Envirothon New Brunswick

Forestry Workshop
Part 2 of 2
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Dichotomous Key

Understanding terminology is key

Type of leaf



Compound



Shape of leaf



Hand-shaped



Heart-shaped



Round

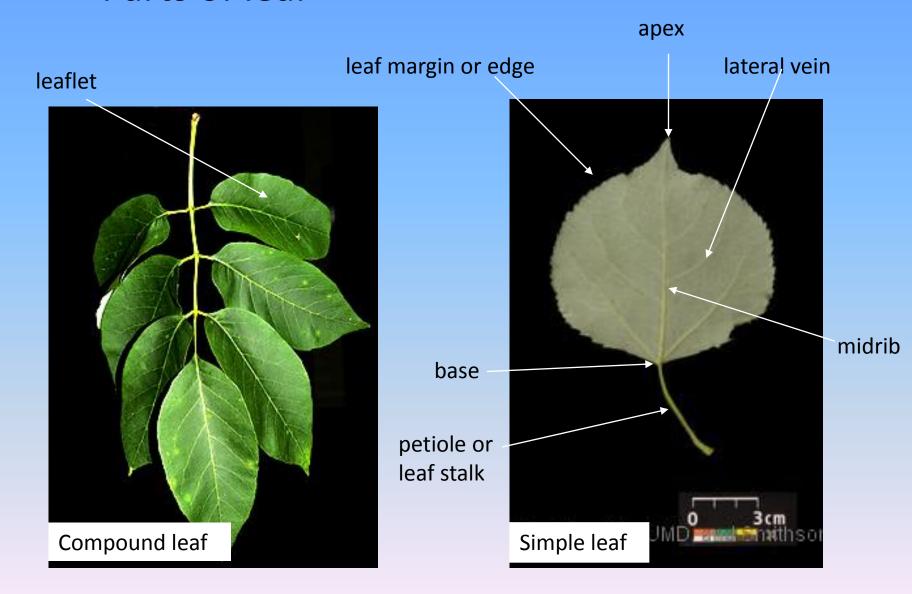


Triangle



Egg-shaped

Parts of leaf



Leaf margins



Lobed and wavy



Small fine teeth



Large teeth



Double toothed



Deeply lobed with pointed teeth



Lobes rounded

Important Invasive pests of forest trees in Eastern Canada

- Beech bark disease
- Dutch elm disease
- Gypsy moth
- Butternut canker
- White pine blister rust
- Brown spruce longhorn beetle
- Emerald ash borer and Asian longhorn beetle (not here yet)

