

Traffic Calming and Measurement Devices

Traffic calming and measurement devices are typically installed for week long studies. The City of Naperville uses three main types of traffic data collection devices: driver feedback signs, magnetic traffic counters, and mechanical traffic data collectors. Volume and speed data are broken down to 15 minute, 1 hour, and 24 hour increments. By analyzing this data, staff can identify the time frames for peak volume and highest speeds. Peak volume numbers assist in timing traffic signals, while periods of highest speed can be used to identify candidate sections of roadway for driver feedback sign installation and targeted enforcement by the police.

Driver Feedback Sign



Driver feedback signs provide motorists with real-time feedback about their vehicle's speed. These signs are intended to influence motorists to better obey speed limits and enhance the overall safety around the areas where the signs are located. These signs operate during day and night in all weather conditions.

Magnetic Traffic Data Collector



The Nu-Metric device collects speed, volume and vehicle classification data through the use of magnetic imaging technology. These devices are placed on the pavement, and work best in high volume, continuous traffic streams. Because there are no counting tubes involved, counts are rarely interrupted due to equipment failure, and they can be used in a “set them and forget them” way.

Traditional Traffic Data Collector



This device also collects speed, volume, and vehicle classification data but through the use of road tubes. While the count data is extremely accurate and the reporting software is user friendly, these installations must be monitored throughout the study period to insure the road tubes stay in place.