

# Pre-Operations Report

**Operation Name:** Lion's Lair  
**County:** Clatsop  
**Management Basin:** Beneke

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

Area	Type of Operation	Gross Acres	Net Acres
1	MC	37	34
2	MC	62	62
3	MC	34	30
Total	Modified Clearcut	133	126

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

The sale is located in the headwaters of Trailover Creek and an unnamed tributary of Beneke Creek. Areas 1 and 3 of the sale are located on moderate slide slopes and Area 2 of the sale is located along the gentle ridgeline with moderate to steep slopes on the west boundary. The sale is underlain by sedimentary rocks of the informal Northrup Creek Formation and the Pittsburg Bluff Formation. There are invasive dikes that are Intrusive Grande Ronde Basalt of the Columbia River Basalt Group running (northeast trend) through portions of Areas 1 and 2.

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

Area 1 - The current stand is a 74-87 year old Douglas-fir dominant mixed conifer stand with portions dominated by red alder near the Trailover Quarry. The understory consists primarily of dense sword fern in places with occasional vinemapple, huckleberry, and salmonberry. Area 1 has approximately 11 snags per acre over 12 inches in DBH, and 7 snags per acre over 24 inches in DBH. The stand has approximately 2,900 cubic feet per acre of down wood in all decay classes, and approximately 190 cubic feet per acre of down wood in decay classes 1 and 2.

Area 2 - The current stand is a 66-87 year old western hemlock dominant mixed conifer stand with portions dominated by red alder near streams, draws and roads. The understory consists primarily of dense sword fern in places with occasional vinemapple, huckleberry, and salmonberry. Area 2 has approximately 9 snags per acre over 12 inches in DBH, and 4 snags per acre over 24 inches in

DBH. The stand has approximately 2,600 cubic feet per acre of down wood in all decay classes, and approximately 190 cubic feet per acre of down wood in decay classes 1 and 2.

Area 3 - The current stand is a 65-71 year old western hemlock dominant mixed conifer stand with portions dominated by red alder near streams and draws. The understory consists primarily of dense sword fern in places with occasional vinemaple, huckleberry, and salmonberry. The southern half of Area 3 has approximately 7 snags per acre over 12 inches in DBH, and 3 snags per acre over 24 inches in DBH. The stand has approximately 2,600 cubic feet per acre of down wood in all decay classes, and approximately 130 cubic feet per acre of down wood in decay classes 1 and 2. The northern half of Area 3 was not measured for downwood and snags and will be assessed during field layout.

**Table 2. Stand Inventory Information**

Area	Prescription	Stand ID <sup>1</sup>	Species	Age	DBH	BA	TPA	SDI	Acres <sup>2</sup>
1	MC	23723	DF	74	19	300	152	72	17
		23271	DF,WH	87	17	243	164	61	17
		Target <sup>3</sup>							34
2	MC	23695	WH, DF	66	16	283	142	74	46
		23271	DF,WH	87	17	243	164	61	16
		Target <sup>3</sup>							62
3	MC	23695	WH, DF	66	16	283	142	74	11
		23790	DF, WH, RA	67	19	307	162	73	19
		Target <sup>3</sup>							30

1 The source of stand inventory information is SLI. Age shown is as of 2008.

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

3 The Target identifies expected stand characteristics (DBH, BA, TPA and SDI) after harvesting has been completed.

### **III. DESIRED FUTURE CONDITION/VISION:**

None of the sale areas have been placed into a specific desired future condition such as OFS or LYR.

These areas will be regeneration harvested and planted with a mixture of conifer species. Five to seven conifer trees per acre will be left to provide a source for natural regeneration and future downed wood and snags. A precommercial thinning is anticipated in 12 to 17 years when crowns close followed by a commercial thinning at 30 to 40 years of age to ensure continued growth. At age 45 to 50 the stand will be evaluated for either additional thinning or regeneration harvest.

