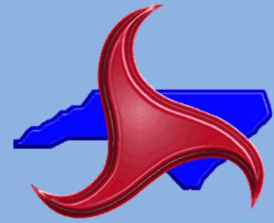


NCDOT Traffic Safety Unit Programs



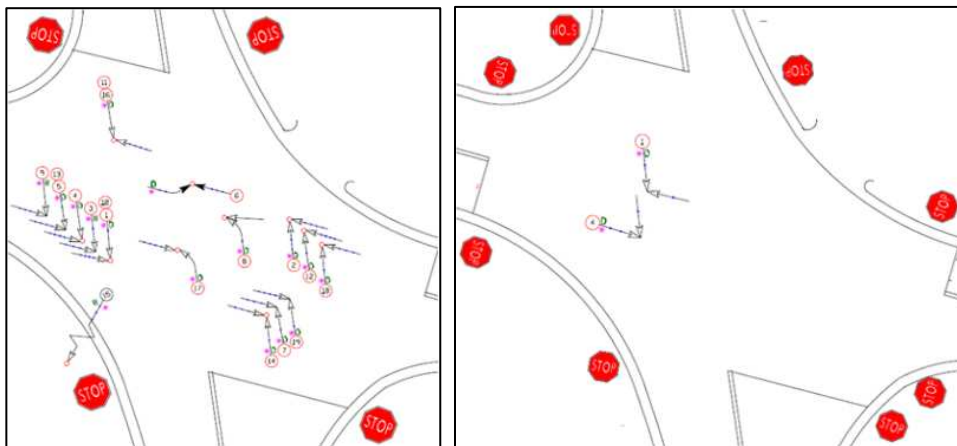
Safety Evaluation Program

The Safety Evaluation Group (SEG) evaluates projects in an attempt to assess the safety of our roads in North Carolina. This information is provided so the benefit or lack of benefit for a particular type of project can be recognized and utilized for future projects. There are currently over 2,500 project evaluations on the web from almost 50 topic areas. For more information on our completed projects, use the following link:

<https://connect.ncdot.gov/resources/safety/Pages/Safety-Evaluation.aspx>

Safety Program Evaluations

Most of the reports the SEG has completed evaluate the safety aspects of a location-specific spot safety project or a hazard elimination project. These are projects that have been funded to address a particular documented safety issue or potential safety issue. **The NCDOT safety programs have demonstrated a benefit-cost ratio of 14:1.**



Example crash diagrams from a spot safety project evaluation. The countermeasure involved converting an intersection from two-way stop control to all-way stop control in Wake County, resulting in a 75% reduction in crashes.

Left: Before Period Crashes
Right: After Period Crashes

Topic Oriented Safety Evaluations

SEG also conducts large scale studies using data from locations across the State. As we complete multiple evaluations for a particular type of countermeasure, we can provide objective and definite information regarding actual crash reduction factors. Examples of topic areas include All-Way Stops, Chevrons, Flashing Beacons, Flashing Yellow Arrow, Flashers in School Zones, Long Life Markings, Paved Shoulders, Reduced Conflict Intersections, Roundabouts, Rumble Strips, and Vehicle Entering When Flashing Signs. The methodologies used in the evaluations offer various philosophies and ideas. When possible and appropriate, we attempt to use statistical analysis to account for potential study biases. Numerous topic-oriented safety studies completed by the SEG have been published in peer-reviewed journals.