ATTN: DON NORRIS  
FROM: SITE SPECIFIC FORESTRY  
      PATRIC MALONEY  

WORKING PLAN

Duck Creek: Lw Seed Tree Pruning; Control of Larch Dwarf Mistletoe  
F.L. A20214; CP: 27; Block: 6. 821023-13

1.0 Objectives

In known mistletoe infected seed tree blocks:

1. Test the effectiveness of removal of the mistletoe by using various pruning techniques.

2. Test the efficiency of pruning seed trees in the reduction of mistletoe in the understory.

3. To monitor the impact of various levels of pruning and the effect these methods have on the treated seed trees in terms of growth and yield, post treatment.

4. To determine if treatment will reduce the risk of infecting the understory thus rendering blocks with the ability to be considered free-to-grow, facilitating free growing requirements.

2.0 Treatments

There are three treatments:

1. Remove between 80-90% of the living crown.

2. Remove only the visible signs of mistletoe from the crown.

3. Remove nothing and maintain as control population.

3.0 Operational Trial Design

Treatment block is approximately 10 ha in size, treatment units are 50m x 50m, measurement plot are 31.62m x 31.62m (1000m2) thus this design can be fit to any block. Furthermore, if the economics of the treatment types are suitable, replications should be considered in Arrow, Boundary and Cranbrook.
4.0 Analysis

As per above, if replications are completed, sampling and analysis will be designed by Regional Research.

5.0 Duration

Section A: seed trees should be reexamined every 2 years for 10 years to qualitatively measure and record new/latent infections that become expressed.

Section B: re-measurement every 5 years, for 35 years minimum to establish if the pruning of seed trees does indeed reduce infections. If yield implications of the regeneration with and without mistletoe infections are added, then re-measurements could switch to every 10 years at age thirty for the rest of the rotation.

6.0 Registration

This project will be registered as an Sx Experimental Trial.

Wynndel Box & Lumber Co. Ltd. will be responsible for the Exhibit A map Kootenay Lake District will be responsible for establishing the map reserves.

7.0 Funding

FRP should continue to fund project until there is sufficient data to integrate this treatment into the appraisal system.