

Pre-Operations Report

Operation Name: Still Coping (Alternate)
County: Tillamook, Washington
Management Basin: Rogers

Table 1. Operation Areas, Types and Acres

Area	Type of Operation	Gross Acres	Net Acres
1	Partial Cut - Moderate	316	302
Total	Partial Cut Harvest	316	302

I. PHYSICAL DESCRIPTION OF OPERATION AREA:

The sale is located on a gentle ridge top and moderate slopes in the headwaters of the South Fork of the Wilson River.

Slopes have a north/northeast aspect and range from 0% to 70%, but are predominantly 10% to 50%. Elevations range from 2,160 to 3,360 feet. Jewell and Elsie are the predominant soil types of the sale area, with a small area of Osweg soils.

II. CURRENT STAND CONDITION:

The entire sale area has been inventoried using the Stand Level Inventory (SLI) procedure, and these stands have been classified as Closed Single Canopy (CSC) and UDS (see Table 3).

The sale area burned in the 1933, 1939, and 1945 Tillamook Burns. Portions of the sale area were seeded in 1945/1950 and another area was seeded in the mid-1960's. Much of the sale area was moderately thinned in 1995 down to 130 ft²/acre basal area (BA).

These moderate to high elevation mixed conifer stands within the sale area range from 51-60 years old. Species composition consists of Douglas-fir, western hemlock, noble fir, western red cedar and alder. The understory consists of vine maple, sword fern, dwarf Oregon grape, salal, huckleberry, oxalis, and shade tolerant conifers.

Based upon available SLI data, there are approximately 35 hard snags per acre in classes 1 and 2, all of which are less than 15 inches in diameter. SLI data indicates a weighted average of 320 ft³/acre of classes 1 and 2 down woody debris (DWD). The sale area contains minor amounts of *Phellinus weirii* which will not be treated during this entry.

Table 2. Stand Inventory Information

Area	Prescription	Stand ID ¹	Species	Age	DBH	BA	TPA	SDI	Net Acres ²
1	PC-M ³	7982	DF	55	15	226	189	59	39
		7996	DF	60	16	195	137	49	202
		8013	DF	56	15	222	180	58	41
		8022	DF	51	13	240	262	66	20
		Target⁴	DF		16	140	100	35	302

¹ The source of stand inventory information is from SLI inventory grown forward to 2008 for trees 8 inches or larger in diameter.

² The acres are based on GIS and exclude existing roads, stream buffers, and non-thinnable areas.

³ PC-M is Moderate Partial Cut.

⁴ The Target row for partial cut areas identifies expected stand characteristics [Diameter at Breast Height (DBH), Basal Area (BA), Trees Per Acre (TPA) and Stand Density Index (SDI)] after harvesting has been completed.

III. DESIRED FUTURE CONDITION/VISION:

According to the Forest Grove District's landscape design (*Forest Grove District Implementation Plan, 2009*), the desired future condition (DFC) for the sale area is designated as non-complex stands or "general".

This is a second entry partial cut on approximately 70% of the area. By conducting a moderate partial cut, the area will receive release allowing for increased diameter growth in reserve timber, as well as allowance for understory development. The harvest operation will develop Area 1 into UDS structure in the short term.

Table 3. Stand Structure Information

Area	Prescription	Stand ID	Current	Post Harvest ¹	Desired Future	Net Acres
1	PC-M	7982	CSC	UDS	GEN	39
		7996	CSC	UDS	GEN	135
					GEN	67
		8013	UDS	UDS	GEN	41
		8022	UDS	UDS	GEN	20

¹ The stand is expected to develop into this condition in the five to ten years after this operation is completed, except in Regeneration (REG) stands which occur after harvest.

IV. PROPOSED MANAGEMENT PRESCRIPTION AND PATHWAY:

Moderate partial cut to an relative density of 35 and a residual basal area of 130-150. Minor species such as, noble fir and western red cedar will be reserved

from cutting. Douglas-fir and western hemlock will be thinned to retain the current species mix. After harvest, the average dbh will be 16-17 inches.

