

WORKING PLAN

SX 82102 Q

PLANTING ON MACHINE

PREPARED SPOTS

Silviculture Branch

83- -

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1. Designation

SX 82102 Q, Planting on Machine Prepared Spots.

2. Location

Rampart Lake, 32 km north of Princeton, F.D. 6 (Merritt), Kamloops Region; see maps, Appendix 1.

3. Objective

To compare the survival and growth of Lodgepole pine plugs when planted on Bracke prepared spots with that on the unprepared.

4. Trial Stock

(a) Dimensions

<u>Seedlot No.</u>	<u>Stock Type</u>	<u>Top Ht, cm</u>	<u>Dimensions RCD, mm</u>	<u>Top: Root Ratio</u>
2628	PSB 211	18.0	2.5	Not recorded

Root Growth Capacity, as recorded at Skimikin in the week of May 31/82, average 2.38 with a range of 1.50 - 3.25, i.e. was on the low side.

(b) Timetable

Sown @ Vernon 81-04-29
Extracted 81-10-25/26
Cold Stored @ Skimikin 81-11-02 to 82-06-01
Transplanted 82-06-01/02
Planted 82-06-02/03

5. Plot Layout

The pattern of site preparation being somewhat irregular, we were obliged to depart from the usual sample plot layout: Plot 1 is of 10 lines, each of 4 sections of 10 trees each, i.e. 40 trees per line, within each line there is as close to a 20:20 combination of prepared: unprepared spots as ground conditions permitted.

Plot 2 has 8 lines, each of 5 sections, there being 10 trees per section, for a total of 50 trees per line.

The net result of the above is that we planted on 376 prepared spots and 424 on unprepared for a total of 800 in all.

The mechanically prepared spots, although classed as Unprepared, were in fact scalped free of grass etc. over an area of 900 cm² per spot.

The Bracke Cultivator, in preparing planting spots, cuts a continuous groove in the ground that is deeper in the spots intended for the planted trees. However, for the purpose of this project, we considered as prepared any part of the groove in which mineral soil had been exposed.

6. Access

From the Princeton field office, north 10 km on Highway 5 to Missezula Lake road, thence east and north on Missezula Lake Road 10 km to run off onto logging road, thence east and north 8 km to area.

7. Weather etc. at Planting

Temp. Range: 18-21°C

Weather: Variable, sun and cloud. Heavy showers
light winds.

Moisture: Soil uniformly damp to root zone.

8. Site Factors

a. Plot No.'s	1-2
b. Former stand	F P1
c. Site class G.M.P.L.	P
d. Biogeoclimatic subzone	IDFd
e. Edatopic grid	3c
f. Seed zone	2020
g. Soil texture	Loam + much fractured rock
h. Moisture	Dry
i. Soil nutrients	Medium
j. Veget. competition	H: 100% grass where undisturbed
k. Grazing use	Medium
l. Slash: % cover and height	5-20 cm
m. Organic layers, cm	5-10
n. Disturbance & year	L. 75
o. Site prep: Method & year	MSP. 81 (Bracke)
p. Aspect & % slope	Flat
q. Elevation, m	1420
r. Existing regen per ha	520

8. Assessment and Reports

First year assessment - Fall 82

Second year assessment and Interim Report - Fall & Winter 83

Final assessment and Final Report - Fall & Winter 86.