

# Pre-Operations Report

**Operation Name:** Haggs to Riches  
**County:** Washington  
**Management Basin:** Scoggins Creek

**Table 1. Operation Areas, Types and Acres**

Area	Harvest Type	Gross Acres	Net Acres
1	Partial Cut - Moderate	96	92
	<b>Total Partial Harvest</b>	<b>96</b>	<b>92</b>
2	Modified Clearcut	51	34
3	Modified Clearcut	79	77
4	Modified Clearcut	65	53
	<b>Total Modified Clearcut</b>	<b>195</b>	<b>164</b>
<b>Total</b>	<b>All Harvest Types</b>	<b>291</b>	<b>256</b>

## **I. PHYSICAL DESCRIPTION OF OPERATION AREA:**

The sale area is located on a moderate to gentle sloped ridge above Scoggins Creek. Elevation for this sale ranges from 960 feet to 1,760 feet with a South and Southwest aspect.

Dominant soil types are Grindstone and Killam.

## **II. CURRENT STAND CONDITION:**

The sale was burned in the 1933 and 1945 Tillamook Burns.

Approximately 25% of the sale has been inventoried using the Stand Level Inventory (SLI) procedure. The remaining 75% of the sale has information using data imputed from similar stands. (see Tables 2 and 3)

The stand is composed almost entirely of overstocked Douglas-fir with a minor hardwood component of red alder and big leaf maple. The understory is comprised primarily of vine maple, dwarf Oregon grape, sword fern, and salal.

For all sale areas; imputed SLI data estimates an average of 1700 to 4500 ft<sup>3</sup> of DWD and approximately 25 to 750 ft<sup>3</sup> within classes 1 and 2. Snags range from a total of 7 to 21, per acre total with an average of 1 to 6 per acre within classes 1 and 2.

**Table 2. Stand Inventory Information**

Area	Prescription	Stand ID <sup>1</sup>	Species	Age	DBH	BA	TPA	SDI	Acres <sup>2</sup>
1	PC-M	8007*	DF	57	19	229	112	54	62
		8018*	DF	58	19	229	112	54	30
		<b>Target<sup>3</sup></b>			<b>16</b>	<b>130</b>	<b>93</b>	<b>33</b>	<b>92</b>
2	MC	8007*	DF	57	19	229	112	54	9
		8015*	DF	86	19	184	95	44	25
3	MC	8021*	DF	54	19	229	112	54	25
		8026	DF	51	19	184	95	44	10
		8027*	DF	57	18	251	149	61	42
4	MC	8026	DF	51	19	184	95	44	53

<sup>1</sup>The source of stand inventory information is SLI grown forward to 2008 for trees 8 inches or larger in diameter. Stand ID's with an (\*) have not been inventoried, however, they contain data imputed from similar inventoried stands.

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

<sup>3</sup>The Target 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 Scoggins Creek Basin (*Forest Grove District Implementation Plan, June 2009*), Area 1 is designated for Older Forest Structure (OFS). Areas 2, 3, and 4 are designated for non-complex stands or "general".

#### Area 1

The vision for this stand is to maintain an open overstory canopy encouraging the development of stand complexity over time. Post harvest, the stand will become a much more complex stand than its current state, in terms of species composition, decadent material, tree size and density variation, etc. The harvest operation will continue the development of UDS structure in the short term. As the understory develops, the next entry partial cut operation in approximately 20 years will remove more of the overstory. This will provide more light and nutrients to the understory. In time, a second and third layer of trees and other vegetation will develop the complex structure needed to meet the requirements of the DFC. Eventually, Douglas-fir will dominate the overstory with >25% other conifer species. Intermediate layers of shade tolerant conifers will be present. Alder will be concentrated along springs and riparian areas.

#### Area 2, 3, & 4

The vision for Areas 2, 3 and 4 is to create highly productive regeneration stands with adjacent areas of green tree retention areas that specifically encompass mixed conifer and deciduous tree species and large remnant trees. These specific green tree retention areas were picked for the species diversity and large diameter Douglas-fir to compliment Area 1 which has a desired future condition of OFS.

### Table 3. Stand Structure Information

Area	Stand ID	Current	Post Harvest <sup>1</sup>	Desired Future	Acres
1	8007*	UDS	UDS	OFS	62
	8018*	UDS	UDS	OFS	30
2	8007*	UDS	REG	GEN	9
	8015*	UDS	REG	GEN	25
3	8021*	UDS	REG	GEN	25
	8026	UDS	REG	GEN	10
	8027*	UDS	REG	GEN	42
4	8026	UDS	REG	GEN	53

<sup>1</sup> The stand is expected to develop into this condition in the five to ten years after this operation is completed, except in REG stands which occur after harvest.

