

White Spruce Regeneration from Seed in Site-Prepared and Partial-Cut Mixedwoods

Lead by: Jim Stewart

Theme: White Spruce Regeneration

Status: Continuing

Start: 1998

Participants

- Travis Jones
- Derek Sidders
- Jim Stewart

Background

n/a

Objectives

1) To determine suitability of different site preparation methods for providing receptive seedbeds under partial harvesting regimes. 2) To evaluate the establishment and survival of white spruce seedlings from natural seed rain. 3) To assess the longevity of viable seedbed produced by the different mechanical site preparation and harvest combinations by seeding in alternate years and annual survival evaluations.

Key Results

As expected from the cone crop study reported elsewhere, natural seed rain contributed little to Adom sites, but significantly to Cdom sites, especially the 50% residual compartments. However, the stocking of microsites following operational seeding was less in Adom than Cdom sites. The establishment on

undisturbed forest floor (control) was much less than on other microsites as expected, however, there was no consistent trend among the other site preparation treatment.