

SX 81308 Q

DIRECT SEEDING ON BRACKE TREATED AREAS

WORKING PLAN

D. Wallinger

SX813080 BRACKE SEEDING

Working Plan

Objective: To evaluate the Bracke scarifier and seeding attachment as an operational reforestation tool.

Location: Kamloops Region

Kamloops District
Roche Creek
A04751 BLK. 13

(See F.S. 195 attached)

Season/Year: To be seeded in late October or early November 1981 subject to favorable weather and machine availability.

Additional area near Roche Lk. may be seeded in Spring, 1982.

Species: Lodgepole pine (Pinus contorta, latifolia)

BLK I Seedlot 4265 (Goodwin Creek)

Seed will be sown unstratified.

(See F.S. 723-B attached)

Treatment: Seed will be deposited by the Bracke seeder onto patches scarified by the Bracke in the same pass. Seed will be left uncovered.

Design Layout: The pattern of Bracke travel will be circular commencing along the outer perimeter of the Blocks and working towards the centre in diminishing circles.

Scarified and seeded patches will be paired at a distance of 2.0 metres apart and pairs will occur 2.2 metres in line (approximately). The distance between adjacent pairs on subsequent circuits of the machine will be as close as possible to 2.5 metres. This will result in a density of about 2500 patches per hectare.

Preparatory Work:

- a) Rodent Trapping - In advance of the seeding data, 50 snap-traps will be set out over three consecutive nights and examined each following morning in order to assess the small rodent population.
- b) Seeder Calibration - prior to the start of seeding, a short run will be made in order to
 - (i) determine the number of seeds being dropped per patch, and
 - (ii) ensure that seeds are dropped within the scarified patch.

Sampling System: Sampling will be based on a system of 50 square metre circular plots established along random lines on each block in such a way as to adequately cover the treated area. Plot interval will be such that 2.0 per cent of the area is sampled.

20 hectares - 80 plots

Sample lines and plots will be established immediately after the completion of seeding. Plot centres will be marked by labelled stakes. Plot data (number and location of scarified patches) will be recorded on F.S. 707 Survival Tally Sheets.

Examination: Examination of plots will be carried out bi-weekly during the 1982 growing season commencing about two weeks after snow leaves the area in Spring 1982. Scarified patches marked on the F.S. 707 sheet will be tallied as containing one or more germinants by placing a number corresponding to the examination date in the appropriate box on the plot circle, viz.

- | | | |
|--------------------------|-----|---|
| <input type="checkbox"/> | - 1 | Germinant(s) observed during 1st examination. |
| <input type="checkbox"/> | - 2 | Germinant(s) observed during 2nd examination. |
| <input type="checkbox"/> | - 3 | Germinant(s) observed during 3rd examination. |

In 1983, one examination will be carried out in late June to determine the number of surviving germinants, and a final examination will be made in the fall of 1983 after which time a final report will be filed.

Materials and Equipment:

1. Snap-traps and bait - on hand

2. Seed

Lot 4265 3 kgm - to be withdrawn

3. Plot Stakes and labels 80 - on hand.

4. Miscellaneous:

Flagging tape
Maps
Tally Sheet
Camera and film.

Field assistance will be provided by
Tracy Laing - Kamloops District

D. Wallinger
81.10.05