All existing snags which do not present a safety hazard, and down woody debris of all decay classes shall be retained. Additional DWD recruitment is expected through felled snags, logging slash and possible windthrow events. The overstory of large trees will provide some future snags and down wood as the understory develops. Due to the potential for on-going research and current hard snag levels, snag creation will not be included as part of this contract.

As discussed furthered in section XIV of this report, a portion of the sale area is classified as Focused Stewardship, Research/Monitoring Subclass as part of an ongoing COPE then CFER study. Study participants met previously onsite and agreed that a moderate partial cut prescription for Still Coping would not be detrimental to data gathering associated with the ongoing study.

Recommendation for this site is to receive another moderate partial cut in 15-20 years to further increase diameter growth and advance understory development in areas moving toward LYR stand structures. After the future partial cut harvest, a regeneration harvest should be considered in 10-15 years in order to promote landscape level diversity by creating REG structures.

V. ESTIMATED TIMBER AND REVENUE INFORMATION:

Table 4. Timber and Revenue

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

	Conifer	Hardwood	Total
Net Volume (MBF)	3,600		3,600
Stumpage Value (\$/MBF)	\$150		
Estimated Gross Value	\$540,000		\$540,000
		Project Costs:	\$60,000
		Estimated Net Value:	\$480,000

VI. HARVESTING AND ACCESS CONSIDERATIONS:

The sale is accessed via Beaverdam, C-line, and Seven Cedars Roads, which are currently all weather, crushed rock surfaced roads.

Approximately 4.0 miles of haul road will be improved with the timber sale for better access and to improve sustainability. Estimated cost for improvement is

\$60,000. Improvement will likely consist of reconstruction and resurfacing and some culvert installation/replacement.

The rock will be obtained from the stockpile at Brown's Camp Pit.

Since much of this area was moderately thinned in a 1994-1995 operation, no additional new road construction is required or planned at this time.

Estimated cost of project work is \$60,000.

The operation is estimated to be 55% cable yarding and 45% ground based yarding. The maximum cable yarding distance will be approximately 1600 feet and the maximum ground based yarding distance will be approximately 500 feet.

Table 5. Transportation Management Summary (Miles).

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construction	0	0	0	0
Improvement	0	4	0	0
Maintenance	0	4.0	0	0
Closure/Vacation	0	0	0	0

VII. AQUATIC RESOURCES AND WATER QUALITY:

According to Forest Grove's GIS stream layer, approximately 1,000 feet of medium perennial Type N and several unnamed small perennial and seasonal Type N stream tributaries of the South Fork of Wilson River flow within or adjacent to the sale. Any perennial streams identified in the planning process will be managed according to Forest Management Plan Riparian Strategies.

Type N streams can influence stream temperature of downstream fish-bearing streams. Sufficient trees will be retained on the reach within 500' of the end of fish use (NE tip of sale) on the South Fork of Wilson River to achieve 80% shade over streams. Coordination with ODFW Fish Biologist will be done to confirm most recent survey of upper extent of fish-use is used.

In order to protect water quality 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 using sediment control devices in road ditches when necessary. Riparian management areas (RMAs) result in leave trees adjacent to the stream which protect stream temperature, provide nutrients, protect stream banks, and eventually provide wood to improve fish habitat.

High quality crushed rock road surfaces will be maintained and log hauling will be restricted between November 1st and March 31st of each year. Restrictions may include limiting the number of loads hauled per day, not hauling during periods of heavy moisture, or having an alternate haul route. No culvert installment or replacement in live streams should be needed. If needed, culvert installment and replacement in live streams will be conducted between July 1 and September 15. Operations outside of this period will be reviewed with ODFW.

