

Foliar Nutrition, Soil Nutrient Availability, and Productivity in Mixedwood Stands

Lead by: Barbara Kishchuk

Theme: Soils and Nutrient Cycling

Status: Continuing

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Participants

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Background

Plant nutrient status is a key determinant of biomass production and stand productivity, with foliar nutrient status reflecting the availability of soil nutrients. Foliar nutrition is used as an indicator of nutrient supply, nutrient balance, and differences in species nutrient dynamics.

Objectives

1) To determine foliar nutrition of aspen and white spruce in single and mixed species stands at the EMEND site. 2) To determine relationships among disturbance, nutrient availability, foliar nutrition, and stand productivity.

Key Results

Results to date indicate differences in foliar nutrition of aspen and white spruce on this site. Statistical analyses of differences in foliar nutrition under different types and levels of disturbance are underway.