#### **IV. PROPOSED MANAGEMENT PRESCRIPTION AND PATHWAY:**

##### **Moderate Partial Cut:**

###### *Area 1:*

Douglas-fir will be selected for harvest. All other species will be reserved. The stand will be thinned to a target basal area of 120 to 140 square feet. The average DBH of the residual stand will be approximately 16 inches. Residual trees will be the trees that have the largest DBH, and are of the best form and vigor. All trees less than 8 inches shall not count toward the target basal area.

Existing snags will be retained during harvest operations as safety allows. Additional snags will be created over time through natural recruitment processes and additional snag creation during the next harvest entry. All DWD, and any felled snags will be left for down wood and reserved in the sale areas. To meet the FMP guidelines, DWD recruitment will be obtained immediately post harvest through logging slash and cull and bucked log segments. Felled snags, windthrow of residual trees, and natural mortality is expected to contribute to an increase in class 1 DWD in the future.

This prescription will provide more light and nutrients to the hardwood dominated gaps already present within the current stand and promote increased diameter growth of the residual conifer and hardwood trees and ensure the opportunity for understory development. This will ensure quality wildlife habitat and stand diversity.

In approximately 20 years after this initial partial cut, a second entry partial cut will be conducted to further accelerate reserve tree growth and understory conifer development. Twenty years after the second entry the stand should be evaluated for a third entry if the DFC-complex has not been achieved. If the complex stand has been achieved, the stand will be left on the landscape for approximately 20 years.

##### **Modified Clearcut:**

###### *Areas 2, 3, and 4:*

During harvest operations, any western redcedar scattered throughout the unit shall be

retained in addition to the green tree retention areas to provide for species diversity within the stand.

Retaining residual conifer species, creating approximately 2 snags per acre, and creating down woody debris throughout the unit, the areas will continue to provide production of quality timber and high quality wildlife habitat. Down woody debris will be added through normal logging operations through logging slash, cull log segments and additional bucked log segments. Additional material to meet the Forest Management Plan objectives will be achieved through natural processes of windthrow, tree topping for snag creation, and future pre-commercial thinning slash.

After harvest has been completed, this area will be planted with Douglas-fir. The newly established plantation will be scheduled for pre-commercial thinning at approximately age 15, and commercial thinning at approximately age 40 before the next modified clearcut harvest at age 60. The stand will move through the REG, CSC, and UDS conditions between harvest intervals.

Throughout the stages of these areas post harvest; residual, large diameter conifers within the green tree retention areas will continue to grow and provide complementary structure to the adjacent stands with areas of complex stand conditions.

**V. ESTIMATED TIMBER AND REVENUE OUTPUTS:**

**Table 4. Timber and Revenue**

Ownership		Sale Type	
BOF	CSL	Cash	Recovery
<b>100%</b>	%		<b>x</b>
Planned Quarter:		<b>3</b>	

	Conifer	Hardwood	Total
Net Volume (MBF)	<b>7,000</b>		<b>7,000</b>
Stumpage Value (\$/MBF)	<b>\$180</b>		
Estimated Gross Value	<b>\$1,260,000</b>		<b>\$1,260,000</b>
		Project Costs:	<b>\$30,000</b>
		Estimated Net Value:	<b>\$1,230,000</b>

**VI. HARVESTING AND ACCESS CONSIDERATIONS:**

Much of the sale can be logged to existing roads. Approximately 50% of the spur construction involves opening up an old road. The new spurs are necessary to access the cable landings. The newly constructed spur roads will remain unsurfaced and logging will be restricted to the dry season.

Approximately 1 mile of existing spur roads will need to be brushed.

Harvesting systems for Area 1 will be 100% cable yarding with a maximum yarding distance of approximately 1,000 feet. Area 2 is 100% ground-based yarding operations.

Area 3 is approximately 20% ground-based and 80% cable yarding with a maximum cable yarding distance of about 1,500 feet. Area 4 is 95% cable and 5% ground-based harvest with a maximum cable yarding distance of about 600 feet.

Access is through Stimson Lumber Co. land. There is no public access. Access is secured by a permanent easement.

Spur road construction will be approximately 1.6 miles of unsurfaced roads. Surfacing will be the Purchaser's option and at the Purchaser's own expense.

