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ANALYSIS OF TRAFFIC CRASH DATA IN KENTUCKY (1996 - 2000)

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EXECUTIVE SUMMARY

This report documents an analysis of traffic crash data in Kentucky for the years of 1996 through 2000. A primary objective of this study was to determine average crash statistics for Kentucky highways. Average and critical numbers and rates of crashes were calculated for various types of highways in rural and urban areas. These data can be used in Kentucky's procedure to identify locations that have abnormal rates or numbers of crashes.

The other primary objective of this study was to provide data which can be used in the preparation of the problem identification portion of Kentucky's Annual Highway Safety Plan. County and city crash statistics were analyzed. A summary of results and recommendations in several problem identification areas is presented. These general areas include alcohol involvement, occupant protection, speed, teenage drivers, pedestrians, bicycles, motorcycles, trucks, and vehicle defects. Other areas included in the analysis for which specific recommendations were not made include drug involvement, school bus crashes, and train crashes.

The police report was changed starting in January 2000. Some of the codes were changed from previous years which may result in changes in some of the data. Also, the crash data are now contained in the Collision Report Analysis for Safer Highways (CRASH) data base. This data base is updated daily so the number of crashes in a given calander year will continue to change for a substantial time after the end of that year.

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1.0 INTRODUCTION

Annual reports have previously been prepared since 1978 dealing with the calculation of statewide traffic crash rates for Kentucky and preparation of the problem identification portion of Kentucky's Annual Highway Safety Plan. This is the 15th report providing a combination of those two report areas. Traffic crash data for the five-year period of 1996 through 2000 were used in the preparation of this report.

Kentucky has a systematic procedure to identify locations that have had abnormal rates or numbers of traffic crashes. However, before that procedure may be utilized, average crash rates and numbers must be determined for appropriate highway categories and for rural and urban areas. A primary objective of this study was to determine average traffic crash statistics for Kentucky. Those statistics may then be used in the high-crash location identification program to identify locations which should be investigated to determine whether changes should be made.

A highway safety program is prepared each year for Kentucky in order to comply with Section 402, Title 23 of the United States Code. This program includes the identification, programming, budgeting, and evaluation of safety projects with the objective of reducing the number and severity of traffic crashes. The second major objective of this report is to provide data which may be included as the problem identification portion of Kentucky's Annual Highway Safety Plan. Results from this report are used to provide benchmark data for that process.

2.0 PROCEDURE

Crash and volume data bases were used to obtain traffic crash statistics. Traffic crash data have been maintained in a computer file containing all police-reported crashes. The crash report was changed in 2000 with the data now contained in the Collision Report Analysis for Safer Highways (CRASH) data base. The computer files and data base were obtained from the Kentucky State Police (KSP). All police agencies in the state are required to send traffic crash reports to the KSP.

Parking lot crashes were not included in the computer file from 1994 through 1999. Parking lot crashes are now contained in the CRASH data base but they were excluded from the analysis to maintain consistency with previous years. Crashes coded as occurring on private property were also excluded from the data from 2000 so it would be consistent with other reports. All crashes included in the analysis occurred on a public highway. Summaries were prepared from an analysis

of the crash data from a combination of the computer files from 1996 through 1999 and CRASH data base for 2000.

Volume data along with other data describing highway characteristics such as number of lanes were obtained from a computer file containing roadway characteristics data for all state-maintained highways. This information is obtained from the Highway Performance Monitoring System (HPMS) file. Data for a five-year period of 1996 through 2000 were obtained from this file. The HPMS file was used to obtain the roadway information needed to compute crash rates as a function of various roadway characteristics such as number of lanes.

A computer program using both crash data from the crash data base and roadway characteristics information from the HPMS file was used to calculate rates for the state-maintained system. A separate computer program was used to obtain additional summaries of various crash variables with this program using all reported traffic crashes (excluding parking lots and private property).

Rates were calculated for: 1) state-maintained roads having known traffic volumes, route numbers, and mileposts and 2) all public streets and highways on and off the state-maintained system. Rates were provided in terms of crashes per 100 million vehicle-miles (C/100 MVM) where traffic volumes could be determined. Population was used as the measure of exposure in instances where traffic volume data were not available to use as the exposure measure. Population data from the 2000 census were used.

In addition to average crash rates, critical rates and numbers of crashes are required for the high-crash location program. Both types of rates were calculated. The following formula (Equation 1) was used to calculate critical crash rates:

$$C_c = C_a + K(sqrt(C_a/M)) + 1/(2M)$$
 (1)

in which

 C_c = critical crash rate,

 C_a = average crash rate,

sqrt = square root,

K = constant related to level of statistical significance selected (a probability of 0.995 was used wherein K = 2.576), and

M = exposure (for sections, M was in terms of 100 million vehicle-miles (100 MVM); for spots, M was in terms of million vehicles).

To determine the critical number of crashes, the following formula (Equation 2) was used:

$$N_c = N_a + K(sqrt(N_a)) + 0.5$$
 (2)

in which

 N_c = critical number of crashes and

 $N_a =$ average number of crashes.

There are highway safety problem areas (standards) identified by the National Highway Traffic Safety Administration. Problem areas which have been identified for emphasis include alcohol and occupant protection. To identify problems in these areas, as well as other "highway standard" areas, the analyses focused on the following.

- 1. Statewide Crash Rates
- 2. County Crash Statistics
- 3. City Crash Statistics
- 4. Alcohol- and Drug-Related Crashes
- 5. Occupant Protection
- 6. Speed-Related Crashes
- 7. Teenage Drivers
- 8. Pedestrian Crashes
- 9. Bicycle Crashes
- 10. Motorcycle Crashes
- 11. School Bus Crashes
- 12. Truck Crashes
- 13. Train Crashes
- 14. Vehicle Defects
- 15. General Trend Analysis

3.0 STATEWIDE CRASH RATES

All of the rates referred to in this section apply to state-maintained roads having known traffic volumes, route numbers, and mileposts. Crash rates are given in terms of crashes per 100 million vehicle-miles (C/100 MVM). Using the HPMS files results in approximately 28,000 miles being included in this category. This compares to over 70,000 miles of public roads in Kentucky. While only approximately 40 percent of the total miles are state-maintained, in 2000 these roads accounted for approximately 88 percent of the vehicle miles traveled and 66 percent of the crashes. The crash rate on the state-maintained system is dramatically less than on the non-

state maintained system. A major reason for the higher crash rate on roads not included in the analysis of the state-maintained system is the large number of crashes which occurred on state-maintained roadways but were not provided with the information necessary to be assigned to a specific location on a roadway. These crashes could not be included in the crash total assigned to the state-maintained category. There is a need to improve the procedure for placing route and milepoint information on the crash report, and this need has been addressed as part of the CRASH process started in 2000.

A comparison of 1996 through 2000 crash statistics on streets and highways having known traffic volumes, route numbers, and mileposts is shown in Table 1. The number of crashes on the state-maintained road system was higher in 2000 compared to the average of the previous four years. The larger increase in the number of crashes compared with the increase in vehicle-miles driven resulted in a 3.9 percent increase in the crash rate in 2000 compared to the previous four-year average. The overall crash rate in 2000 was 219 crashes per 100 million vehicle-miles (C/100 MVM). The crash rates for the previous four years varied from 197 to 230 C/100 MVM.

The fatal crash rate showed a decrease (8.1 percent) in 2000 compared to the previous four-year average. The fatal crash rate in 2000 was the lowest of the five years. The fatal crash rate ranged from 1.44 C/100MVM in 2000 to 1.66 C/100MVM in 1997. The injury crash rate decreased by 4.8 percent in 2000 compared to the previous four-year average. The injury crash rate has remained fairly stable prior to 2000 with the range from 58 to 69 C/100 MVM between 1996 and 1999 compared to 60 C/100 MVM in 2000.

An analysis of statewide crash rates as a function of several variables, such as highway system classification, was conducted. Also included is information concerning the percentage of crashes occurring for various road conditions and during darkness. Results of this analysis are presented in APPENDIX A.

Crash rates required to implement the high-crash spot-improvement program in Kentucky are average rural and urban rates by highway type. The current classification uses number of lanes with an additional separation of four-lane highways (non-interstate or parkway) into divided and undivided categories. Interstates and parkways are classified separately. Rates for rural highways for the five-year period (1996 through 2000) are listed in Table 2. The rates for urban highways are listed in Table 3. Highways were placed into either the rural or urban category based upon the rural-urban designation denoted on the HPMS file. For sections having a volume, route, and milepost, the rural or urban and highway type classifications were determined. The crash could not be used in this analysis if the county and route were given but the milepoint was not noted. The number of crashes for each section was

then obtained from the crash file. The total crash rate (crashes per 100 million vehiclemiles), as well as injury and fatal crash rates, were calculated.

On rural highways, the small number of three-lane highways has the highest rate for all crashes (Table 2) followed closely by two-lane and four-lane undivided highways. Two-lane highways has the highest injury crash rate. The fatal crash rate on two-lane highways is substantially higher than the other road types. Interstates has the lowest rates, followed closely by parkways. The advantage of median-separated highways is shown when comparing all and injury rates for four-lane divided (non-interstate or parkway) and four-lane undivided highways. The overall crash rate for a non-interstate or parkway divided highway (which would not typically have access control) is about 50 percent less than for an undivided highway, although the average daily traffic was fairly similar.

On urban highways, the highest overall crash rates are on four-lane undivided and three-lane highways (Table 3). The same two highway types also have the highest injury crash rates. Urban parkways and four-lane undivided highways have a slightly higher fatal crash rate than the other types. The lowest overall crash rate and injury crash rate are on interstates and parkways. Interstates have the lowest fatal crash rates.

Tables 2 and 3 show that the overall total crash rate on urban highways is about 55 percent higher than that on rural highways. Also, the injury rate on urban highways is 17 percent greater than that for rural highways. However, the fatal crash rate on urban highways is only 33 percent of that for rural highways.

Variations in crash rates by rural and urban highway-type classifications over the five-year period are listed in Table 4. There was a larger increase in the overall crash rate in urban areas (4.6 percent) compared to rural areas (2.8 percent). Only a small percentage (about 10 percent) of state-maintained mileage is classified as urban. The rates fluctuated significantly for the highway types which had only a small number of miles. The rates increased in 2000 for most highway types.

Trends in overall crash rates representative of rural and urban areas are shown graphically in Figure 1 for the five-year period of 1996 through 2000. In addition, trends in crash rates for types of highways are shown for rural highways (Figure 2) and urban highways (Figure 3). These rates apply to state-maintained roads having known traffic volumes, route numbers, and mileposts.

Average rates listed in Tables 2 and 3 may be used to determine critical crash rates for sections of highway of various lengths. In addition to highway sections, Kentucky's high-crash location procedure uses highway "spots", defined as having a length of 0.3 or 0.1 mile. The highway "spot" represents a specific identifiable point on

a highway. Statewide crash rates for "spots", by highway-type classification, are listed in Table 5 using 1996 through 2000 data.

The first step in Kentucky's procedure for identifying high-crash locations involves identifying "spots" and sections that have more than the critical numbers of crashes. Then, the crash rates for those locations are compared to critical crash rates. Statewide averages and critical numbers of crashes for 0.3-mile "spots" and one-mile sections by highway-type classification are presented in Table 6 for 1996 through 2000. Critical numbers of crashes, such as those listed in Table 6, are used to establish the "number of crashes" criterion for determining the initial list of potential high-crash locations. For example, six crashes in this time period would be the critical number of crashes for a 0.3 mile "spot" on a rural, two-lane highway.

