

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.

Vilas County Forestry Department

Planting and Cultural Report

Plantation Number: 5-16 - Two Dead Mergansers

Acres - 51

Year Seeded Prepared: 2016 : Species targeted for Regeneration: PJ

Estimated Stocking -

Percent Survival : 1st Year: 3rd Year: 5th Year:

Legal Description: NWNW, Section 5, T41N, R10E and SWSW, NWSW, SESW, & NESW, Section 32, T42N, R10E.
 Compartment/Stand Number: 30/15
 Soil Type: Rubicon Sand
 Habitat Type: PQE.

Date:

Acres:

Cost/Acre:

Total Cost:

Map Scale: 1:15,840

Cultural Practices:
 05-16 Anchor Chain Scarify - Operator: \$/ac
 Skidder/Anchor Chain - Transportation:
 \$ 49.70/ac - \$ 12.97/ac

9-19 Mechanical Release Treatment: \$ /ac;

Date:	Cultural Practices:	Acres:	Cost/Acre:	Total Cost:
05-16	Anchor Chain Scarify - Operator: \$/ac Skidder/Anchor Chain - Transportation: \$ 49.70/ac - \$ 12.97/ac	51	\$120.43	\$6141.93
9-19	Mechanical Release Treatment: \$ /ac;	29	\$130.00	\$3,770.00

Additional Remarks: Spring 2016 - Anchor Chain scarification green slash.

5-31-17 Survival/acre - PJ 1619.

6-7-18 Survival/acre - PJ 2122, MR 309, OR 117, AQ 388, CH 735.

TSL 2019: Mechanically thin jack pine reducing stocking to 680 trees per acre using brush saws or chainsaws. Spacing should be reduced to a 8 foot by 8 foot selecting (leaving) the most dominant trees. Leave 680 dominates per acre with a spacing of 8 feet. The estimated number of trees/stems per acre to cut is 939/acre. Stump height on cut trees shall not exceed 6 inches.