Estimated total project cost is \$30,000.

**Table 5. Transportation Management Summary (Miles)**

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construct	0	0	0	1.6
Improve	0	0	0	0
Maintenance	0	0	0	0
Block (Closed)	0	0	0	0
Vacate	0	0	0	0

## **VII. AQUATIC RESOURCES AND WATER QUALITY:**

Scoggins Creek, a large Type F stream in the FPA Interior Zone, will be posted outside of the sale in the Northwest corner of Area 1. Small, unnamed Type N streams flow through the southern portions of Area 1. All of the buffers will be a conifer and alder mix.

There will be no activity within the buffers. Sale boundaries will be posted at least 100' away from Scoggins Creek and at least 25' away from the small Type N streams located below the southern portions of area 1. Hagg Lake is approximately eight miles down stream.

Riparian management areas (RMAs) within harvest unit boundaries will be managed according to FMP Riparian Strategies. The RMAs will be reviewed during sale layout for current stand conditions and/or operational constraints for implementing FMP strategies. Riparian management areas 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.

## **VIII. WILDLIFE AND T&E SPECIES CONSIDERATIONS:**

The sale areas have been reviewed with the ODF Northwest Oregon Area Biologist.

The sale was surveyed for Northern Spotted Owls during the 2008 survey season with no responses. The sale will be surveyed again during the 2009 survey season. All surveys will be/were conducted in accordance with USFWS protocol.

Three potential suitable marbled murrelet habitat sites were surveyed for murrelets in 2008. No murrelets were detected during the 2008 surveys. A second year of surveying will be completed during the 2009 survey season. All surveys were and will be conducted in accordance with PSG protocol.

This operation does not involve an activity that is listed in the National Marine Fisheries Service adopted rules under Section 4(d) of the Endangered Species Act. Neither the sale area nor the haul route is in close proximity to a stream with listed fish.

The sale area was checked against the Oregon Natural Heritage Program database of known listed plant locations, as well as against local records. No listed plant records were identified within or adjacent to the sale area.

#### **IX. SLOPE STABILITY AND GEOTECHNICAL ISSUES:**

This assessment is based on USGS 1:24,000 topographic maps and available geologic maps as well as a LiDAR-generated 1 m digital elevation model that covers the northern portion of the sale area. There are high landslide hazard locations scattered throughout the sale area. The entire sale area drains to Scoggins Creek. The risk of landslides delivering to Scoggins Creek from Area III is high, from Areas I and IV is moderate, and from Area II is low. There may be large, deep-seated landslides in the sale area. The geotechnical specialist will be consulted during sale layout.

#### **X. RECREATION RESOURCES:**

The sale is located within an area designated as Non-Motorized in the Tillamook State Forest Comprehensive Recreation Plan (1993). The area is accessed through private industrial forest land. Public access is restricted. There are no anticipated impacts to recreation resources.