The numbers and rates presented in Tables 2, 3, 5, and 6 could be calculated for various numbers of years. A three-year period is used in some analyses. The data shown in those tables were calculated for a three-year period (1998-2000) with the results shown in APPENDIX B. Data for 0.1 mile "spots" are also given.

Critical numbers of crashes for various section lengths were determined for each highway type using Equation 2 on page 3. Results are presented in tables in APPENDIX C. Section lengths up to 20 miles for rural roads and up to 10 miles for urban roads are included. The critical numbers of crashes given in this appendix are for the five-year period of 1996 through 2000.

After the initial list of locations meeting the critical number criterion is compiled, comparisons between crash rates for those locations and critical crash rates are made. Critical rate tables for highway sections for the five-year period of 1996 through 2000 are presented in APPENDIX D. Critical crash rates for the various rural and urban highways were determined as a function of section length and traffic volume (AADT). The rates are listed in units of crashes per 100 MVM and were calculated using Equation 1 on page 2.

Critical rate tables for 0.3 mile "spots" are contained in APPENDIX E. Those rates are presented in units of crashes per million vehicles and also were determined using Equation 1. These rates are for the five-year period of 1996 through 2000.

4.0 COUNTY CRASH STATISTICS

Crash rates were calculated for each county considering 1) only the statemaintained system and 2) all roads within the county. The crash rates are presented in terms of C/100 MVM. Total crash rates were calculated for both categories. Also, using all roads in the county, crash rates were calculated considering fatal crashes only

and fatal-or-injury crashes only. Those rates are presented in Table 7. The numbers given represent the crashes reported by the various police agencies in each county. If any agency does not report all of the crashes they investigate, the number of crashes listed in that county will be lower than the actual number that occurred. Total miles traveled in each county were determined by combining miles traveled on roads having known traffic volumes with those having no recorded volumes. The HPMS file was used to tabulate vehicle-miles traveled by county on roads having traffic volume counts. The difference between the statewide total of vehicle-miles traveled on roads having known traffic volumes (provided by the Kentucky Transportation Cabinet) compared to the total estimated miles driven in the state was then distributed to each county. The distribution was based upon the percentage of registered vehicles in each county of the total in the state. The total miles driven in each county was then obtained by adding the known miles driven on the state-maintained highway system and the estimated miles driven on the remaining streets and highways.

To assist in the analysis of county crash statistics, county populations were tabulated (in descending order) and presented in Table 8. The populations use data from the 2000 census. The counties were then grouped into five categories based upon population. Using crashes on all roads in the county, average and critical crash rates were calculated (Table 9). The total crash rate and injury-or-fatal crash rates increased as population increased while the fatal crash rate decreased with increased population. The critical crash rate was calculated using Equation 1. Critical rates (in terms of crashes per 100 million vehicle-miles) were calculated for total crashes, fatal crashes, and injury-or-fatal crashes. The numbers of counties having rates above critical in each population category were determined. The total number was 37 for total crashes, 35 for injury-or-fatal crashes, and three for fatal crashes. There has been consistency over the past few years in the counties which have a critical rate. For example, 33 of the 37 counties determined to have a critical crash rate when total crashes were considered were also identified as having a critical crash rate in the most recent report.

Table 10 contains a list of numbers of crashes and total crash rates for all counties grouped by population category (considering all roads in the county). Counties within each population category are listed in order of descending crash rate, with the critical rates identified.

Crash rates also were calculated by county considering only the state-maintained system. Those rates, grouped by population category, are presented in Table 11. The rankings of counties in Tables 10 and 11 are similar. In four of the five population categories, the same county had the highest rate considering all roads or state-maintained roads. These counties are Trimble County (in the under 10,000 category), Pendleton County (in the 10,000 to 14,999 population category), Harrison County (in the 15,000 to 24,999 population category), and Fayette County (in the over

50,000 population category). In the 25,000 to 50,000 population category, Boyd County has the highest rate for all roads while Boyle County has the highest rate for the statemaintained system. When all roads are considered, Fayette County, followed by Jefferson, Daviess, and Harrison Counties, has the highest rates in the state. When only state-maintained roads are considered, Harrison County has the highest rate followed by Boyle, Pendleton, and Jessamine Counties. Carlisle County, which is in the lowest population category, has the lowest rate in the state. Crash rates were higher when all roads were considered compared to rates for only the state-maintained system.

Using crashes on all roads in each county, injury or fatal crash rates are listed in Table 12 in descending order by population category. Counties having critical rates are identified. Counties having the highest rates for their population categories are Crittenden, Pendleton, Breathitt, Perry, and Pike. Pike County has the highest rate in the state while Carlisle County had the lowest rate.

Similar rates for fatal crashes are listed in Table 13. Counties having the highest rates for their population categories are Crittenden, Leslie, Clay, Knox and Boyle and Floyd, and Pike. The highest rates are generally for the smallest counties where there would be more driving on two-lane rural roads which have been found to have the highest fatal crash rate (Table 2). Pike, Pulaski, and Madison Counties are the only counties identified as having a critical fatal crash rate.

A summary of other miscellaneous crash data used in the problem identification process is presented by county in Table 14. This table includes the number of crashes by county by year; percent change in the 2000 crash total from the previous four-year average; percentages of crashes involving alcohol, drugs, and speeding; percentage of fatal crashes; percentage of injury-or-fatal crashes; and percentage of drivers using safety belts.

5.0 CITY CRASH STATISTICS

Crash statistics were analyzed for cities by using the 1996 through 2000 crash data. The primary group of cities included in the analysis were those having a population over 2,500 which had a code allowing crash data to be summarized. Incorporated cities in Jefferson County, such as St. Matthews, Jeffersontown, and Shively, were included separately from Louisville. Therefore, for Louisville, only the population of the city area was included instead of a metropolitan area population.

Table 15 is a summary of crash rates for cities having populations more than 2,500 where crash data that could be related to the city for all five years. A city code is recorded in the computer file. Crashes recorded as occurring in the city are included.

Crashes using the city as a reference but recorded as occurring any distance from the city were not included. The cities used were those included with a population in the 2000 census. Table 15 includes 116 cities. There were 10 other cities for which only 2000 data were available and seven for which no data could be obtained. Rates in terms of C/100 MVM are listed for the state-maintained system while rates in terms of crashes per 1,000 population are listed using all streets in the city. The table notes a few cities where no data was available for the state-maintained system. There were also some cities for which only 2000 data were available.

Additional statistics are listed in Table 16 for the 116 cities which had five years of crash data available for analysis. Rates for fatal crashes, pedestrian-motor vehicle crashes, bicycle-related motor vehicle crashes, and motorcycle crashes are provided. Those rates are in terms of crashes per 10,000 population. Percentages of crashes involving speeding or alcohol are also listed.

Total crash rates for all cities listed in the 2000 census are summarized in APPENDIX F (Table F-1). A total of 400 cities was listed with a population in the census. Included for the cities were population, number of crashes, and crash rate (crashes per 1,000 population). However, code for the city was not available for several small cities and there was no data prior to 2000 in a few other cities. This resulted in data being available for 352 cities in Appendix F.

Crashes on the state-maintained system of highways within a city only accounted for a portion of all the crashes occurring within a city. In many instances, this percentage of crashes on the state-maintained system was only a small percentage of total crashes. Therefore, total crash rates were used to determine critical crash rates for cities. Crash rates on the state-maintained system, by city and by population category, are shown in Table 17. The cities are listed in descending order by crash rate. The cities for which a match could not be obtained using city code listed in the HPMS file would not be listed in Table 17. Lexington, Richmond, Erlanger, Cynthiana, Lancaster, and Dry Ridge have the highest crash rate on state-maintained streets in their population category. Cities in the 1,000 to 2,499 population category are also included in this table. This table provides data for 165 cities. The average crash rate for all cities in a category is also listed. The overall rates are highest for cities in the population categories between 10,000 and 60,000. The lowest overall rate is for the 1,000 to 2,499 population category. The large range in rates is related in part to the detail of reporting. For example, the higher rate in Lexington compared to Louisville resulted from the Louisville police not reporting the state route number in many cases. This should change with the new crash report which was started in 2000.

Total crash rates for cities by population category are listed in Table 18. They are tabulated in order of descending crash rates and critical rates are identified. The order of rates for cities is very different in Table 18 compared to Table 17. Twenty-one

cities were identified as having total crash rates above critical. Louisville, Florence, Somerset, London, and Hazard have the highest total crash rates in their respective population ranges. Fatal crash rates, by city and population category, are listed in Table 19. They also are tabulated in order of descending fatal crash rates. Louisville, Paducah, Somerset, Pikeville, and Prestonsburg have the highest fatal crash rates in their respective population ranges with no city identified as having a critical fatal crash rate. Prestonsburg has the highest rate.

6.0 ALCOHOL- AND DRUG-RELATED CRASHES

Alcohol- and drug-related crashes continue to be one of the highest priority problem identification areas and considerable emphasis is being placed on programs to impact those problems. In Kentucky, the number of traffic crashes in which alcohol was listed as a contributing factor on the crash report has averaged about 5,802 per year for the past five years. Alcohol-related fatalities have averaged 223 per year during the past five years (using Fatal Analysis Reporting System data). If the cost of an average motor-vehicle crash is used, the estimated annual cost of alcohol-related crashes in Kentucky is in the range of \$84 to \$234 million depending on the source of the crash cost estimates (economic cost or comprehensive cost from the National Safety Council).

The number of alcohol-related crashes has generally decreased over the past several years. In the early 1980's, the annual number of alcohol crashes was over 10,000. In 1984, there were 9,007 alcohol-related crashes (6.6 percent of all crashes). This number decreased to the relatively constant level of from approximately 7,700 to 8,100 from 1985 through 1990. There was then a gradual reduction in alcohol-related crashes to a low of 5,995 in 1994. The first yearly increase since 1990 occurred in 1995 (to 6,163). The number of alcohol-related crashes decreased to 6,150 in 1996, 6,070 in 1997, and 5,222 in 1998 with a slight increase to 5,441 in 1999. The 2000 total of 6,127 is a 7.1 percent increase compared to the previous four-year average. The number in 1998 was the lowest number since this trend analysis was started in 1978. Alcohol-related crashes represented 4.4 percent of all crashes during the latest five-year period. The number of alcohol-related fatalities in 2000 (196) decreased by 14.5 percent over the 1996 through 1999 average (229). The number in 2000 was the lowest in the five-year period and continued the decreasing trend over the past several years.

To identify alcohol-related crash problem areas, percentages of crashes involving alcohol were summarized for counties and cities as shown in Tables 20 and 21, respectively. In Table 20, number and percentage of crashes involving alcohol were determined by considering all drivers and those under 21 years of age. This allowed a separate analysis for young drivers. The counties are listed by county population group in order of descending percentages of alcohol crashes for all drivers. Counties

in each population category having the highest percentage of crashes, considering all drivers, involving alcohol are Robertson, Magoffin, Marion, Floyd, and Bullitt.

The information provided in Table 20 also may be used to determine the counties that have the highest percentages of crashes involving alcohol for young drivers by county population category. The counties identified as having the highest percentages of alcohol-related crashes, considering only young drivers, were not typically the same as those identified when all drivers were considered. For 16 through 20 years of age drivers, the counties in each population category having the highest percentages of crashes involving alcohol are Owsley, Magoffin, Lawrence, Letcher, and Madison.

