

Red Oak

Project Subject/Title: Sawyer County Compartment 72 Stand 49

Contact Person: Sawyer County Liaison

Abstract: A 10 acre red oak stand in northwestern Sawyer County was harvested using the shelterwood silvicultural technique in 2010. The stand was scarified with a dozer and salmon blade prior to the harvest in 2009. The goal of the scarification was to provide the oak with a favorable seed bed and which would help the oak establish and have the competitive advantage over other species. The stand was surrounded by northern hardwoods which also provided an available seed source along with the oak.

Trial Location:

County: Sawyer

Township: 42N **Range:** 08W **Section:** 34

GPS Coordinates: Lat: 46°4'36" **Long:** -91°21'42"

Property Name: Sawyer County Forest

Baseline Stand Data

- *Cover Type:* Red Oak
- *Acres:* 10 acres
- *Habitat Type:* AVb
- *Soil Type:* Padus-Pence-Keweenaw Complex
- *Year of Origin:* 1939
- *Total Height:*
- *Site Index Species and Site Index:* 55
- *Mean Stand Diameter:*
- *Total Basal Area per Acre:*
- *Other stand Condition:*

Prescription and Methods:

- *Type of Prescription:* Shelterwood and Scarification
- *Year Initiated:* 2009
- *Establishment Methods:*

The stand was set up for the first stage of the shelterwood harvest and was completed in 2010. Before the harvest took place, the stand was scarified using a salmon blade and dozer.

- *Data Collection Methods:*

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A regeneration survey was taken when the stand was revisited in August of 2014. There were 9, mil-acre plots taken throughout the stand. Apart from regeneration, crown closure and competition were assessed.

Results: The stand had a lot of regeneration present with a total of 12,000 stems/acre of all species combined. Red oak was the third most abundant regenerating species behind white birch and red maple with 2,000 stems/acre. Other species present include white pine, sugar maple, red pine, white ash, basswood and aspen. Apart from the competition from other tree species, blackberry and raspberry were abundant and tall throughout the stand.

Discussion/Recommendations: The entire stand contained a lot of regeneration. Red oak was limited in abundance and was being outcompeted in some areas. White birch was by far the most dominant regenerating species and was present in all the plots taken. Blackberry and raspberry brush was extremely thick and was overtopping much of the regeneration.