#### **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:**

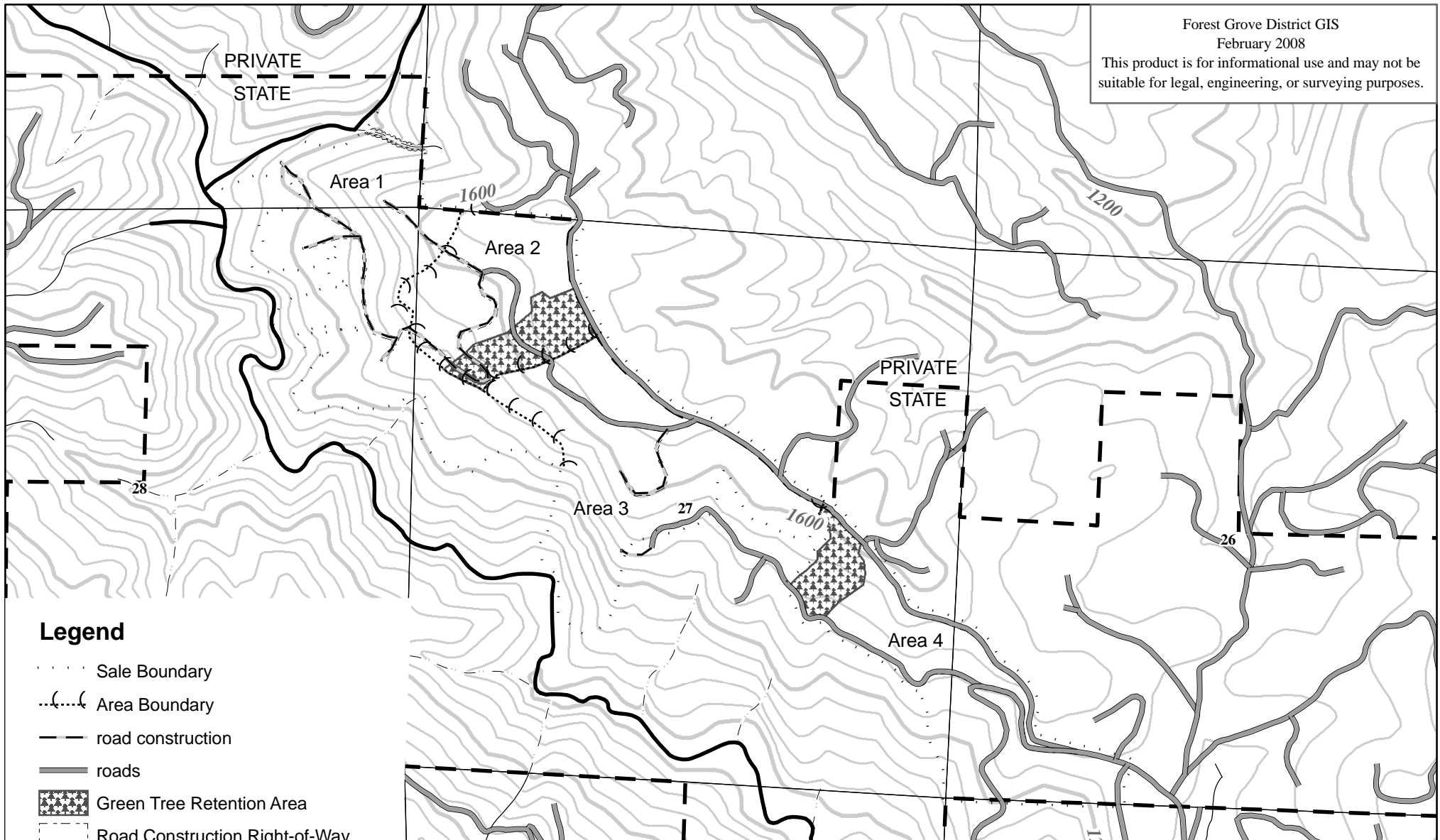
The sale area is in a landscape of low visual sensitivity (Level 3).

**XIII. OTHER RESOURCE CONSIDERATIONS:**

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

**XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:**

The sale contains Focused and Special Stewardship, Aquatic and Riparian Habitat due to the presence of streams. Section VII "Aquatic Resources and Water Quality" describes the management guidelines to be applied in these areas.

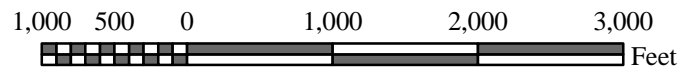


**Legend**

- ..... Sale Boundary
- Area Boundary
- road construction
- roads
- Green Tree Retention Area
- Road Construction Right-of-Way
- Stream Buffer
- ownership
- 200 foot contour line
- 40 foot contour line
- Perennial fish stream
- Perennial non-fish stream
- Stream, unknown fish presence

FY 2010  
HAGGS TO RICHES  
PORTIONS OF SECTIONS 21, 26, 27, & 28, T01N, R05W, W.M.  
WASHINGTON COUNTY, OREGON  
Attachment A: Topography

