

RP 314 – AADT Estimation and Validation Tools for Local Off-System Public Roads

- Project Description:

To model safety across the entire network of public roads, and to be compliant with Federal Highway Administration's regulations, traffic data must be available on all public non-federal aid roads. The Fixing America's Surface Transportation Act (FAST Act) requires that an estimate of traffic be available on all paved roads that are not on the federal aid system. In Idaho, there are approximately 12,000 centerline miles of federal aid roads where traffic counts are taken routinely, and approximately 42,000 centerline miles of local roads that make up the rest of the network. However, at present time ITD has no rigorous or automated means other than very basic statewide generalizations to estimate Annual Average Daily Traffic (AADT) values for the local roads that comprise a majority of the statewide network.

While the overall vehicles miles (VMT) traveled is calculated annually for the state, ITD is only capable of calculating general AADTs for broad categories: each large urban area, small urban roads combined, and rural roads combined. This means that some routes that may have a substantially higher AADT are not being well represented. This project will implement previous research that defined a methodology for estimating AADT on local roads and will develop geospatial tools that incorporate the characteristics of the local roads as well as the connecting roads that have an AADT calculated on them already.

- The objectives of this project are:

1. To expand on the implementation and validation plan developed in RP-303: [Off-System Public Roads Annual Average Daily Traffic \(AADT\) Estimation Study](#).
2. To develop a comprehensive processing tool for calculating Annual Average Daily Traffic (AADT) values on every local off-system public road in the state using ArcGIS and Python.
3. To develop training materials and user guide for the tools produced through this project that can be referenced by back-end and front-end users.

- Estimated Completion Date: May 2025

- Budget: \$81,000

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