Table 21 is a summary of number and percentage of crashes involving alcohol for cities. For each population category, cities having the highest percentages of crashes involving alcohol are Lexington, Covington, Newport, Dayton, and Park Hills.

Additional analyses were performed to show the number and rate of alcohol convictions by county (Table 22). Rates are in terms of convictions per 1,000 licensed drivers and convictions per alcohol-related crash. Five years of conviction data (1996) through 2000) were used in the analysis. The conviction data were obtained from driving records maintained by the Division of Drivers Licensing in the Transportation Those same rates are presented in Table 23 with counties grouped by population ranges and rates are listed in order of descending percentages. Counties in each population group having the lowest rates of alcohol convictions per 1,000 licensed drivers are Robertson, Green, Breckinridge, Oldham, and Jefferson. Counties having the lowest rates of alcohol convictions per alcohol-related crash are Robertson, Owen, Marion, Letcher and Nelson, and Kenton and Pike. Counties having low rates for either convictions per 1,000 licensed drivers or convictions per alcohol-related crash may be candidates for increased enforcement or other special programs (especially if they have a high percentage of alcohol-related crashes). Data in Table 22 (which do not include data for DUI convictions where the county was not specified) show that, statewide, the number of alcohol convictions has remained fairly constant from a low of slightly over 30,000 in 1996 to a high of almost 33,000 in 1998. The number of alcohol convictions in 2000 was slightly lower (2.6 percent) than the average of the previous four years.

A comparison was also made between the total alcohol arrests and total alcohol convictions, by county, for the five years of 1996 through 2000 (Table 24). The arrest data for "driving under the influence" was obtained from the Administrative Office of the Courts (AOC). The statewide percentage of alcohol convictions per arrest over these five years was 72.9 percent. The percentages varied from a low of 44.2 percent in Owsley County to a high of 89.1 percent in Grant County. The percentages would be affected by the overlapping effects of arrests being made and convictions

being prosecuted in different calendar years. Nine counties have a conviction percentage of 85 percent or more (Grant, Hopkins, Caldwell, McLean, Union, Rowan, Fleming, Henderson, and Fayette). Seven counties have a conviction rate under 60 percent (Owsley, Clay, Leslie, Gallatin, Carter, Robertson, and Monroe).

The counties are grouped by population category and are placed in decreasing order of conviction percentage in Table 25. The average conviction percentage did not vary substantially by population category with a range of from 72.7 to 73.8 percent. Counties having the highest conviction percentages in the various population categories are Fayette, Hopkins, Grant, Caldwell, and McLean. Counties having the lowest conviction percentages for the various population categories are Pulaski, Carter, Clay, Leslie, and Owsley.

A drunk-driving offense may be reduced to a charge of reckless driving. This could occur when a person is arrested for drunk driving, because of erratic driving behavior, and field sobriety or BAC tests fail to confirm the drunk-driving charge. In addition, the severity of the penalty for drunk driving could result in a reduction of the drunk-driving charge to reckless driving. For those reasons, it was determined that a summary of reckless driving convictions would be beneficial. Numbers of reckless driving convictions and the rate of convictions per 1,000 licensed drivers for each county are presented in Table 26. In the time period of 1996 through 2000, the highest number of convictions was in 1996. There has been a decrease in the number of reckless driving convictions. The number in 2000 is a 15.7 percent decrease from the average number in the previous four years. The highest rates (convictions per 1,000 licensed drivers) occurred in Clinton, Lyon, Gallatin, Marion, and Nicholas Counties. The lowest rates are in Trimble, Oldham, Spencer, and Knott Counties.

Drugs continue to be listed as a contributing factor in a relatively small percentage of all crashes. However, the number of drug-related crashes increased dramatically in 2000 (31.0 percent) compared to 1999. The 1999 and 2000 data were the only available data which included follow-up studies of drivers from FARS. Only about 500 drug-related crashes had been reported prior to 1999 with the number increasing to 990 in 2000. The number of drug-related injury crashes increased by 59.2 percent in 2000 compared to the previous four-year average. The number of drug-related fatal crashes increased by 18.8 percent in 2000 compared to 1999. There were 133 fatal drug-related crashes in 2000 compared to no more than 15 in previous years when the FARS data were not included in the analysis.

Percentages of crashes involving drugs (as noted by the investigating officer) by county and population category are presented in Table 27. Counties having the highest percentages of drug-related crashes by population category are Lee, Martin, Johnson, Knox, and Pike. The data in Table 27 show most of the counties with the

highest percentages are in southeastern Kentucky. The highest percentages of this type of crash are in Martin and Leslie Counties.

Another summary was prepared to show percentages of crashes involving drugs by city population categories (Table 28). Within each population category, cities having the highest percentages of drug-related crashes were Lexington, Owensboro and Bowling Green and Covington and Richmond and Ashland, Middlesboro, Williamsburg, and Barbourville.

7.0 OCCUPANT PROTECTION

The percentages of drivers of passenger cars involved in traffic crashes who were reported as wearing safety belts were listed by county in Table 14. Those percentages are listed in descending order by county population category in Table 29. Those percentages are for the five-year period of 1999 through 2000. The rates varied from a high of 94.8 percent in Fayette County to a low of 72.7 percent in Robertson County. Observational surveys have been conducted across the state for several years and have shown significantly lower rates than that reported in the crash data. The data in Table 29 can be used to rank counties but cannot be used for absolute percentages since they are substantially higher than observed levels. Considering the five-year study period, 26 counties had rates over 90 percent while only 13 had a rate under 80 percent.

It should be noted that a statewide safety belt law was passed with an effective date in July 1994. Prior to the statewide law, local ordinances had been enacted by several cities and counties. The first such ordinances were enacted in Fayette County effective July 1, 1990 and in the city of Louisville effective July 1, 1991. Similar ordinances were adopted in Jefferson County, Murray, Kenton County, Bowling Green, Corbin, Bardstown, and Midway. Observational surveys conducted since enactment of the local ordinances and statewide law have demonstrated their effectiveness in increasing usage rates.

Even though a statewide safety belt law has been passed, there is a need for continued promotion and enforcement of the law. Counties having potential for intensive promotional campaigns are identified in Table 29. Those counties were selected on the basis of their safety belt usage rate, crash rates, and location in the state. Counties having low usage rates were identified with the criterion of selecting one county from within each of the 16 Kentucky State Police Posts' areas of jurisdiction. When possible, an attempt was made to select counties having high crash rates (either total crash rate or injury or fatal crash rate). Also, an attempt was made to select counties which had not been identified in the past couple of years.

The variances of safety belt usage rate reported by passenger car drivers involved in traffic crashes, by year, from 1996 through 2000 are presented in Table 30 along with the relationship between county population and safety belt usage rate. The reported percentage using safety belts has increased slightly from 1996 through 2000. The annual increase had been decreasing prior to 1994 when there was an increase of almost 14 percentage points from the previous year. This large increase corresponded with the enactment of the statewide safety belt law. It should be noted that the usage rate computed using crash data has been substantially higher than determined from observational surveys. For example, the statewide observational survey for 2000 resulted in a driver usage rate of 60 percent compared to the 92 percent reflected in the crash data. This table also shows the higher usage percentages for counties having over 50,000 population. Counties in the over 50,000 population category had a usage rate about 9 percent higher than for counties in the under 10,000 population category. This difference has been found to be higher in the observation survev.

Safety belts are recognized as an effective method of reducing crash severity. This is confirmed by data presented in Table 31. This table shows that, when a driver of a motor vehicle is wearing a safety belt at the time of an crash, the chance of being fatally injured is reduced by about 95 percent compared to not wearing a safety belt. Also, the chance of receiving an incapacitating injury is reduced by 79 percent and the chance of receiving a non-incapacitating injury is reduced by 67 percent. Safety belts will greatly decrease the possibility of injury in crashes involving large deceleration forces, but some injury or complaint of soreness or discomfort may persist. In many instances, use of seat belts will reduce a severe injury to a less severe injury. The category of "possible injury", which involves a complaint of pain without visible signs of injury, decreased only 34 percent (from 11.12 percent for drivers not wearing safety belts to 7.30 percent for drivers wearing safety belts). The chance of receiving either a fatal or incapacitating injury was reduced by 83 percent. These percentages are high when compared to national statistics concerning the effectiveness of safety belts in reducing fatal or serious injuries. The reason would probably be related to the over reporting of seat belt usage (as shown in Table 30). This would occur more often for drivers who were not injured so there was no physical evidence of whether they were wearing a seat belt.

The change in crash severity for drivers wearing and not wearing a safety belt is presented in Table 32 for the years 1996 through 2000. The reduction in severity from the use of safety belts has remained consistent.

Potential savings associated with increased safety belt usage were estimated and are shown in Table 33. This table lists the annual potential reduction in the number of fatalities, serious injuries (those listed as incapacitating on the crash report), and the associated crash cost savings resulting from that reduction. Those

savings are given for driver usage rates from 70 to 90 percent. To obtain these results, safety belt usage statistics from 1996 through 2000 were used along with an estimate of the economic cost of traffic crashes provided by the National Safety Council (as shown in the footnote in Table 33). The actual number of fatalities and incapacitating injuries for 1996 through 2000 were used along with the average usage rate over this time period. Also used was the reduction associated with safety belt usage of 95 percent for fatalities and 79 percent for incapacitating injuries. Crash cost estimates were \$1,000,000 for a fatality and \$47,900 for an incapacitating injury. For example, if 70 percent of all drivers involved in crashes in Kentucky wore safety belts, there would be a potential annual reduction of about 138 fatalities and a potential annual reduction in the cost of fatalities and serious injuries of approximately 186 million dollars.

A summary of usage and effectiveness of child safety seats for children under the age of four who were involved in traffic crashes is presented in Table 34. Data are for 1996 through 2000. Age categories in the crash file governed the age category that was used. Most children three years of age or younger would be placed in a child safety seat rather than a seat belt or harness. However, many were coded as wearing a safety belt, so the categories of restraint used were 1) none, 2) safety belt or harness, 3) child safety seat, and 4) any restraint.

Of the 51 fatalities (children age three and under) occurring during the study period, 30 involved use of a restraint. The use of a restraint in over one-half of the fatalities would be related to the very high usage rate and possibly to improper usage. Also, of 671 incapacitating injuries, 402 involved use of a restraint. A better measure of effectiveness would be the percentage sustaining a specific injury. This analysis revealed the percentages of fatalities and incapacitating and non-incapacitating injuries were much lower for children who were in a child safety seat or safety belt compared to those using no restraint. Comparison of the "any restraint" and "none" categories revealed there was a 90-percent reduction in fatalities for children in restraints, a 84-percent reduction in incapacitating injuries, a 77-percent reduction in non-incapacitating injuries, and a 55-percent reduction in possible injuries.

An analysis of the percentage of children in restraints revealed the percentage was higher in the rear seat than in the front seat. A comparison of percent usage by year shows a steady increase in the usage rate. The most recent usage rate using the crash data was 96 percent in 2000. This compares to the usage rate of 87 percent found in the 2000 observational survey.