Streams in this sale are within the headwaters of the Wilson watershed. As of July, 2006, listed Coho/coastal are found in the South Fork of Wilson River approximately $\frac{3}{4}$ mile downstream of the sale. The riparian and aquatic strategies combined with road and harvest practices described in this Annual Operations Plan and our Northwest Oregon State Forests Management Plan (FMP) are designed to minimize impacts and or restore aquatic habitats that influence aquatic species.

Most of the sale is within the Wilson River watershed and a minor portion is within the Trask River watershed area. Both the Wilson River Watershed Analysis and the Trask River Watershed Analysis will be checked for recommendations that could be applied during this sale.

VIII. T&E SPECIES CONSIDERATIONS:

This sale was reviewed by the ODF Northwest Oregon Area Biologist.

Northern Spotted Owl surveys are not required for this sale, as the sale area is located within the Tillamook Burn ((see June, 2008 ODF Policy Guidance: *Northern Spotted Owls Operational Policies* and the associated procedures and guidance documents).

Surveys for marbled murrelets are not required, due to the absence of potentially suitable habitat within the sale area. The District Threatened & Endangered (T&E) Coordinator made the determination that the sale area is non-suitable habitat for marbled murrelets. The ODF wildlife biologist for the NW Oregon Area reviewed and approved this determination.

This operation involves an activity that is listed within the National Marine Fisheries Service (NMFS) adopted rules under Section 4(d) of the Endangered Species Act. The haul route crosses or is in close proximity to a stream with listed fish. See Section VII and IX of this report for a discussion of protective measures.

The sale areas were checked against the Oregon Natural Heritage Program (ONHP) database of known listed plant locations, as well as against local records in the Land Management Classification System (LMCS). No listed plant records were identified within or adjacent to the sale areas.

IX. SLOPE STABILITY AND GEOTECHNICAL ISSUES:

This assessment is based on a LiDAR-generated 1 m digital elevation model and available geologic maps. There are high landslide hazard locations scattered throughout the sale area. The sale area drains to unnamed tributaries of the South Fork of the Wilson River. The risk of landslides delivering to these streams from the east half of the sale area is moderate and from the west half of the sale area is low.

X. RECREATION RESOURCES:

The sale is within an area designated as Motorized in the Tillamook State Forest Comprehensive Recreation Plan (1993). The District Recreation Coordinator has reviewed this sale, and suggests:

Unauthorized OHV trails were identified within or adjacent to the sale areas. Trails will be evaluated by the District Recreation Coordinator to determine if the trails should be protected, rehabilitated, and/or blocked to access. Further assessment will likely occur at time of timber sale preparation.

Portions of Waldos Way trail is within and/or adjacent to the sale area. Short-term closure of this trail system coming into the sale area will occur to facilitate logging and public safety. Trail protection measures will be established in the contract. Slash removal will be required for the OHV trails upon completion of the operation. The trail is planned to be open weekends and operations activity encouraged around a compressed and focused time period to allow users access to the trail in a timely manner. A plan will be developed to advise the public when trails are closed due to harvest activity.

XI. CULTURAL RESOURCES:

The sale area was checked against the Tillamook State Forest Cultural Resource Inventory GIS data. This data source identified one cultural site within the sale area.

The resource is described as:

- “C-Line Donkey Sleds” (Class 2 – Internal Protection Required)

The district will consult the Public Use Coordinator (ODF Salem Staff) for appropriate protection measures of this site.

XII. SCENIC RESOURCES:

The sale area is in an area of low visual sensitivity.

