Shellwood Resource Management Project

Clackamas River Ranger District.

The Shellwood project is an attempt to promote movement of resource conditions toward the desired future conditions and management goals for the area as defined in the Mt. Hood Forest Plan, the Northwest Forest Plan, and the Oak Grove Watershed Analysis. The Shellwood area (legal description- T5S, R7E, sections 23, 25, 26, 35, 36, Willamette Meridian, surveyed, Clackamas County, Oregon) is located in the Shellrock subdrainage of the Oak Grove Fork watershed. Land allocations are C1- Timber Emphasis and B2-Scenic Viewshed in the Mt. Hood Forest Plan and Matrix in the Northwest Forest Plan.

Purpose and Need/Proposed Actions

Some timber stands in the project area do not meet some of the desired future conditions described above. The following lists the need for action and the purpose of the project.

Need The project area contains stands that are growing slowly and have been determined to be past the culmination of mean annual increment. These stands have a high level of root disease and mistletoe. They do not contribute to an aggregated vegetative pattern. Without treatment stand growth will not be optimal. Root diseases will continue to cause mortality and decay. There will be growth reduction due to the mistletoe. The area will also remain in a fragmented condition which does not approximate the natural disturbance pattern. If no action is taken these stands will continue to decline.

Purpose The objective of the project is to convert these stands to young productive stands that are capable of growth commensurate with the site's potential.

The Oak Grove Watershed Analysis describes the Oak Grove as a very fragmented watershed within a highly fragmented subbasin. Most of the watershed is classified as fragmented. Fragmentation increases the amount of edge habitat but decreases the amount of interior habitat. Recommendations are to focus on islands and peninsulas for regeneration harvests which will decrease the degree of future fragmentation. By implementing the conceptual landscape design, there will be an increase in connectivity of late seral habitat, an increase in the amount of interior habitat, and an increase in the patch size of early seral openings (more closely resembling the natural disturbance regime).

Proposed Action There are approximately 78 acres of regeneration harvest proposed with this project. Stands would be regenerated by removing most of the trees and preparing the site for planting. At least 15% of the green trees would be retained; some in patches and some as scattered trees. After site preparation these areas would be replanted with a diverse mixture of disease tolerant species. The shelterwood method would be used to provide protection to the seedlings.

The proposed action on approximately 73 additional acres of mature forest, which has

deteriorated to the point that commercial timber harvest would be economically unfeasible due to the lack of available timber volume, is site preparation followed by replanting with a diverse mixture of disease tolerant species. These areas are characterized by decadent, dying trees and a heavy shrub layer of primarily rhododendron which prevents the establishment of tree seedlings.

Need Within the planning area, there are some stands of second growth trees that are experiencing a slowing of growth due to overcrowding. If left unaltered, this overstocked condition would result in continued reduction of net annual growth and result in stands with reduced vigor and increased mortality.

Purpose The objective is to increase health and vigor, and to enhance growth which results in larger trees.

Proposed Action On approximately 110 acres of second growth the proposed action is to do a commercial thin and fertilize.



RR- Riparian Reserve (Green) B2- Scenic Viewshed (Blue) C1- Timber Emphasis (White) LSR- Late Successional Reserve (Pink) Proposed Units- Gray

Shellwood Project

Proposed	Approximate	Treatment
Units	Acres	
4	46	Thin
5	64	Thin
6	38	Regen/Site Prep
7	9	Site Prep
8	17	Site Prep
9	4	Site Prep
10	7	Site Prep
11	9	Site Prep
12	5	Regen
13	10	Regen
14	17	Regen
15	22	Regen
16	12	Regen