

ABSTRACT

Management of redwood/fir stands with partial logging has been tested in an 85 year old stand on the Jackson Demonstration State Forest. Five test blocks were established during 1959-1961. They are: clearcut, single tree light selection, single tree heavy selection, group selection and uncut control. After 24 years evaluation, an analysis of the results are made in this report. The three major subject areas reported on are: (1) growth and yield of basal area and volume; (2) periodic changes in diameter distributions; and (3) regeneration success under the residual canopies.

Gross stand volume growth of the logged blocks has not kept pace with that of the uncut block. Diameter distributions following logging have not clearly moved towards a distribution desired in uneven-aged management. Finally, regeneration of redwood and Douglas-fir will not maintain a well stocked stand of these species. Under the tree selection canopies brush, grand fir and hemlock take the space; sprouts in these blocks are not a significant part of the understory. Redwood stumps do not have an aggressive sprout population like that of the group selection and clear cut blocks.

Keywords: partial logging, redwood, growth and yield, diameter distributions, regeneration, tree selection, group selection