Silviculture Trial Template

**Project Subject/Title:** Jack Pine – Natural Regeneration.

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**Abstract:** Natural Jack Pine Regeneration – Post Harvest Scarification of Green Slash. The Management Objective for Compartment 30, Stand 15 was to maintain the primary cover type of Jack Pine without planting.

**Trial Location:** Forest Road - Heart Lake Road. West of the Wisconsin River.

| County: Vilas |
| Township: 41 and 42 | Range: 10E | Section: 5 |
| GPS Coordinates: Lat: N/A Long: N/A |
| Property Name: Vilas County Forest |
| Site Map: 5-16 Two Dead Mergansers |

**Baseline Stand Data:** Presale data

WisFIRS Property Code: 6400
Compartment/Stand number: 30/15
Primary Type: PJ 5-9^3
Secondary Type: PR 5-9^1
Age: 55
Acres: 51
Soil Type: Rubicon Sand
Habitat Type: PQE
Presale Stocking: 102 sq.ft./acre
Residual Stocking: 4 sq.ft./acre

**Prescription and Methods:**

The stand was harvested March, 2016. All trees were cut 1” and greater, except aspen. There was no harvesting of aspen to reduce sapling competition with jack pine seedlings. Less than 10% of the stand contained Aspen, Mixed Hardwood, and Oak.
The site was scarified May, 2016. Scarification of green slash prepared the seedbed by exposing mineral soil and moved cones/seeds in contact with the soil creating ideal conditions for natural regeneration of jack pine.

Equipment – 540B John Deere Skidder and Anchor Chain. Two passes were made over the project area.

**Results:** Survival Check, 2017 – PJ 1619/acre. Survival Check, 2018 – PJ 2122/acre. Tree height was 3 ft by the end of 2018.

Mechanical Release, 2019 – Reduced stocking to PJ 680/acre. 8 foot spacing.

**Discussion/Recommendations:** Jack Pine can be regenerated from cones under the right conditions.
Planting and Cultural Report

Vilas County Forestry Department

Map Scale: 1:5,840

Habitat Type: PG, Soil Type: Abduction Sand
Compartment/Stand Number: 30/15 SWSW, NWSW, SESE, SESE, NESE, Section 32, T42N, R12E
Legal Description: NW1/2, 5th NW1/4, Section 5, T41N, R13E

Cut trees shall not exceed 6 inches. The estimated number of trees/stems per acre to cut is 939/acre. Stump height on the most dominant trees, leave 60 dominants per acre with a spacing of 8 feet. Brush rows or slashrows, species should be reduced to a 6 foot by 6 foot spacing. Ideally thin jack pine reducing stocking to 60 trees per acre using mechanical thinning practices.

Additional Remarks: Spring 2016 - Anchor Chain swatch and Green slash.

| Date: 05/16 | Cultural Practices: | $3.77/AC | 29 | $130.00 | 9-19 | $4.70/AC | $12.97/AC | Skidder/Anchor Chain - Transportation: | $6.14/ET | $120.43 | Total Cost: | $337.00 |

Mechanical Release Treatment: $ / AC

Percent Survival: 1st Year: 3rd Year: 5th Year: Estabished Stocking - Species targeted for regeneration: P. Year Seedbed Prepared: 2016: Species targeted for regeneration: P. 51.5 - Two Dead Weirs.