PACK DEMONSTRATION FOREST
SUNY College of Environmental Science & Forestry
Warrensburg, NY

2021 Timber Harvest Plan
Approximately 58.7 acres

Included are a Project Summary, Harvest Area Map, and Timber Harvest Timeline for Stands 48, 52, 55, 61, 64 & 140

Revised 1/26/21 by Bruce Breitmeyer, Mike Gooden & Mike Federice
Project Summary

Purpose:
- In the spring of 2020 stands 48, 52, 55, 61, 64 and 140 at Pack Demonstration Forest were identified as in decline and candidates for management activities in the near future.
- Beech bark disease is widespread in Stands 61 and 64, the significant beech understory is hindering any regeneration of desirable species.
- Stands 52, 55 and 140 have a considerable amount of rapidly declining mature white pine. Crowns are exceptionally thin, widespread mortality is expected in the near future.
- Stand 48 is dominated by red pine that has relatively stagnated in growth, the existing white pine regeneration in this stand is also being shaded out.
- In the summer of 2020 an inventory was completed in these stands.
- Silvicultural prescriptions were developed in the fall of 2020.

Harvest Objectives:
- Establish a new age class of desirable species
- Improve stand conditions and increase the proportion of acceptable growing stock
- Capture the value of rapidly declining mature trees before mortality or they become no longer merchantable

Strategic Goals Achieved:
- Maintaining healthy stands stocked with desirable species
- Increasing diversity of stand conditions across the property – the greater variety of stand conditions the more opportunity for different types of research, teaching and demonstration
- Documentation of all inventories and harvesting to be included in long term property records which are available for research, teaching and demonstration
- Sustainable management of forest resources

Pre-harvest data is available along with detailed silvicultural prescriptions for each individual stand. Post-harvest data will also be collected for each stand.

Please respond with comments and questions by 3/1/2021.

Contact: Bob MacGregor
Forest Properties Director
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**Pack Forest Silvicultural Marking Summary**
Last edited 11/23/20 MF  
*All stands to be harvested during snow free months to maximize soil scarification, CTL operations not to be used.*

<table>
<thead>
<tr>
<th>Stand#</th>
<th>Forest Type</th>
<th>Current BA/acre</th>
<th>Treatment</th>
<th>Marking plan (to remove)</th>
<th>Target BA/acre</th>
<th>Est. residual composition</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>48</td>
<td>RP/WP plant</td>
<td>187</td>
<td>Corridor Cuts</td>
<td>Cut 33’ swaths, alternating w/33’ uncut between</td>
<td>95</td>
<td>Same as before</td>
<td>Swaths to follow a “Y” or “herring bone” pattern.</td>
</tr>
<tr>
<td>52</td>
<td>WP/HE/HW</td>
<td>213</td>
<td>Shelterwood – mark to cut (tally)</td>
<td>WP ⅓, HE 1/3, HW ⅔</td>
<td>90-100</td>
<td>WP 35% HE 35% HW 30%</td>
<td>Release HW poletimber where present, thin HE from below, be considerate of established HE regeneration, leave residual WP well spaced. Employ an expanding gap shelterwood theme around good quality WP.</td>
</tr>
<tr>
<td>55</td>
<td>WP/HE/HW</td>
<td>200</td>
<td>Shelterwood – mark to cut (tally)</td>
<td>WP ⅓, HE 1/3, HW 1/3</td>
<td>90-100</td>
<td>HE 38% HW 37% WP 25%</td>
<td>Release HW poletimber where present, thin HE from below, leave residual WP well spaced. Employ an expanding gap shelterwood theme around good quality WP.</td>
</tr>
<tr>
<td>140</td>
<td>WP/HE</td>
<td>162</td>
<td>Shelterwood – mark to cut (tally)</td>
<td>WP 2/3, HE 1/3, HW ⅔</td>
<td>70-80</td>
<td>WP 40% HE 40% HW 20%</td>
<td>Release HW poletimber where present, thin HE from below, be considerate of established HE regeneration, leave residual WP well spaced. Due to narrow width of stand, harvesting will be limited to what can be reached from skid trails.</td>
</tr>
<tr>
<td>64</td>
<td>RO/NH</td>
<td>117</td>
<td>Shelterwood – mark to leave</td>
<td>RO 2/3, HM 2/3, BE All, HE 1/2, WP 1/2, OH 2/3, Aspen All</td>
<td>40</td>
<td>HM 30% RO 30% HE 15% OH 10% WP 15%</td>
<td>All beech to 1” DBH to be removed. Maintain clumps of hemlock to prevent wind throw and as a habitat feature.</td>
</tr>
<tr>
<td>61</td>
<td>WP/HE/HW</td>
<td>140</td>
<td>Shelterwood – mark to leave</td>
<td>WP 2/3, HE 1/3, HW 1/3, BE All</td>
<td>50</td>
<td>HW 35% WP 35% HE 20% RP 10%</td>
<td>All beech to 1” DBH to be removed. Release WP regeneration. Retain native RP. Maintain clumps of hemlock to prevent wind throw and as a habitat feature.</td>
</tr>
</tbody>
</table>
Pack Demonstration Forest 2021 Timber Harvest Timeline

*Pre-harvest inventories were completed within the stands that make up the timber harvest area during August of 2020. Silvicultural prescriptions were developed in November of 2020.

January – April 2021: Harvest Setup
- Marking harvest boundaries based upon forest stand boundaries, sensitive sites, and riparian buffers
- Marking trees for either removal or retention based upon the given silvicultural prescription for each stand
- Developing an estimate of volume by product that will be removed

May – June 2021: Bidding Process
- Developing a timber sale prospectus that will be posted where applicable and sent to a list of regional buyers
- Conducting a timber sale showing of the harvest area
- Accepting bids from potential buyers, then developing a contract with the successful bidder

July – October 2021: Completion of the Timber Harvest
- Logging will ideally be completed during the summer and first half of fall in 2021. This will be dependent upon dry enough weather so that ground conditions are suitable for logging equipment.
- Best Management Practices (BMP’s) will be implemented where necessary according to the most recent version of “New York State Forestry Voluntary Forestry Best Management Practices for Water Quality”.

Fall 2021/Spring 2022: Post Harvest Inventory
- Following the completion of the timber harvest a post-harvest inventory will be completed
- A post-harvest inventory report will be developed summarizing stand conditions (basal area, species composition, mean stand diameter, etc.) and added to the property records

Last Revised: 12/14/20