

Pre-Operations Report

Operation Name: Reeher Wheel
County: Washington
Management Basin: Wheeler

Table 1. Operation Areas, Types and Acres

Area	Harvest Type	Gross Acres	Net Acres
1	Moderate Partial Cut	62	57
Total		62	57

I. PHYSICAL DESCRIPTION OF OPERATION AREA:

Slopes are typically less than 35% with a range of 0-50%. Elevation ranges from 1,200 feet to 1,520 feet. Aspect is variable from south to southeast.

The landform is a gentle to moderate sloping small ridge that divides the Nehalem River, and the headwaters of Carlson Creek. Soils consist of predominately Pinochle, Killam, and Rye, with small amounts of Grindstone.

II. CURRENT STAND CONDITION:

The timber sale has been inventoried using the Stand Level Inventory (SLI) procedure and the stands have been classified as UDS (see Tables 2 and 3).

The timber sale area is comprised mainly of unmanaged Douglas-fir with minor amounts of red alder. The understory is comprised of other suppressed hardwood tree species, vine maple, salal, dwarf Oregon grape, and sword fern.

According to SLI data, there is currently 201 ft³ of down woody debris (DWD) in decay classes 1 and 2, and 1,192 ft³ among all decay classes. Currently there are 6 snags per acre in decay class 1, all in the 12 inch diameter class.

Table 2. Stand Inventory Information

Area	Prescription	Stand ID ¹	Species	Age	DBH	BA	TPA	SDI	Acres ²
1	PC-M ³	7413	DF	68	18	314	166	75	57
		<i>Target⁴</i>			22	140	53	31	57

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

²The acres are based on GIS and exclude roads, stream buffers, reserve areas, etc.

³PC-M is Moderate Partial Cut. MC is modified clearcut.

⁴ The Target row for partial cut areas identifies expected stand characteristics (DBH, BA, TPA and SDI) after harvesting has been completed.

III. DESIRED FUTURE CONDITION/VISION:

According to the landscape design for the Wheeler Basin (*Forest Grove District Implementation Plan, June 2009*), the sale is designated for non-complex stands or “general”.

Leave trees, snags and DWD components will be consistent with FMP strategies. All species other than Douglas-fir will likely be reserved from harvest.

Due to the type of treatment the stands will receive, a true variable density thinning will yield a great deal of horizontal-heterogeneity. This will allow for natural regeneration in thinned areas creating more complex horizontal structure in the short term. The remaining stand will eventually receive a modified clearcut yielding a REG structure, and be managed for timber production in the future. Eventually the stand will progress into CSC, and UDS stand condition before being harvested again.

Table 3. Stand Structure Information

Area	Stand ID	Current	Post Harvest ¹	Desired Future	Acres
1	7413	UDS	UDS	GEN	57

¹ The stand is expected to develop into this condition in the five to ten years after this operation is completed.

IV. PROPOSED MANAGEMENT PRESCRIPTION AND PATHWAY:

The timber sale area will receive a moderate partial cut. Douglas-fir will be selected for harvest based on current, specific market conditions. All other conifer and deciduous species will be reserved. The residual basal area will vary between a range of 80 to 200 square feet. The average DBH of the residual stand will vary but likely increase due to the fact that trees over 24 inches in DBH are less desirable. All trees less than 8 inches shall not count toward the target basal area.

The first entry thinning in Areas 1 will enhance the growth of understory vegetation already present. The residual stand basal area and SDI will vary throughout the timber sale area, which will create a true variable density stand promoting abundant structure throughout. These variances will promote understory tree and shrub species to flourish and enhance biological diversity in the short term. The stand will be evaluated in 2-4 years for candidacy as regeneration harvest.

All existing DWD will be reserved in the sale areas. DWD recruitment is expected through mortality, windthrow of residual trees, felled snags, and logging slash. Additionally, cull log segments and bucked log ends will help to meet the Class 1 DWD requirements set in the Forest Management Plan.

All existing snags will be reserved as safety allows. Due to the high quantity of existing hard snags throughout the unit, there will be no tree topping with this sale.

V. ESTIMATED TIMBER AND REVENUE OUTPUTS:

Table 4. Timber and Revenue

Ownership		Sale Type	
BOF	CSL	Cash	Recovery
100%	0%		X
Planned Quarter:		1	

	Conifer	Hardwood	Total
Net Volume (MBF)	700		700
Stumpage Value (\$/MBF)	\$300		
Estimated Gross Value	\$210,000		\$210,000
		Project Costs:	\$0
		Estimated Net Value:	\$210,000

VI. HARVESTING AND ACCESS CONSIDERATIONS:

The sale areas can be accessed via the Cochran County Road, to Wheeler Road. These are currently all weather, crushed rock roads. All timber will use this route of haul to Timber Road.

