

# Pre-Operations Report

**Operation Name:** Rogers Riddle

**County:** Tillamook

**Management Basin:** Rogers

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

Area	Harvest Type	Gross Acres	Net Acres
1	Moderate Partial Cut	130	127
2	Moderate Partial Cut	42	40
3	Moderate Partial Cut	52	50
4	Moderate Partial Cut	68	65
5	Moderate Partial Cut	54	53
<b>Total</b>		<b>346</b>	<b>335</b>

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

Slopes are typically less than 40% with a range of 5% to 65%. Elevation ranges from 1,100 feet to 2,000 feet. Aspect is variable from north to east.

The landform is a gentle to moderate sloping small ridge that divides Devils Lake Fork, South Fork Gales Creek, Gales Creek and Low Divide Creek. The underlying rocks are mostly sedimentary of the Yamhill formation with intrusive igneous origin rock.

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

The sale area burned in 1933 and again in 1945 in the Tillamook Burns. The area was then seeded in 1949. The majority of the sale was fertilized in 1978.

The entire 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)

Areas 3, 4, and 5 were part of the Will Roger's Thin FY1998.

The overstory of the stands are comprised almost entirely of Douglas-fir, with minor amounts of western hemlock, western red cedar, and hardwoods. Area 1 has a significant amount of *Phellinus weirii*, consequently, there is a high abundance of snags and down woody debris. The understory across all areas is comprised mostly of dwarf Oregon grape, salal, vine maple, bracken fern, and sword fern. Average ground cover is estimated to be 75%.

SLI cruise data indicates that there are approximately 21 snags per acre in decay classes one and two; these snags were in DBH classes 12-20 inches; 5.75 snags per acre are greater than 15 inches DBH in decay classes one and two. SLI also indicates that approximately 3,500 cubic feet per acre of down woody material exists. 516 cubic feet per acre is in class one and two.

The entire sale area has been surveyed for *Phellinus weirii*. The results indicate severe infection throughout the sale area.

**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 <sup>3</sup>	7751	DF	52	16	217	164	56	127
		<i>Target</i> <sup>4</sup>			17	140	89	35	127
2	PC-M <sup>3</sup>	8286	DF	59	19	221	111	52	20
		8288	DFBM	57	18	139	82	34	20
		<i>Target</i> <sup>4</sup>			19	80	40	19	40
3	PC-M <sup>3</sup>	8288	DFBM	57	18	139	82	34	48
		<i>Target</i> <sup>4</sup>			19	80	40	19	48
4	PC-M <sup>3</sup>	8286	DF	59	19	221	111	52	2
		8288	DFBM	57	18	139	82	34	65
		<i>Target</i> <sup>4</sup>			19	100	51	24	67
5	PC-M <sup>3</sup>	8288	DFBM	57	18	139	82	34	43
		8289	DFCX	62	16	175	120	44	10
		<i>Target</i> <sup>4</sup>			18	120	68	29	53

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

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

<sup>3</sup>PC-M is Moderate Partial Cut. MC is modified clearcut.

<sup>4</sup>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 Rogers Basin (*Forest Grove District Implementation Plan, 2009*), the sale is designated for non-complex stands or “general” in Areas 1, 3, and 4. Half of Area 2 and a small portion of Area 5 have a “complex” desired future condition.

The ground vegetation across the sale area is dominated by salal, dwarf Oregon grape, sword fern, huckleberry, and vine maple. Leave trees, snags and DWD components will be consistent with FMP strategies. Grand fir, noble fir, western red cedar, and red alder will likely be reserved from harvest. The timber sale area will have higher than average accumulations of snags and DWD due to the presence of *Phellinus weirii*.

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 complex structure.

**Table 3. Stand Structure Information**

Area	Stand ID	Current	Post Harvest <sup>1</sup>	Desired Future	Acres
1	7751	UDS	UDS	GEN	127
2	8286	UDS	UDS	LYR	20
	8288	UDS	UDS	GEN	20
3	8288	UDS	UDS	GEN	48
4	8286	UDS	UDS	LYR	2
	8288	UDS	UDS	GEN	65
5	8288	UDS	UDS	GEN	43
	8289	UDS	UDS	LYR	10

<sup>1</sup> 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:**

All areas 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. All trees less than 8 inches shall not count toward the target basal area.

