Progress Report - Spring 1982

Following some considerable delay in locating a suitable area and in assembling the equipment, operation of the Bracke and Seeder was carried out on May 19 - 21st. Because of the lateness of the season, trapping for mice was not carried out in advance of the seeding.

Approximately a half of the area on Block 2 was judged by the Skidder operator to be too soft for working. As it was the skidder later got stuck and being unable to winch itself out, a second skidder was brought in to free the first unit. Owing to the lack of suitable area in Block 2, a number of small paths in Block 7 (2 km south) were treated to complete the trial and use up the seed.

Twenty-four, 50 m² sample plots were established in Block 2 and 6 plots in Block 7. In addition, 100 sheltercones (50 Finnish, 50 Cerbos) were seeded in each of two sample strips in Block 2 using the appropriate implements.

Plots established in Fall 1981 seeded area were not re-examined as it was considered to be too early for germinants to have appeared.

D. Wallinger

DWks
0866K
Progress Report - Fall 1982

The areas seeded in Fall 1981 and Spring 1982 were both visited on September 13, 1982.

Before examining the plots in detail, a walk-through of the seeded blocks was undertaken to see if time should be spent on plot-work. This cursory examination revealed that conditions after one growing season here were similar to those observed at Ipsoot Creek (SX 81303Q) where Bracke seeding had been undertaken in Spring 1981. Heavy use by cattle during the summer resulted in damage to a significant number of seeded spots - trampling and covering with "pies". Similarly, no germinants were observed in the Bracke-prepared spots and it was decided that a detailed survey of plots would be of little use at this time since the P1 seed had either not yet germinated or wasn't going to germinate at all. However, one gets the feeling that seeding of P1, even on prepared spots, should not be undertaken where:

(a) heavy grass or weed cover is present
    (i) soil moisture competition
    (ii) favorable environment for mice and voles
    (iii) growth of grass reduces soil temperature and negatively affects germination of pine seed
    (iv) attraction for livestock

(b) soils are silty, clayey, or loamy and tend to retain moisture ("cold" soils)

A complete examination of plots on this trial will be undertaken in Summer 1983.

However, at this time, an examination was made of the Bracke-spots which were seeded and covered with sheltercones using the appropriate seeding guns. A summary of the findings is shown on the attached table. About two-thirds of the spots where the cone is still in place are stocked with a germinant. However, less than half the cones were found to be still in place, so it is apparent that the objective should be to increase the incidence of cones remaining in place.

D. Wallinga
82/10/04
FIRST GROWING SEASON RESULTS OF THE
SHELTERCONES STUDY IN CONJUNCTION WITH SX81308Q

<table>
<thead>
<tr>
<th>Date of Seeding</th>
<th>Finnish Sheltercone</th>
<th></th>
<th></th>
<th>Total Spots</th>
<th></th>
<th></th>
<th>Total Spots</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cone in Place</td>
<td>Cone Displaced</td>
<td></td>
<td>Total Spots</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Stocked Not Stocked</td>
<td>Stocked Not Stocked</td>
<td></td>
<td></td>
<td>Stocked Not Stocked</td>
<td>Stocked Not Stocked</td>
<td></td>
</tr>
<tr>
<td>FALL SPOTS</td>
<td>24 18 2 14</td>
<td>24 16 2 16</td>
<td>58</td>
<td>20 5 5 25</td>
<td>20 5 5 25</td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>1981 %</td>
<td>41.4 31.0 3.5 24.1</td>
<td>36.4 9.1 9.1 24.1</td>
<td>100.0</td>
<td></td>
<td>36.4 9.1 9.1 24.1</td>
<td>100.0</td>
<td></td>
</tr>
<tr>
<td>SPG. SPOTS</td>
<td>21 12 9 54</td>
<td>34 16 5 46</td>
<td>96</td>
<td>54 21 10 71</td>
<td>54 21 10 71</td>
<td>101</td>
<td></td>
</tr>
<tr>
<td>1982 %</td>
<td>21.8 12.5 9.4 56.3</td>
<td>33.7 15.8 5.0 45.5</td>
<td>100</td>
<td></td>
<td>33.7 15.8 5.0 45.5</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>45 30 11 68</td>
<td>54 21 10 71</td>
<td>154</td>
<td>48.1%</td>
<td>51.9%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>%</td>
<td>29.2 19.5 7.2 44.1</td>
<td>34.6 13.5 6.4 45.5</td>
<td>100.0</td>
<td></td>
<td>34.6 13.5 6.4 45.5</td>
<td>100.0</td>
<td></td>
</tr>
</tbody>
</table>

60% of cones in place are stacked.
86% of cones displaced are not stocked.
36% of spots originally covered with cones are stocked.

72% of cones in place are stacked.
88% of cones displaced are not stocked.
41% of spots originally covered with cones are stocked.