

Pre-Operations Report

Operation Name: Lucky Logger
County: Klamath

Table 1. Operation Areas, Types and Acres

Stand	Type of Operation	Gross Acres	Net Acres
459	Partial Cut	80	80
465	Partial Cut	38	38
460	Partial Cut	46	40
461	Partial Cut	33	30
Total		197	188

I. PHYSICAL DESCRIPTION OF OPERATION AREA:

Soil Types: The sale area consists of the Yainax and Maset soil series. These soils are operable with ground based skidding equipment when the soils are dry.

Vegetation Zone:

Stand 459: Ponderosa Pine Forest Zone. Plant Association: Ponderosa pine/bitterbrush/fescue (CPS2-11).

Stand 465: Ponderosa Pine Forest Zone. Plant Association: Ponderosa pine/bitterbrush/sedge (CPS2-15)

Stand 460: Ponderosa Pine Forest Zone. Plant Association: Ponderosa pine/bitterbrush/fescue (CPS2-11)

Stand 461: Ponderosa Pine Forest Zone. Plant Association: Ponderosa pine/bitterbrush/fescue (CPS2-11)

Slope, Aspect, and Topography: Slopes are generally level in Stands 459, 460, and 461. Stand 465 has moderate slopes with average slope around 25%. Overall aspect in Stand 465 is north.

II. CURRENT STAND CONDITION:

Table 2. Stand Inventory Information.

Area	Prescription	Stand ID ¹	Species	DBH ³	BA ⁴	TPA ⁵	SDI ⁶	Acres ²
1	PC	459	PP	14.4	136.3	138.5	222.1	80
			WJ	N/A	1.5	17.2	4	
		Totals			137.8	155.7	226.1	
2	PC	465	PP	12.8	154.8	325.7	291.8	38
			LP	10	8.5	27.2	17.4	
		Totals			163.3	352.9	309.2	
3	PC	460	PP	15.1	71.9	84.2	120.7	
			QA	N/A	2.5	16.1	5.9	
			WJ	13.2	7.2	13.7	13.3	
		Totals			81.6	114	139.9	
4	PC	461	PP	14.6	64.6	63.8	104.6	
			WJ	11.4	25.3	38.4	44.7	
		Totals			89.9	102.2	149.3	

1 The source of stand inventory information is from 2003 in stands 459 and 465 and 1990 for stands 460 and 461. All stands were updated to 2004 using FPS.

2 The acres are based on GIS and roads, streams buffers, reserve areas, etc are included in gross acreage.

3 The Diameter Breast Height represented is the average DBH of trees 8" and larger for volume and value computations.

4. BA – Basal Area

5. TPA – Trees per Acre

6. SDI – Stand Density Index

Stands 459 and 465 are overstocked. Current basal area density is 136 square feet per acre in Stand 459 and 163 square feet per acre in Stand 465. Current guidelines for ponderosa pine in this area call for keeping stands between 70 and 130 square feet per acre in order to maintain stand health at levels to resist insect attacks. Stands 460 and 461 have areas of non-forest scab flats and juniper forest. While average density does not indicate overstocking, pockets of ponderosa pine are overstocked.

III. DESIRED STAND CONDITION:

The objectives for the sale area include:

1. Create a healthy, insect and disease-resistant stand by reducing stocking levels in all size and age classes.
2. Create or retain an uneven-aged stand structure capable of sustainable timber production through periodic harvest intervals.
3. Establish a viable cohort of ponderosa pine regeneration.

4. Enhance wildlife habitat through sustained recruitment of wildlife trees, snags, and down woody debris; and maintenance of shrub and forb species for forage production.

IV. PROPOSED MANAGEMENT PRESCRIPTION:

The forest health objectives will be accomplished by reducing stand density from current levels to an average stand basal area of 70 to 80 square feet outside the group selections. Silvicultural manipulation of the stand will include individual tree selection generally as a thin from below favoring the best individual trees. In addition, about 10% of stands 459 and 465 will be treated with group selections ranging from ½ acre to 3 acres. These groups will be planted with ponderosa pine. In stands 460 and 461 most of the juniper will be removed to enhance forage production for wildlife.

Most of the existing snags as well as high defect trees for snag recruitment will be retained for wildlife habitat enhancement unless their juxtaposition conflicts with the safety of the logging operation. Existing large downed wood, long butts from the logging operation, and cull logs will be left in place in the woods or skidded from the landing and scattered on the sale area.

The sale plan is intended to include the treatment of both sawlog sized material and subsawlog sized material. Designated trees 5” to 8” dbh will be required to be yarded to the landing as part of the project work. These trees will be chipped if the market allows or the piles will be burned.

The stand objective is to develop an uneven-aged stand of ponderosa pine. Reduction of stand stocking through thinning and subsawlog material extraction will develop a more fire resistant stand by decreasing the overall fuel level and by reducing ladder fuels.

All currently present age classes will be represented in the post-harvest stand with the harvest prescription focused entirely on promoting individual tree vigor, resilience to natural disturbances, and forest health.

V. ESTIMATED TIMBER AND REVENUE INFORMATION:

Table 4. Timber and Revenue

Sale Type:	Recovery	Planned Quarter:	4
Fund Percentage	100	% BOF	
Net Volume	760	Conifer MBF	
Stumpage Value	\$244.68	Conifer (\$/MBF)	
Estimated Gross Value	\$185,957		
Project Costs:	\$2,500		
Estimated Net Value	\$183,457		

VI. TRANSPORTATION PLANNING AND HARVESTING:

Both stands are accessed by existing roads. Access to the Sprague River Hwy. will need to be negotiated with the adjacent landowners. Some of the property line segments are clearly established, however several sections of property line will need to be checked by the surveyors. Because of the moderate to gentle terrain, ground based logging equipment will be employed. A mechanical feller-buncher will be required for harvesting of the smaller diameter timber and submerchantable material. This will result in minimal damage to reserved trees.

Table 5. Transportation Planning Summary (Miles).

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construct	0.0	0.0	0.0	0.6
Improve	0.0	0.0	0.0	1.2
Maintain	0.0	1.3	0.0	0.0
Close/Block	0.0	0.0	0.0	1.8
Vacate	0.0	0.0	0.0	0.0

See AOP Summary Document for road use level definitions.

VII. AQUATIC RESOURCES AND WATER QUALITY:

There are no streams or wetlands on the sale area.

VIII. T&E SPECIES CONSIDERATIONS:

The sale area is not within the range of the spotted owl. There are no other threatened or endangered species considerations in the sale vicinity.

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 (ONHP) database of known listed plant locations. No listed plant records were identified within the sale area.

IX. SLOPE STABILITY AND GEOTECHNICAL ISSUES:

None. Most of the sale area is nearly level with maximum slopes around 30%.

X. RECREATION RESOURCES:

Fall hunting is the only known recreational use of the sale area.

XI. CULTURAL RESOURCES:

This area was evaluated during preparation of the Cultural Resource Inventory Planning Document by the University of Oregon. A portion of the sale area includes an old railroad grade and a high probability landform due to the proximity of water. Field reconnaissance will be conducted by the Cultural Resource Specialist prior to final sale preparation to determine whether any level of protection is required.

XII. SCENIC RESOURCES:

There are no visual concerns associated with the sale area.

XIII. OTHER RESOURCE CONSIDERATIONS:

None.

XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY

The sale area is classified as a General Stewardship.