

Transportation Model for Loudoun County, Virginia

MCV developed a countywide transportation model, using the Washington Metropolitan Area MINUTP model Version 2, as currently used by the Council of Governments. The 126 zones in the regional model for Loudoun County were expanded to 575 zones and the remainder of the Washington area was compressed in to fewer zones (678), resulting in a total of 1278 zones. Land use data was compiled by MCV using the COG data. The transportation network was created from COG data but included collectors and local roads, as necessary. The model was calibrated to the year 2000 using daily and peak hour volumes, provided by the Virginia Department of Transportation and supplemented by counts conducted by MCV. The model was used to forecast 2020 travel demand for several alternative land use and transportation scenarios including the “Smart Growth” scenario. The model was used to develop a comprehensive transportation plan, which was subsequently adopted by the Board of Supervisors. The model was linked to the County’s GIS System. A user manual was prepared in addition to the calibration and results reports. The study included training of the County staff in the use of the County Model.

