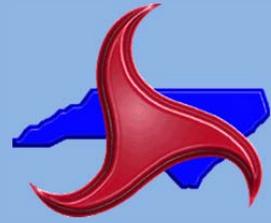


# NCDOT Traffic Safety Unit Programs



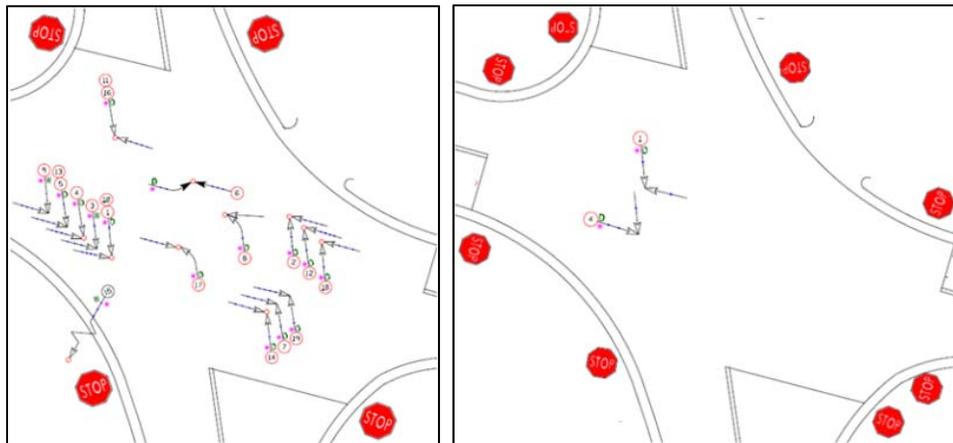
## Safety Evaluation Program

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 1,000 project evaluations on the web from 45 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

A majority 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. An overall evaluation of the NCDOT spot safety program with projects completed through 2007 shows a benefit-cost ratio of 14:1 using 2005 dollars.



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

The 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 are able to provide objective and definite information regarding actual crash reduction factors. Some of the topic areas include: All-Way Stops, Roundabouts, Overhead Flashing Beacons, Flashing Yellow Arrow, Vehicle Entering When Flashing Signs, Flashers in School Zones, Speed Enforcement Programs, and Paved Shoulders. 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.