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Historical Traffic Volumes Data for the District of Columbia

The District Department of Transportation (DDOT) initiated a project focused on compiling the historic traffic volumes from multiple agencies for Washington, DC to allow better understanding of historic traffic patterns and growth. Traffic volumes and Highway Performance Monitoring System (HPMS) maps and tables were obtained from DDOT, the Metropolitan Washington Council of Governments (MWCOCG), and the Federal Highway Administration (FHWA). The aim was to convert any historic records, many paper-based, to a publicly accessible GIS interface.

After extensive searching for past records, the project team has developed a geodatabase of historical traffic counts (average daily traffic [ADT] volumes) going back to 1967. There are 145 feature classes from four different data models. Project team member CH2M inventoried the available data and created an ADT map layer for each year by street segment. ArcMap Desktop 10.3 was used for schema design, geoprocessing, and metadata.

This resource allows DDOT staff to visualize and model traffic trends in new ways, and to better understand historical traffic on its streets. The data will be loaded into the District's Roads and Highways LRS. Additionally, it will ultimately allow consultants and public stakeholders to access this data.