



**National
Transportation
Safety Board**

Highway Factors

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Topic Areas

- Intersection sight distance
- Postcrash improvements
- Scope of intersection crashes nationwide
- Connected vehicle technology

BCR 528 Westbound View from BCR 660 Stop Line



View From School Bus Driver Stopped Location on BCR 660



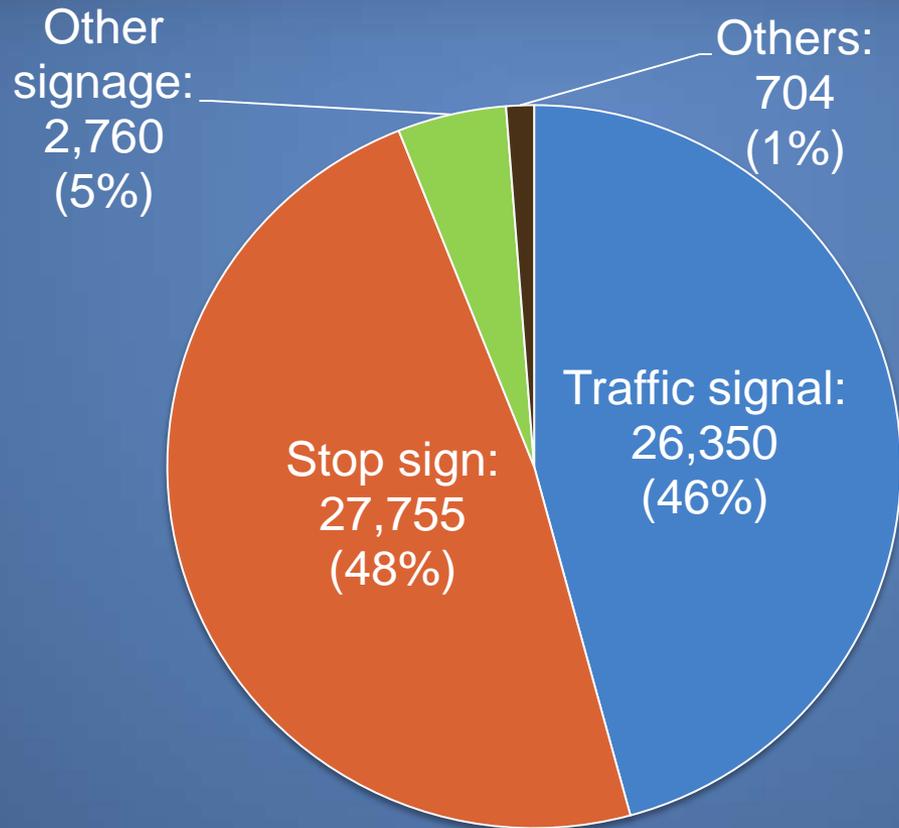
Postcrash Intersection Improvements

- No crashes at this intersection in preceding year
- Trees relocated to improve available sight distance
- Upgraded signage
- Obtained funding for roundabout

Scope of Intersection Crashes Nationwide

- 86,986 fatalities from 2002–2011
- 22 percent of fatal accidents occur at intersections
- 49 percent of injuries result from intersection crashes

Scope of Intersection Crashes Nationwide (cont'd)



Connected Vehicle Technology

- Vehicles and traffic devices connected by DSRC
- Vehicles transmit and receive information about position and speed that can help prevent intersection crashes

Connected Vehicle Technology



Source: U.S. DOT

Safety Pilot Program

- Driver acceptance clinics
(August 2011 – January 2012)
- Model deployment began
August 2012
- Testing 3,000 vehicles with
connected technology

Summary

- School bus driver had adequate sight distance
- School bus driver stopped at a location where he should have been able to see the approaching truck
- Connected vehicle technology safety applications will reduce these types of crashes