

Pre-Operations Report

Operation Name: North Middle Ridges Thin

County: Coos

Management Basin: 6

Table 1. Operation Areas, Types and Acres

Area	Type of Operation	Gross Acres	Net Acres
1	Moderate Thinning	159	143
2	Moderate Thinning	95	85
3	Moderate Thinning	449	411
Total		703	639

I. PHYSICAL DESCRIPTION OF OPERATION AREA:

This operation is a three-unit timber sale totaling 639 net acres of partial cut. The timber sale is located on the western slope of the Coast Range in the Ten Mile Lake watershed within the Elliott State Forest Management Basin 6. 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 70-85 inches. Temperatures range from 20-95 degrees Fahrenheit throughout the year. This timber sale has an elevation of 440 to 1560 feet above sea level with slopes ranging from 30 percent to 100 percent. Area 1 has a northerly aspect with east and west facing slopes, Area 2 has westerly and easterly aspects, and Area 3 has southerly and westerly aspects. The dominant aspect of the sale area is south facing slopes with a portion of the sale area being north, east and west facing slopes. Areas 1 - 3 have soils that are categorized as Milbury-Bohannon-Umpcoos association (50-80% slope); Areas 1 - 3 have soils that are Preacher-Bohannon Loams (60-90% slope); and Area 3 have soils that are Preacher-Bohannon Loams (30-60%).

II. CURRENT STAND CONDITION:

The timber sale is mostly second growth Douglas-fir that originated after the Coos Bay fire of 1868, ranging in age from 38 to 132. It is primarily composed of Douglas-fir with a minor conifer component of western red cedar and hemlock, scattered clumps and stringers of red alder trees. Some inventory information is based on measurements taken 14 years ago or longer and may not reflect actual stand level conditions. All of the sale areas have been examined for stocking levels and suitability for thinning treatments. There are a few small areas of 18 to 32 year old stands that are from previous salvage sales and will not be thinned unless a corridor is located within those areas. 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. The sale area is in the vicinity of a current area of concern for Swiss Needle Cast.

Table 2. Stand Inventory Information

Area	Prescription	Stand id ¹	Species	Age in 2007	DBH	BA	TPA	RD	Acres ²
1	Moderate Thinning	1197	DFWH	131	26.8	149	38	28	26
1	Moderate Thinning	1214	DFWH	126	25.5	161	45	31	10
1	Moderate Thinning	1215	DFWH	25	8.7	102	246	34	1
1	Moderate Thinning	1249	DFWH	117	20.2	159	71	35	24
1	Moderate Thinning	1250	DFWH	125	23.5	233	78	48	19
1	Moderate Thinning	1251	DF..	127	13.6	201	200	54	36
1	Moderate Thinning	1252	DFRA	26	9.4	127	265	41	1
1	Moderate Thinning	1456	DFWH	123	19.8	191	89	43	25
1	Moderate Thinning	1494	DF..	15	6.9	64	243	24	1
1	Target ³	N/A	DF		21	170	80	36	143
2	Moderate Thinning	1197	DFWH	131	26.8	149	38	28	35
2	Moderate Thinning	1211	DFRA	111	22.2	144	54	30	50
2	Target ³	N/A	DF		24	120	50	26	85
3	Moderate Thinning	1058	DFCX	124	25.1	133	39	26	4
3	Moderate Thinning	1203	DFCX	132	22.4	180	66	37	133
3	Moderate Thinning	1205	DFWH	32	8.5	25	62	8	7
3	Moderate Thinning	1207	DF..	122	30.3	284	57	51	43
3	Moderate Thinning	1208	DFCX	124	19.2	200	100	45	111
3	Moderate Thinning	1209	DFCX	118	21.5	243	97	52	36
3	Moderate Thinning	1221	DF..	121	24	460	146	93	23
3	Moderate Thinning	1449	DF..	19	7.2	87	309	32	2
3	Moderate Thinning	1450	DFWH	112	26.6	223	58	43	44
3	Moderate Thinning	1453	DFWH	115	23.1	163	56	33	23
3	Moderate Thinning	1479	DF..	15	6.8	64	258	24	1
3	Target ³	N/A	DF		24	157	54	35	411

1. The source of stand inventory information is (SLIP) 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:

This is a mature stand thinning sale. The desired condition is to maintain and accelerate creation of a more complex stand structure with the further development of an understory of hemlock, red cedar, big leaf maple and myrtle by managing stand density in accordance with the Balanced Landscape strategy of the Elliott State Forest Management Plan. Thinning will allow for development of a more complex stand structure over time.