The first entry thinning in Areas 1 and 2 will enhance the understory vegetation already present. The second entry in Areas 3-5 will further enhance the development of complex structure throughout the stands. 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. Subsequent partial cut entries will maintain understory development, promote multiple stand layers and further increase diversity. Post harvest, underplanting and control of competing brush manually or chemically may be necessary to ensure a healthy, vigorous understory. Active management will move this stand to the LYR condition within 30 to 50 years from the initial 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:		4	

	Conifer	Hardwood	Total
Net Volume (MBF)	5,000		5,000
Stumpage Value (\$/MBF)	\$150		
Estimated Gross Value	\$750,000		\$750,000
		Project Costs:	\$45,000
		Estimated Net Value:	\$705,000

**VI. HARVESTING AND ACCESS CONSIDERATIONS:**

The sale areas can be accessed via Rogers Camp Road, Beaver Dam Road and Firebreak One Road. These are currently all weather, crushed rock roads. Most of the timber will have a designated hauled route out the Rogers Camp Road and Firebreak One Road. This should minimize any impacts and increase safety due to the heavy recreational use in the area.

To allow for sale access, 0.65 miles of spur roads will be constructed and surfaced at an estimated cost of \$45,000. Rock will be obtained from the Browns Camp Stockpile.

Roads will be ridge top and gentle slope locations, and no stream crossings. The roads are necessary to access the ridge tops and timber in all parts of the timber sale area.

All sale spurs will be blocked at the conclusion of the sale.

Logging is estimated: 75% ground based and 25% cable.

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

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construction	0	0	0.65	0
Improvement	0	0	0	0
Maintenance	0	0.8	7.9	0
Vacation	0	0	0	0

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

Several small seasonal and one perennial type N stream, tributaries of Gales 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.

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 installation and replacement in live streams will be conducted between July 1 and September 30. Operations outside of this period will be reviewed with ODFW.

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

The sale area has been 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. The ODF wildlife biologist for the NW Oregon Area reviewed and approved this determination.

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

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:**

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 areas 1 and 2. The sale area drains to Low Divide Creek and to an unnamed tributary of the Devils Lake Fork of the Wilson River. The risk of landslides delivering to these streams from the sale area is low. Portions of the sale area appear to be located on a large, deep-seated landslide landform. The geotechnical specialist will be consulted if evidence of recent landslide activity is identified during sale layout.

## **X. RECREATION RESOURCES:**

The sale is located 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:

The sale is within a focused recreation use area and is surrounded by various hiking trails and OHV trails, specifically the Rogers Camp Road, and Firebreak One Trail. A certain amount of impact to the trail system is inevitable. However, much consideration will be given in order to minimize this impact as much as is deemed appropriate.

Due to high ATV use in the area, haul routes should avoid using Roger's Camp Road through the day use staging area, and haul out directly to the highway. This may require construction of a turn around. Also, rock hauling should not be permitted on weekends and holidays.

A potential project of improvement of the Roger's Camp Day Use Area by adding a lift of 1 ½" – 0 rock will be evaluated at the time of sale prep. Rock will likely be obtained from the Brown's Camp Stockpile site.

Total estimated project costs for recreation are estimated to be \$65,000.

## **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)\*. In Area 1, the Owl Camp Trestle (Consolidated Timber Company) was present with a protection class 2. The area will be evaluated during sale layout, and likely posted out of the sale area. The Wilson Triangulation Point number 2 was present adjacent Area 2 requiring no protection. The Aagard Lumber Company Switchback was in close proximity to Area 4 boundary and will be posted out of the timber sale area. The required protection class for this resource is class 1. If any other significant cultural resources are located during sale preparation, the Public Use Coordinator (ODF Salem Staff) will be consulted regarding potential protection measures.