XIII. OTHER RESOURCE CONSIDERATIONS:

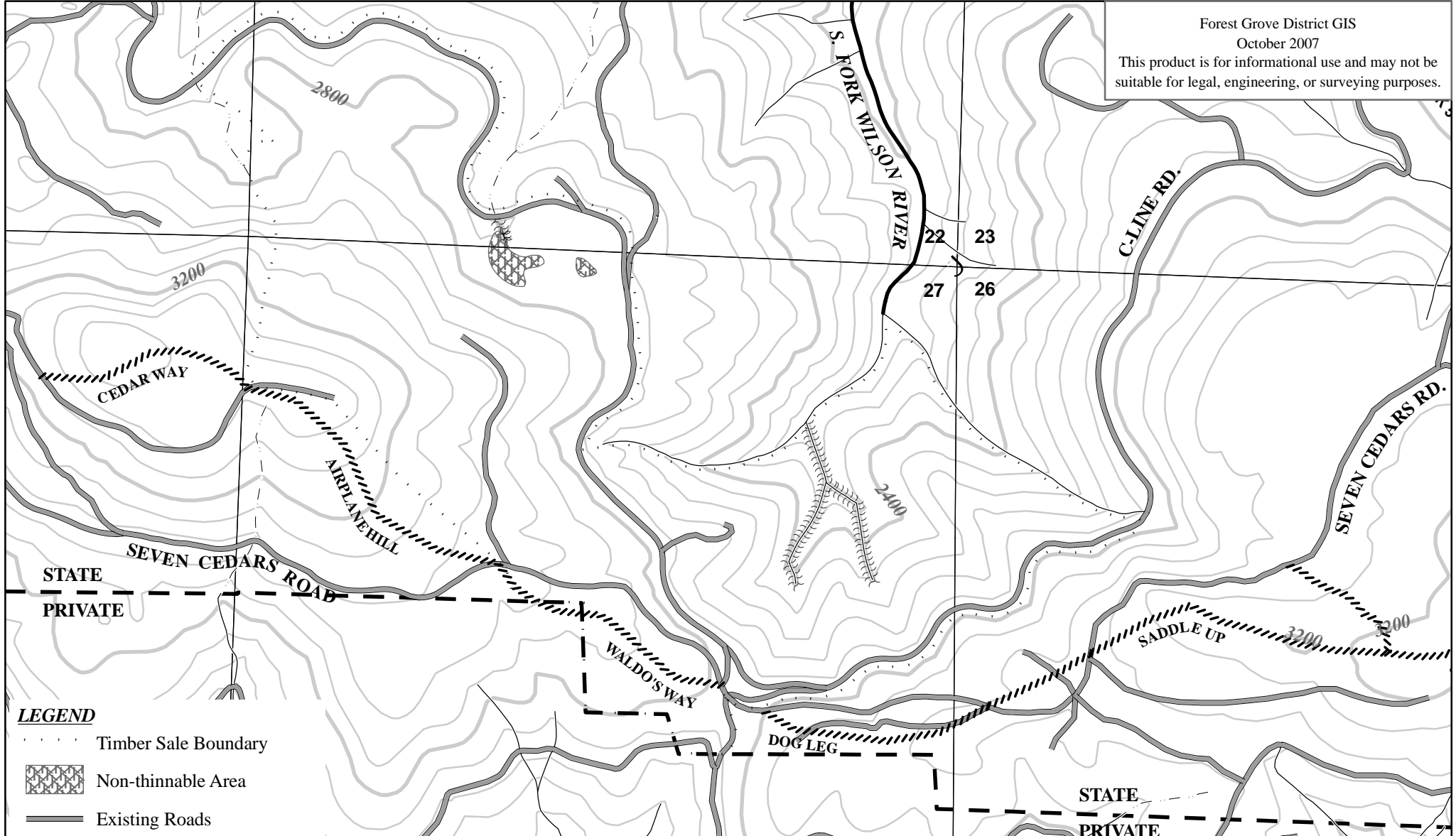
The property lines have been true blazed and posted.

All known survey corners and witness trees shall be protected from damage during any operations.

XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:

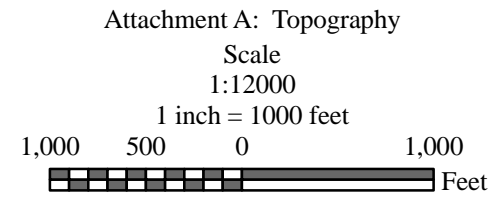
The sale area contains Focused and Special Stewardship, Aquatic and Riparian Habitat Subclass. See Section VII, Aquatic Resources and Water Quality, for the management guidelines to be utilized. The entire sale area is classified as Focused Stewardship, Recreation Subclass. See Section X, Recreation Resources, for the strategies that will be implemented to minimize impacts to trail resource.

A portion of the sale area is classified as Focused Stewardship, Research/Monitoring Subclass as this area was included in what used to be the COPE then CFER study. This area is still part of ongoing research at Oregon State University. ODF representatives (district, area, and staff) met with OSU researchers at the sale area to discuss the possibility of conducting a moderate partial cut harvest within the research and monitoring area. No harvest can occur until after June 2010 due to current research project.



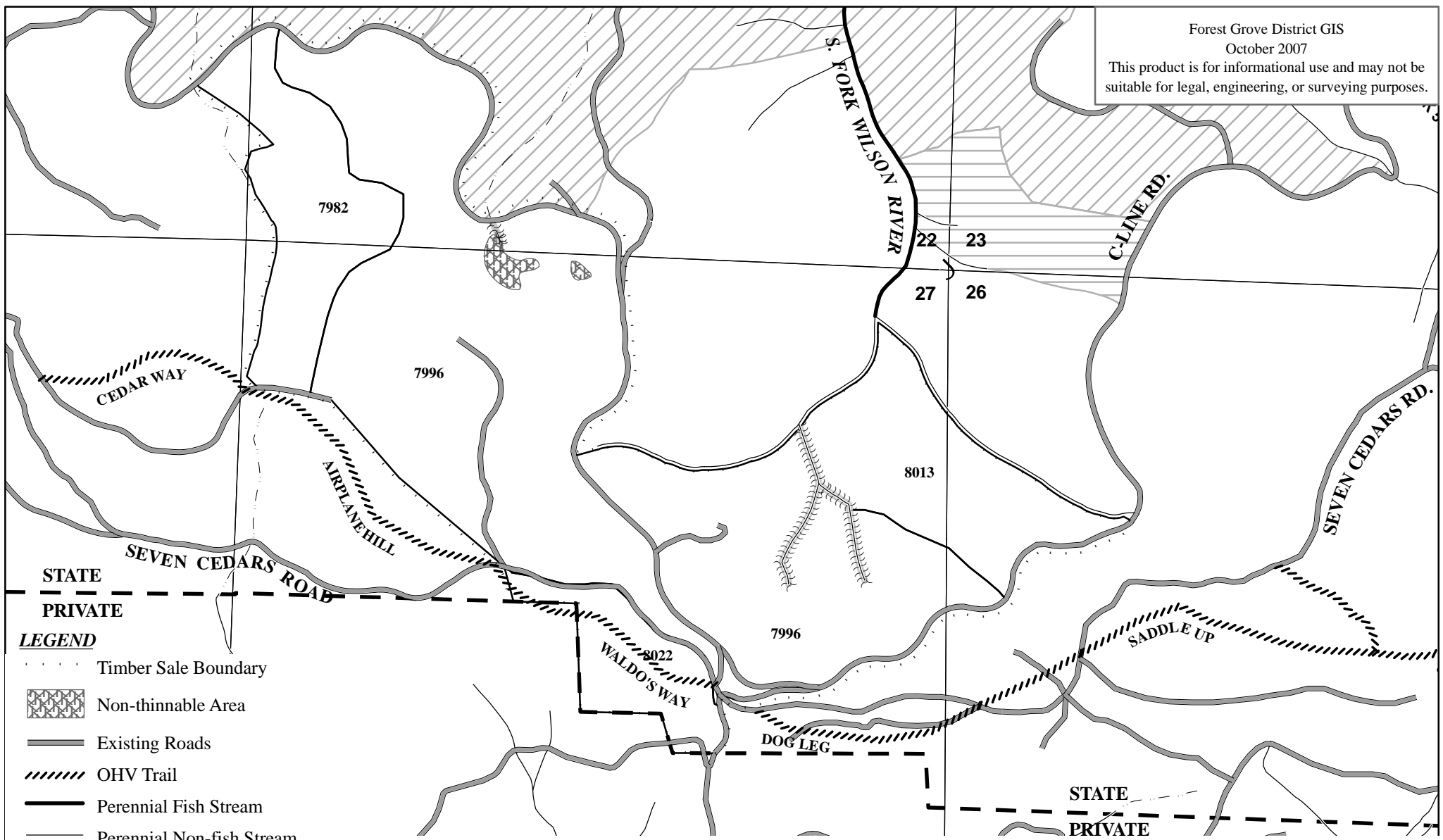
- LEGEND**
- Timber Sale Boundary
 - Non-thinnable Area
 - Existing Roads
 - OHV Trail
 - Perennial Fish Stream
 - Perennial Non-fish Stream
 - Stream, Unknown Fish Presence
 - Stream Buffer
 - ODF Ownership
 - 400' Contour Intervals
 - 80' Contour Lines

