SX 85123W

SHELTERCONE DIRECT SEEDING TRIAL AT
SUCCOUR CREEK

Working Plan
1985

A. Pollard
TITLE Sheltercone-Direct Seeding Trial at Succour Creek

Report prepared by: Allen Pollard (Signature)
                      (Typed)

Report & Distribution approved by: R.B. McNaughton (Signature)
                                   (Typed)

(a) Wide Distribution
(b) Limited
   (i) Internal - Branch only
   (ii) External - Designated
   (iii) Ministry only

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GOLDEN DISTRICT
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Approved:
Manager - D.L. Oswald (Signature)
           (Typed)
DIRECT SEEDING TRIAL

PURPOSE

To evaluate the relative merits of using shelter cones vs broadcast direct seeding on snow.

SITE DESCRIPTION

The area was originally logged and broadcast burned in 1967-69. The brush was windrowed with a D-6 and D-7 cat in 1983. Soils range from organic to silt loams on a subxeric site. The organic soil type will be planted in the spring of 1984.

SEED

This trial will use spruce seedlot #2612 (elevation 1,067 m, germ. % 61), collected in the Blaeberry. The collection has been good in seedling performance, but germination percentages do not make it useful for container stock production at this time.

METHOD

The block is 30 hectares in size, of which 15 hectares will be broadcast on snow in mid May and remainder shelter coned in late June. Shelter cones will be placed on a 2.5 x 2.5 metre spacing, and 200 cones staked for sampling. Twenty fixed plots will be established on the areas broadcast.

Shelter Cones:

8 seeds/cone X 1,400/ha X 15 = 168,000 seeds
168,000 - 43,200 = 400 gm.

Broadcast:

.5 kg/ha X 15 = 7.5 kg

SAMPLING

Staked cones will be sampled at one month, two month, and four month intervals during the first year. Broadcast areas will be sampled at four months, one year, and two years.

February 28, 1985
### PROJECT COSTS

#### Broadcast Seeding

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Staff</td>
<td>155.85</td>
</tr>
<tr>
<td>One day snow machine rental</td>
<td>30.00</td>
</tr>
<tr>
<td>Gas and oil</td>
<td>12.00</td>
</tr>
<tr>
<td>Vehicle</td>
<td>28.50</td>
</tr>
<tr>
<td>Miscellaneous (tape, flags, etc.)</td>
<td>45.00</td>
</tr>
</tbody>
</table>

#### Shelter Cones

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 foreman and 6 planters</td>
<td>1,800.00</td>
</tr>
<tr>
<td>Cones</td>
<td>840.00</td>
</tr>
<tr>
<td>Vehicles</td>
<td>114.00</td>
</tr>
<tr>
<td>Miscellaneous (tape, flags, etc.)</td>
<td>25.00</td>
</tr>
</tbody>
</table>

Rodent trapping, 50 traps for three nights will be carried out prior to broadcast and shelter cone seeding.