*\*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:**

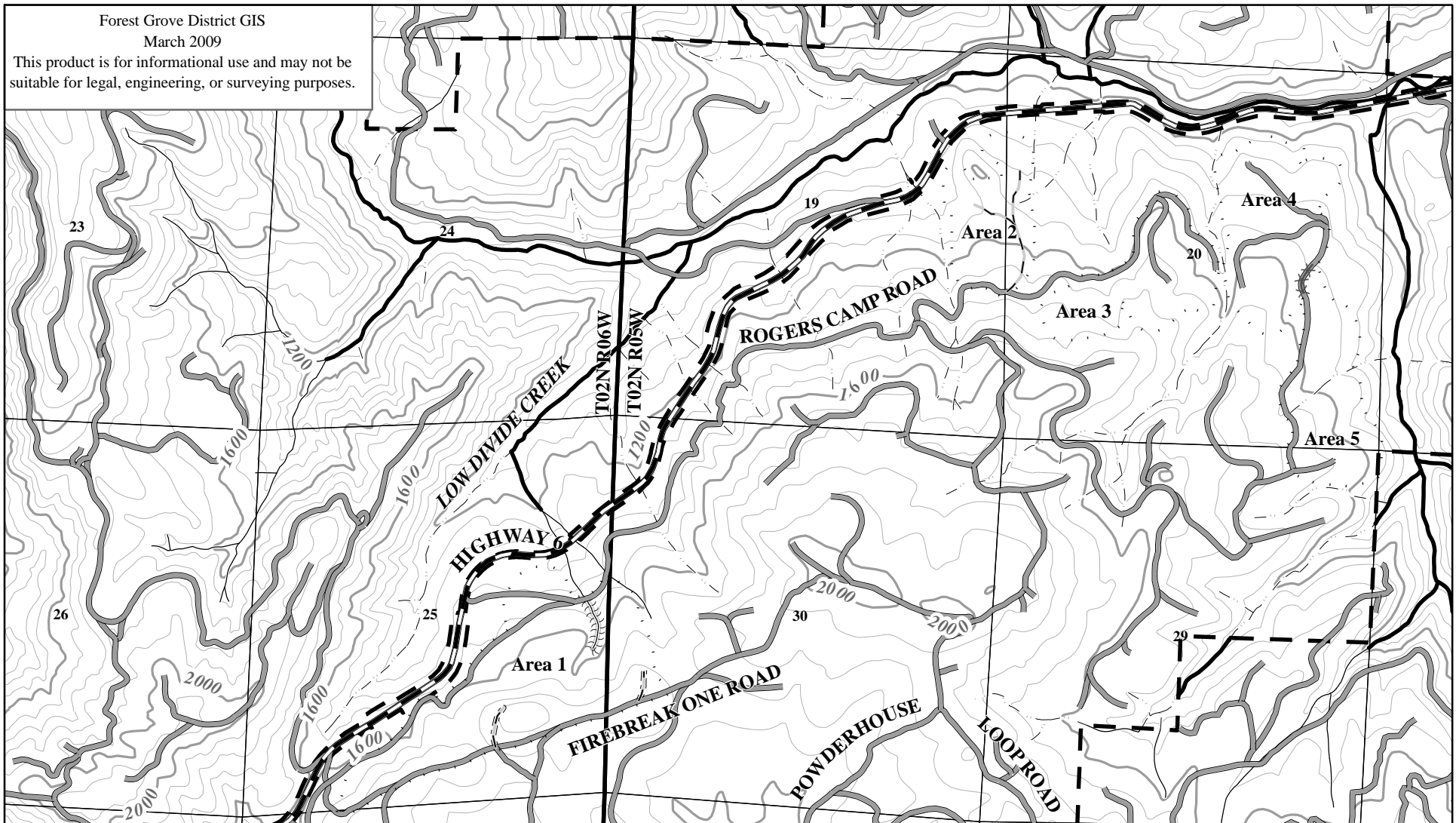
Portions of the timber sale area are within a visual classification level two (moderate sensitivity). The area should not be visible from the Wilson River Highway due to the harvest prescription and the residual stand between Rogers Camp Road and the highway. The timber sale's position on the landscape will have no visual impact on the Roger's Camp trailhead.

**XIII. OTHER RESOURCE CONSIDERATIONS:**

None of significance.

**XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:**

The sale contains Focused and Special Stewardship, Aquatic and Riparian Habitat subclass due to the presence of perennial streams. The sale area also contains Focused Stewardship, Wildlife Habitat due to the location within the Devils Lake Fork Wilson River Salmon Anchor Habitat area. See *Section VII, Aquatic Resources and Water Quality* for the management guidelines to be followed. There is Focused Stewardship, Visual within the sale area for the Wilson River Highway corridor. See *Section XII, Scenic Resources* for the management guidelines to be followed.



**Legend**

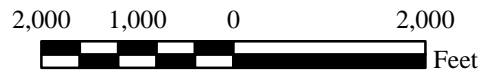
- ODF Ownership
- Area Boundary
- Timber Sale Boundary
- Road Construction
- major\_roads
- Existing Road
- Road Construction Right-of-Way
- Stream Buffer
- Perennial Fish Streams
- Perennial Non-fish Streams
- Stream, Unknown Fish Presence
- 400' Contour Interval
- 80' Contour Lines

FY 2010  
 ROGER'S RIDDLE  
 PORTIONS OF SECTIONS 19, 20, 29, AND 30  
 T02N, R05W, W.M., AND PORTIONS OF  
 SECTION 25, T02N, R06W, W.M.  
 WASHINGTON COUNTY, OREGON

**3**

Attachment A: Topography

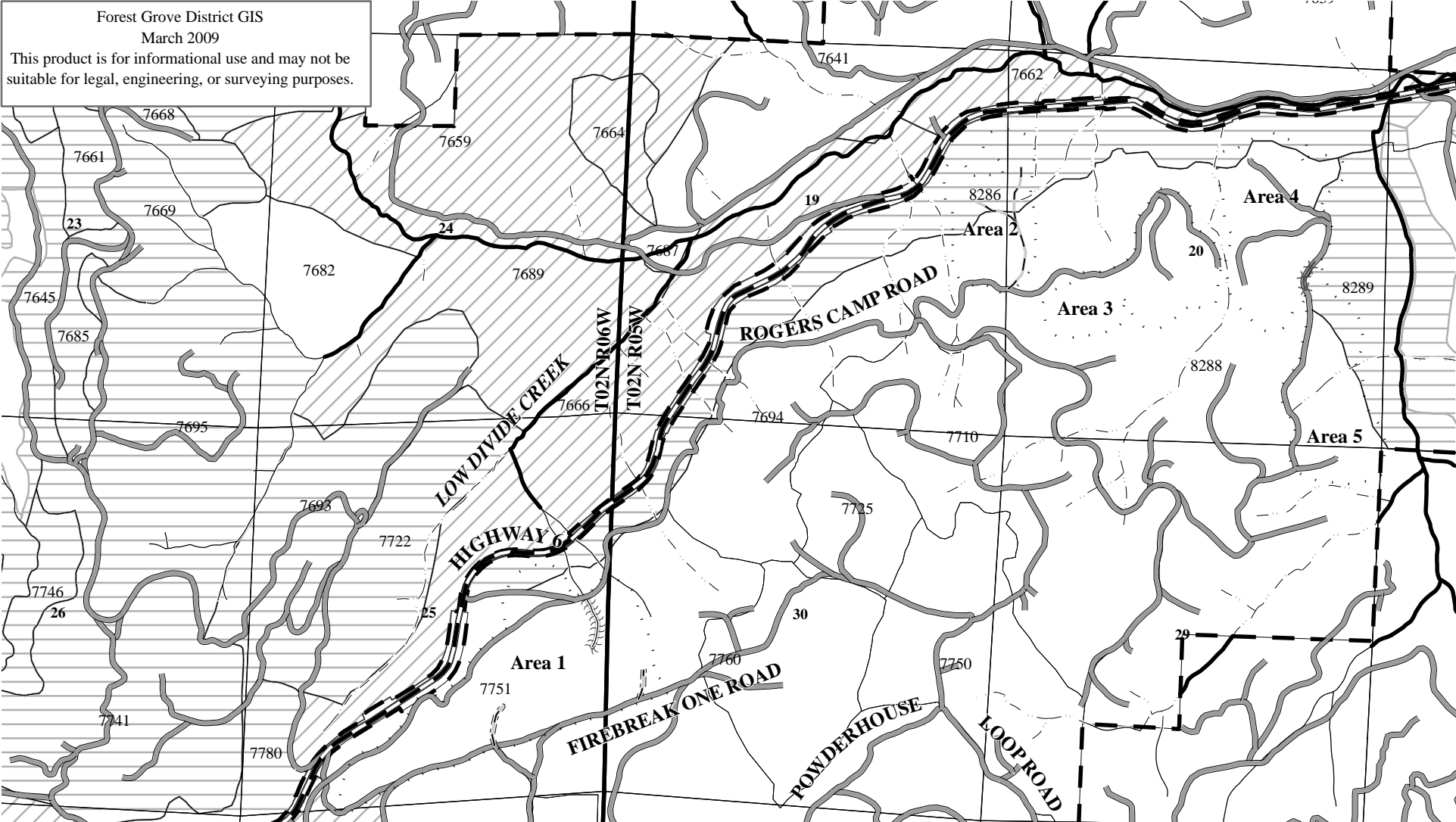
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 1 inch = 2,000 feet