**Table 3. Stand Structure Information**

Area	Stand ID	Current	Post Harvest <sup>1</sup>	Desired Future	Acres
1	23723	UDS	REGEN	GENERAL	17
	23271	LYR	REGEN	GENERAL	17
2	23695	LYR	REGEN	GENERAL	46
	23271	LYR	REGEN	GENERAL	16
3	23695	LYR	REGEN	GENERAL	11
	23647	UDS	REGEN	GENERAL	19

<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:**

Areas 1, 2, and 3 - These areas are modified clearcuts that will be replanted with a mixture of conifer species. Site preparation on gentle slopes will be done by mechanical slash manipulation. On steeper slopes the site preparation will be accomplished through cable harvesting activities. Planting will be at 300 to 350 trees per acre with a mix of Douglas-fir, western hemlock, and true-firs. Mountain beaver trapping will focus on the sword fern/alder type areas. Animal damage through big game browse to conifer seedlings is anticipated to be high in all sale areas. Tree protection will be prescribed to the newly planted conifer species; Douglas-fir will receive paper bud caps at initial planting.

*Green Trees:* A combination of methods will be implemented to achieve the green tree retention requirements such as green tree retention areas, stream buffers, and trees scattered across the sale areas (FMP, page 4-53, Paragraph 2). Minor species found may be reserved from cutting; further consideration of those species will be taken during sale layout. In addition, individual and small clumps of non-merchantable alder may be left in operationally feasible areas to provide short term snag recruitment.

*Snags:* During all harvesting activities, all existing snags will be retained unless deemed to be safety hazards. In all three MC areas stand inventory information indicates that we currently have more than two snags/acre. If sale cruise information indicates less than two snags/acre actually exist in the units, then supplemental snag creation will be planned with the operation.

*Downed Wood:* For all harvesting activities, all existing down woody debris will be retained. Down woody debris levels will be assessed and if deficiencies are found to exist on an individual unit, then additional conifer trees and/or conifer logs will be retained to meet the landscape targets for down woody debris as prescribed in the FMP (FMP, "Landscape Management Strategy 3d. Down Wood.", pages 4-54 and 4-55.) Obvious defect in conifer logs will be bucked out in the unit to enhance existing downed wood levels in decay class 1 and 2.

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

**Table 4. Timber and Revenue**

Ownership		Sale Type	
BOF	CSL	Cash	Recovery
100%	0%	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Planned Quarter:		Alternate	

	Conifer	Hardwood	Total
Net Volume (MBF)	3,293	1,000	4,293
Stumpage Value (\$/MBF)	\$200	\$250	
Estimated Gross Value	\$658,600	\$250,000	\$908,600
		Project Costs:	\$40,480
		Estimated Net Value:	\$868,120

**VI. HARVESTING AND ACCESS CONSIDERATIONS:**

Access to the harvest site will be from Trailover Road and Trailover Quarry Road. The haul route will be down Trailover Road to Beneke Road and out Beneke Creek County Road to Highway 202. Approximately 1.0 mile of new road will be constructed for harvest purposes. Dirt spurs will be designed for summer hauling and will be vacated after operations are completed. The road rock needed for road construction will be obtained at the Trailover Quarry stockpiles. Test drilling will be conducted at the Wildgoose Quarry.

The sale will have cable-yarding settings as well as ground-yarding areas. These areas were determined from analysis of the terrain and landing locations. Existing roads will be utilized as much as possible when constructing the logging plan.

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

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construct	0.0	0.0	0.4	0.6
Improve	0.0	0.0	0.0	0.0
Maintain	7.5	0.0	0.0	0.0
Close/Block	0.0	0.0	0.0	0.0
Vacate	0.0	0.0	0.0	0.6

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

*Type F and Domestic Use Streams:* Area 1 in the southeast, borders a medium Type F, unnamed tributary of Beneke Creek for approximately 350 feet.

Area 2 in the southwest, borders a medium Type F, unnamed tributary of Beneke Creek for approximately 1,150 feet. This tributary contains Oregon Coast Coho, a federally listed fish.

There are no known domestic water systems associated with this sale.

*Aquatic Resource Protection:* For all areas, full log suspension is required when cable yarding over streams. No ground-based logging equipment operation is allowed within the stream bank zone. No stream crossings are anticipated during road construction. 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 Aug. 31. Operations outside of this period will be reviewed with ODFW. If any additional in-stream work is done with this sale, it will all be conducted during in-stream work periods established by ODFW. 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.

