Silviculture Trial Summary

Title:
The efficacy of branch pruning lodgepole pine trees infected with Commandra Blister Rust

Officer i/c:
Terry Thrower, Forest Health, Lakes Forest District

Location:
Pinkut Lake, Opening Number 93K032-0011,

Region/District:
Prince Rupert/ Lakes Forest District

Objective:
The first objective of this trial is to determine if pruning branches infected with Commandra Blister rust is a practical, effective means of controlling the disease in stands where, if not treated, the disease will result in the stand becoming NSR (non-sufficiently restocked). The second objective is to determine the distance from the stem at which a branch canker is still likely to become a lethal stem infection. The current recommended distance for a branch canker to be considered non-lethal in the free to grow standards is 60 cm. This trial will test whether or not that distance is appropriate. A third objective is to determine the rate of spread of branch and stem cankers caused by Commandra Blister rust.

Progress:
The trial layout and stem/branch canker identification has been completed (May 1996)

Next Scheduled Assessment/Treatment:
branch pruning will occur on six randomly selected treatment units June 1996
1st re-measurement of canker spread will take place in June 1997

Report Distribution:
Working Plan - Library/Silviculture Branch
Prince Rupert Region - Library
Lakes Forest District - Library

Incomplete
Working Plan for Sx —— Commandra Blister rust branch infection pruning trial.

1. **Objectives**: (1) To test the efficacy and efficiency of branch pruning lodgepole pine infected with Commandra Blister rust. (2) To determine the distance from the stem at which a Commandra Blister rust branch canker has a 90% probability of reaching the stem and killing the tree.

2. **Location**: Lakes TSA, Lakes Forest District, Prince Rupert Forest Region
   Pinkut Lake, Opening Number 93K032-0011

3. **Trial Stock**: Lodgepole pine

4. **Experimental Design**: The pruning trial will consist of 6 replications of 2 treatments (pruned and control). Treatment units are 25m x 25m randomly assigned to each of the two treatments.


6. **Summarize and Report**: The data for the first 10 years will be summarized and reported on in the winter of 2007/2008

7. **Report Distribution**:
   Research Officer - Prince Rupert, Prince George and Cariboo Regions
   District Manager - Lakes, Morice and Bulkley Forest Districts
   Library - Silviculture Branch