Table 3. Stand Structure Information (Does not apply Elliott State Forest)¹

IV. PROPOSED MANAGEMENT PRESCRIPTION:

Areas 1-3: Thinning will target the portions of the stands with dense stocking. In general, stand densities will be reduced to relative densities between 25 and 35. Residual stocking is expected to range from 50 to 80 trees per acre and a residual basal area from 150 to 180 square feet per acre. Final thinning prescriptions will be determined during the sale preparation process.

Snag Retention and Creation - Existing snags within the units will be left, with the exception of those that endanger work crews. Trees that become damaged during the yarding process may be left as snags. One tree per two acres will receive a combination of topping and girdling to promote additional wildlife habitat. 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 – Existing down wood within the units will be left, with the exception of those that endanger work crews.

V. ESTIMATED TIMBER AND REVENUE OUTPUTS:

Table 4. Timber and Revenue

Ownership		Sale Type	
BOF	CSL	Cash	Recovery
0%	100%		X
Planned Quarter:		4	

	Conifer	Hardwood	Total
Net Volume (MBF)	6,000	75	6,075
Stumpage Value (\$/MBF)	250	400	
Estimated Gross Value	\$ 1,500,000	\$ 30,000	\$ 1,530,000
		Project Costs:	\$50,000
		Estimated Net Value:	\$1,480,000

VI. HARVESTING AND ACCESS CONSIDERATONS:

All legal access to the sale is obtained and there are no property lines needing to be surveyed. New spurs and landings may be constructed in the sale area. Final locations will be determined during the sale preparation process. Segments of roads that are within/adjacent to the sale area will be examined to determine if pullback of sidecast is necessary. Lidar should be available to help locate unstable sidecast on old roads that this sale will open up. Final stockpile location will be determined during the timber sale preparation process. Unnumbered dirt spurs in the timber sale area will be waterbarred and blocked following completion of operations.

Area 1: 2000 road (rocked mainline, good shape), 2200 road (rocked collector), 2208 road (dirt spur, re-open and improve), and 2215 road (dirt spur, re-open and improve)

Area 2: 2000 road (rocked mainline, good shape), 2200 road (rocked collector), 2205 road (dirt spur, re-open and improve) and 2206 road (dirt spur, re-open and improve)

Area 3: 2000 road (rocked mainline, good shape), 2340 road (rocked spur), 2380 road (rocked spur), 2400 road (rocked collector) and 2405 road (dirt spur, re-open and improve)

Winter harvesting will require purchaser supplied rock. Existing roads and landings in some locations will be improved to allow operations and will be evaluated to determine if pullback of side cast is necessary. Additional landings and short access spurs may be constructed. Final locations will be determined during the sale preparation process.

The majority of the sale areas will be uphill cable yarded.

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	3.2
Maintain	2.6	2.2	1.8	3.2
Close/Block	0.0	0.0	0.0	3.2
Vacate	0.0	0.0	0.0	0.0

VII. AQUATIC RESOURCES AND WATER QUALITY:

The sale areas are located within the Ten Mile Lake watershed in the Roberts Creek sub-basin.

Type F and Domestic Use Streams: Roberts Creek is a medium Type F that runs along the southern side Area 3.

There are no known water rights within the proposed operation. There is a point of diversion downstream on Johnson Creek of the proposed operation but will not be affected by the operation due to the distance downstream from the proposed operation.

Type N Streams: All drainages associated with the sale areas have been surveyed for fish presence and will be field surveyed during the 2010 summer low flow period to determine the stream flow and whether stream flow is perennial or seasonal.

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

The objective of this partial cut sale is to improve the health and quality of nesting, roosting and foraging habitat in basin 6.

Marbled Murrelet – First year protocol surveys were completed in 2008 and second year surveys will be completed in 2009. There are portions of the sale that are within 330 feet and/or ¼ mile of a Marbled Murrelet Management Area.