### *Small Type N Streams just above the Type F/ N Boundary*

Small type N streams can influence stream temperature of downstream fish-bearing streams. Sufficient trees will be retained within 500' of the confluence with type F streams to achieve 80% shade over streams.

*Type N Streams:* There are small perennial Type N streams within all sale areas. A 25' no-harvest buffer will be established along the small type N streams. Additional trees including some wildlife trees may be retained adjacent to the streams, which may result in a wider buffer.

*Seasonal Small Type N Streams:* Equipment will be excluded from the stream bank zone (within 25' of the channel) to maintain the integrity of the stream channel. Some wildlife trees will be retained within and/or adjacent to the seasonal stream channels, which may result in a wider buffer.

All streams will be examined to determine stream type and classification during sale layout, and then the specific riparian management area strategies required in the FMP will be implemented. The FMP riparian management area strategies

that will be implemented are found in the FMP, Appendix J, "Management Standards for Aquatic and Riparian Areas", pages J-1 through J-16.

Possible stream enhancement work will be conducted with this sale in the vicinity of Areas 1 and 2. Further review of stream enhancement needs will be conducted during sale layout in cooperation with ODFW.

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

The ODF Northwest Area Biologist determined on February 28, 2006 that none of the sale areas contained suitable habitat for Marbled Murrelets.

All sale areas were surveyed to protocol for northern spotted owl in 2006 yielding one detection within the 1.5 mile survey range. This detection was attributed to the Deliverance owl as it was within the Deliverance Home Range. The 2007 and 2008 surveys for NSO yielded no detections.

The sale area was checked against district knowledge for any listed plant location. The sale area was also checked against the Oregon Natural Heritage Program (OHNP) database of known listed plant locations. No listed plant records were identified within the sale area.

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

There are only a few scattered small steep slopes in Areas 1 and 3. Area 2 has a band of steep slopes near the west boundary. The initial risk assessment by the geotechnical specialist for Areas 1 and 3 of this sale is low. The initial risk assessment by the geotechnical specialist for the west portion of Area 2 is moderate. The geotechnical specialist will be consulted during sale layout of Area 2 to determine if a field visit is needed.

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

This area receives little use, most likely hunting and dispersed camping. The Clatsop State Forest Recreation Plan does not list any specific activities for this portion of the basin.

#### **XI. CULTURAL RESOURCES:**

No known cultural resources are within or adjacent to the operation.

#### **XII. SCENIC RESOURCES:**

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

**XIII. OTHER RESOURCE CONSIDERATIONS:**

No survey work is required with this sale. Protection of several research and monitoring plots which are outside the sale, but in close proximity to several of the harvest units should be identified and protected.

**XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:**

All acres in Areas 1-3 are classified as “general management.”

# FY 2010 Lions Lair

Portions of Sections 12, 13, & 14,  
T6N, R7W, W.M., Clatsop County, OR

## Approximate Net Acreage

	MC Acres	PG Acres
Area 1 (MC) -	34	
Area 2 (MC) -	62	
Area 3 (MC) -	30	
Total by Prescription =	126	
Total Sale Acres =	126	



