and 2 in Marlow and Y Creeks for habitat purposes in accordance with the Elliott State Forest Management Plan.

Burning - Portions of the sale may be burned depending on the amount and distribution of the slash and timing of sale completion. The main purpose of this type of burn is to provide for biological diversity and improved big game forage rather than site preparation. However, portions of the sale may be burned, if planting spots are too few to attain adequate stocking.

V. ESTIMATED TIMBER AND REVENUE OUTPUTS:

Table 4. Timber and Revenue

Ownership		Sale Type	
BOF	CSL	Cash	Recovery
67%	33%		X
Planned Quarter:		2	

	Conifer	Hardwood	Total
Net Volume (MBF)	2,408	200	2,608
Stumpage Value (\$/MBF)	450	365	
Estimated Gross Value	\$1,083,600	73,000	1,156,600
		Project Costs:	80,000
		Estimated Net Value:	1,076,600

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 portions of Areas 1 and 2 are from the 1130 road. This road will require improvement and will be waterbarred and blocked at the completion of operations. Winter harvesting will require purchaser supplied rock. New landings may be constructed in Areas 1 and 2. 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. Final stockpile requirements will be determined during the timber sale preparation process.

The sale areas will be cable yarded up hill with small portions of the sale being down hill yarded in Area 1. Full suspension will be required over 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. Area 3 will be cable yarded from landings in Area 1.

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	0.0	0.0
Maintain	0.0	0.0	0.0	0.70
Close/Block	0.0	0.0	0.0	0.70
Vacate	0.0	0.0	0.0	0.0

VII. AQUATIC RESOURCES AND WATER QUALITY:

Riparian areas along streams will be managed to support properly functioning aquatic habitats over time by applying the riparian management area (RMA) standards of the Northwest Oregon State Forests Management Plan. These standards are planned for adoption in the revised Elliott State Forest Management Plan. The minimum standards used for riparian buffers are those listed in the Elliott State Forest Management Plan.

The sale area is located within the Y Creek and Marlow Creek watersheds, Y Creek is a small Type F stream draining into Marlow Creek. Marlow Creek is 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 1996 for the Y Creek, and 1997 for Marlow Creek. All drainages associated with the sale area were field surveyed during the 2005 summer low flow period to determine the stream channel extent and whether streamflow is perennial or seasonal. Opportunities for in-stream large wood placement in Y and Marlow Creeks exist during harvest operations. Area 1 is adjacent to a small Type F perennial stream (Y Creek) and Area 2 to a large Type F perennial stream (Marlow Creek). Area 1 has four small Type N seasonal streams flowing from it. A small type N perennial transitions to a small type F (Y Creek) about 1,700 feet up from the 1000 road. Area 2 has three small Type N seasonal streams flowing from it and a large Type F (Marlow Creek) at the bottom, parallel to the 1000 road. Both areas, 1 and 2, have potential debris flow tracks within the unit boundaries.

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

A written plan will be prepared in accordance with the Forest Practice Act for operations within 100 feet of a Type F stream. Cable layouts through or over buffer strips are needed to provide for adequate suspension of logs. To protect water quality, full suspension will be required over stream channels and single end suspension where feasible on the rest of the sale area. 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, and monitoring and managing logging and hauling operations during times of heavy rainfall.

All road construction and improvement will be done during the dry season and excavated material will be deposited on stable slope locations without the possibility of entering stream channels. Areas of bare soil associated with road and landing construction will be grass seeded when operations are completed.

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 10 above the required reserve acres. Reserve acres in this basin include 1,805 acres (36%) that are being 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 3764 acres of dispersal habitat retained which includes 82 acres of in-growth in 2006 and 45 acres of in-growth in 2007.

Marbled Murrelet - Two years of protocol surveys were completed during the 2004 and 2005 survey seasons. These surveys showed no occupancy. No portion of any of the sale units are within 330' of a Marbled Murrelet Management Area.

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

Salmon and Steelhead – Area 1 and 2 are within 100 feet above Type F streams. A written plan will be prepared in accordance with the Forest Practice Act for operations within 100 feet of two Type F streams. Cable layouts through or over buffer strips are needed to provide for adequate suspension of logs. To protect water quality, full suspension will be required over stream channels and single end suspension where feasible on the rest of the sale area. Riparian areas along streams will be managed to support properly functioning aquatic habitats over time by applying the riparian management area (RMA) standards of the Northwest Oregon State Forests Management Plan. These standards are planned for adoption in the revised Elliott State Forest Management Plan. Opportunities for placement of large wood have been identified for all of the sale units where cable layouts cross Y and Marlow Creeks. These placed log structures will create pools and gravel beds, and improve wintering habitat. Locations and quantities of large wood placement will be identified during the sale preparation process with guidance from ODFW and the SOA Biologist.

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 - The sale areas are located on the edge of a contiguous block of mature timber and do not increase fragmentation of interior habitat.