Area 1: Northern portion is within a ¼ mile of Roberts Ridge Marbled Murrelet Management Area (MMMA).

Area 2: Southeastern portion is within a ¼ mile of

COOS DISTRICT

Final 06/09/09

North Middle Ridges Thin FY 2010 AOP

Dry Ridge Marbled Murrelet Management Area (MMMA).

Area 3: Western portion is within a ¼ mile of Roberts Ridge Marbled Murrelet Management Area (MMMA).

Area 3: Southern portion is within 330 feet and ¼ mile of Dry Ridge Marbled Murrelet Management Area (MMMA).

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: There are no salmon or steelhead located in the stream reaches associated with Areas 1 and 2.

Area 3: This a partial cut area containing approximately 900 feet of the upper reaches of tributaries to Roberts Creek, a small Type F and 3,700 feet of the upper reaches of Roberts Creek, a medium Type F. Opportunities for placement of large wood have been identified where cable layouts cross Roberts Creek and possibly the type F tributaries adjacent to Area 3. These placed log structures will create gravel beds and pools improving spawning and wintering habitat. Locations and quantities of large wood placement will be identified during the sale preparation process with the Area Biologist.

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

Fragmentation – This is a thinning sale of mature timber and 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. Areas 1 through 3 are steep enough to meet criteria for classification as High Landslide Hazard Locations. There are a number of small headwater streams draining the areas. These streams are currently unclassified with respect to seasonal flow: for the most part they do not appear capable of direct delivery of debris flows to Type F Roberts creek. Mobilization of debris flow material during high stream flows into Type F Roberts creek is possible. Given the silvicultural prescription for the sale, it is unnecessary to apply Potential Debris Flow Track Reach management standards.

X. RECREATION RESOURCES:

The most common recreation for this area is hunting and dispersed undeveloped recreation. Harvesting this unit will provide forage areas 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:

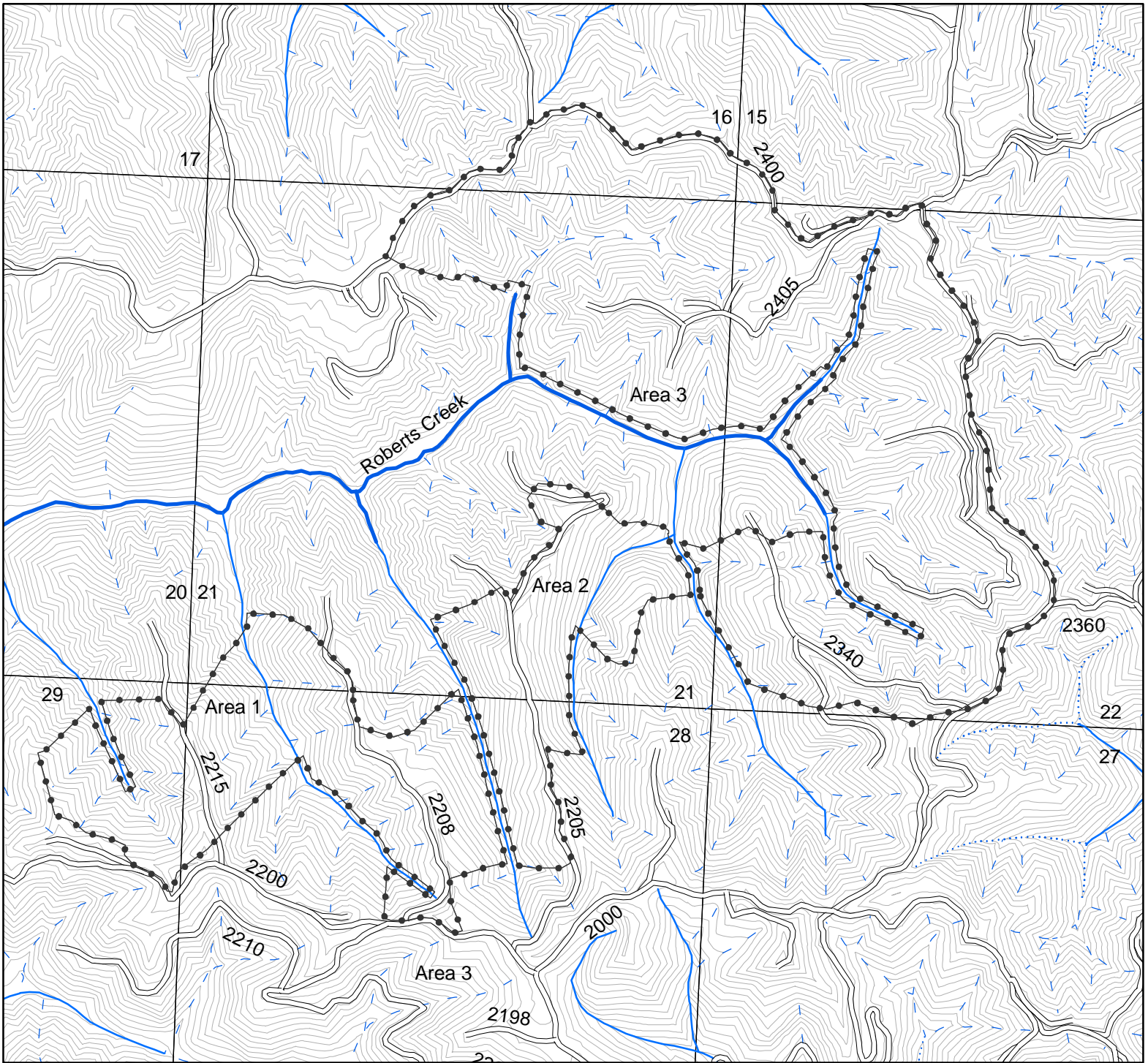
There are no other known resource considerations associated with this sale.









XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:

Table 6. Land Use Classification Summary

Area	Production
1	143
2	85
3	411

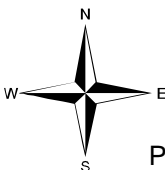
This table summarizes the acres in each land use class within the operation.

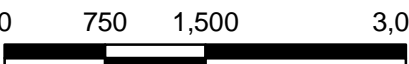


-  Timber Sale Boundary
-  Existing Roads
-  Type F Streams
-  Type N Perennial Streams
-  Type N Seasonal Streams
-  Unclassified Streams
-  Section Line
-  40 Foot Contours

North Middle Ridges Thin
-- Topography --
FY 10 Sale Plan
Coos District

Portions of Sections 15, 16, 21,
 22, 27, 28, and 29
 T23S, R11W, W.M.
 Coos County, Oregon

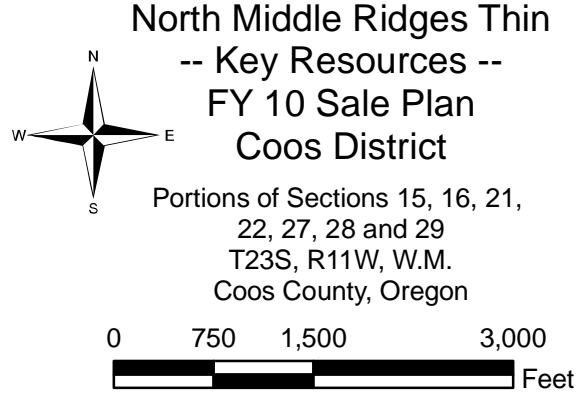
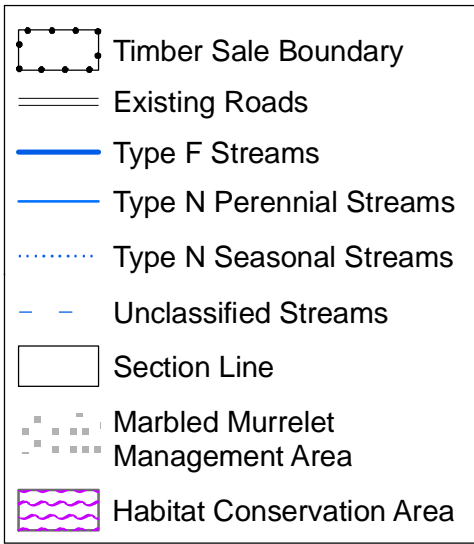
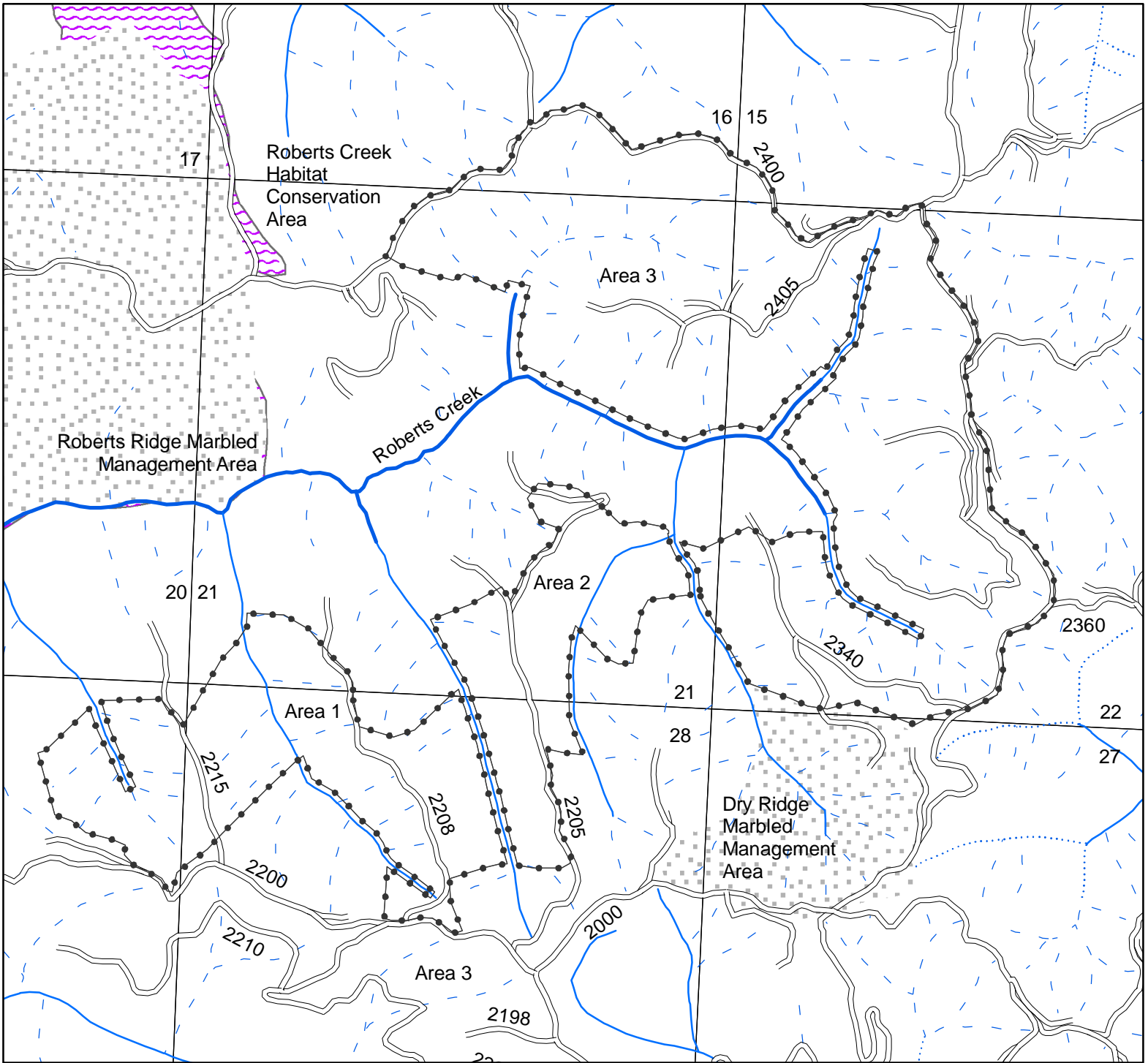



Feet

1" = 1,500
 Scale 1:18,000

Sale Area	Harvest Type	Net Acres
1	Partial Cut	143
2	Partial Cut	85
3	Partial Cut	411
Total		639

Coos District GIS
 09/02/2008
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 may not have been prepared for, or suitable
 for legal, or surveying purposes.



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