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Descriptive Statistics of the Impact of Cable Rails Systems

This study analyzed the impact, in terms of descriptive statistics, of cable rail systems to the occurrence of median crossover crashes in Tennessee. The study utilized Geographical Information System (GIS) to identify and map actual median cable barrier segment locations on Interstates and freeways. The study extrapolated Annual Average Daily Traffic (AADT) using the collected GIS location data. The GIS location data provided county and route numbers, beginning and end log miles, and segment lengths which were used to determine traffic volume before and after the installation of the cable segments. The study gathered detailed crash data before and after the cables were installed and their associated attributes. Descriptive statistics of critical factors associated with median-crossover related crashes are therefore presented. The percentage reduction/increase in crash frequencies and types are presented.