To: JENJI

From: CAROLE LEE
P.G.T.I.S.

Date: JANUARY 21, 1988

File: 955-18-11-1

Attached is a copy of the working plan for the Peat versus Sawdust Trial.

The trees were planted here on June 08, 1987 in auger dug holes and in 11 litres of either peat or sawdust. The sawdust used in the planting was analysed at Forintek and found to consist only of the coniferous species of pine and spruce. Also a lot of hyphae was found, as evidence of decay.

Height measurements of the trees were taken on June 22, 1987. It is expected that the trial will proceed as per the working plan.

Carole Lee
Mel Zuckerman has planned for follow-up on the trial results (February 6 date) on comparison of sanddust vs. not for planting trees on the station. I believe we agreed to investigate the writing sanddust further before deciding on whether or not it was a good idea.

Please comment.

Jens

Jens, enclosed is the information as per your request.

Terri
WORKING PLAN FOR SX 886016
PEAT VS CONIFER SAWDUST

1. OBJECTIVES
To compare the performance of three-year old interior spruce grafts when transplanted in either peat moss or conifer sawdust.

2. LOCATION
Prince George Tree Improvement Station, Prince George Region.

3. TRIAL STOCK

<table>
<thead>
<tr>
<th>Clone no.</th>
<th>Stock Type</th>
<th>Parent Tree Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 5784</td>
<td>grafted rootstock</td>
<td>Osilinka R. near Ha Ha Crk</td>
</tr>
<tr>
<td>2. 5837</td>
<td></td>
<td>Lafferty Crk (Robin Lk)</td>
</tr>
<tr>
<td>3. 5836</td>
<td></td>
<td>Tobin Lk.</td>
</tr>
<tr>
<td>4. 5608</td>
<td></td>
<td>Mischinsinlika Crk near Izaac</td>
</tr>
<tr>
<td>5. 5800</td>
<td></td>
<td>Chowika Crk.</td>
</tr>
<tr>
<td>6. 5612</td>
<td></td>
<td>Izaac Crk near Mischinsinlika</td>
</tr>
<tr>
<td>7. 5843</td>
<td></td>
<td>Davis R.</td>
</tr>
<tr>
<td>8. 5792</td>
<td></td>
<td>Wasi Lk.</td>
</tr>
<tr>
<td>9. 5786</td>
<td></td>
<td>Tutizzi Lk.</td>
</tr>
<tr>
<td>10. 5847</td>
<td></td>
<td>Aley Crk. (Ospika R)</td>
</tr>
</tbody>
</table>

4. EXPERIMENTAL DESIGN AND LAYOUT

10 clones x 3 replicates x 2 treatments = 60 trees total.
Spacing within rows = 1.0 m; between rows = 1.0 m.
The trial is designed to allow different clones to act as replicates. Clonal differences are not of interest, only treatment differences. The layout will also allow a good visual comparison of treatments (peat vs. sawdust) within a clone.

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P S S S S P P S P S
P S S S S P P S P P
P S S S S P P S P P
0 0 0 0 0 0 0 0 0
S P P P P P S S P S
S P P P P P S S P S
S P P P P P S S P S
0 0 0 0 0 0 0 0 0
```

CLONE  5784  5837  5836  5608  5800  5612  5843  5792  5786  5847
ROW   1   2   3   4   5   6   7   8   9   10
(Replicate)
Each row consists of 1 clone: 3 ramets with peat and 3 ramets with sawdust. The design is a randomized block design. The treatments of peat or sawdust were randomly assigned to the first 3 trees of each clone with the remaining 3 receiving the other treatment.

5. **STAKING AND LABELLING**

Each tree will be marked with a wire tag identifying the clone number and treatment. A cedar stake will be required for each treatment within each clone.

6. **MEASUREMENT, ANALYSIS AND REPORTING**

Grafts will be established on the site in June 1987. Total ramet height will be measured in June 1987, Spring 1988 and Fall 1988. Destructive sampling will be undertaken in the Fall of 1988, after two growing seasons. Root growth capacity tests will be conducted on all grafts. Data collection, analysis and final report will be the responsibility of the Prince George Tree Improvement Station. Final report to be completed in Winter 1988/89.