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 PORTIONS OF SECTION 21, 22, 26 & 27, T01N, R06W, W.M.
 TILLAMOOK AND WASHINGTON COUNTIES, OREGON



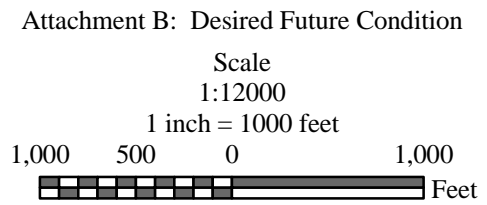
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APPROXIMATE NET ACREAGE		
AREA 1	302	ACRES (PC-M)
TOTAL	302	ACRES



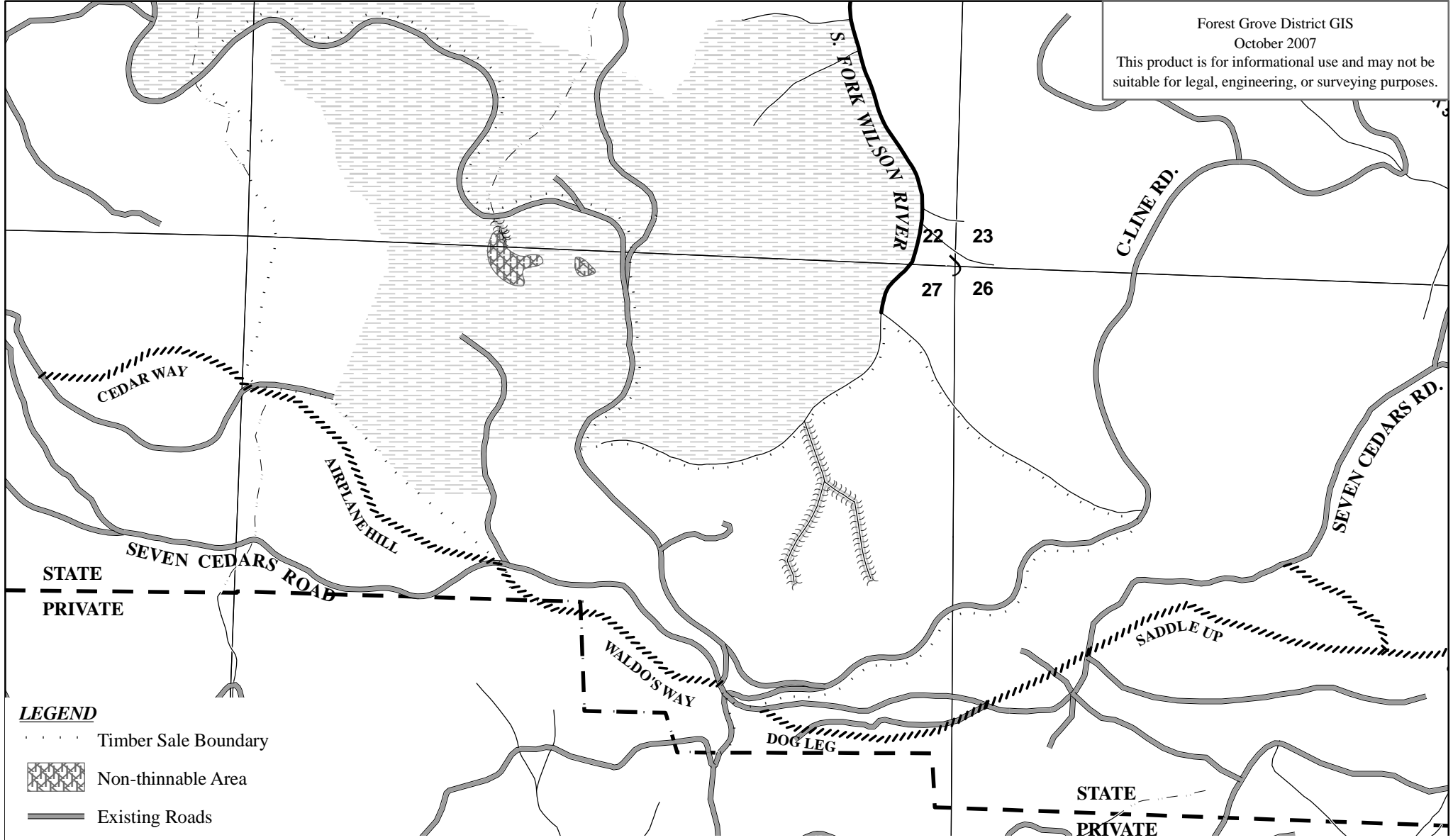
- LEGEND**
- Timber Sale Boundary
 - Non-thinnable Area
 - Existing Roads
 - OHV Trail
 - Perennial Fish Stream
 - Perennial Non-fish Stream
 - Stream, Unknown Fish Presence
 - Stream Buffer
 - ODF Ownership
 - SLI Polygons (Stand ID#)
 - DFC Stand Type**
 - Layered
 - Older Forest Structure

