Working Plan for Paclobutrazol Trial

Objective

To test the effectiveness of paclobutrazol in increasing frost hardiness of spruce seedlings prior to outplanting.

Location

Dirk Creek, in the Kamloops Forest District.

Site

ESSFWC2, on sites subject to frost, with and without recent site preparation.

Trial Stock and Treatment

Stock type - 1+0 PSB313 and PSB615
Seedlots - 4022, 8032, 29753
Nursery - Lake Cowichan Forest Research Centre.

The paclobutrazol solution will be applied as a foliar drench in eight applications over a four week period prior to outplanting.

Untreated stock of the same seedlots and stock types will be included as a control.

Plot Design and Stock Requirements

A fully randomized block design will be used for each stock type. For the PSB313 stock, one block will be established. The PSB615 stock will be planted in two blocks.

PSB313 - 500 trees  PSB615 - 500 trees

Dates of Planting and Assessment

Plant - August 3 and 4, 1988
Assessment - Fall '88, Fall '89 and Fall '92

Summary and Report

2nd Year Summary - Fall '88
5th Year Report - Fall '92

Report Distribution

Research Officer - Kamloops
Silviculture Officer - Kamloops
District Manager - Kamloops
Library - Silviculture Branch
FRDA