8.0 SPEED-RELATED CRASHES

Speed is one of the most common contributing factors in total crashes and fatal crashes. Speed-related crashes had remained fairly constant at slightly over 10,000 from 1995 through 1997 before decreasing to slightly over 9,000 in 1998 and 1999. The number of speed-related crashes in 2000 increased slightly compared to the past two years but decreased by 3.5 percent in 2000 compared to the previous four-year average. For the five-year period, speed-related crashes represented 7.4 percent of all crashes, 11.6 percent of injury crashes, and 26.2 percent of fatal crashes. The number of speed-related fatal crashes decreased by 26.1 percent in 2000 compared to the previous four- year average. The number of speed-related fatal crashes ranged from a high of 230 in 1997 to a low of 153 in 2000. The number of speed-related injury crashes decreased by 13.4 percent in 2000 compared to the previous four years. The number of speed-related injury crashes ranged from a high of 4,494 in 1996 to a low of 3,682 in 2000.

As a means of analyzing speed-related crashes, crashes having "unsafe speed" coded as a contributing factor were summarized by county and population category in Table 35. When arranged in order of decreasing percentages of speed-related crashes, those counties having the highest percentages in each population category are Menifee, Garrard, Lincoln, Knox, and Pike. There were several counties having a high percentage of speed-related crashes in the southeastern section of the state. A similar summary of crashes involving unsafe speeds for cities was prepared and is presented in Table 36. Those cities having the highest percentages in each population category are Lexington, Hopkinsville, Erlanger, Villa Hills, and Park Hills.

In addition to crash analysis, the other major area of analysis for unsafe speed was speed convictions. Areas having large percentages of crashes involving speeding and low conviction rates are candidates for increased enforcement. Table 37 presents a summary of speeding convictions by county. Numbers of speed convictions, speed convictions per 1,000 licensed drivers, and speeding convictions per speed-related crash are included. The number of speeding convictions ranged from 88,508 in 1996 to 103,126 in 1999.

To assist in identifying areas having the potential for increased enforcement, Table 38 was prepared with speeding conviction rates listed in descending order by county population categories. Within each population category, those counties having the lowest speeding conviction rates per 1,000 licensed drivers are Elliott, Martin, Wayne, Harlan and Letcher, and Pike. The counties identified as having the lowest rates of speeding convictions per speed-related crash are Elliott, Martin, Wayne, Harlan, and Pike. There was a predominance of counties having high percentages of speed-related crashes and low rates of convictions in the southeastern section of Kentucky.

The percentage of vehicles exceeding the 55-mph speed limit was monitored and reported by the Kentucky Department of Highways on a quarterly basis from 1978 through 1994. This requirement was eliminated with federal legislation passed in 1995 which changed speed limit requirements. The speed monitoring program was then ended. As part of a study of Kentucky speed limits, moving speed data were taken on various highway types. Summary of that data for cars and trucks are given in Tables 39 and 40, respectively. The average and 85th percentile speeds are given along with the percent over the current speed limit. The data show the speeds for trucks are less than that for cars and a large percentile of drivers exceed the posted speed limit. The report recommended slight increases in speed limits on some types of roads with the speed limit for cars 5 mph higher than for trucks on some roads. For example, the recommended speed limits on rural interstates and four lane parkways were 70 mph for cars and 65 mph for trucks. Speed limits of 60 mph for cars and 55 mph for trucks were recommended on two lane parkways and rural two lane roads with a full width shoulder.

9.0 TEENAGE DRIVERS

A separate analysis was conducted to determine the frequency of crashes involving teenage drivers. A review of driver records show that teenage drivers account for approximately six percent of licensed drivers in Kentucky. However, crash data show that teenage drivers are involved in a much higher percentage of traffic crashes. Using 2000 data, it was found that teenage drivers were involved in about 22 percent of all crashes, 24 percent of injury crashes, and 17 percent of fatal crashes. Teenage drivers (including drivers with a learner permit) are over represented by a factor of 3.5 in all crashes, 3.8 in injury crashes, and 2.7 in fatal crashes.

The involvement rate of teenage drivers compared to all drivers in total and fatal crashes was analysed (using 2000 data). Considering all crashes, the rate was 49 crashes per 1,000 drivers for all drivers compared to 168 crashes per 1,000 drivers for teenage drivers. Considering fatal crashes, the rate was 26 fatal crashes per 100,000 drivers for all drivers compared to 68 fatal crashes per 100,000 teenage drivers. These rates again show the over representation of teenage drivers in both total and fatal crashes.

10.0 GENERAL CRASH STATISTICS

Several types of general statistics were developed for use in analyses of specific problem areas. Included were crash trends over a five-year period and several types of statistics for crashes involving pedestrians, bicycles, motorcycles, school buses, trucks, and trains.

10.1 CRASH TREND ANALYSIS

An analysis of crash trends over the five-year period is summarized in Table 41. The crashes in 2000 were compared to an average of the preceding four years (1996-1999). There was an increase in total crashes (2.6 percent) when comparing 2000 to the previous four years. It should be noted that crashes in parking lots were not included in the analysis.

The highest number of crashes occurred in 2000 (135,079) with the lowest number occurring in 1998 (125,698). The number in 1998 was affected by incomplete data submitted from Jefferson County at the time of data analysis. When the subsequent reports are considered, the number of crashes in 1998 was very similar to the other years. This did not affect the number of reported fatal crashes in 1998. The number of fatal crashes and fatalities in 2000 decreased compared to the previous four-year average. The number of fatal crashes decreased by 4.3 percent while the number of fatalities decreased by 3.1 percent. The number of fatalities ranged from 819 in 1999 to 869 in 1998. The number of injury crashes and injuries in 2000 was slightly lower than the previous four-year average. There was a 3.2 percent decrease in injury crashes with a 3.5 percent decrease in injuries. The number of injuries varied from 52,952 in 1998 to 56,342 in 1997.

Vehicle-miles traveled has generally increased over the five-year period. The increase in vehicle miles traveled (2.7 percent) was almost the same as the increase in the number of crashes which resulted in the total crash rate in 2000 being almost equal to the previous four-year average (decrease of 0.5 percent). There were larger decreases in the fatal crash rate (7.0 percent) and fatality crash rate (6.0 percent). The total crash rate varied from a low of 270 C/100 MVM in 1998 to 317 C/100 MVM in 1996. The fatality crash rate in 2000 was close to 1999 which had the lowest rate in this five-year period. There has been a downward trend in the fatality crash rate over the past several years.

Trends in the number of specific types of crashes also are presented in Table 41. Those trends are discussed in the section dealing with that crash category.

There was a total of 661,712 crashes in the five-year period, of which 3,749 (0.6 percent) were fatal crashes and 178,202 (26.9 percent) were injury crashes. Those crashes resulted in 4,222 fatalities and 273,283 injuries. There is a large range used when estimating crash costs. Using National Safety Council estimates of motor vehicle crash cost, considering economic or comprehensive costs, results in an estimate for 2000 of 1.9 to 5.4 billion dollars for the cost of Kentucky traffic crashes or an average cost of \$14,400 to \$40,300 per crash.

Additional general statistics compiled by county for crashes involving pedestrians, bicycles, motorcycles, school buses, and trucks are included in Table 42. Numbers of crashes and average annual crashes per 10,000 population were included.

10.2 PEDESTRIAN CRASHES

The number of pedestrian crashes decreased by 1.9 percent in 2000 compared to the period 1996 through 1999. The number of crashes has remained fairly constant from 1996 through 2000 with a range of from 1,077 to 1,197. Pedestrian collisions are a severe type of crash. In 2000, pedestrian crashes accounted for only 0.8 percent of all crashes but 2.6 percent of injury crashes and 7.2 percent of fatal crashes. The number of injury crashes decreased by 11.9 percent in 2000 while the number of fatal crashes decreased by 12.6 percent in 2000 compared to the 1996 through 1999 average. Injury crashes ranged from 907 in 2000 to 1,085 in 1996 while fatal crashes ranged from 52 in 2000 to 65 in 1998.

A summary of pedestrian crash statistics by county and population category is presented in Table 43. Numbers of crashes and annual crash rates per 10,000 population are included. From the listing of crash rates in descending order, the following counties have the highest rates in each population category: Wolfe, Washington, Mason, Henderson, and Kenton. A similar analysis was performed for pedestrian crashes by city and population category. Results are summarized in Table 44 and the following cities have the highest rates in their respective population categories: Louisville, Covington, Newport, Pikeville, and Springfield. Newport and Covington had substantially higher rates than any other city.

10.3 BICYCLE CRASHES

Numbers and rates of motor-vehicle crashes involving bicycles by county are listed in Table 45. Counties were grouped by population category. The counties having the highest crash rate in each category are Fulton, Carroll, Mason, Henderson, and Campbell. A similar summary was prepared for cities and the results are presented in Table 46. Cities having the highest rate of bicycle-related crashes in each population category are Louisville, Covington, Newport, Bellevue, and Carrollton. The rate in Newport was substantially above any other city.

The number of bicycle crashes decreased in 2000 (8.7 percent) compared to the average of 1996 through 1999. The number of bicycle crashes has ranged from 582 in 2000 to 695 in 1996. This is a severe type of crash. In 2000, while bicycle crashes accounted for 0.4 percent of all crashes, they accounted for 1.3 percent of injury crashes and also 0.6 percent of fatal crashes. The number of injury crashes decreased by 13.1 percent in 2000 while the number of fatal crashes decreased by 54 percent compared to the 1996 through 1999 average. The range in injury crashes was from 448 in 2000

to 557 in 1996 while the number of fatal crashes ranged from 4 in 2000 to 10 in 1997 and 1999.

10.4 MOTORCYCLE CRASHES

County and city statistics for crashes involving motorcycles are presented in Tables 47 and 48, respectively. For each population category, counties having the highest rates for motorcycle crashes per 10,000 population are Lyon, Carroll and Leslie, Breathitt, Boyd and Hopkins and Floyd, and Pike (Table 47). The highest rate is in Pike County. From Table 48, those cities having the highest rates in each population category are Louisville, Paducah, Madisonville, Pikeville, and Prestonsburg.

There was a major increase in the number of motorcycle crashes in 2000 (32.5 percent) compared to the 1996 through 1999 average. The numbers over the five-year period ranged from a high of 1,033 in 1999 to a low of 736 in 1997. This is a severe type of crash. Data in 2000 show that motorcycle crashes accounted for 0.8 percent of all crashes but 2.3 percent of injury crashes and 5.0 percent of fatal crashes. The number of injury crashes increased by 24.2 percent while the number of fatal crashes increased by 18.0 percent in 20000 compared to the 1996 through 1999 average. The number of injury crashes ranged from 565 in 1997 to 797 in 2000 while the number of fatal crashes ranged from 25 in 1996 to 42 in 1999. It should be noted that 1999 was the first full year after repeal of the law requiring a motorcyclist to wear a helmet and this corresponded to the increase in the number of all types of crashes.

10.5 SCHOOL BUS CRASHES

School bus crash statistics were summarized for counties and cities and results are presented in Tables 49 and 50. Table 49 lists numbers and rates of school bus crashes by county and population category. Counties having the highest rates in each population category are Trimble, Leslie, Montgomery, Jessamine, and Jefferson. A similar summary was prepared for cities by population categories, as shown in Table 50. Those cities having the highest rates in each population category are Louisville, Hopkinsville, Nicholasville, London, and Hazard. The highest rate was in London.

The trend analysis presented in Table 41 indicates there was an increase in this type of crash in 2000 (22.0 percent increase) compared to the 1996 through 1999 average. The annual number of this type of crash ranged from a high of 932 in 2000 to a low of 648 in 1999. The number of injury crashes ranged from 150 in 1997 to 93 in 1996. There was one fatal crash involving a school bus in 2000.

