

Title

EVALUATION OF ENTOMOPATHOGENIC FUNGI AND VIRUSES FOR THEIR POTENTIAL TO CONTROL THE EASTERN HEMLOCK LOOPER

Date

April 2002 to 2004

Keywords

Fungi, Viruses, Eastern Hemlock Looper

Objective

This study proposes to evaluate the potential of entomopathogenic fungi and viruses for looper control. The specific objectives for 2002-03 were to 1) investigate natural mortality factors of the looper at different population levels and different larval developmental stages and 2) investigate culture techniques for major fungi.

Description

The eastern hemlock looper is one of the most destructive forest defoliators in Newfoundland. Severe defoliation can kill trees in one year. In the past, this insect had caused very serious damage to forests in the island. At present, biological insecticide is operationally used to control the looper, while an insect growth regulator is occasionally applied as well. Heavy use and sole reliance on one product for looper control may face the risk of resistance.

Reports and Products

Evaluation of Entomopathogenic fungi and viruses for their potential to control the eastern hemlock looper. Li Shiyou, 2003. Canadian Forest Service. WNMF # 10-003-001, 8 pp.

Evaluation of Entomopathogenic fungi and viruses for their potential to control the eastern hemlock looper. Skinner, A., Li, Shiyou., Warren, G. March 31, 2004. Canadian Forest Service. WNMF # 10-003-002.