There will be no project work necessary for this timber sale. All areas are accessible via existing roads.

All sale skid roads will be blocked and/or waterbarred at the conclusion of the sale.

Logging is estimated to be 100% ground based yarding.

Table 5. Transportation Management Summary (Miles)

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construction	0	0	0	0
Improvement	0	0	0	0
Maintenance	0	0	1.9	0
Vacation	0	0	0	0

VII. AQUATIC RESOURCES AND WATER QUALITY:

One small seasonal and one perennial type N stream, tributaries of Carlson Creek, occur within the sale boundaries. Vegetation along these streams varies from purely conifer to hardwood/conifer mix. Streams will be protected following the guidelines in the Forest Management Plan. A 25' no-harvest buffer will be established along the small type N perennial stream, along with an additional 25' mandating no equipment entry as required by Salmon Anchor Habitat strategies. The south end of the timber sale area

borders the upper Nehalem River, a medium type F stream. The timber sale boundary will remain at least 100' from the stream bank zone at all times.

This basin has been designated as a Salmon Anchor Habitat (SAH) Basin. SAH basin strategies will be applied to streams within the SAH boundary during the timber sale layout and contract development. For streams outside the SAH boundary, stream buffers will be managed according to FMP Riparian Strategies. The riparian areas will be reviewed during sale layout for current stand conditions and/or operational constraints for implementing FMP strategies.

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, using sediment control devices in road ditches when necessary, and seasonal restrictions on logging and hauling operations. Culvert installment and replacement in live streams will be conducted between July 1 and August 31. Operations outside of this period will be reviewed with ODFW.

The sale area is within the Upper Nehalem watershed. The Upper Nehalem Watershed Analysis will be checked for recommendations that could be applied to this sale.

VIII. WILDLIFE AND T&E SPECIES CONSIDERATIONS:

The sale area will be reviewed with the ODF Northwest Oregon Area Biologist.

The sale will be surveyed for Northern Spotted Owls during the 2009 and 2010 survey seasons. All surveys will be/were conducted in accordance with USFWS protocol.

Surveys for marbled murrelets are not required, due to the absence of potentially suitable habitat within the sale. The District T&E Coordinator made the determination that the sale is non-suitable habitat for marbled murrelets.

This operation involves an activity that is listed in the National Marine Fisheries Service (NMFS) adopted rules under Section 4(d) of the Endangered Species Act. The sale area 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 was checked against the Oregon Natural Heritage Program (ONHP) database of known listed plant locations, as well as against local records. No listed plant records were identified within or adjacent to the sale areas.

IX. SLOPE STABILITY AND GEOTECHNICAL ISSUES:

There are no high landslide hazard locations within the sale. The timber sale area drains into the headwaters of Carlson Creek and the Nehalem River. The risk of landslides delivering directly to either drainage from the sale is low.

The Northwest Oregon Area Geotechnical Specialist will be consulted if evidence of recent landslide activity is identified during sale layout.

X. RECREATION RESOURCES:

This sale is in the area of the forest designated as Non-Motorized by the Tillamook State Forest Comprehensive Recreation Plan (1993). There are no designated recreation facilities in or adjacent to the sale area. Some dispersed camping and hunting does occur in the area; however this sale is not expected to greatly impact these activities.

XI. CULTURAL RESOURCES:

The sale area and proposed road construction right-of-way were checked against the Tillamook State Forest Cultural Resource Inventory Database (GIS format). No cultural resource records were identified within or adjacent* to the operation areas. If any significant cultural resources are located during sale preparation, the Public Use Coordinator (ODF Salem Staff) will be consulted regarding potential protection measures.

**Adjacent refers to approximately one tree length from an operation area. For the purpose of this screen, a 200 foot buffer around the sale boundary and proposed road construction right-of-way was assessed for cultural resource locations.*

XII. SCENIC RESOURCES:

The sale area is in a landscape of Low Visual Sensitivity (Level 3). No scenic impact is expected

