

# The impact of silvicultural practices on the abundance and biodiversity of ectomycorrhizae in a boreal forest ecosystem

Lead by: [Lance Lazaruk](#)

Theme: [Mycology](#)

Status: Completed

Start: 1999

End: 2002

## Participants

- [Lance Lazaruk](#)
- [Ellen Macdonald](#)

## Background

The high incidence of failure when late-successional conifer species such as white spruce (*Picea glauca*) are replanted in disturbed forest sites is a considerable problem and may be linked to the reduced ectomycorrhizal (ECM) inoculum present in disturbed forest soils. Past research has shown that the diversity of ECM fungi is significantly lower in clear-cut sites compared to unharvested control sites.

## Objectives

1) To quantify the impact of various silvicultural practices on the biodiversity of ectomycorrhizae. 2) To determine whether alternative harvesting techniques will affect the types and abundance of ECM fungi present and capable of colonizing regenerating white spruce seedlings.

# Key Results

n/a