

2.1.2 Using GPS for Travel Time Study

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A travel time study using GPS was conducted in the Wheeling-Bridgeport by-state MPO during spring and summer of 2006. A Trimble GeoExplorer receiver was used with a magnetic mount antenna. Several techniques of collecting data including in-field segmentation, segmentation during post processing, data collection as a linear feature and positions only are presented. The study explains the benefits of GPS over traditional travel time study tools and shows how the stop delay data can be separated from the travel time run data at intersections. Issues pertaining to aggregating data from multiple runs to compute average travel time and speed are also addressed.