

Project Subject/Title: White Birch Regeneration

County: Vilas

TRS: T40N R4E sec. 28,33

Contact Person: Tim Friedrich, 715-358-9201

Type Of Prescription: Regeneration

Year Initiated: 1989

Abstract/Prescription:

A white birch regeneration trial was conducted on 5 acres of Vilas county reserve land. A shelterwood harvest with 50% crown cover of dying birch was set up on the 5 acres. Site preparation with JD 450 tractor/plow blade, discing with single and double-discing (at right angles). Vilas County forestry equipment was used at the site (MR Rome Disc Plowing Harrow). Site was checked one year and again 5 years after treatment.

Results:

- Blading produced highest number of seedlings (23,000/ac). Avg. height 2 ¼ feet.
- Discing (single pass) produced 4,500 seedlings/ac. Average height 2 ½ feet.
- Double-discing at right angles produced 12,000/ac. Average height 4 ½ feet
- Results in 1994 (5 yrs later) average of all plots 13,000 saplings/ac. Sapling height was 3.5 feet. Crown cover at end of study was 25%.

Discussion:

- Aspen competition was severe.
- Raspberry was present but not so much of a problem.

Recommendations:

- Type of disc blends humus with soil and non-clogging
- Don't cut aspen or try to control/kill since it is a severe competitor.
- Leave as much red maple in overstory. Stump sprouts are severe competitors.
- White birch regen was a good competitor with rubus, seemed to achieve faster height growth.

Site statistics:

Habitat Type

Covertime:

Soils:

Equipment: MR Rome disc plowing harrow and JD450 tractor/plow

Enclosed data document

Map of Vilas County Reserve Timber Sale

Section 22 11
 Township 11 N
 Range 3 E

Department
 Forestry
 District

Harvest Area
 Acres
 Date: 7 October 1981

Estimated Volumes to be cut:

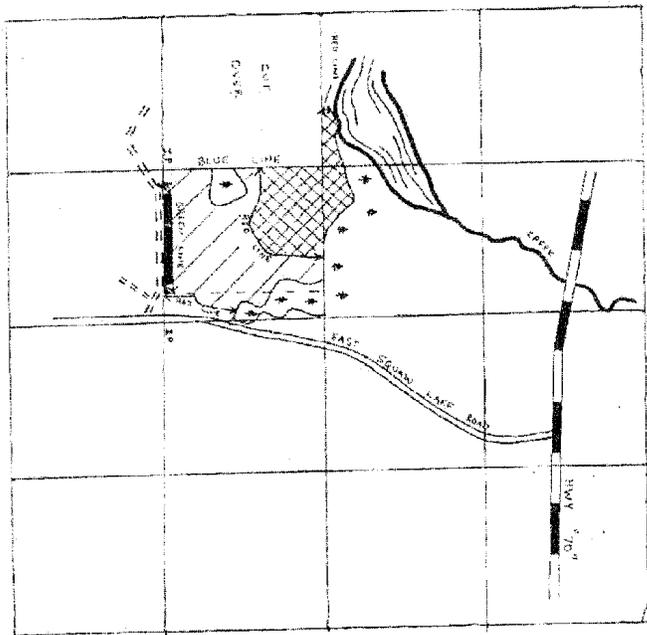
ASPEN	-	575 cords
WHITE PINE	-	170 cords
REDWOOD	-	110 cords
WESTERN FIR	-	30 cords

Harvest Requirements:

1. In the Clearcut Area, cut all species, white birch, hardwood and Western Fir. Including 0-5" trees. Do not cut any hemlock or spruce. Cut only the reserve with orange paint.
2. In the Shelterwood Cut Area, cut all trees including 0-5" trees. Reserve those marked with green paint and all spruce. Do not cut any hemlock within 200 feet of swamp and creek, on the north facing slope.
3. In the Partial Reserve Area, cut ONLY spruce. Stems here is to be kept within 1 foot of the ground.

Legend:

	CLEARCUT AREA		SHELTERWOOD CUT AREA
	Cut all trees, except hard oak, spruce and dead unless marked with orange paint.		Cut all trees except those marked green and all spruce
	CUTTING RESERVE AREA		SWAMP
	Cut only spruce		Do not cut areas



Scale: 1" = 1 mile
 Maped by: Tom Friedrich

**REASONS FOR WHITE BIRCH
REGENERATION ATTEMPTS**

- Age of Birch in the County
- Drought of Mid 1980's
Stands dying
- Birch Stands being replaced
by Harvesting
by Natural Succession
- Aesthetic reasons
- Two regeneration trials