Working Plan
Sx'89107Q

Disc Trenching Trial
Campbell River Forest District

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1. **Objective**

To compare the field performance of Douglas-fir seedlings planted on scarified (powered disc trencher) and unscarified microsites at one location in the Coastal Western Hemlock zone of the Campbell River Forest District. This comparison will include measurements of survival, height growth, increment and root collar diameters on five treatments. An analysis of variance will be conducted on the variables of interest to determine any significant differences between the treatments.

2. **Plot Design**

This trial will involve 5 treatments x 3 replications x 55 seedlings per treatment totalling 825 seedlings. The fifteen rows will be laid out in random order and staked with row number and treatment. The seedlings will be marked with wire pins and numbered tags.

The five treatments will be designated with the following letters:

- **SB** – seedling planted in centre of 30 cm x 30 cm boot scrape
- **SBF** – seedling planted in centre of 30 cm x 30 cm boot scrape + 30 grams of Osmocote fertilizer
- **TN** – seedling planted at the bottom of the trench prepared by powered disc trencher
- **TS** – seedling planted on the hinge of the trench prepared by powered disc trencher
- **TD** – seedling planted in the bottom of the deep trench prepared by powered disc trencher

3. **Trial Stock and Location**

<table>
<thead>
<tr>
<th>Location</th>
<th>Species</th>
<th>Nursery</th>
<th>Seedlot</th>
<th>Date Lifted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oyster River</td>
<td>Dfc</td>
<td>SYLVAN VALE</td>
<td>1292</td>
<td>89-04-19</td>
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</tbody>
</table>

4. **Schedule of Establishments/Assessments**

<table>
<thead>
<tr>
<th>Measurements</th>
<th>PLT/Sp 89</th>
<th>Fall 89</th>
<th>Sp 90</th>
<th>Fall 90</th>
<th>Fall 91</th>
<th>Fall 92</th>
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</thead>
<tbody>
<tr>
<td>Height</td>
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<tr>
<td>Caliper</td>
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<tr>
<td>Increment</td>
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<td>Survival</td>
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<td>Frost Damage</td>
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<td>Photography</td>
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<td>Progress Report</td>
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</table>
5. Site Prescription

Opening Number:
Tenure:
Licensee:
Lic. Number:
C.P. #:
BGC Unit: CWHal
Moisture Regime:
Nutrient Regime:
Soil Texture:
Site Class:
Elevation (m): 60
Aspect:
Slope:
Timber Type:
Disturbance: