WORKING PLAN

SX-82102 Q

PLANTING ON MACHINE
PREPARED SPOTS

Silviculture Branch
83--

Province of British Columbia
Ministry of Forests
WORKING PLAN

SX-82102 Q

PLANTING ON MACHINE

PREPARED SPOTS

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83- -
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**

<table>
<thead>
<tr>
<th>Seedlot No.</th>
<th>Stock Type</th>
<th>Top Ht, cm</th>
<th>RCD, mm</th>
<th>Top: Root Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>2628</td>
<td>'PSB 211</td>
<td>18.0</td>
<td>2.5</td>
<td>Not recorded</td>
</tr>
</tbody>
</table>

   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  
   b. Former stand  
   c. Site class G.M.P.L.  
   d. Biogeoclimatic subzone  
   e. Edatopic grid  
   f. Seed zone  
   g. Soil texture  
   h. Moisture  
   i. Soil nutrients  
   j. Veget. competition  
   k. Grazing use  
   l. Slash: % cover and height  
   m. Organic layers, cm  
   n. Disturbance & year  
   o. Site prep: Method & year  
   p. Aspect & % slope  
   q. Elevation, m  
   r. Existing regen per ha

   1-2  
   F P1  
   P  
   IDFd  
   3c  
   2020  
   Loam + much fractured rock  
   Dry  
   Medium  
   H: 100% grass where undisturbed  
   Medium  
   5-20 cm  
   5-10  
   L. 75  
   MSF. 81 (Bracke)  
   Flat  
   1420  
   520
9. 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.