REPORT SX 85127 N

INTERIM X

FINAL

DATE April 11, 1985

TITLE SHELTERCONE SEEDING TRIAL IN THE GOLDEN DISTRICT (1985)

Report prepared by:  

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(a) Wide Distribution

(b) Limited

(i) Internal - Branch only

(ii) External - Designated

(iii) Ministry only

COPIES TO

Silviculture Branch
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Golden District
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[Handwritten notes]
SX 85128N

SHELTERCONE SEEDING TRIAL IN THE GOLDEN DISTRICT (1985)

Working Plan
1985

L.A. Pittman
SHELTERCONSE SEEDING TRIAL IN THE GOLDEN DISTRICT (1985)

OBJECTIVE:
This seeding trial has been proposed to continue to investigate the potential for sheltercone seeding in the Golden District.

PROCEDURE:

1. Site Description

<table>
<thead>
<tr>
<th>Unit</th>
<th>C.P.</th>
<th>Blk.</th>
<th>Area (Ha)</th>
<th>Zone</th>
<th>Assoc.</th>
<th>Soil Type</th>
<th>Site Treatment</th>
<th>Year of Treatment</th>
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2. Seed

A lodgepole pine (Pinus contorta Dougl.-ex Loud.) and Douglas-fir (Pseudotsuga menziesii Mino Franco) mixture is proposed for units 1, 3 and 5 with a species density of 50:50 pine to fir. Units 2 and 4 will be seeded 100% to spruce (Picea engelmannii Parry). The lodgepole pine seedlot will be #2485, the Douglas-fir #2616 and the engelmann spruce #2617.

The actual seed requirement will be:

1) Spring
   - Lodgepole pine - S.L. #2485 = 186 GMS
   - Douglas-fir - S.L. #2616 = 562 GMS
   - Engelmann spruce - S.L. #2617 = 156 GMS

2) Fall
   - Lodgepole pine - S.L. #2485 = 49 GMS
   - Douglas-fir - S.L. #2616 = 63 GMS
   - Engelmann spruce - S.L. #2617 = 328 GMS

3. Seeding Method

Due to the nature of this project interspot spacing will not be considered critical, however, a target stocking level of 1800 spots per hectare will be established. Each cone will be placed in a 400 cm² screef of mineral and/or organic soil.
4. Sampling

Method – The areas will be systematically sampled using line plots. A minimum of 100 cones will be sampled per treatment unit. Cones will be identified using plastic numbered flags.

Timing – The cones seeded in the spring will be sampled approximately 1 month, 2 months, and 4 months after establishment. The fall seeded cones will be sampled the following June, August and October. Each plantation will then be sampled annually for the next three years.

Rodent Survey – A rodent survey will be conducted on all of the cutblocks to be seeded before treatment is initiated.

5. Administration

Evans Products Company Limited will be responsible for the initiation of this seeding trial, seeding and related administration, field sampling and final reports which will be submitted to the Ministry of Forests. The Ministry for its part shall ensure that all reasonable costs to Evans Products are reimbursed through Section 88 of the Forest Act.