10.6 TRUCK CRASHES

Truck crashes included both single unit and combination trucks. A truck is defined as a a vehicle with a registered weight of 10,000 pounds or more. A summary of those crashes by county is given in Table 51. Counties having the highest rates in each population category are Gallatin, Carroll, Simpson, Scott, and Boone. All of these counties contains at least one interstate highway. Other counties having a high rate either contained an interstate highway or had a large amount of coal truck traffic.

The trend analysis showed there was a large increase in the number of truck crashes in 2000 (22.6 percent) compared to the previous four-year average. This large change may be partially related to the "type of unit" coding started with the new collision report. The number of truck crashes ranged from a high of 10,276 in 2000 to a low of 7,642 in 1999. The increase in total crashes in 2000 reversed the decreasing trend over the past several years. The number of injury crashes increased by 16.5 percent while the number of fatal crashes decreased by 7.4 percent in 2000 compared to the 1996 through 1999 average. The number of injury crashes ranged from 1,665 in 1999 to 2,292 in 1996 while the number of fatal crashes ranged from 82 in 1999 to 108 in 1997. Considering the five year period, truck crashes represent 6.6 percent of all crashes, 5.4 percent of injury crashes, and 12.5 percent of fatal crashes.

10.7 TRAIN CRASHES

A summary of motor vehicle-train crashes by county is presented in Table 52. Counties having the highest rates in each population category are Lee, Todd, Grant, Hopkins, and Pike. The highest rate is in Todd County with the highest number in Jefferson County. There were no train crashes in 55 of the 120 counties in the five-year period of 1996 through 2000. Several of the counties with the highest rates in their population category were in counties with a large amount of coal production.

The trend analysis for motor vehicle-train crashes is given in Table 41. There was a range in train crashes from 79 in 1996 to 57 in 1997 and 1999. The number of train crashes in 2000 was 10.3 percent less than the 1996 through 2000 average. The number of injury crashes decreased by 15.3 percent compared to the 1996 through 2000 average with a range of from 16 in 1999 to 25 in 1998. The number of fatal crashes ranged from two to four over the five-year period.

10.8 VEHICLE DEFECTS

The requirement for an annual vehicle inspection was repealed in 1978. A summary of the involvement of vehicle defects in crashes before and after repeal of that law is presented in Table 53. The percent of crashes involving a vehicle defect was 5.86 percent before repeal of the vehicle inspection law. The percent increased to 7.09 in the

first 19 months after repeal of the law but has decreased since that time. Starting in 1993, the percentage of crashes involving a vehicle defect was lower than that noted prior to repeal of the vehicle inspection requirement. The percent of crashes in which a vehicle defect was noted on the report was 4.95 percent in 2000.

11.0 SUMMARY AND RECOMMENDATIONS

11.1 STATEWIDE CRASH RATES

For the high-crash-location safety improvement program in Kentucky to be successful, procedures for identifying high-crash locations and scheduling improvements must be used. A computer program has been developed to identify high-crash locations. Vital inputs into this program are average and critical crash numbers and rates for rural and urban highway classifications. Various crash rates are presented throughout the report text, tables, and appendices which can be used to implement a safety improvement program.

Each crash must be identified accurately to perform a complete crash analysis. In past years, many crashes that occurred on a state-maintained road did not have the necessary route and milepoint information to be included in the detailed analysis. Efforts have been made as part of the implementation of the new collision report form to increase the number of crash reports having the necessary location information. Part of this effort should be to inform the investigating agencies of the importance of placing the proper route and milepoint for all crashes occurring on state maintained roads. The roadway reference log has been updated to provide a more comprehensive list of milepoints which should be used.

The fatal crash rate on rural, two lane roadways is much higher than any road type. The factors contributing to this high rate have with investigated with countermeasures recommended. An effort should be made to review and implement as many of these countermeasures as practical.

11.2 COUNTY AND CITY CRASH STATISTICS

The various types of crash rates calculated and included in this report were used in the analysis of various problem identification areas.

In the past, a program was available to provide funds for the purchase of appropriate traffic signs to bring signing on city and county streets and roadways into compliance with the standards and guidelines included in the Manual on Uniform Traffic Control Devices. A large number of cities have taken advantage of this program which was expanded to include counties. Funding for this program has not been

provided in the past few years. Efforts should be made to renew funding of the program. The following cities have critical crash rates (as shown in Table 18) but have not been included in this signing program. It is recommended that, if funding again becomes available, they be considered as candidates for participation in the program.

- 1. Shively
- 2. Crestview Hills
- 3. Prestonsburg
- 4. Mt. Vernon
- 5. Cold Spring
- 6. Grayson
- 7. Wilder

11.3 ALCOHOL-RELATED CRASHES

1. The number of alcohol-related crashes increased in 2000 compared to the previous four-year average but has decreased from the level prior to 1996. There has been a decrease in the number of alcohol-related fatal crashes and fatalities. This may be related to increased enforcement and public information campaigns in the past several years that have increased public awareness.

As part of the analysis, percentages of alcohol-related crashes were tabulated for counties and cities. In addition, alcohol conviction rates were tabulated by county. Those counties having relatively high percentages of alcohol-related crashes (Table 20) and low average numbers of alcohol convictions per alcohol crash (Table 23) were identified as potential locations where increased enforcement may be beneficial. Counties were also required to have 100 or more alcohol-related crashes during the five-year analysis period to be considered as potential counties for the increased alcohol-related enforcement program. Following is a list of those counties by State Police Post (reference was made to the counties recommended in the past few years).

Post Number	County
1	Marshall
2	Muhlenberg
3	Allen
4	Grayson
5	Henry
6	Pendleton
7	Estill
8	Lewis
9	Magoffin

Post Number	County
10	Harlan
11	Pulaski
12	Shelby
13	Leslie
14	Boyd
15	Russell
16	Ohio

- 2. An analysis was performed for cities similar to that for counties. However, alcohol conviction rates were not available for cities and consideration was given to conviction rates for counties within which a city was located. Again, the criterion of 100 or more alcohol-related crashes within a five-year period was applied (Table 21) along with the percentage of crashes involving alcohol. The following are candidate cities for a program of increased alcohol enforcement.
 - 1. Covington
 - 2. Richmond
 - 3. Newport
 - 4. Nicholasville
 - 5. Shively

11.4 OCCUPANT PROTECTION

1. Even though a statewide safety belt law has been passed, efforts to increase safety belt usage must continue. The various types of safety belt programs which have been conducted in several locations across the state in the past should continue. These programs have the objectives of increasing awareness of risks of traffic crashes, increasing understanding of benefits of safety belt usage, and providing assistance to organizations willing to promote safety belt usage. Enforcement of the statewide law should be another objective of these programs. The success of the Click It or Ticket Campaign conducted around the Memorial Day holiday in 2000 shows that these types of programs can be effective when implemented on a statewide level. Usage rates and crash rates were considered when choosing candidates for more intensive promotion and enforcement campaigns. Consideration was given to past campaign recommendations and the location in the state (State Police Post). Since safety belt usage is lower in rural areas, counties in the more rural areas of the posts were identified when possible. These counties were identified in Table 29. A list of those counties, by State Police Post, follows.

Post Number	County
1	Hickman
2	Todd
3	Allen
4	Meade
5	Trimble
6	Bracken
7	Jackson
8	Elliott
9	Martin
10	Harlan
11	Clay
12	Shelby
13	Breathitt
14	Lawrence
15	Clinton
16	Ohio

- 2. To maintain up-to-date usage statistics and to monitor the effect of the statewide safety belt law, annual statewide observational surveys should continue to be conducted.
- 3. The current statewide law allows secondary type of enforcement. To obtain a substantial increase in usage, the current law should be modified to allow primary, rather than secondary, enforcement. As a minimum, primary enforcement should apply to drivers while they are in the permit and intermediate phase of the graduated license program.

11.5 SPEED-RELATED CRASHES

1. Unsafe speed has been shown to be a primary contributing factor in fatal crashes and a common contributing factor in all crashes. Those counties having high percentages of speed-related crashes (Table 35) and low average number of speeding convictions per speed-related crash (Table 38) were identified as possible locations for increased enforcement. Locations meeting the criteria for crashes and convictions also were required to have at least 150 speed-related crashes during the five-year study period and speed-related crashes were at least 7.5 percent of total crashes. The following is a list of counties (tabulated by State Police Post) recommended for programs of increased speed enforcement (reference was made to the counties recommended in the past few years).

Post Number	County
1	Calloway
2	Webster
3	Hart
4	Grayson
5	Trimble
6	Grant
7	Estill
8	Morgan
9	Martin
10	Bell
11	\mathbf{W} hitley
12	Spencer
13	Leslie
14	Lawrence
15	Russell
16	Union

- 2. By analyzing speed-related crash rates for cities and applying the criterion of at least 150 crashes during the five-year period and speed related crashes of five percent or more of total crashes (Table 36), the following cities were recommended for additional programs of speed enforcement:
 - 1. Lexington
 - 2. Hopkinsville
 - 3. Bowling Green
 - 4. Frankfort
 - 5. Richmond
 - 6. Erlanger
 - 7. Independence
 - 8. Somerset
 - 9. Pikeville
- 3. Increased speed enforcement should be implemented on roads that have been identified as having the highest percentage of speed-related crashes. Consideration should be given to the types of roadways that have the highest crash rates. This would indicate more enforcement on rural two-lane and four-lane (non-interstate and parkway) roadways as opposed to interstate and parkways which have much lower crash rates.
- 4. Federal legislation has changed allowing states to increase speed limits to above the 55 mph and 65 mph limits. Data show current speeds do not reflect speed

limits on several types of highways. There is a need to review current speed limits and establish speed limits based on the 85th percentile speed. Recommendations for speed limits on various types of roads in Kentucky have been developed.

11.6 TEENAGE DRIVERS

- 1. Graduated licensing legislation was passed in the 1996 Kentucky legislature as a method to restrict teenage drivers from being exposed to driving environments which surpass their driving experience. The effectiveness of this legislation should be evaluated.
- 2. The evaluation of the graduated license program shows a reduction in crashes for 16-year-old drivers while they are in the permit phase but this reduction has not been found to continue. These results indicate the need for increasing restrictions on teenage drivers who have completed the permit stage.
- 2. The lack of driving experience would be related to the over representation of teenage drivers in traffic crashes. Experience is particularly important when it is necessary to take an evasive maneuver. The use of an advanced technology driving simulator should be considered as a method of allowing teenage drivers to gain experience of real world driving situations without the on-the-road risks.

11.7 GENERAL CRASH STATISTICS

Pedestrians

The crash rate analyses identified Newport and Covington as cities having substantially higher pedestrian crash rates than any other city (Table 44). A study to determine factors contributing to this problem in those cities and recommendations for improved traffic control measures, increased police enforcement, or driver and pedestrian education programs is warranted.

Bicycles

Newport and Covington also had a high crash rate in their population category for this type of crash (Table 46) (as with pedestrian crashes). A study of this type of crash could be included with the previously mentioned study of pedestrian crashes.

Motorcycles

1. Pike County had the highest crash rate in the state (Table 47) as did the city of Pikeville (Table 48) which is in Pike County. Also, McCracken County had the second highest rate of crashes in its population category while the city of Paducah (in

McCracken County) had the highest rate of this type of crash in the state. Evaluations of this type of crash in these counties and cities are warranted.