**APPROXIMATE NET ACREAGE**

AREA 1 (PC-M)	127
AREA 2 (PC-M)	40
AREA 3 (PC-M)	50
AREA 4 (PC-M)	65
AREA 5 (PC-M)	53
<b>TOTAL</b>	<b>335</b>

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

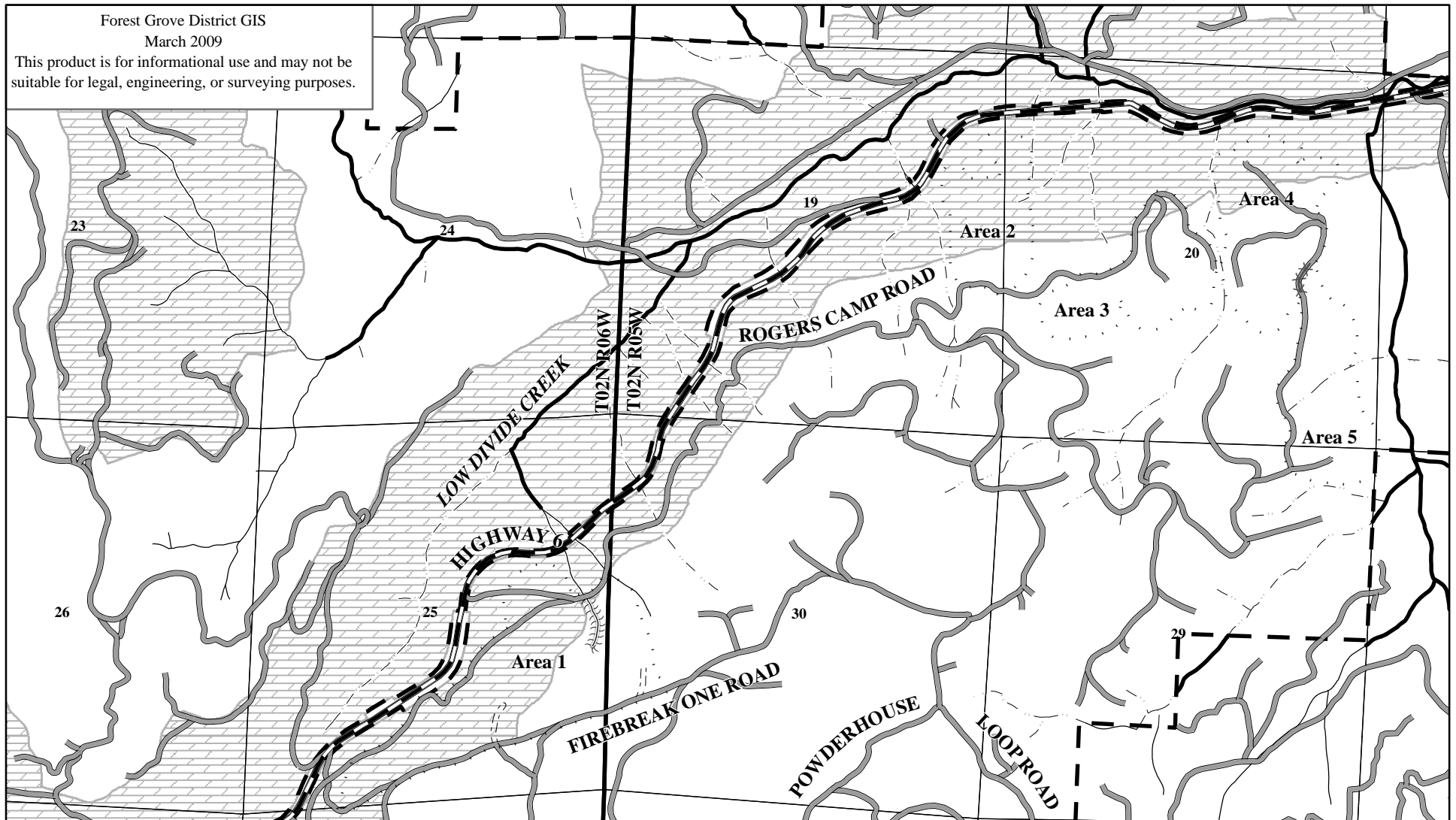


<b>Legend</b>		FY 2010 ROGER'S RIDDLE PORTIONS OF SECTIONS 19, 20, 29, AND 30 T02N, R05W, W.M., AND PORTIONS OF SECTION 25, T02N, R06W, W.M. WASHINGTON COUNTY, OREGON		<b>3</b>	APPROXIMATE NET ACREAGE	
ODF Ownership	Stream Buffer	Attachment B: DFC				
Area Boundary	Perennial Fish Stream	Scale: 1:24,000 1 inch = 2,000 feet				
Timber Sale Boundary	Perennial Non-fish Stream	2,000 1,000 0 2,000				
Road Construction	Stream, Unknown Fish Presence	Feet				
major_roads	DFC - LYR					
Existing Road	DFC - OFS					
Road Construction Right-of-Way	Stand ID					

AREA 1 (PC-M)	127
AREA 2 (PC-M)	40
AREA 3 (PC-M)	50
AREA 4 (PC-M)	65
AREA 5 (PC-M)	53

TOTAL 335

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**Legend**

- ODF Ownership
- Area Boundary
- Timber Sale Boundary
- Road Construction
- major\_roads
- Existing Road
- Road Construction Right-of-Way
- Stream Buffer
- Perennial Fish Stream
- Perennial Non-fish Stream
- Stream, Unknown Fish Presence
- Focused Stewardship - Visual

FY 2010  
 ROGER'S RIDDLE  
 PORTIONS OF SECTIONS 19, 20, 29, AND 30  
 T02N, R05W, W.M., AND PORTIONS OF  
 SECTION 25, T02N, R06W, W.M.  
 WASHINGTON COUNTY, OREGON  
 Attachment C1: Key Resources

