



Next Generation Tools for British Columbia Forest Inventory

Using 2017 forest fire data from the British Columbia government, the research team developed an accurate pre-fire inventory that can estimate the volume of timber lost to the forest fires and the remaining timber. Comparing their computed estimates with the province's vegetative resource inventory, the team can verify the records.

PROJECT TITLE

Next generation tools for the British Columbia Forest Inventory with a focus on the impact of disturbances on timber supply

ORGANIZATION

University of British Columbia

CONTACT

Nicholas Coops, Professor
(Faculty of Forestry)
nicholas.coops@ubc.ca

START DATE

1 April 2018

END DATE

31 March 2020

COLLABORATORS

FPIinnovations

The team's objective was to assess how useful airborne laser scanning (ALS) data are in filling in missing data for a large-scale inventory of the areas affected by the 2017 fires. The team hoped to compare existing data to ALS data on burnt areas. The hope is to develop a more comprehensive understanding of how much wood was lost to those forest fires and the implications of using these estimates.

The researchers used the pre-fire data to estimate forest loss and were able to quantify the effect the forest fires had on tree volume and aboveground biomass. The results concluded that about 37 million cubic metres of timber volume remained after the fires, emitting about 81 tonnes of carbon dioxide equivalent.

The scope of this project allows the sector to improve its operations and products and its management of forest ecosystems. Forest firms in western Canada, particularly British Columbia, will benefit from the new tools and information this project provides. This project leverages existing investment in ALS and enhanced forest inventory data, adding valuable information to help support and improve decision-making in the Canadian forest sector.

Cat. No. Fo4-158/2021E-PDF (Online)
ISBN 978-0-660-39067-3

Aussi disponible en français sous le titre: Outils de prochaine génération pour l'inventaire forestier de la Colombie-Britannique avec un accent sur les effets des perturbations sur l'approvisionnement en bois d'œuvre

For information regarding reproduction rights, contact Natural Resources Canada at nrcan.copyrightdroitdauteur.nrcan@canada.ca.

© Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources, 2021