Invasive insects



Gypsy moth



Brown spruce longhorned beetle



Invasive insects



Invasive diseases



Beech bark disease



Butternut canker



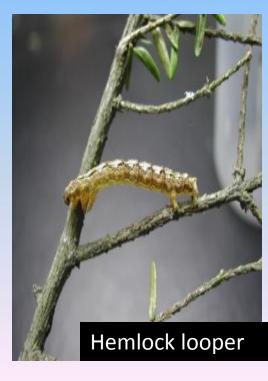
Dutch elm disease

Native insects



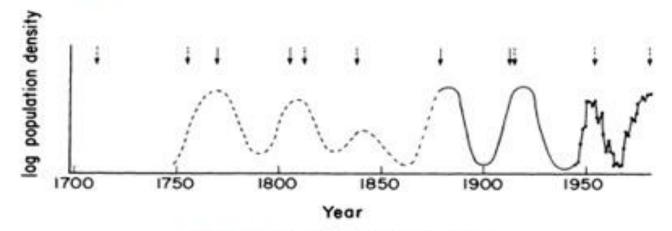






Spruce budworm

Spruce Budworm -- Past Outbreaks



Outbreaks occur every 30-35 years



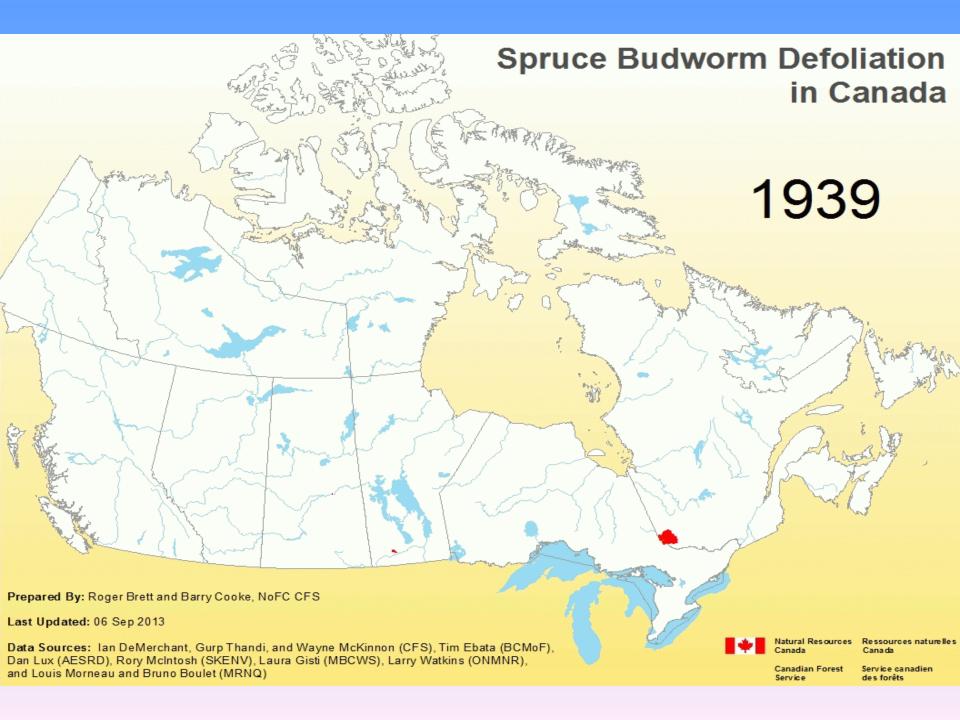


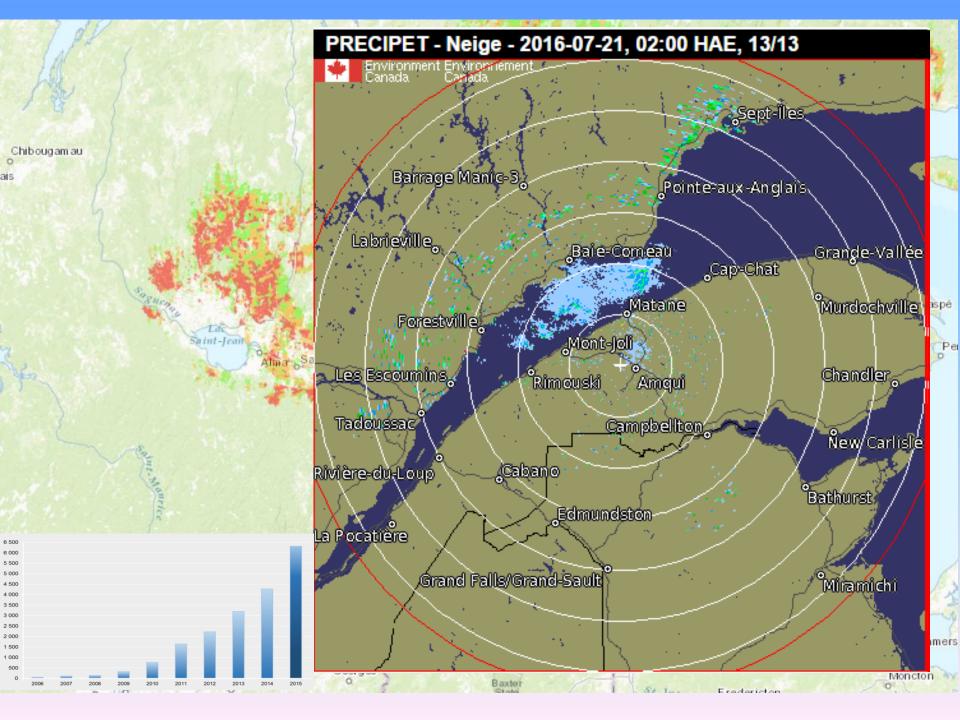














Thank you

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Silviculture Treatments

- Reforestation (site preparation, planting, tending)
- Pre-commercial thinning
- Commercial thinning
- Salvage cut
- Sanitation cut
- Seed tree cut
- Shelterwood cut

Reforestation











Precommercial thinning



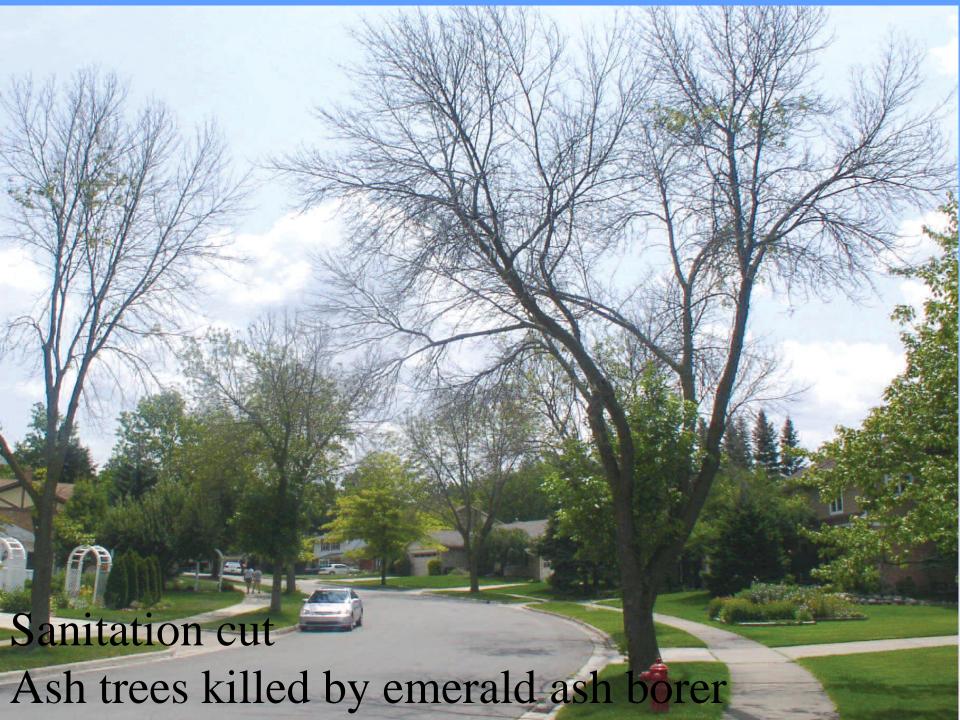


After 45 years









Salvage Cutting Spruce budworm