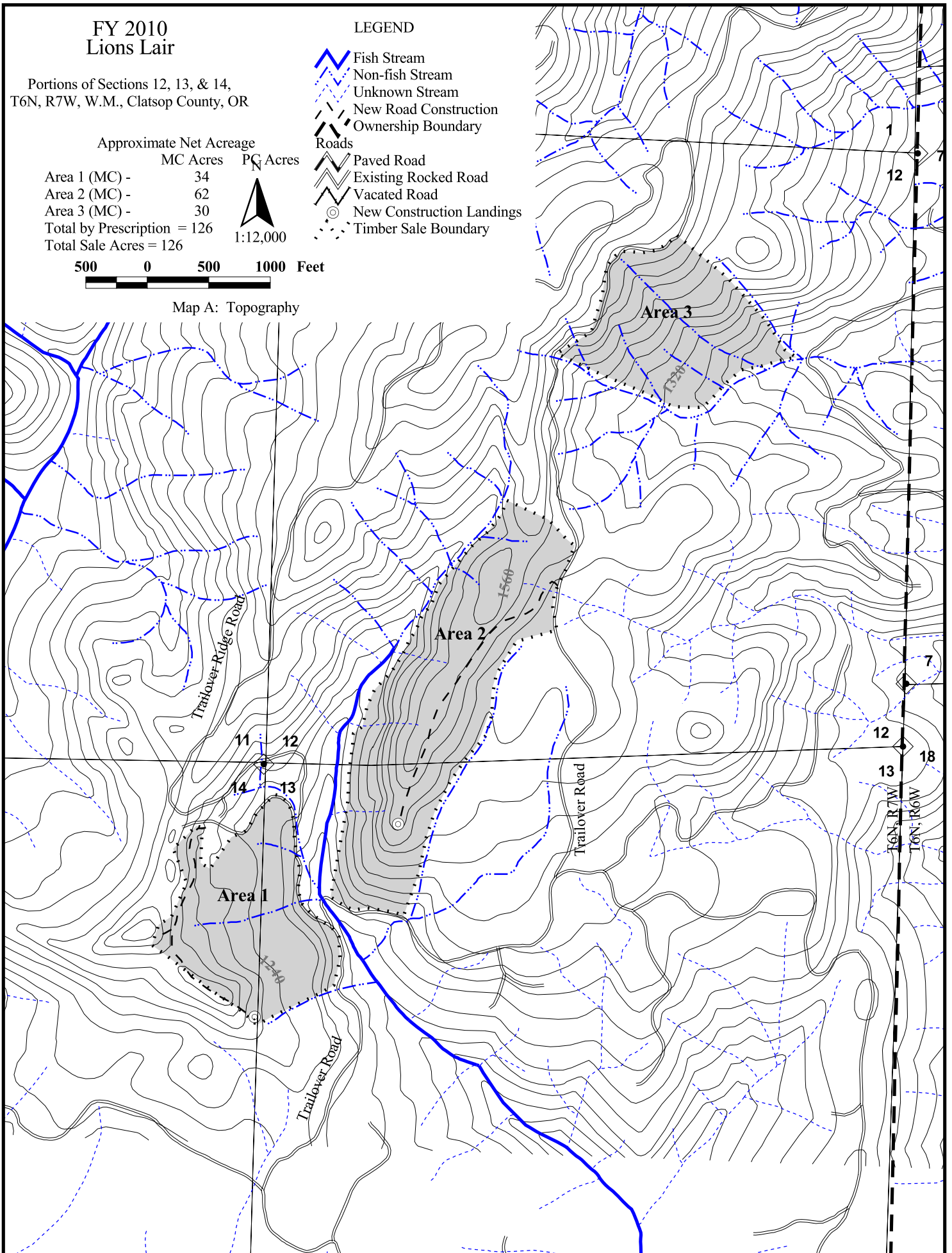
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Map A: Topography

## LEGEND

- Fish Stream
- Non-fish Stream
- Unknown Stream
- New Road Construction
- Ownership Boundary
- Roads**
- Paved Road
- Existing Rocked Road
- Vacated Road
- New Construction Landings
- Timber Sale Boundary