**3**

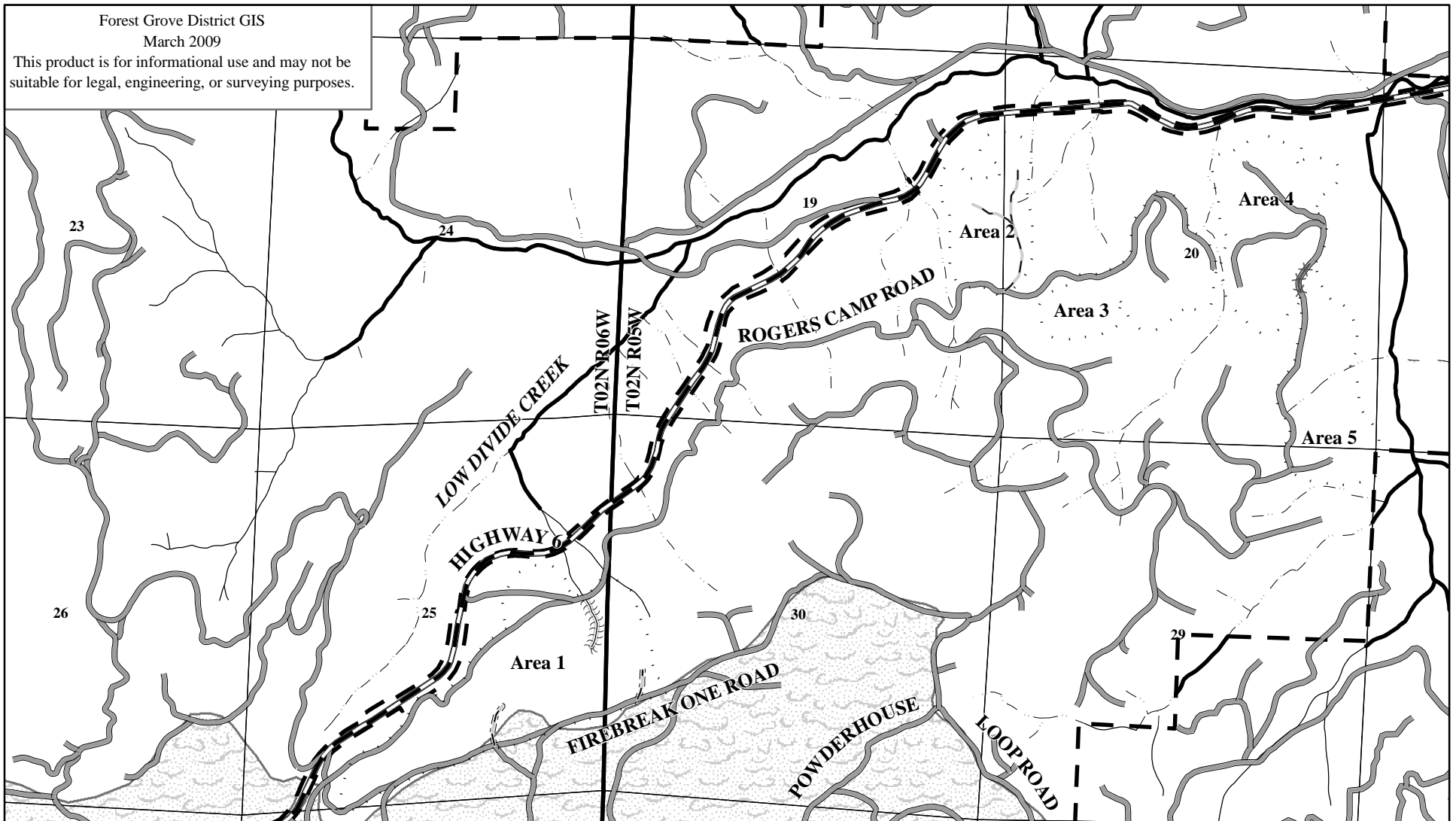
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**APPROXIMATE NET ACREAGE**

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AREA 2 (PC-M)	40
AREA 3 (PC-M)	50
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AREA 5 (PC-M)	53
<b>TOTAL</b>	<b>335</b>

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**Legend**

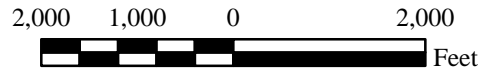
- ODF Ownership
- Area Boundary
- Timber Sale Boundary
- Road Construction
- major\_roads
- Existing Road
- Road Construction Right-of-Way
- Stream Buffer
- Perennial Fish Stream
- Perennial Non-fish Stream
- Stream, Unknown Fish Presence
- Salmon Anchor Habitat

FY 2010  
ROGER'S RIDDLE  
PORTIONS OF SECTIONS 19, 20, 29, AND 30  
T02N, R05W, W.M., AND PORTIONS OF  
SECTION 25, T02N, R06W, W.M.  
WASHINGTON COUNTY, OREGON

**3**

Attachment C2: Key Resources

Scale: 1:24,000  
1 inch = 2,000 feet



**APPROXIMATE NET ACREAGE**

AREA 1 (PC-M)	127
AREA 2 (PC-M)	40
AREA 3 (PC-M)	50
AREA 4 (PC-M)	65
AREA 5 (PC-M)	53

**TOTAL** 335