2. The law requiring motorcyclists to wear a helmet was repealed in the 1998 legislature. Observations have shown the helmet usage rate has dramatically decreased. Also, the number of fatal crashes increased dramatically in 1999 and 2000 along with a substantial increase for total and injury crashes. An investigation should be made to determine if this increase was related to the repeal of the helmet law. The combination of the lowering in usage rate and increase in fatal crashes support the need to reenact the requirement for the use of motorcycle helmets.

Truck Crashes

Counties with a large number of truck crashes either contained an interstate highway or had a large amount of coal truck traffic. Volume counts show that interstate highways have a high percentage of truck traffic. Coal trucks are hauling on an extended weight system which allows heavy loads. A recent research report conducted by the University of Kentucky investigated heavy truck involvement in traffic crashes and recommended countermeasures related to the vehicle, driver, or roadway. Implementation of these countermeasures should be considered.

Vehicle Defects

The percentage of crashes involving vehicle defects increased after repeal of the vehicle inspection law. It could be concluded that the repeal of that law resulted in additional crashes involving vehicle defects. However, the percentage of crashes involving a vehicle defect has decreased in recent years with the percentage starting in 1993, and continuing through 2000, less than before repeal of the inspection law. A study could be conducted to determine whether the defects that have contributed to crashes since repeal of the vehicle inspection law were of the type that might have been detected under the previous inspection program. That study could also reveal types of inspections necessary to detect defects contributing to crashes.

TABLE 1. COMPARISON OF 1996 - 2000 CRASH RATES*

STATISTIC	1996	1997	1998	1999	1996-1999 Average	2000	Percent Change***	
Crashes	77,204	84,917	79,301	79,893	80,329	89,480	11.4	
Mileage	27,808	23,272	27,881	28,081	26,761	27,941	4.4	
Crashes Per Mile	2.78	3.65	2.84	2.85	3.03	3.20	5.6	
Vehicle Miles (Billion)	36.29	36.90	39.11	40.56	38.22	40.92	7.1	
AADT `	3,575	4,344	3,843	3,958	3,930	4,013	2.1	
Crash Rate**	213	230	203	197	211	219	3.9	
Fatal Crash Rate**	1.54	1.66	1.61	1.46	1.57	1.44	-8.1	
Injury Crash Rate**	64	69	61	58	63	60	-4.8	

Data apply to streets and highways having known traffic volumes, route numbers, and mileposts.

TABLE 2. STATEWIDE RURAL CRASH RATES BY HIGHWAY TYPE CLASSIFICATION (1996-2000)

	TOTAL		(CF	CRASH RATE ASHES PER 10	
HIGHWAY TYPE	MILEAGE*	AADT	ALL	INJURY	FATAL
One-Lane	44	940	140 '	42	1.3
Two-Lane	22,494	1,590	250	86	3.0
Three-Lane	30	5,260	252	82	1.8
Four-Lane Divided (Non-Interstate or Par	486 kwav)	11,220	117	40	1.5
Four-Lane Undivided	47	15,260	247	66	1.5
Interstate	526	29,620	51	14	0.7
Parkway	566	8,850	58	16	0.8
All	24,194	2,590	173	58	2.1

^{*} Average for the five years.

^{**} Crash Rates are given in terms of crashes per 100 million vehicle-miles (C/100 MVM).

^{***} Percent change from 1996 through 1999 average to 2000.

TABLE 3. STATEWIDE URBAN CRASH RATES BY HIGHWAY TYPE CLASSIFICATION (1996-2000)

	TOTAL		(CF	CRASH RATE RASHES PER 10	_
HIGHWAY TYPE	MILEAGE*	AADT	ALL	INJURY	FATAL
Two-Lane	1,833	6,930	323	83	0.9
Three-Lane	32	12,420	509	112	0.8
Four-Lane Divided (Non-Interstate or Part	371 kwav)	23,560	321	84	8.0
Four-Lane Undivided	260	19,180	519	130	1.0
Interstate	232	65,670	96	23	0.4
Parkway	51	11,870	104	24	1.0
All **	2,803	15,500	268	68	0.7

^{*} Average for the five years.

TABLE 4. COMPARISON OF 1996 - 2000 CRASH RATES BY RURAL AND URBAN HIGHWAY TYPE CLASSIFICATION

LOCATION	HIGHWAY TYPE	1996	1997	1998	1999	1996-1999 Average	2000	Percent Change*
	0 1	0.47	005	,	50	000	005	05.0
Rural	One-Lane	217	365	269	53	226	285	25.9
	Two-Lane	236	267	254	236	248	255	2.7
	Three-Lane	230	474	269	198	293	142	-51.5
	Four-Lane Divided (Non-Interstate or Par	102 kway)	124	115	120	115	124	7.4
	Four-Lane Undivided	182	241	237	241	225	341	51.5
	Interstate	60	52	46	50	52	51	-1.6
	Parkway	68	60	54	50	58	61	5.5
	All	170	183	174	163	173	177	2.8
Urban	Two-Lane	333	363	301	285	320	333	4.0
	Three-Lane	513	572	475	430	498	547	10.0
	Four-Lane Divided	314	356	305	311	321	323	0.4
	Four-Lane Undivided	525	568	467	485	511	546	6.8
	Interstate	106	99	84	94	96	98	2.0
	Parkway	114	107	98	103	106	98	-6.9
	All	274	296	245	247	265	278	4.6

^{*} Percent change from 1996 through 1999 to 2000.

^{**} Includes small number of one-, five-, and six-lane highways.

TABLE 5. STATEWIDE CRASH RATES FOR "SPOTS" BY HIGHWAY TYPE CLASSIFICATION (1996-2000)

RURAL OR URBAN	HIGHWAY TYPE	NUMBER OF CRASHES	NUMBER OF SPOTS*	MILLION VEHICLES PER YEAR	CRASHES PER MILLION VEHICLES PER SPOT
Rural	One-Lane Two-Lane Three-Lane Four-Lane Divided (Non-Interstate or Parkway Four-Lane Undivided Interstate Parkway All Rural	106 162,882 716 11,673) 3,219 14,642 5,335 198,573	147 74,981 99 1,619 156 1,753 1,888 80,645	0.34 0.58 1.92 4.09 5.57 10.81 3.23 0.95	0.42 0.75 0.76 0.35 0.74 0.15 0.17
Urban	Two-Lane Three-Lane Four-Lane Divided Four-Lane Undivided Interstate Parkway All Urban**	74,794 3,681 51,269 47,244 26,647 1,152 212,212	6,111 106 1,236 867 773 170 9,343	2.53 4.53 8.60 7.00 23.97 4.33 5.66	0.97 1.53 0.96 1.56 0.29 0.31 0.80

^{*} Average for the five years. The length of a spot is defined to be 0.3 mile. ** Includes small number of miles of one-, five-, and six-lane highways.

TABLE 6. STATEWIDE AVERAGE AND CRITICAL NUMBERS OF CRASHES FOR "SPOTS" AND ONE-MILE SECTIONS BY HIGHWAY TYPE CLASSIFICATION (1996-2000)

RURAL		CRASHES P	ER SPOT*	CRASHES PER ONE-MILE SECTION		
OR URBAN	HIGHWAY TYPE	AVERAGE	CRITICAL NUMBER	AVERAGE	CRITICAL NUMBER	
Rural	One-Lane Two-Lane Three-Lane Four-Lane Divided (Non-Interstate or Parkway) Four-Lane Undivided Interstate Parkway All Rural	0.72 2.17 7.26 7.21 20.63 8.35 2.83 2.46	3 6 15 15 33 16 8 7	2.40 7.24 24.19 24.03 68.78 27.84 9.42 8.21	7 15 37 37 91 42 18 16	
Urban	Two-Lane Three-Lane Four-Lane Divided Four-Lane Undivided Interstate Parkway All Urban**	12.24 34.62 41.47 54.49 34.46 6.76 22.71	22 50 59 74 50 14 35	40.80 115.38 138.24 181.63 114.87 22.53 75.71	58 144 169 217 143 35 99	

^{*} The length of a spot is defined to be 0.3 mile.
** Includes small number of miles of one-, five-, and six-lane highways.

TABLE 7. CRASH RATES BY COUNTY FOR STATE-MAINTAINED SYSTEM AND ALL ROADS (1996-2000)

							`	
						ROADS		
	STATE-MAIN		TOTAL CRASHES	S	FATAL CRASHE			R INJURY ASHES
COUNTY	TOTAL CRASHES	CRASH RATE*	NUMBER	RATE*	NUMBER	RATE*	NUMBER	RATE*
Adair	1,535	200	2,347	252	23	2.5	610	66
Allen	1,350	231	2,106	289	18	2.5	661	91
Anderson Ballard	1,677 753	196 182	2,359 1,116	229 225	21 12	2.0 2.4	690 368	67 74
Barren	3,278	165	6,556	280	32	1.4	2,061	88
Bath	1,177	157	1,593	189	16	1.9	483	57
Bell	2,318	175	3,445	228 262	28 52	1.9	1,157	77 64
Boone Bourbon	12,308 2,244	217 250	16,985 3,395	202 317	32 32	0.8 3.0	4,152 973	91
Boyd	5,362	247	10,179	390	20	0.8	2,613	100
Boyle	3,256	308	4,697	360	32	2.5	1,240	95
Bracken Breathitt	954 1,755	233 250	1,303 2,147	269 263	12 31	2.5 3.8	381 989	79 121
Breckinridge	1,070	169	1,390	170	21	2.6	556	68
Bullitt	4,756	141	6,520	. 165	42	1.1	1,898	48
Butler	960	136	1,209	145	18	2.2 1.9	414	50
Caldwell Calloway	1,179 2,456	147 225	1,811 3,586	192 259	18 28	2.0	501 1,065	53 77
Campbell	7,897	238	14,113	349	38	0.9	2,939	73
Carlisle	227	85	272	84	7	2.2	107	33
Carroll Carter	1,676 2,503	162 150	2,182 3,554	192 185	14 44	1.2 2.3	594 1,145	52 60
Casey	777	146	1,078	162	22	3.3	356	54
Christian	7,222	207	9,892	251	48	1.2	2,842	72
Clark Clay	3,140 1,730	155 168	6,054 2,270	258 191	34 47	1.5 4.0	1,435 946	61 80
Clinton	1,730 556	140	2,270 749	155	13	2.7	222	46
Crittenden	881	261	1,111	261	20	4.7	418	98
Cumberland Daviess	332 8,128	105 252	472 17,158	124 421	17 53	4.5 1.3	145 3,966	38 97
Edmonson	847	185	1,126	200	14	2.5	402	72
Elliott	422	238	511	230	.8	3.6	197	89
Estill Fayette	1,351 30,758	275 295	1,911 62,177	304 496	18 118	2.9 0.9	643 14,187	102 113
Fleming	949	175	1,448	211	19	2.8	494	72
Floyd	4,287	182	5,260	196	67	2.5	2,418	90
Franklin Fulton	5,581 614	237 189	7,977 1,047	285 272	38 10	1.4 2.6	1,811 329	65 86
Gallatin	933	97	1,122	108	4	0.4	388	37
Garrard	1,479	259	1,918	277	20	2.9	627	91
Grant	3,297 3,147	157 182	4,288 4,965	185 239	29 42	1.3 2.0	1,178 1,435	51 69
Graves Grayson	1,912	144	2,344	150	30	1.9	998	64
Green	887	232	1,290	269	11	2.3	388	81
Greenup	2,676	196	3,995	236 169	30 12	1.8 2.4	1,284 300	76 59
Hancock Hardin	624 10,408	147 196	857 13,549	221	72	1.2	3,393	55 55
Harlan	2,918	204	3,768	221 225	34	2.0	1,300	77
Harrison	1,874	365	2,742	408	21	3.1	739	110
Hart Henderson	1,664 5,993	97 232	2,105 9,719	113 324	39 36	2.1 1.2	692 2,396	37 80
Henry	1,632	133	1,950	142	22	1.6	599	44
Hickman	398	131	515	146	9	2.5	188	53
Hopkins	5,642	205	8,215 1,257	257 259	39 13	1.2 2.5	1,947 540	61 103
Jackson Jefferson	1,000 68,773	241 249	1,357 141,202	425	359	1.1	32,662	98
Jessamine	4,354	304	6,302	345	31	1.7	1,560	85
Johnson	2,170	212	2,801	228	21	1.7	1,143	93 87
Kenton Knott	16,594 1,446	275 170	28,455 1,755	394 180	47 27	0.7 2.8	6,317 778	. 87 80
Mot	1,0770	170	.,,,,			•		

