Critical Crash Rate: $F_{c}=F_{a}+k(F a / M)^{1 / 2}+0.5 / M$
where: Fa = Average Crash Rate of Facility
k = probability constant, NCDOT has $\mathrm{M}=$ vehicle exposure (100mvmt)

For more information see $\operatorname{TRR}$ 1542, pp.44-48

Type (crashes per 100 mvmt$)$ chosen $k=1.645$ for the $95 \%$ level of confidence

| TIME PERIOD: |  | то |  | 2/31/2002 |  |  |  |  | CRASHES |  | TOTAL CRASH RATE |  |  |  | TRUCK CRASH RATE |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| county | ROUTE | location |  |  | $\begin{aligned} & \text { LENGTH } \\ & \text { (Miles) } \end{aligned}$ | ADT | $\begin{gathered} \text { TIME } \\ \text { (YEARS) } \end{gathered}$ | (100мVM) <br> EXPOSURE (100MVM) | total no. of ACC. | $\begin{aligned} & \text { NO. OF } \\ & \text { TRUCK ACC. } \end{aligned}$ | $\underset{\text { RATE }}{\text { total acc. }}$ RATE | Statewide ACC. RATE | $\underset{\text { RATE }}{\substack{\text { CRITICAL }}}$ | EXCEEDS CRITICAL RATE? | $\underset{\text { RATE }}{\text { TRUCR }}$ ACC. RATE | Statewide <br> ACC. RATE | $\underset{\text { RATE }}{\text { CRITICAL }}$ | EXCEEDS CRITICAL RATE? |
| Person | SR 1401 | $\begin{aligned} & \text { From: } \\ & \text { To: } \end{aligned}$ | MILEPOST MILEPOS | $\begin{aligned} & 0.000 \\ & 0.920 \end{aligned}$ | 0.92 | 24,000 | 3.00 | 0.2418 | 145 | 5 | 599.73 | 417.7 | 488.13 | yes | 20.68 | 7.3 | 18.47 | yes |
|  |  | From: To: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | From: To: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | $\begin{aligned} & \text { From: } \\ & \text { To: } \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | $\begin{aligned} & \text { From: } \\ & \text { To: } \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | $\begin{aligned} & \text { From: } \\ & \text { To: } \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | TOTAL |  | 0.92 |  |  | 0.2418 | 145 | 5 | 599.73 | 417.7 | 488.13 | YES | 20.68 | 7.3 | 18.47 | YES |

[^0]
[^0]:    RATES COME FROM THE TRAFFIC RATES BY ROAD TYPES AND SYSTEMS FOR 2003 thru 2005 .
    ALL RATES ARE IN ACCIDENTS PER 100 MILLION VEHICLE MILES
    ALL RATES ARE IN ACCIDENTS PER 100 MILLIION VEHICLE MILES
    Critical Crash Rate: $F_{c}=F_{a}+k(F a / M)^{1 / 2}+0.5 / \mathrm{M}$
    REVISED:

