

Title

WILDLIFE/TIMBER DECISION SUPPORT SYSTEM

Model Forest

Western Newfoundland Model Forest

From

April 1995

To

March 1997

Keywords

DSS, GIS, Modeling, Wildlife, Timber, Resource Management

Objective

To develop, test, and evaluate a prototype Wildlife-Timber decision support system onto which additional models and features can be added.

Description

The prototype wildlife-timber decision support system (DSS) proposes to link existing wildlife and timber models via a common geo-referenced database. The exploration of timber and wildlife dynamics through the examination of alternative timber management scenarios is the goal of the system. Although this DSS considers only two resources, it will serve as a simple training tool for integrated resource management.

The DSS has two major components. The role of the first component is to project future forest patterns under different forest management strategies using the projection model GISForman+, and the output from the projection model will be a series of future forest inventories. The second component will consist of a series of assessment models that will interpret the forecasted forest inventories in terms of timber and wildlife. In this simple wildlife-timber DSS, there will be a marten population model, a marten habitat model, a moose habitat model, and a timber assessment model. The data requirements of these models will be the forecasted forest inventories generated by the projection model.

The system itself will not seek an optimum combination of timber, marten and moose resources; but instead, it will predict the impact of different timber management strategies on sustainable wood supply, moose habitat, marten habitat and marten population.

Reports and Products

Report not available