# FY 2010 Lions Lair

Portions of Sections 12, 13, & 14,  
T6N, R7W, W.M., Clatsop County, OR

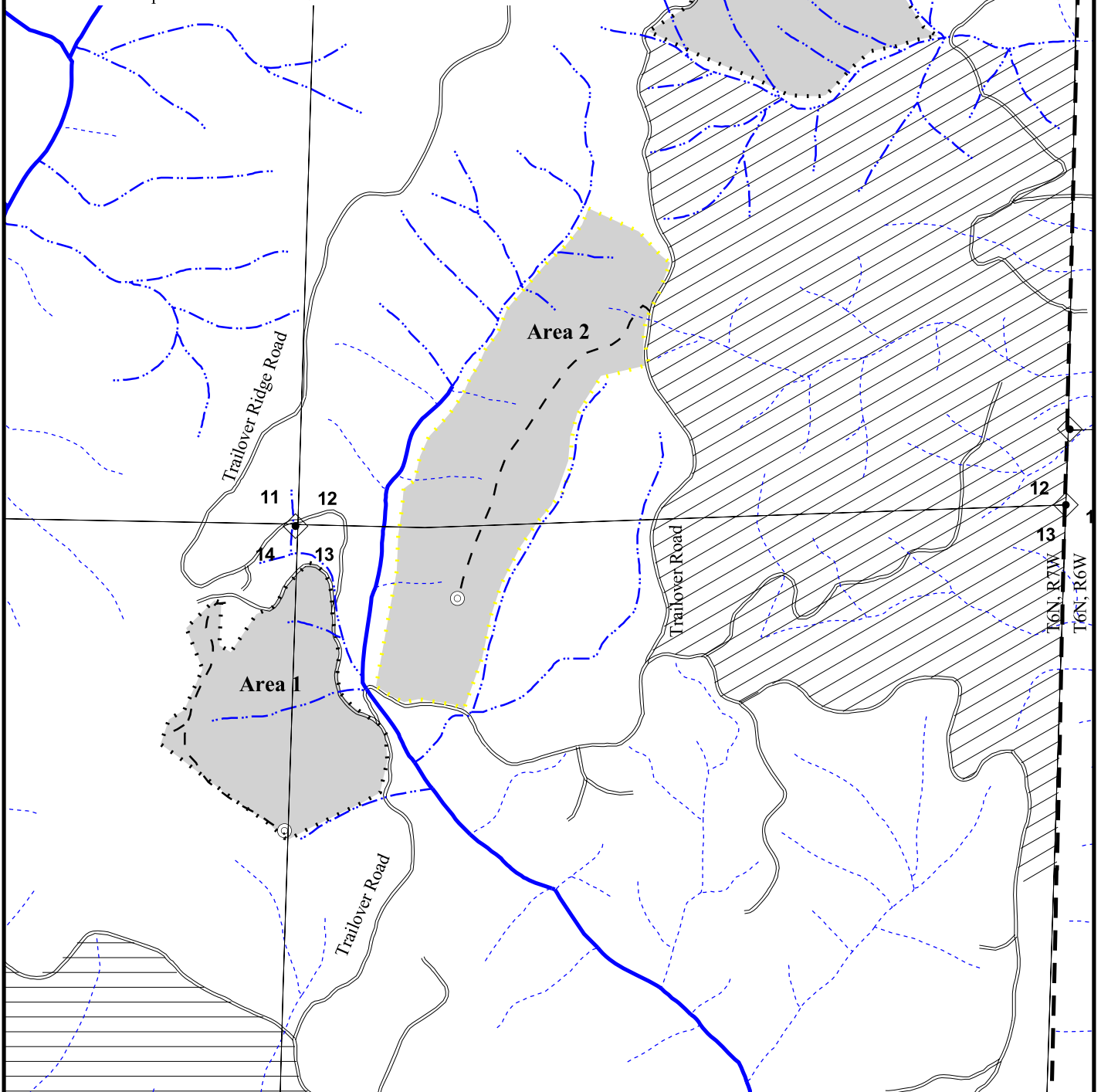
Approximate Net Acreage

	MC Acres	PC Acres
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- LEGEND**
- Fish Stream
  - Non-fish Stream
  - Unknown Stream
  - Timber Sale Boundary
  - Ownership Boundary
  - Roads**
  - Paved Road
  - Existing Rocked Road
  - Vacated Road
  - New Road Construction
  - New Construction Landings
  - Desired Future Condition**
  - LYR
  - OFS