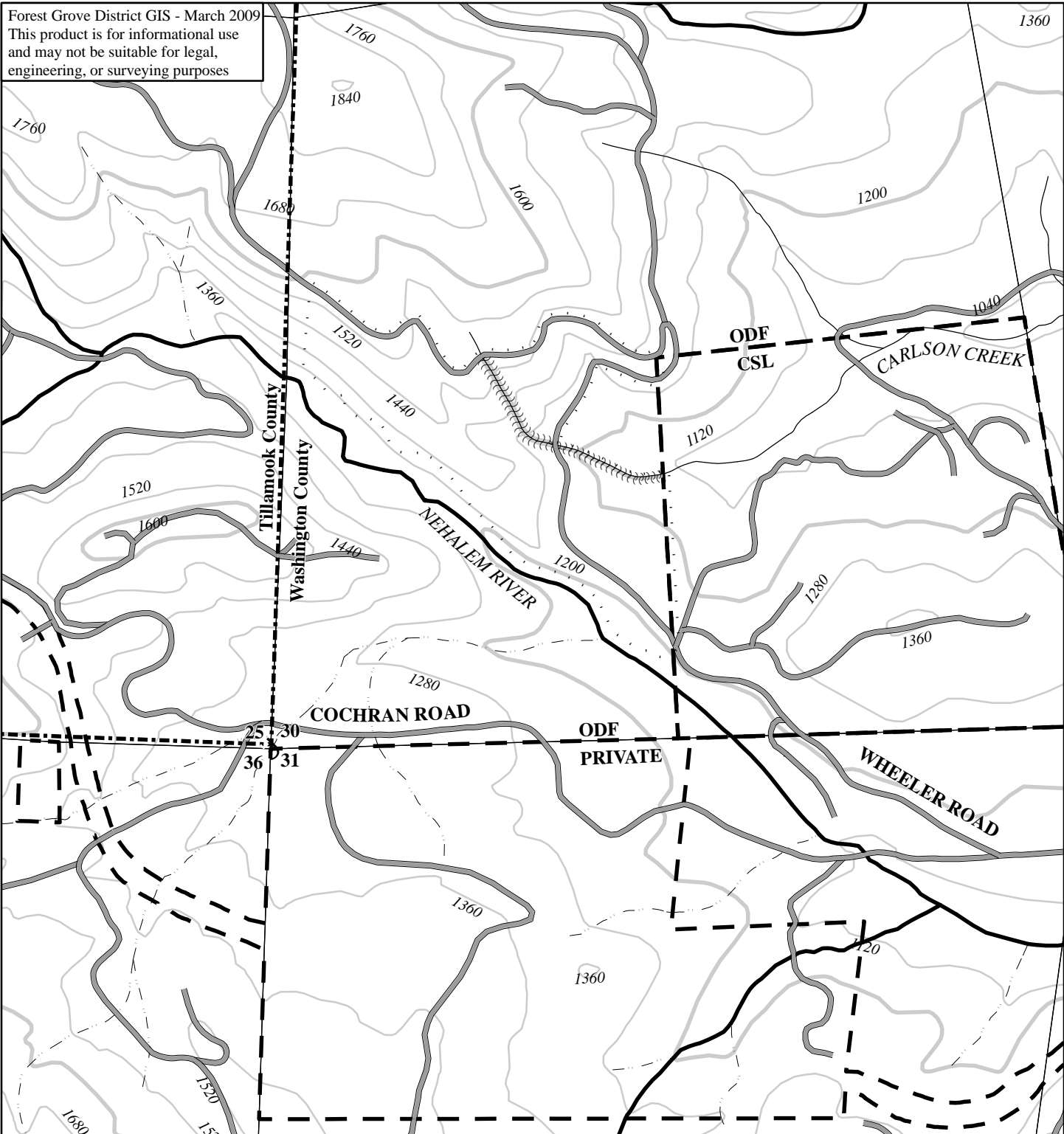
XIII. OTHER RESOURCE CONSIDERATIONS:

None of significance.

XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:

The sale area contains Focused and Special Stewardship, Aquatic and Riparian Habitat Subclass. The timber sale area is also classified as Focused Stewardship, Wildlife Subclass, because the sale area is within the Lousignont Creek/Upper Nehalem River SAH. See Section VII, Aquatic Resources and Water Quality, for the management guidelines to be utilized.

Forest Grove District GIS - March 2009
 This product is for informational use
 and may not be suitable for legal,
 engineering, or surveying purposes



Legend

- ODF Ownership
- Timber Sale Boundary
- Stream Buffer
- Perennial Fish Stream
- Perennial Non-fish Stream
- Stream, Unknown Fish Presence
- Existing Road
- County Line
- 400' Contour Interval
- 80' Contour Lines

