Project Subject/Title: Mechanical Site Preparation
County: Washburn
TRS: various sites

Contact Person: Jim Halvorson, 715-635-4081
Type Of Prescription: Scarification
Year Initiated: 2000

Abstract/Prescription:
Utilizing various tools for scarification can be beneficial for comparison. In Washburn county scarification using both straight blade and a Salmon Blade were compared on a 12 acre paper birch shelterwood site. The scarification was done in July of 2000. Millacre plots were conducted the following year in August. A salmon blade was fabricated by welding metal shoes onto the dozer blade. See photo enclosed.

Discussion/Recommendations:
The salmon blade was very successful. It manages to mix the mineral soil especially necessary for paper birch seed bed preparation. In this trial, regeneration stocking inventory a year later produced the following statistics:
- Salmon blade site = 6076 trees per acre or 77% stocked
- Straight Blade site = 3750 trees per acres or 56% stocked

The salmon blade has been used on various sites across the county. It is beneficial in mixing the soil needed for seed bed preparation.

See enclosed document and picture
Silviculture Trials
### Silviculture Trials

**Table:**

<table>
<thead>
<tr>
<th>No.</th>
<th>Planting Date</th>
<th>Species</th>
<th>Age</th>
<th>Size</th>
<th>Health</th>
<th>Fit for Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1985</td>
<td>Pine</td>
<td>10</td>
<td>5</td>
<td>Good</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>1990</td>
<td>Spruce</td>
<td>12</td>
<td>6</td>
<td>Fair</td>
<td>No</td>
</tr>
</tbody>
</table>

**Legend:**
- **MAP:** Map Scale: 1:2,000
- **Section:** 11
- **Range:** 42
- **Town:** Washington
- **Compartment:** 61
- **Plot:** 07

**Notes:**
- Area: 120 Acres
- Dates: 2011-2020