IX. SLOPE STABILITY AND GEOTECHNICAL ISSUES:

This sale area has had an office review by an ODF geotechnical specialist. A closer examination will be made during the sale layout process to determine if other site specific protection measures will be necessary. Portions of the slope 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%).

Area 1: Four small streams drain this unit. They appear to be potential debris flow tracks. Debris flow material is likely to be delivered to type F "Y" Creek. Potential debris flow track reach management standards apply.

Area 2: Three small streams drain this unit. They appear to be potential debris flow tracks. Debris flow material is likely to be delivered to type F "Y" Creek. Potential debris flow track reach management standards apply.

Area 3: The steep slopes above "Y" Creek appear likely to deliver an open-slope debris flow to the stream. Debris flow material is likely to be delivered to type F "Y" Creek.

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. There are no scenic management constraints for this sale. No significant conflicts with users are anticipated.

XIII. OTHER RESOURCE CONSIDERATIONS:

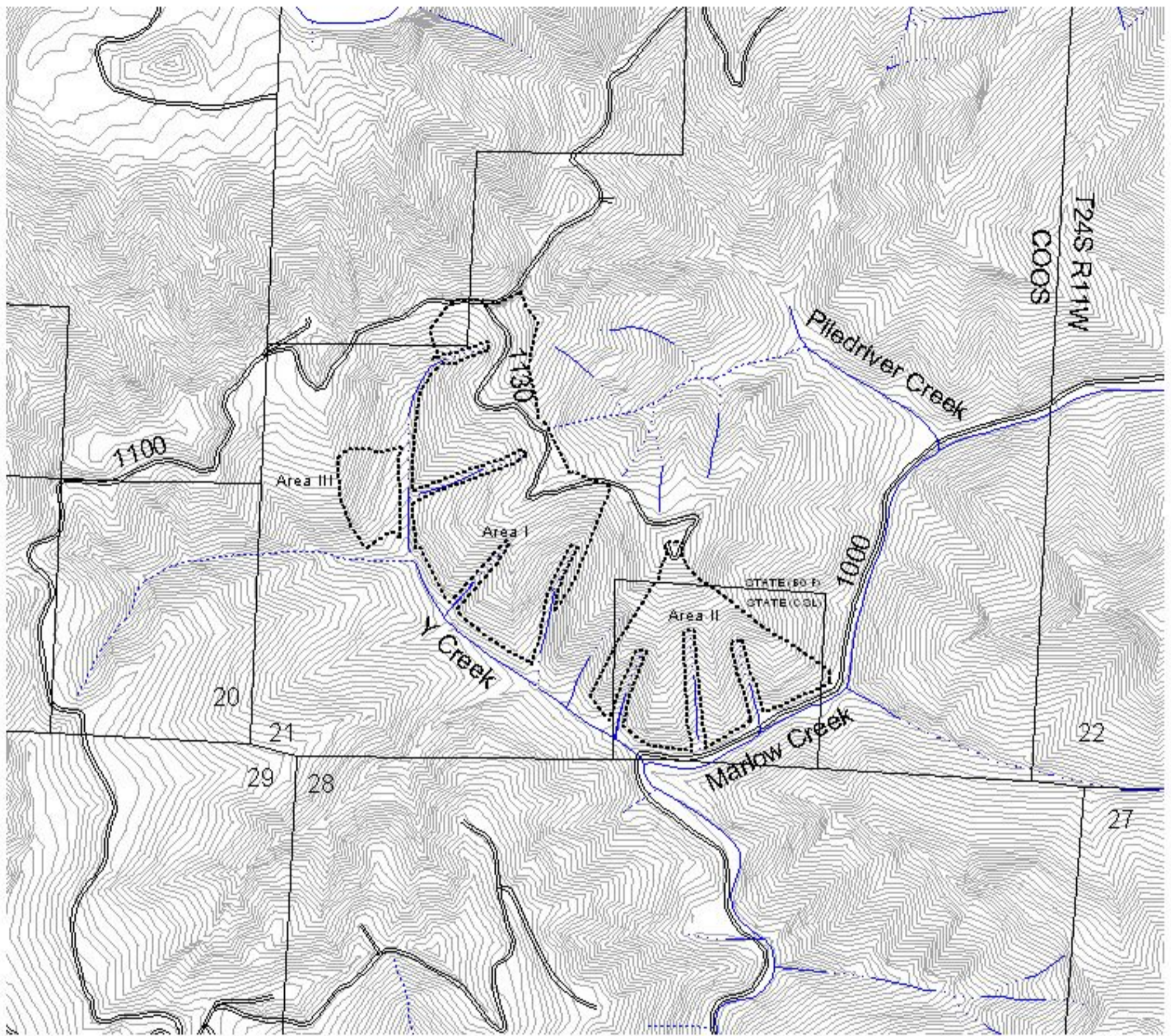
There are no other known resource considerations associated with this sale.

XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:

Table 6. Land Use Classification Summary

Area	Production
1	40
2	22
3	5

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



- Timber Sale Boundary
- Type F Streams
- Type N streams
- Unclassified
- Existing Roads
- Ownership
- Section Lines
- 20 Foot Contours



PILEDUP MARLOW TIMBER SALE
Areas 1, 2 and 3
-- Topography --
FY 07 Plan
Coos District

Portions of Section 21
 T24S, R11W, W.M.
 Coos County, Oregon

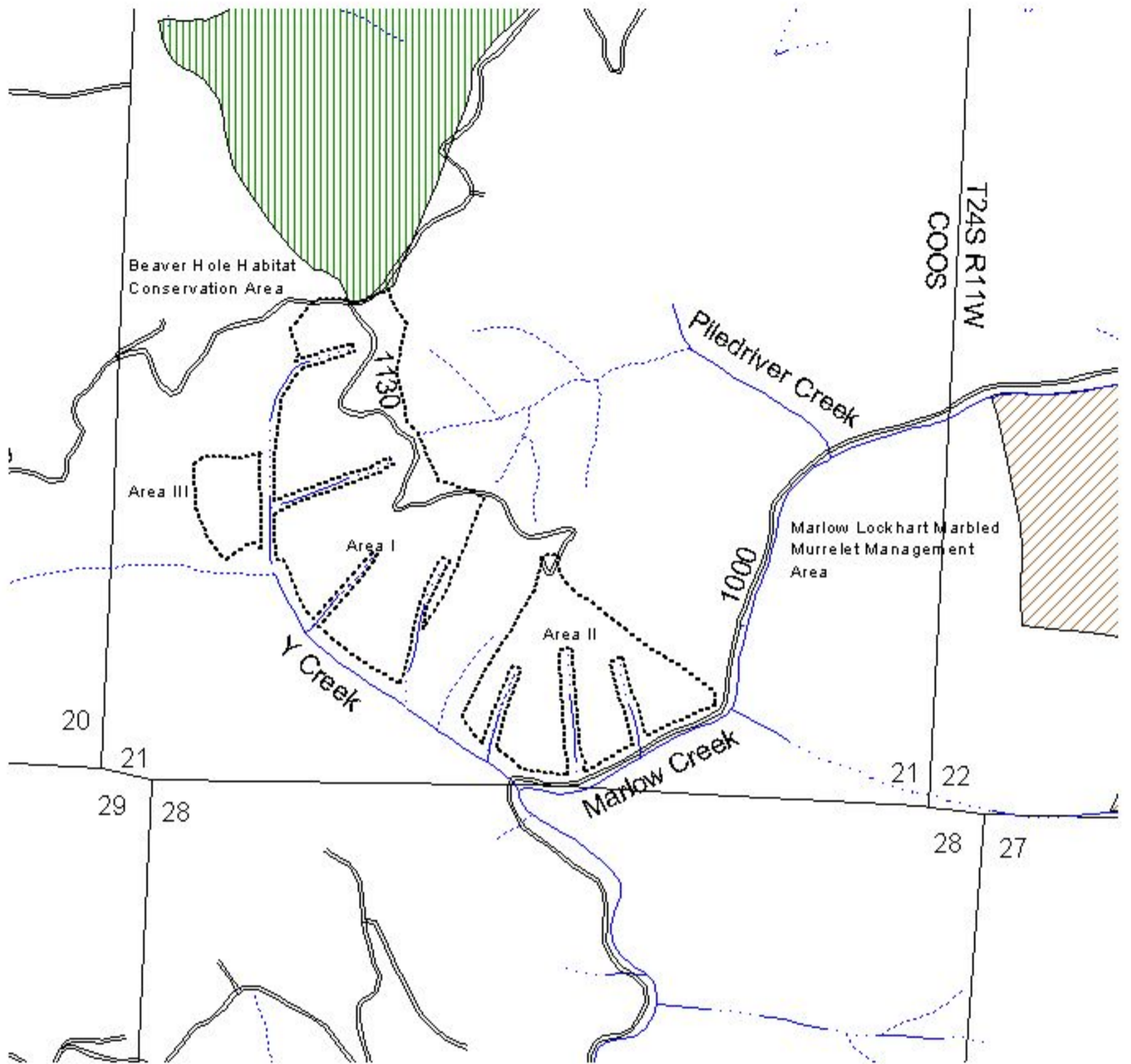
Sale Area	Harvest Type	Net Acre
1	clearcut	40
2	clearcut	22
3	clearcut	5
Total		67



1" = 1000'

Coos District GIS
 08/31/05

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- Piledup Marlow Boundary
- Existing Roads
- Type F Streams
- Type N Streams
- Unclassified
- Section Lines
- Marbled Murrelet Management Area
- Habitat Conservation Area

PILEDUP MARLOW TIMBER SALE
Areas 1, 2 and 3
-- KEY RESOURCES --
FY 07 SALE PLAN
COOS DISTRICT

Portions of Section 21,
 T24S, R11W, W.M.
 Coos County, Oregon

Sale Area	Harvest Type	Net Acres
1	Clearcut	40
2	Clearcut	22
3	Clearcut	5
Total		67

Attachment C



1" = 1000'

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