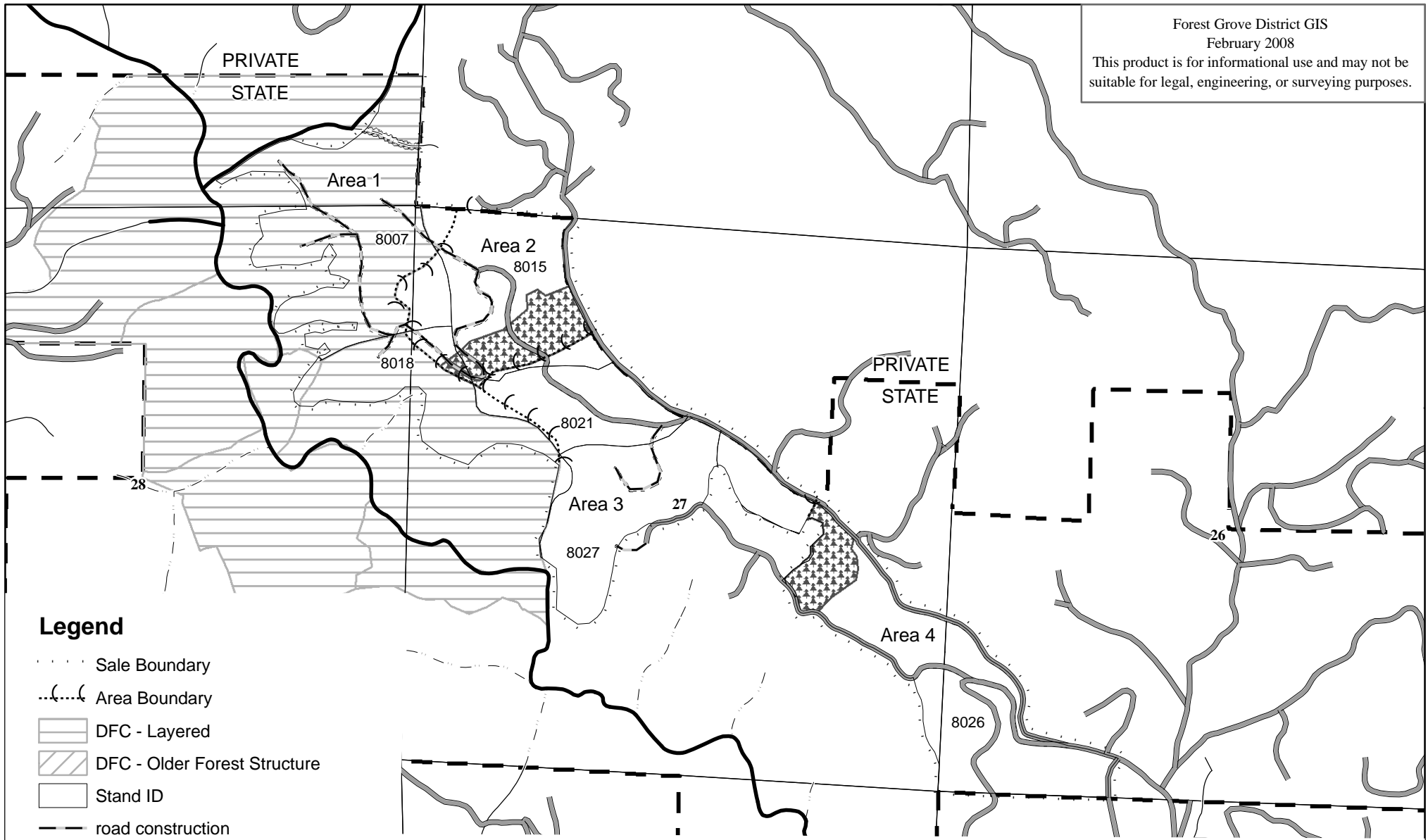
Scale  
1:15840  
1 inch = 1320 feet



**3**

APPROXIMATE NET ACREAGE

AREA 1	92 ACRES (PC-M)
AREA 2	34 ACRES (MC)
AREA 3	77 ACRES (MC)
AREA 4	53 ACRES (MC)
<b>TOTAL</b>	<b>256 ACRES</b>

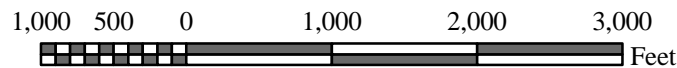


**Legend**

- Sale Boundary
- Area Boundary
- DFC - Layered
- DFC - Older Forest Structure
- Stand ID
- road construction
- roads
- Green Tree Retention Area
- Road Construction Right-of-Way
- Stream Buffer
- ownership
- Perennial Fish Stream
- Perennial Non-fish Stream
- Stream, unknown fish presence

FY 2010  
HAGGS TO RICHES  
PORTIONS OF SECTIONS 21, 26, 27, & 28, T01N, R05W, W.M.  
WASHINGTON COUNTY, OREGON  
Attachment B: Desired Future Condition

