

TERRAIN SENSITIVITY

Robitaille (1979), Canadian Forestry Service

Objective

To identify relative terrain sensitivity classes by combining soil and vegetation sensitivities.

Criteria

- (1) Soil factor map:   pH  
                          organic matter  
                          CEC  
                          texture
- (2) Vegetation map:   species sensitivity to SO<sub>2</sub> from the literature

Sensitivity Class Definitions

<u>Sensitivity</u>	<u>Soil Factor Map</u>	<u>Vegetation Map</u>
Very sensitive	shallow, sandy, acid	Black spruce, Lichen
Sensitive	sandy, non-calcareous, pH 5.0-6.0	_____
Tolerant	calcareous, pH 6.5	Black spruce

Soil and vegetation maps are combined to produce a terrain sensitivity map with three relatively undefined sensitivity classes: extremely sensitive, sensitive, tolerant.

Map Product

Small scale (1:15,000,000) single factor (soil and vegetation) and combined sensitivity maps compiled for eastern Canada (Ontario, Quebec, Labrador, N.B., N.S., P.E.I., Nfld.)

Evaluation

This study is a subjective assessment of soil sensitivities which are not formally defined or described. Are the two single factor sensitivities compatible?