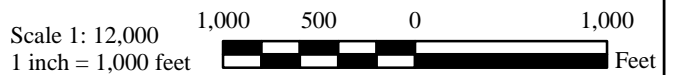
**FY 2010
 Reeher Wheel**

Portions of Section 30, T3N, R5W, W.M.
 Washington County, Oregon

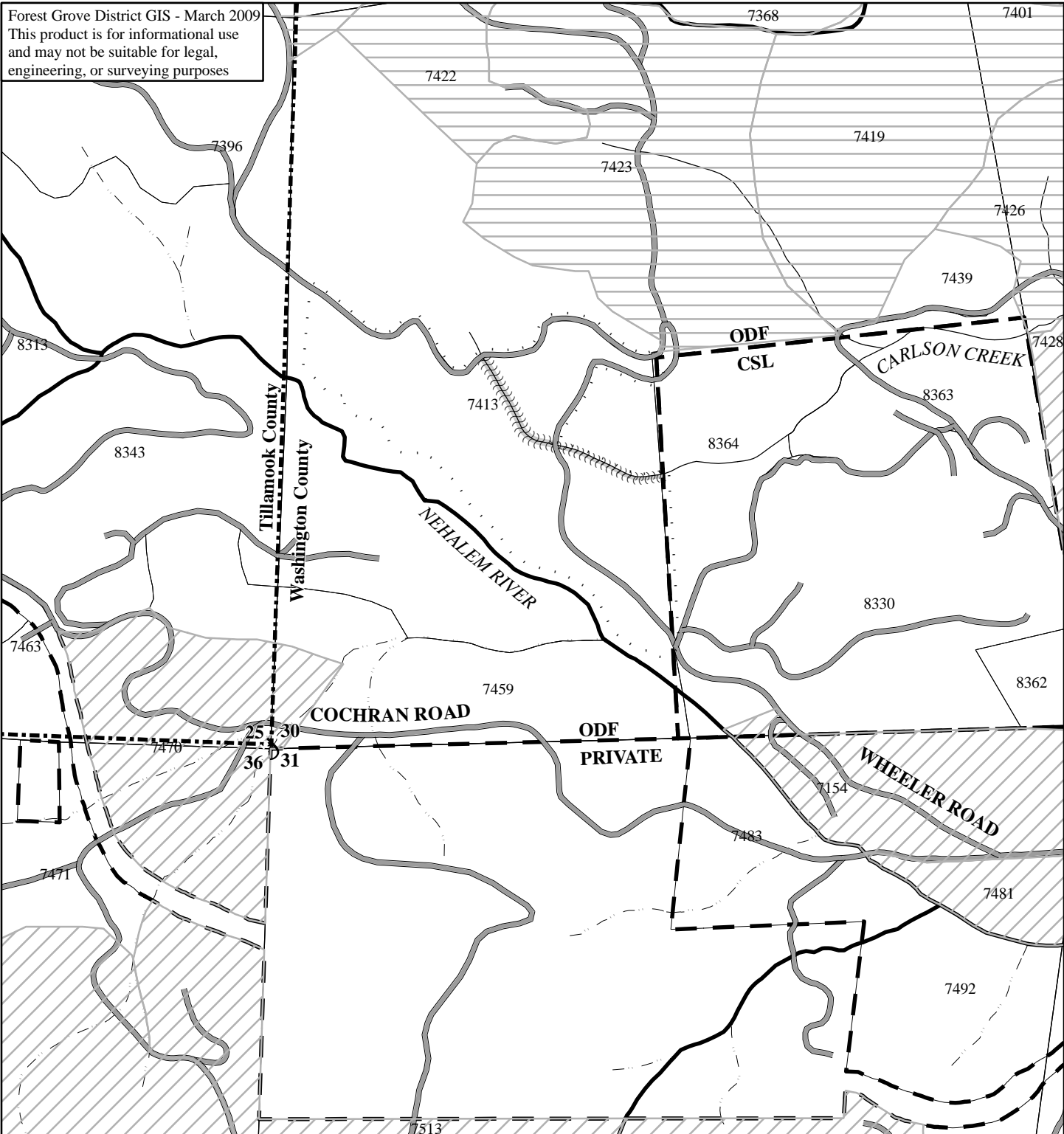
Attachment A: Topography

APPROXIMATE NET ACREAGE

Area 1 (PC-M)	57
TOTAL	57



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Legend

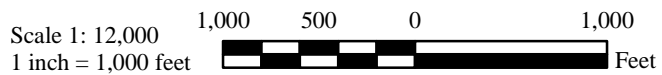
- ODF Ownership
- Timber Sale Boundary
- Stream Buffer
- Perennial Fish Stream
- Perennial Non-fish Stream
- Stream, Unknown Fish Presence
- Existing Road
- County Line
- Stand ID
- DFC - OFS
- DFC - Layered

