

State of California  
George Deukmejian, Governor

The Resources Agency  
Gordon K. Van Vleck  
Secretary for Resources

Department of Forestry  
and Fire Protection  
Richard J. Ernest  
Director

**ABSTRACT**

Redwood sprout regeneration after clear cutting and partial cutting of 85 year old young-growth stands in three cut blocks on the Jackson Demonstration State Forest is examined in this study. Slash was burned on one of the two clear cut blocks about six months after harvest, killing the initial crop of sprouts.

Six randomly located 0.4 acre study plots were installed in each block and all trees and stumps were mapped. Data included: diameter of all stumps and trees, number of clumps and

sprouts per stump, and height of the tallest sprout on each stump.

Stocked milacre and 4-milacre quadrats averaged 10.9 +/- 5.0 and 30.8 +/- 13.2 percent respectively in the 18 plots. Redwood sprout regeneration averaged 390.7 +/- 63.9 clumps and 1739.7 +/- 706.9 sprouts per acre. Overall, 93.4 percent of the redwood stumps had sprouted at the end of the first growing season. There were no significant differences (.05 level) between the blocks in either number of clumps or sprouts per acre

KEYWORDS: redwood sprouting, coppice silviculture, clear cutting, partial cutting