



BIOMASS MAPPING INITIATIVE –
INFORMATION ON A FUNDED PROJECT

Manitoba—Mapping forest and peatland biomass

Manitoba's forests and peatlands contain valuable biomass. More complete information about this biomass will support sustainable planning and economic development.

PROJECT TITLE

Integrated inventory and cost-benefit assessment of disturbed forest biomass in southeastern and eastern Manitoba using airborne light detection and ranging, unmanned aerial vehicle, and ground surveys

ORGANIZATION

Forestry and Peatlands Branch, Department of Natural Resources and Indigenous Futures, Government of Manitoba

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This project will generate updated biomass maps for eastern and southeastern Manitoba using Earth observation data (including light detection and ranging [LiDAR], unmanned aerial vehicle [UAV] imagery, satellite data) and updated ground surveys. The maps will show timber, residual biomass, and disturbance-generated wood across forest and peatland systems.

The information will support efficient harvest planning, better use of low-value material, and improved understanding of biomass in disturbed areas. It will also help with peatland stewardship, climate adaptation planning, and early-stage bioenergy development.

By filling key data gaps, the project equips Manitoba with modern tools to strengthen land-use decision-making and open new opportunities in the forest-based bioeconomy.