**FY 2010
 Reeher Wheel**

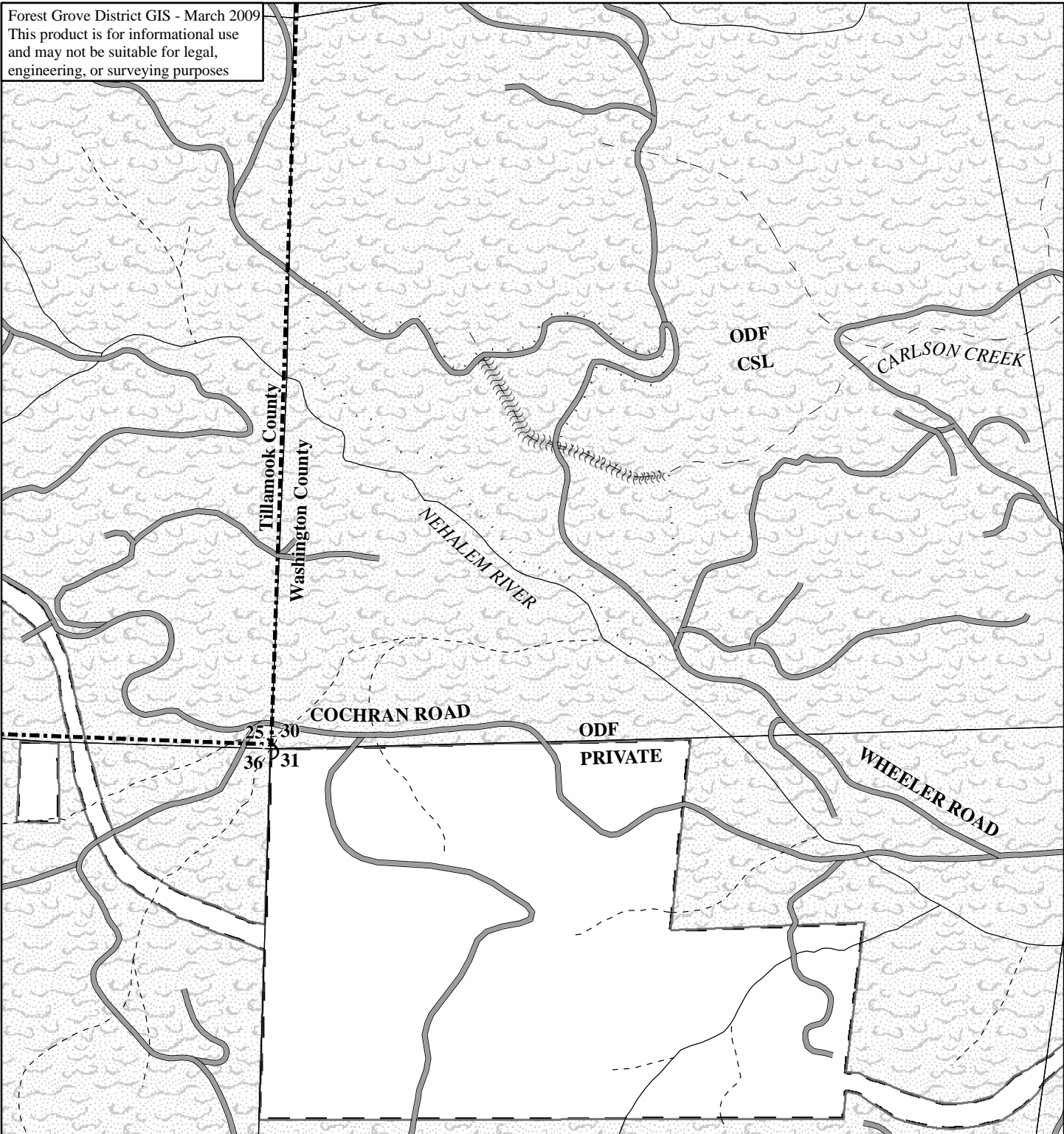
Portions of Section 30, T3N, R5W, W.M.
 Washington County, Oregon
 Attachment B:
 Desired Future Condition

APPROXIMATE NET ACREAGE

Area 1 (PC-M)	57
TOTAL	57



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Legend

- ODF Ownership
- Timber Sale Boundary
- Stream Buffer
- Perennial Fish Stream
- Perennial Non-fish Stream
- Stream, Unknown Fish Presence
- Existing Road
- County Line
- Salmon Anchor Habitat

**FY 2010
 Reeher Wheel**

Portions of Section 30, T3N, R5W, W.M.
 Washington County, Oregon
 Attachment C: Key Resources
 (SAH)

Scale 1: 12,000
 1 inch = 1,000 feet

APPROXIMATE NET ACREAGE

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