

**Title**

FMC/19 INNU CO RESEARCH

**Model Forest**

Western Newfoundland Model Forest

**From**

June 2004

**To**

August 2004

**Keywords**

Browse, Clearcut, Labrador, *Lepus americanus*, Pellet Counts, Relative Abundance, snowshoe Hare.

**Objection**

To measure the effects of clearcutting on relative abundance of snowshoe hare.

**Description**

Major concerns of forest harvesting are the effects of altered forest structure and successional patterns on biodiversity. In addition to removing the overstory canopy, successional patterns are altered through disturbance to understory vegetation and soil. Since most terrestrial animals require vegetation for food and cover, plant succession results in differing animal communities through time. Edges between uncut forest and clearcuts often produce a wide range of plant species and structures over small areas. As a result, these edges often support diverse animal communities due to the simultaneous availability of cover and forage. However, edges may support high predator densities suggesting reduced habitat quality for prey species such as snowshoe hares.

**Reports and Products**

**The Effects of Clearcutting on Snowshoe Hare (*Lepus americanus*) Relative Abundance in Central Labrador.** Newbury, T., Simon, N. 2004. Western Newfoundland Model Forest, Corner Brook, Newfoundland. WNMF: 10-006-6-001, 29pp.

**Plant Abundances Following Clearcutting and Stripcutting in Central Labrador.**

Elson, L.T. & Simon, N.P.P. 2005. Western Newfoundland Model Forest, Corner Brook, NL. WNMF: 10-006-6-002, 19pp.

**Vegetation Differences Between Fire and Clearcut Logging in Southeastern Labrador: A Multiple Spatial and Temporal Scale Analysis.** Elson, L.T., Simon, N.P.P. & Kneeshaw, D. 2006. Western Newfoundland Model Forest, Corner Brook, Newfoundland. WNMF: 10-006-6-003, 30pp.

**Winter Food Habits of Willow Ptarmigan (*Lagopus lagopus*) as a Mechanism to Explain Winter Sexual Segregation.** Elson, L.T., Schwab, F.E., & Simon, N.P.P. 2006. Western Newfoundland Model Forest, Corner Brook. WNMF: 10-006-6-004, 11pp.

**Review of Forest Harvesting Effects on Water Quality and recommendations for Forest Management District 19, Labrador.** Elson, L. 2006. Western Newfoundland Model Forest, Corner Brook, NL. WNMF: 10-006-6-005, 9pp.