

Appendix F: MOVES Documentation

Triad Area: Guilford County U-2524BC LRTP/TIP Amendment

MOVES20120410b inputs

Daily VMT (PTRM) Average daily speeds for years 2015, 2025, 2035

VMT Mix (Fraction of VMT on Facility Type by Vehicle Type) 2015, 2025, 2035 based on 2011 Vehicle counts less trailers.

SourceTypeAgeDistributon (Vehicle Age Distribution in the consensus plan) is 2012 NCDOT vehicle registration data.

RoadTypeDistribution, HPMSvTypeYear, and HourVMTFraction are generated in the VMT converter.

Dayvmtfraction and monthvmtfraction are defaults exported from MOVES database.

AvgSpeedDistribution generated using Guilford PTRM speeds and MOVES tools and EPA guidance.

Meteorology - Temperature and Relative Humidity is hourly average temperature and relative humidity calculated for each month. Meteorological data is 2007 data from the GSO Triad Regional Airport.

I/M Compliance Factor Coverage – uses MOVES guidance with a 95% compliance rate and a 5% waiver rate and exempting the latest model year.

Fuel Supply and Fuel Formulation use the 2012 fuelYrID defaults edited for calendar specific monthly RVP county profile.

SourceTypePopulation is based on 2012 DMV Registration Data projected to 2015, 2025, and 2035 using 2011 OSBM Human Population Projections.