

Title

MOLECULAR MARKERS AS THE NEW TOOL TO MONITOR AND FORECAST POPULATION DENSITIES OF BALSAM FIR SAWFLY AND RELATED FOREST INSECTS

Date

April 2002 to 2004

Keywords

Insects, Balsam Fir Sawfly, Pest, Tools

Objective

This project proposes to develop an innovative tool for quantitative monitoring of Balsam Fir Sawfly (BFS) populations, by determining the primary sex ratio using specific PCR primers flanking polymorphic regions of the BFS genome.

Description

BFS is currently the primary insect pest in the province of Newfoundland. Firstly this molecular tool is required to develop an accurate predictive model. Secondly, forest managers require this tool to monitor and forest BFS outbreaks and make informed decisions (forecasting impacts and assessing the need and best timing for control programs).

Reports and Products

Molecular Markers as the new tool to monitor and forecast population densities of balsam fir sawfly and related Forest Insects. Royer, L. 2003. Canadian Forest Service. WNMF # 10-002-001.

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Molecular Markers as a New Tool to Monitor and Forecast Population Densities of Balsam fir Sawfly and Related Forest Insects: Interim Report to the Western Newfoundland Model Forest. Royer, L. 2006. Canadian Forest Services. WNMF # 10-002-004.

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