CONTAINER/PLUG-BAREROOT/BAREROOT SPRUCE TRIAL
SX 83109 R
WORKING PLAN 1983

G. Duff-Tytler

SILVICULTURE BRANCH
1. Select uniform area for the trial. The total area required for the trial will be 66m by 125m (Refer to map).

2. Stake corners of block. (Blue & Orange ribbon) Then stake plot boundaries. Individual plot dimensions are 6m by 125m. This represents a stake every 6m along the 66m edge for a total of 11 plots. Ribbon block boundary and plot boundaries with orange ribbon.

3. The design of the stock trial will consist of:
   a. Three seedlots of Ss container stock in which each seedlot is represented by three stock types. (313's, 415's, 615's). Each stock type is in an individual plot for a total of nine plots of container stock.
   b. One plot of Ss plug-bareroot stock.
   c. One plot of Ss bareroot stock.

4. When planting the installation:
   a. Allocate one planter to the entire block. This step minimizes planter differences within the block, and accentuates stock type differences.
   b. Start the planter on the 313's and proceed to the 415's and 615's so that only one stock type is being planted at any one time. This procedure minimizes stock type mixups. One must be careful to ensure the correct stock type goes into the correct plot.
   c. The planter should plant one line to the end of the plot and return, planting a second line so that two planting lines are contained in each plot. Each line will contain 50 trees for a total of 100 trees per plot.

5. Staking procedures include:
   a. 25 trees per line (50 per plot) should be staked so that accurate survival figures can be obtained. The stakes should be numbered with blue plastic inventory tags.
   b. Additional stakes are placed at the beginning of each line and labelled with aluminum tags bearing:
      - plot number
      - seedlot and species
      - stock type
   c. The project will require:
      - 550 tree stakes
      - 60 line stakes

...2
6. Assessment procedures include:

   a. Assessment 1, 2, 3 and 5 growing seasons after establishment.

   b. Height, leader increment and mortality should be recorded consistently. (See attached forms)

   c. Mortality should be determined using the 50 staked trees per plot.

   d. Height and leader increment should be made on 25 trees per plot. Select alternate trees for these measurements. If mortality or leader damage occurs, pick up additional trees as required so that all plots contain 25 measurement trees.
### MANAGEMENT UNIT: TIMBER SUPPLY AREA

<table>
<thead>
<tr>
<th>Type</th>
<th>Number</th>
<th>Pulpwood Agreement</th>
<th>Cascades</th>
</tr>
</thead>
<tbody>
<tr>
<td>OK</td>
<td>Block</td>
<td>East</td>
<td></td>
</tr>
<tr>
<td>Block</td>
<td>Sub-8</td>
<td>West</td>
<td></td>
</tr>
</tbody>
</table>

### Diagram:
- SL 413B Ss x1PBR
- Ss PSB 6/15
- Ss PSB 4/5
- Ss PSB 3/3
- Ss PSB 6/8
- Ss PSB 4/5
- Ss PSB 3/3

Plot Locations:
- Plot 1
- Plot 2
- Plot 3
- Plot 4
- Plot 5
- Plot 6
- Plot 7
- Plot 9
- Plot 10

- G.P. located at 253 m N84W8 21 m N of T.F.L. 41 Boundary.

- Drawn by [Signature]
Planted:

P.O.C. 253m at 276° 8 21m at 0° from junction of T.F.L. 41 Bdy. & road.
0.82 ha.
Container/Plug-itaroot/itaroot Spruce Trial

officer i/c: B. Wilson

Region/District or Nursery: Prince Rupert/Kalam Forest District

Objective: To assess survival and performance of three different sizes of container stock within three seedlots, and compare to one seedlot of plug-itaroot stock and one seedlot of itaroot stock.

Progress:
1. Installation was traversed and laid out on 29 May 1983.
2. There were 1102 trees planted on 7 June 1983.
3. 550 trees were staked and numbered for collection of survival and performance data on 7, 9 and 14 June 1983.

Next Scheduled Assessment/Treatment: Assessment Fall '87

Report Distribution: Silviculture branch Library, Victoria
S.U. Prince Rupert Regional Office
Resource Officer - Kalam Forest District

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