# Deliverables

## KTTD 5A-2021: Linking FRI data to FVS-Ontario

## Abstract

The Forest Vegetation Simulator (FVS) is a non-spatial distance-independent forest growth model that projects stands into the future and can also simulate a wide variety of silvicultural practices. In the United States, over 20 regional variants of the FVS model are used by federal agencies to project forest inventories. Beginning around 2006, the Ontario Ministry of Natural Resources began to develop an Ontario variant of the FVS growth and yield model (FVS-ON) based on the pre-existing metric FVS-BC variant, combined with the US Lake States variant of FVS. Over time and as part of the development process, many of the growth and other allometric equations have been replaced by equations developed for Ontario. Adoption of FVS-ON has been hindered by the difficulty of creating FVS-ready stand inventories from provincial and federal forest survey programs. Based on the R-statistical computing environment, this project has created a working prototype for creating FVS inventories from existing federal NFI inventories, creating working SQLite databases that can be used directly by FVS-Ontario.

The deliverables consist of 3 documents posted on ResearchGate.

| Deliverable | Notes |
|---|---|
| Final Report with R and SQL scripts | ESSA - KTTD 5A-2021 Final Report.pdf <br> https://doi.org/10.13140/RG.2.2.24220.50560 |
| Working example with database of 257 NFI plots | ESSA - KTTD 5A-2021 Examples.zip <br> *Supplementary data posted with the Final Report* |
| Project Presentation | ESSA - KTTD 5A-2021 Webinar.pdf <br> *Supplementary data posted with the Final Report* |

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