TABLE 7. CRASH RATES BY COUNTY FOR STATE-MAINTAINED SYSTEM AND ALL ROADS (1996-2000)(continued)

			TOTAL	 	ALL F FATAL	ROADS	FATAL C	D IN II II
	STATE-MAIN		CRASHES	3	CRASHE	S		ASHES
COUNTY	TOTAL CRASHES	CRASH RATE*	NUMBER	RATE*	NUMBER	RATE*	NUMBER	RATE
C nox	2,718	211	3,837	256	37	2.5	1,470	9
_arue	1,284	162	1,694	183	12	1.3	489	5
_aurel	6,356	199	8,280	226	65	1.8	2,524	. 6
awrence	961	106	1,449	140	18	1.7	539	5
_ee	415	163	569	180	13	4.1	212	6
eslie	972	157	1,258	178	36	5.1	673	ğ
etcher	2,330	204	2,968	219	31	2.3	1,237	ğ
.ewis	1,135	175	1,576	207	33	4.3	539	7
incoln	1,532	154	2,050	174	31	2.6	848	7
ivingston	924	153	1.072	155	9	1.3	373	
.ogan	2,473	207	3,436	240	27	1.9	1,007	7
.yon	970	95	1,229	113	<u>1</u> 3	1.2	380	į
//cCracken	7,193	219	14,019	360	64	1.6	4,004	10
McCreary	1,140	194	1,455	207	26	3.7	546	7
McLean	998	214	1,177	200	13	2.2	367	é
Madison	9,043	238	13,059	307	85	2.0	3,352	7
Magaffin		170	1,295	180	16	2.2	648	έ
Magoffin	1,059		1,290	314	27	3.4	729	Ş
Marion	1,771	282	2,454	314	37	3.4 1.5	1,164	2
Marshall	2,930	144	3,817	155				
Martin	1,130	166	1,341	170	11	1.4	544	9
Mason	2,618	252	4,004	341	34	2.9	925	7
Meade	2,084	202	2,575	206	27	2.2	856	6
<i>l</i> jenifee	441	214	535	205	7	2.7	220	
/lercer	2,004	233	3,093	292	11	1.0	944	٤
<i>M</i> etcalfe	809	163	1,049	179	14	2.4	307	Ę
M onroe	574	148	914	186	17	3.5	309	9
Montgomery	2,537	224	3,776	277	30	2.2	1,020	7
Morgan	1,341	245	1,554	237	21	3.2	626	9
Muhlenberg	3,511	216	4,856	252	46	2.4	1,475	7
Nelson	3,996	215	5,594	254	47	2.1	1,463	6
Vicholas	528	168	824	218	6	1.6	246	6
Ohio	2,166	144	2,741	160	28	1.6	988	5
Oldham	3,727	196	4,537	198	21	0.9	1,214	5
Owen	939	275	1,221	282	12	2.8	428	9
Owsley	310	185	385	188	6	2.9	129	
Pendleton	1,358	302	1,951	336	18	3.1	601	10
Perry	3,415	231	5,145	294	40	2.3	1,950	11
Pike	7,631	221	10,928	269	107	2.6	4,805	11
Powell	1,184	148	1,792	197	22	2.4	589	9
Pulaski	6,162	250	8,667	286	60	2.0	2,307	7
Robertson	75	115	98	113	1	1.2	44	5
Rockcastle	1,845	94	2,256	107	24	1.1	776	3
Rowan	3,315	268	4,167	296	22	1.6	1,129	
Russell	1,271	177	1,644	194	16	1.9	525	. 6
Scott	4,107	133	6,577	195	40	1.2	1,770	5
Shelby	4,020	166	5,454	200	51	1.9	1,439	. 5
Simpson	2,039	145	2,663	171	25	1.6	725	4
Spencer	819	210	1,033	210	15	3.1	343	7
aylor	2,329	276	3,674	346	17	1.6	887	8
[odd	936	202	1,269	224	17	3.0	412	-
[rigg	1,084	138	1,586	178	16	1.8	497	5
rimble	854	284	1,037	280	9	2.4	314	8
Inion	1,771	238	2,321	263	16	1.8	724	8
Varren	12,783	256	20,064	347	73	1.3	5,496	Ş
Vashington	1,016	183	1,414	215	18	2.7	413	6
Vayne -	1,678	246	2,343	277	24	2.8	711	8
Nebster	1,612	181	1,963	191	12	1.2	653	6
Whitley	3,488	137	5,086	176	54	1.9	1,585	Ę
Nolfe *	803	155	1,057	182	21	3.6	388	6
Voodford	2,194	177	3,510	242	35	2.4	926	(

Table 8. COUNTY POPULATIONS (2000 CENSUS) IN DESCENDING ORDER

COUNTY	POPULATION	COUNTY	POPULATION	COUNTY	POPULATION
Jefferson	693,604	Meade	26,349	Jackson	13,495
Fayette	260,512	Letcher	25,277	Larue	13,373
Kenton	151,464	Clay	24,556	Magoffin	13,332
Hardin	94,174	Grayson	24,053	Powell	13,237
Warren	92,522	Johnson	23,445	Caldwell	13,060
Daviess	91,545	Lincoln	23,361	Butler	13,010
Campbell	88,616		23,208	Trigg	12,597
Boone	85,991	Taylor	22,927	Martin	12,578
Christian	72,265	Ohio	22,916	Leslie	12,401
Madison	70,872	Montgomery	22,554	Todd	11,971
Pike	68,736	Grant	22,384	Spencer	11,766
McCracken	65,514	Rowan	22,094	Monroe	11,756
Bullitt	61,236	Mercer	20,817	Edmonson	11,644
Pulaski	56,217	Wayne	19,923	Green	11,518
Laurel	52,715	Bourbon	19,360	Bath	11,085
Boyd	49,752	Anderson	19,111	Washington	10,916
Franklin	47,687	Breckinridge	18,648	Owen	10,547
Hopkins	46,519	Marion	18,212	Carroll	10,155
Oldham	46,178	Harrison	17,983	Metcalfe	10,037
Henderson	44,829	Allen	17,800	McLean	9,938
Floyd	42,441	Knott	17,649	Livingston	9,804
Jessamine	39,041	Hart	17,445	Clinton	9,634
Barren	38,033	Adair	17,244	Crittenden	9,384
Nelson	37,477	McCreary	17,080	Hancock	8,392
Graves	37,028	Mason	16,800	Ballard	8,286
Greenup	36,891	Rockcastle	16,582	Bracken	8,279
Whitley	35,865	Simpson	16,405	Trimble	8,125
Calloway	34,177	Russell	16,315	Lyon	8,080
Shelby	33,337	Breathitt	16,100	Lee	7,916
Harlan	33,202	Union	15,637	Gallatin	7,870
Clark	33,144	Lawrence	15,569	Fulton	7,752
Scott	33,061	Casey	15,447	Cumberland	7,147
Muhlenberg	31,839	Estill	15,307	Wolfe	7,065
Knox	31,795	Henry	15,060	Nicholas	6,813
Marshall	30,125	Garrard	14,792	Elliott	6,748
Bell	30,060	Pendleton	14,390	Menifee	6,556
Perry	29,390	Webster	14,120	Carlisle	5,351
Boyle	27,697	Lewis	14,092	Hickman	5,262
Carter	26,889	Morgan	13,948	Owsley	4,858
Logan	26,573	Fleming	13,792	Robertson	2,266
					·

TOTAL 4,041,769

Table 9. AVERAGE AND CRITICAL CRASH RATES BY POPULATION CATEGORY (1996-2000)

POPULATION CATEGORY	NUMBER OF COUNTIES IN CATEGORY	TOTAL POPULATION	TOTAL MILEAGE DRIVEN 100 MVM	
UNDER 10,000	21	155,526	96.57	
10,000 - 14,999	25	313,612	179.01	
15,000 - 24,999	32	611,992	370.44	
25,000 - 50,000	27	954,656	575.25	
OVER 50,000	15	2,005,983	1,062.81	
POPULATION CATEGORY	TOTAL NUMBER OF CRASHES	CRASHES PER 100 MVM	CRITICAL CRASH RATE (C/100 MVM)	NUMBER OF COUNTIES AT OR ABOVE CRITICAL RATE
UNDER 10,000	17,058	177	213	7
10,000 - 14,999	36,844	206	237	5
15,000 - 24,999	80,588	218	243	14
25,000 - 50,000	142,154	247	267	7
OVER 50,000	385,068	362	375	4
POPULATION CATEGORY	TOTAL NUMBER OF FATAL CRASHES	FATAL CRASHES PER 100 MVM	CRITICAL FATAL RATE (C/100 MVM)	NUMBER OF COUNTIES AT OR ABOVE CRITICAL RATE
UNDER 10,000	222	2.30	6.92	0
10,000 - 14,999	433	2.42	6.12	0
15,000 - 24,999	806	2.18	4.89	0
25,000 - 50,000	993	1.73	3.48	0
OVER 50,000	1,283	1.21	1.99	3
POPULATION CATEGORY	TOTAL NUMBER OF FATAL OR INJURY CRASHES	FATAL OR INJURY CRASHES PER 100 MVM	CRITICAL FATAL OR INJURY CRASH RATE (C/100 MVM)	NUMBER OF COUNTIES AT OR ABOVE CRITICAL RATE
UNDER 10,000	5,716	59.2	80.4	5
10,000 - 14,999	12,514	69.9	88.3	7
15,000 - 24,999	25,493	68.8	83.1	10
25,000 - 50,000	41,497	72.1	82.9	8
OVER 50,000	94,844	89.2	95.7	5

TABLE 10. CRASH RATES BY COUNTY AND POPULATION CATEGORY (IN DESCENDING ORDER WITH CRITICAL RATES IDENTIFIED)(1996-2000)(ALL ROADS)