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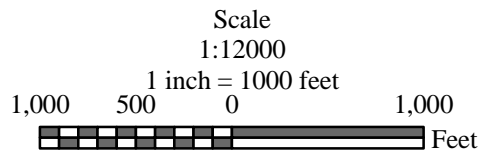
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APPROXIMATE NET ACREAGE	
AREA 1	302 ACRES (PC-M)
TOTAL	302 ACRES



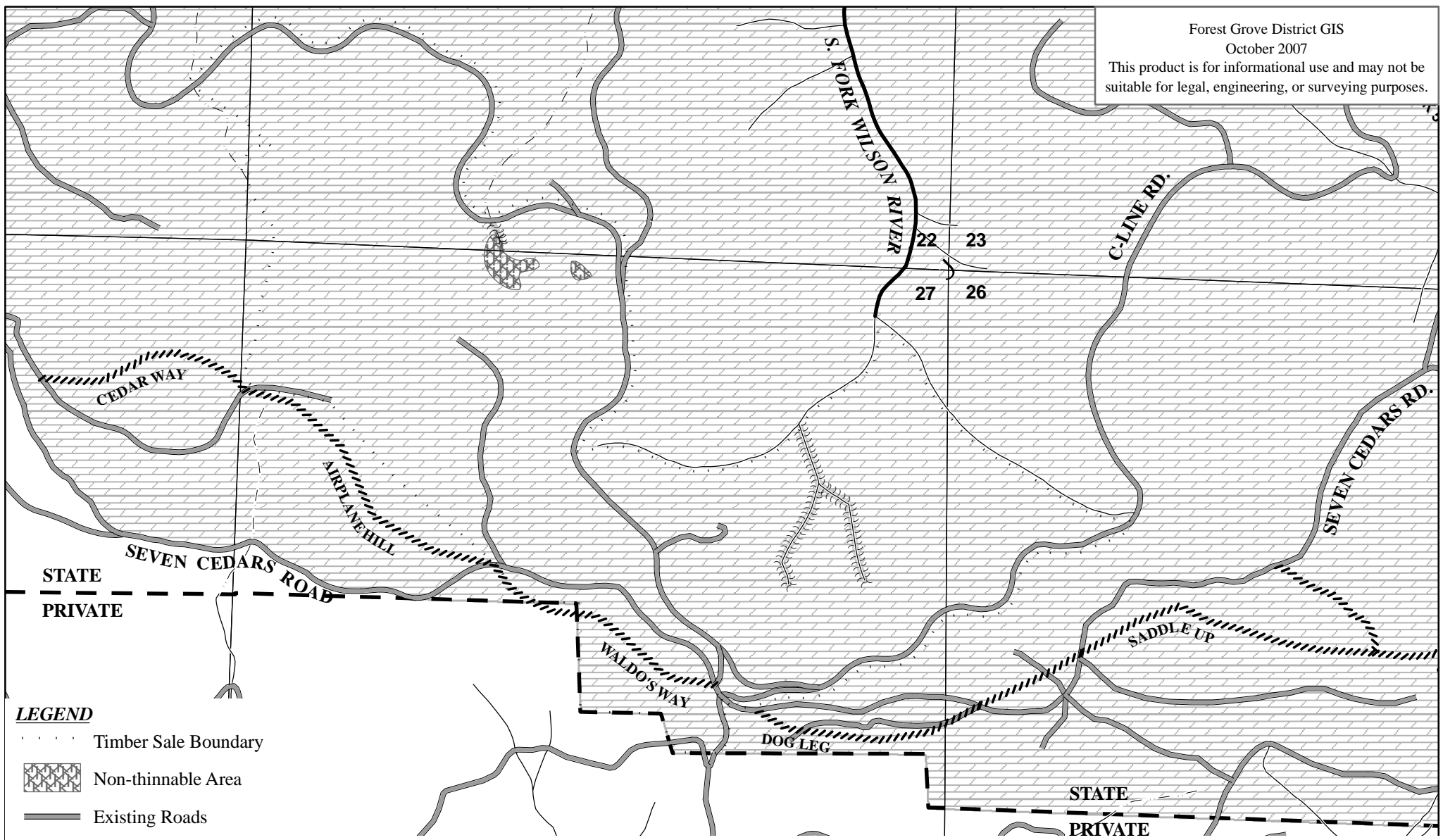
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 TILLAMOOK AND WASHINGTON COUNTIES, OREGON
 Attachment C1: Key Resources

- LEGEND**
- Timber Sale Boundary
 - Non-thinnable Area
 - Existing Roads
 - OHV Trail
 - Perennial Fish Stream
 - Perennial Non-fish Stream
 - Stream, Unknown Fish Presence
 - Stream Buffer
 - ODF Ownership
 - Focused Stewardship - Research/Monitoring



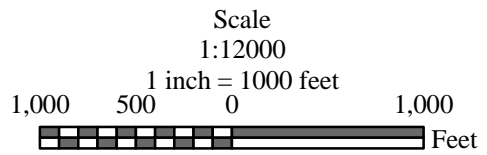
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APPROXIMATE NET ACREAGE		
AREA 1	302	ACRES (PC-M)
TOTAL	302	ACRES



- LEGEND**
- Timber Sale Boundary
 - Non-thinnable Area
 - Existing Roads
 - OHV Trail
 - Perennial Fish Stream
 - Perennial Non_fish Stream
 - Stream, Unknown Fish Presence
 - Stream Buffer
 - ODF Ownership
 - Focused Stewardship - Research/Monitoring

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 TILLAMOOK AND WASHINGTON COUNTIES, OREGON
 Attachment C2: Key Resources



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APPROXIMATE NET ACREAGE	
AREA 1	302 ACRES (PC-M)
TOTAL	302 ACRES