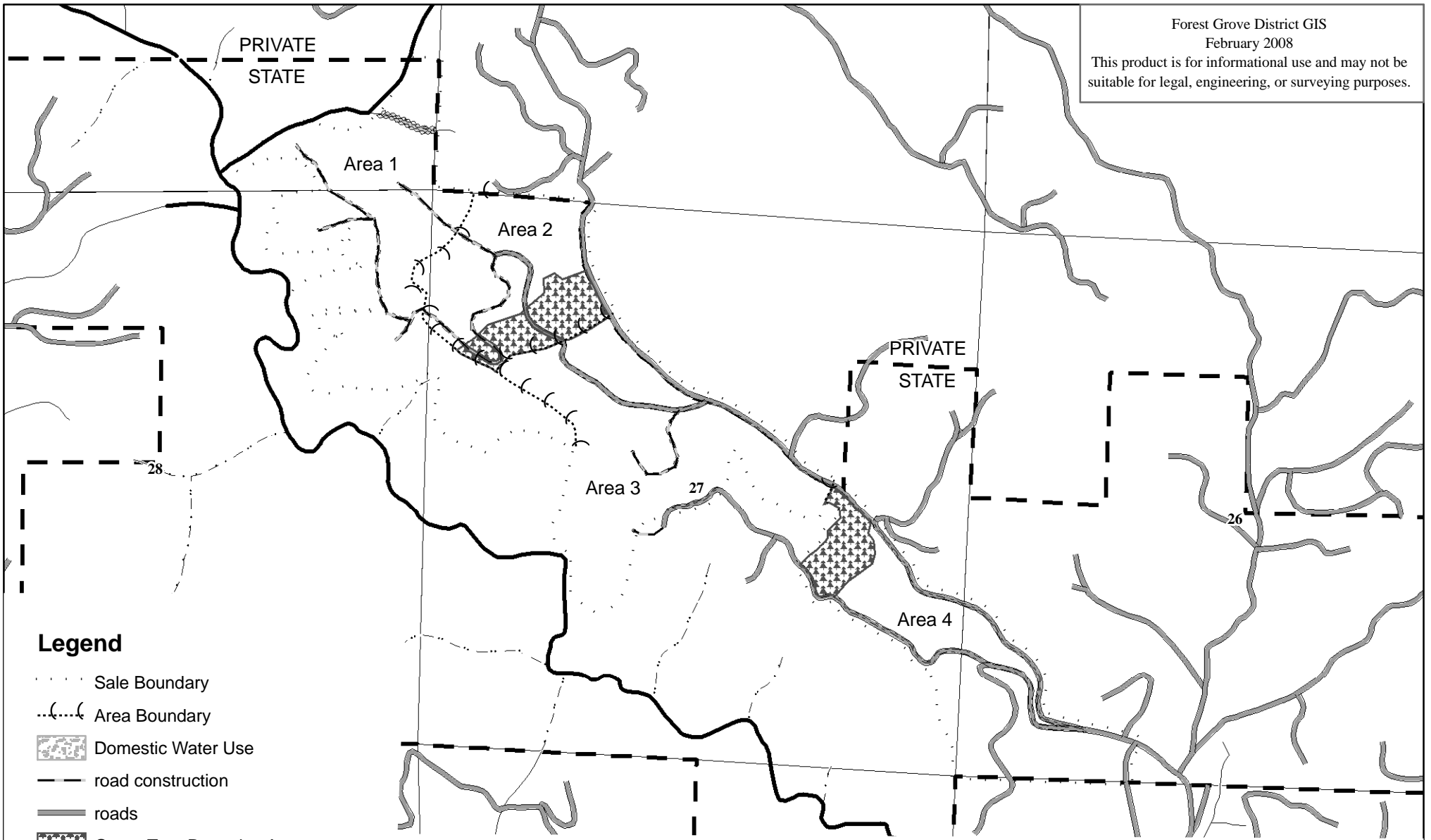
Scale  
1:15840  
1 inch = 1320 feet



**3**

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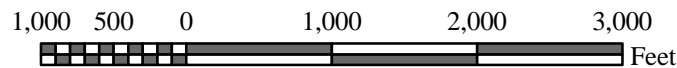


**Legend**

-  Sale Boundary
-  Area Boundary
-  Domestic Water Use
-  road construction
-  roads
-  Green Tree Retention Area
-  Road Construction Right-of-Way
-  Stream Buffer
-  ownership
-  Perennial Fish Stream
-  Perennial Non-fish Stream
-  Stream, Unknown Fish Presence

FY 2010  
HAGGS TO RICHES  
PORTIONS OF SECTIONS 21, 26, 27, & 28, T01N, R05W, W.M.  
WASHINGTON COUNTY, OREGON  
Attachment C: Key Resources

Scale  
1:15840  
1 inch = 1320 feet



**3**

APPROXIMATE NET ACREAGE

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AREA 2	34 ACRES (MC)
AREA 3	77 ACRES (MC)
AREA 4	53 ACRES (MC)
<b>TOTAL</b>	<b>256 ACRES</b>