Map B: Desired Future Condition



# FY 2010 Lions Lair

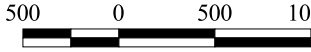
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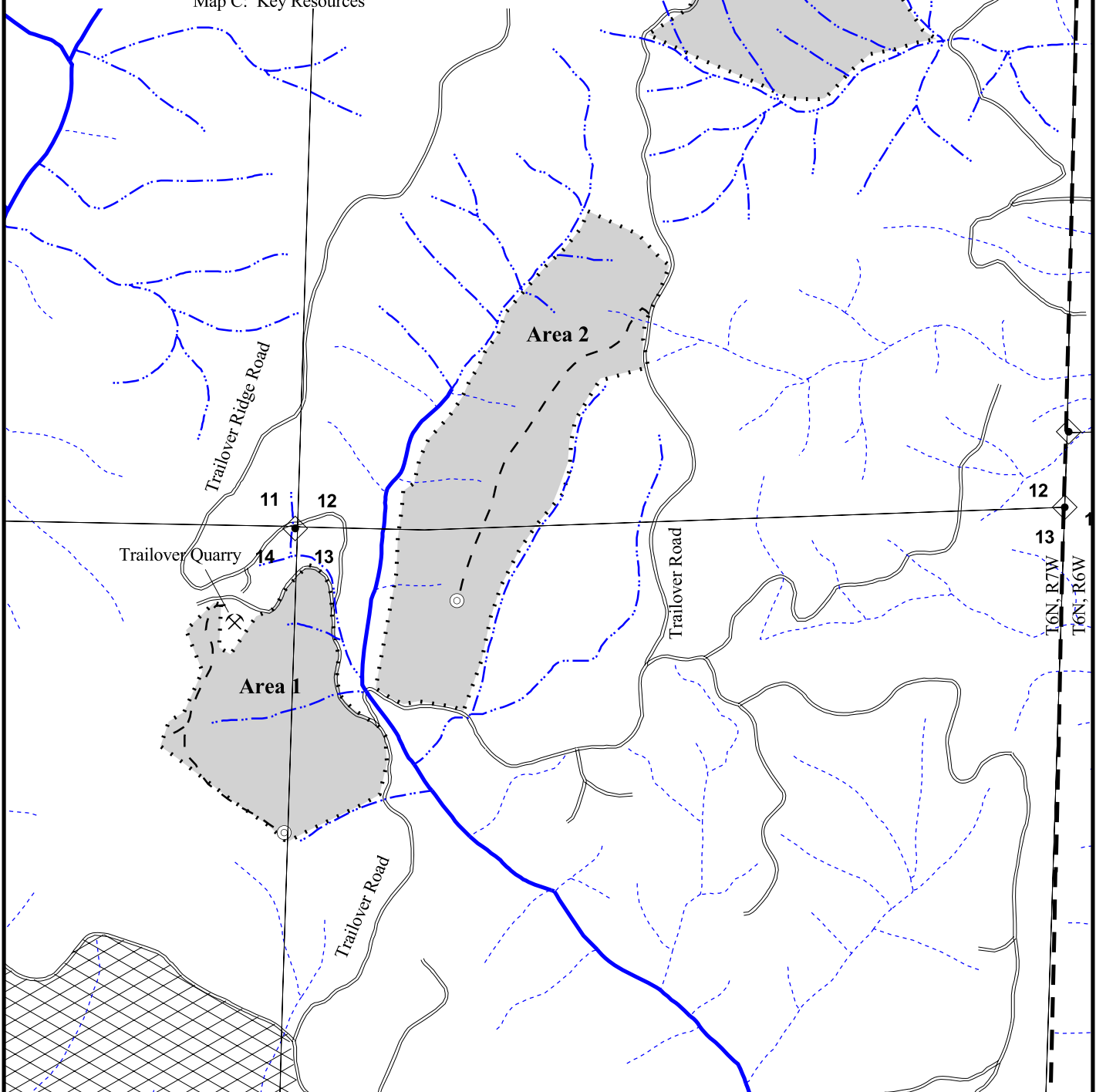


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Map C: Key Resources

- LEGEND**
- Fish Stream
  - Non-fish Stream
  - Unknown Stream
  - Ownership Boundary
  - Roads**
  - Paved Road
  - Existing Rocked Road
  - Vacated Road
  - New Construction Landings
  - New Road Construction
  - Quarry
  - Timber Sale Boundary
  - Cluster Boundary



1

12

12

13

T6N, R7W  
T6N, R6W