



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

JAMES B. HUNT JR.  
GOVERNOR

P.O. BOX 25201, RALEIGH, N.C. 27611-5201

David McCoy  
SECRETARY

June 28, 1999

MEMORANDUM

TO: Area Traffic Engineers and Unit Heads

FROM: J. K. Lacy, P.E., Traffic Safety Engineer *JKL*

SUBJECT: 1998 Estimated Crash Cost and 1996-1998 Statewide Crash Rates For North Carolina

Attached for your information and use are the 1998 estimated crash cost and various traffic crash rate tables for rural and urban route systems for 1996 through 1998. The crash rates listed on the white pages are crashes per 100 million vehicle miles traveled while the green pages are metric units, crashes per 100 million vehicle kilometers. The truck crash rates are either in truck crashes per 100 million vehicle miles (kilometers) traveled by all vehicles or truck crashes per mile (kilometer).

I would also like to take this time to ask that if your Unit uses any other crash rate or safety measure. If so please let me know what it is, how it is calibrated and whom could I contact to get additional information.

If you need other types of traffic crash summaries to be included in these tables, please advise. If you need additional information about these crash rates, please call me at (919) 733-3915 or email at [klacy@doh.dot.state.nc.us](mailto:klacy@doh.dot.state.nc.us). The Crash Rates will soon be available on the Traffic Safety Systems Management Unit Webb page, <http://www.doh.dot.state.nc.us/preconstruct/traffic/safety>.

JKL

Attachments

cc: Len Sanderson, P.E., Attachments  
Janice Faulkner, Attachments  
Len Hill, P.E., Attachments  
J. M. Lynch, P.E., Attachments  
Troy Peoples, P.E., Attachments  
C. W. Leggett, P.E., Attachments  
Joe Parker, Attachments  
Forrest Robson, P.E., Attachments  
George Gibson, P.E., Attachments  
Col. R. W. Holden, Attachments  
Rosa Gill, Attachments  
W. H. Webb, P.E., Attachments  
Ron Poole, Ph.D., P.E., Attachments  
Forrest Council, Ph.D., Attachments  
Assistant State Traffic Engineer, Attachments  
Brad Hibbs, Attachments  
Division Engineers, Attachments  
Division Traffic Engineers, Attachments

### 1998 Estimated Crash Cost for North Carolina

The following costs are based on the previous work completed by the Traffic Safety Systems Management Unit on crash cost analysis. The crash costs have been adjusted to reflect the changes in the consumer price index for 1998 and the changes in average injuries per reported crash in North Carolina for 1996 through 1998. In the majority of the cases the costs have increased, but a few categories remained the same or decreased.

<b>Crash Type</b>	<b>Monetary Cost Per Crash Estimated 1998 Dollars</b>	<b>Comprehensive Cost Estimated 1998 Dollars</b>
Fatal Crash	\$1,110,000	\$3,500,000
A injury Crash	\$85,000	\$278,000
B Injury Crash	\$32,000	\$75,000
C Injury Crash	\$19,000	\$37,000
Property Damage Only Crash	\$3,100	\$3,100
Average Crash	\$24,000	\$52,000
Non-Fatal Injury Crash	\$27,000	\$66,000