COUNTY	NUMBER OF CRASHES	CRASH RATE (CRASHES PER 100 MVM)	COUNTY	NUMBER OF CRASHES	CRASH RATE (CRASHES PER 100 MVM)
	ATION CATEGORY UND		·····	ON CATEGORY 15,0	-
Trimble	1.037	280 *	Harrison	2.742	408 *
Fulton Bracken	1,047 1,303	272 * 269 *	Taylor Mason	3,674 4,004	346 * 341 *
Crittenden	1,111	261 *	Bourbon	3.395	317 *
Elliott Ballard	511 1,116	230 * 225 *	Marion Estill	2,454 1,911	314 * 304 *
Nicholas	824	218 *	Rowan	4,167	296 *
Menifee McLean	535 1,177	205 200	Mercer Allen	3,093 2,106	292 * 289 *
Owsley Wolfe	385	188	Montgomery	3.776	277 *
vvoite Lee	1,057 569	182 180	Wayne Breathitt	2,343 2,147 2,32 <u>1</u>	277 * 263 *
Hancock Clinton	857 749	169 155	Ųnion	2,321	263 *
Livingston	1.072	155	Adair Woodford	2,347 3,510	252 * 242 229
Hickman Cumberland	515 472	146 124	Anderson Johnson	2,359 2,801	229 228
Lyon	1,229	113	McCreary	1,455	207
Robertson Gallatin	[^] 98 1,122	113 108	Russell Clay	1,644 2,270	194 191
Carlisle	272	84	Grant	4,288	185
Pendleton	ATION CATEGORY 10,00 1.951	336 *	Knott Lincoln	1,755 2,050	180 174
Owen Garrard	1,951 1,221 1,918	282 * 277 *	Simpson	2,663 1,390	171 170
Green	1,290	269 *	Breckinridge Casey	1.078	162
Jackson Morgan	1,357 1,554	259 * 237	Ohio Grayson	2,741 2,344	160 150
Morgan Todd	1,269	224	Henry	1.950	142
Washington Fleming	1,414 1,448	215 211	Lawrence Hart	1,449 2,105	140 113
Spencer	1,033 1,576	210 207	Rockcastle	2,256 ON CATEGORY 25,0	107
Lewis Edmonson	1,126	200	Bovd	10,179	390 *
Powell Caldwell	1,792 1,811	197 192	Boýle Jessamine	4,697 6,302	360 * 345 *
Carroll	2.182	192	Henderson	9,719 5,145	324 *
Webster Bath	1,963 1,593	191 189	Perry Franklin	7,977	294 * 285 *
Monroe Larue	914 1,694	186 183	Barren Calloway	6,556 3,586	280 * 259
Magoffin	1.295	180	Clark	6.054	258
Metcalfe Leslie	1,049 1,258	179 178	Hopkins Knox	8,215 3,837	257 256
Trigg	1,586	178 170	Nelson	5,594 4,856	254 252
Martin Butler	1,341 1,209	145	Muhlenberg Logan	3 436	240
	·		Grăves Greenup	4,965 3,995	239 236
			Bell '	3.445	228
			Harlan Letcher	3,768 2,968	225 219
			Meade Shelby	2,575 5,454	206 200
			Oldham	4,537	198
			Floyd Scott	5,260 6,577	196 195
			Carter Whitley	3,554 5,086	185 176
			Marsháll	3,817	155
	·			ON CATEGORY OVE 62,177	:R 50,000 496 *
			Fayette Jefferson	141,202 17,158	425 *
			Daviess Kenton	17,158 28,455	421 * 394 *
			McCracken	14.019	360
			Campbell Warren	14,113 20,064	349 347
			Madison Pulaski	13,059 8,667	307 286
			Pike	10.928	269
			Boone Christian	16.985	262 251
			Laurel	9,892 8,280	226
			Hardin Bullitt	13,549 6,520	221 165

TABLE 11. CRASH RATES BY COUNTY AND POPULATION CATEGORY (IN DESCENDING ORDER WITH CRITICAL RATES IDENTIFIED)(1996-2000)(STATE-MAINTAINED SYSTEM)

	NUMBER OF CRASHES	CRASH RATE (CRASHES PER 100 MVM)		NUMBER OF	CRASH RATE (CRASHES PER 100 MVM)
COUNTY			COUNTY	CRASHES	
POPULA Trimble	TION CATEGORY UNI 854	DER 10,000 284 *	POPULATI Harrison	ON CATEGORY 15,0 1,874	0 00-24,999 365 *
Crittenden	881	261 *	Marion	1,771	282 *
Elliott Bracken	422 954	238 * 233 *	Taylor Estill	2,329 1,351	276 * 275 *
McLean	998 441	214 * 214 *	Rowan Mason	1,351 3,315 2,618	268 *
Menifee Fulton	614	189	Breathitt	1.755	252 * 250 *
Owsley Ballard	310 753	185 182	Bourbon Wayne	2,244 1,678	250 * 246 *
Nicholas	528 415	182 168	Union	1,771 2,004	238 * 233 *
Lee Wolfe	803	163 155	Mercer Allen	1,350	231 *
Livingston Hancock	924 624	153 147	Montgomery Johnson	2,537 2,170	224 * 212 *
Clinton Hickman	624 556 398	147 140 131	Adair Anderson	2,170 1,535 1,677	200 196
Robertson	75	115	McCreary	1,140	194
Cumberland Gallatin	332 933	105 97	Russell * Woodford	1,271 2,194	177 177
Lyon Carlisle	970 227	95 85	Knott Breckinridge	1,446 1,070	170 169
POPULA	TION CATEGORY 10.0	000-14.999	Clav	1.730	168
Pendleton Owen	1,358 939	302 * 275 * 259 *	Grant Lincoln	3,297 1,532	157 154
Garrard	1.479	259 * 245 *	Casey Simpson	³ 777 2,039	146 145
Morgan Jackson	1,341 1,000	241 *	Ohiò	2.166	144
Green Spencer	887 819	232 * 210	Grayson Henry	1,912 1,632	144 133
Todd Edmonson	936 847	210 202 185	Lawrénce Hart	961 1,664	106 97
Washington	1.016	183 181	Rockcastle	1,845 ION CATEGORY 25,0	94
Webster Fleming	1,612 949	181 175 1 <u>7</u> 5	Bovle	· 3,256	308 *
Lewis Magoffin	1,135 1,059	175 170	Jeśsamine Boyd	4,354 5,362	304 * 247 *
Martin Metcalfe	1,130 809	166 163	Franklin Henderson	5,581 5,993	237 * 232 *
Carroll	1.676	162	Perrv	3.415	231 *
Larue Leslie	1,284 972	162 157	Calloway Muhlenberg	2,456 3,511	225 * 216 *
Bath Monroe	1,177 574	157 148	Nelson Knox	3,996 2,718	215 * 211
Powell	1,184	148 147	Logan	2.473	207
Caldwell Trigg	1,179 1,084	138	Hopkins Letcher	5,642 2,330	205 204
Trigg Butler	960	136	Harlan Meade	2,918 2,084	204 202
			Greenup	2,676 3,727	196 196
			Oldham <u>G</u> raves	3,147	182
			Floyd Bell	4,287 2,318	182 175
			Shelby Barren	4,020 3,278	166 165
		•	Clark	3,140 2,503	155 150
			Carter Marshall	2,930 2,930 3,488	144
			Whitley Scott	3,488 4,107	137 133
			POPULATI	ON CATEGORY OVE	ER 50,000
			Fayette Kenton	30,758 16,594 12,783	295 * 275 *
•			Warren Daviess	12,783 8,128	256 * 252
			Pulaski	6,162	250
			Jefferson Campbell	68,773 7,897	249 238
			Madison Pike	9,043 7,631	238 221
		•	McCracken	7.193	219 217
			Boone Christian	12,308 7,222	207
			Laurel Hardin	6,356 10.408	199 196
			Bullitt	4,756	141

^{*} Critical crash rate

TABLE 12. INJURY OR FATAL CRASH RATES BY COUNTY AND POPULATION CATEGORY (IN DESCENDING ORDER WITH CRITICAL RATES IDENTIFIED) (1996-2000)(ALL ROADS)

· · · · · · · · · · · · · · · · · · ·	1990-2000)(ALL 110				
COUNTY	NUMBER OF CRASHES	CRASH RATE (CRASHES PER 100 MVM)	COUNTY	NUMBER OF CRASHES	CRASH RATE (CRASHES PER 100 MVM)
POPIII A	ATION CATEGORY	INDER 10 000	ΡΟΡΙΙΙ ΔΤΙ	ON CATEGORY 15,	000-24 999
Crittenden	418	98 *	Breathitt	989	121 *
Elliott	197	89 *	Harrison	739	110 *
Fulton	329	86 *	Estill	643	102 *
Trimble	314	85 *	Marion	729	93 *
Menifee	220	84 *	Johnson	1,143	93 *
Bracken	381 368	79 74	Allen	661 973	91 * 91 *
Ballard Wolfe	388	67	Bourbon Mercer	973 944	91 ^ 89 *
Lee	212	67	Taylor	887	84 *
Nicholas	212 246	65	Wayne	711	84 *
Owsley	129	63 62 59 54	Union	724	82
McLean	367	62	Clay	946	80
Hancock Livingston	300 373	59 54	Rowan Knott	1,129 778	80 80
Hickman	188	53	Mason	925	79
Robertson	44	51	McCreary	546	78
Clinton , ,	222	46	Montgomery	1,020	75
Cumberland	145	38 37	Lincoln	848	72 68
Gallatin	388 380	37 35	Breckinridge Anderson	556 690	67
Lyon Carlisle	107	33	Adair	610	66
POPULA	ATION CATEGORY	10,000-14,999	Gravson	998	64
Pendleton	601	103 *	woodford	926	64
Jackson	540 428	103 * 99 *	Russell	525 988	62 E8
Owen Morgan	626	99 ^ 95 *	Ohio Casey	356	62 58 54
Leslie	673	95 *	Lawrence	539	52
Garrard	627	91 *	Grant	1.178	51
Magoffin	648	90 *	Simpson	725	46
Green Todd	388 412	81 73	Henry Rockcastle	599 776	44 37
Fleming	494	72	Hart	692	. 37
Edmonson	402	72 72	POPULATI	ON CATEGORY 25.	000-50,000
Lewis	539	71	Perry	1,950	111 *
Spencer Martin	343 544	70 69	Boyđ Knox	2,613 1,470	100 * 98 *
Powell	589	65	Boyle	1,240	95 *
Webster	653	64	Lefcher	1,240 1,237	91 *
Monroe	309	63	Floyd	2,418	90 *
Washington Bath	413 483	63 57	Barren Jessamine	2,061 1,560	88 * 85 *
Trigg	497	56	Henderson	2,396	80
Trigg Caldwell	501	53	Bell	1.157	77
Larue	489	53	Harlan	1,300	77
Carroll Metcalfe	594 307	52 52	Muhlenberg Calloway	1,475 1,065	77 77
Butler	414	56 53 53 52 52 50	Greenup	1,284	76
			Logan '	1,007	. 70
			Graves	4 1,435	69 68
			Meade Nelson	[°] 856 1,463	66
			Franklin	1.811	65
			Hopkins	1,947 1,43 <u>5</u>	61
			Clark Carter	1,435 1,145	61 60
			Whitley	1,585	55
			Scott	1,770	. 53
			Oldham	1,214	53
			Shelby Marshall	1,439 1,164	53 47
			POPULATI	ON CATEGORY OV	
		•	Pike	4.805	118 *
•			Favette	14.187	113 *
			McCracken	4,004	103 *
			Jefferson Daviess	32,662 3,966	98 * 97 *
			Warren	5,496	97 · 95
			Kenton	6.317	87
			Madison	3,352	79
			Pulaski	2,307	76 73
			Campbell Christian	2,939 2,842	73 72
			Laurel	2,542 2,524	69
			Boone	4.152	64
			Hardin	3,393	55 48
			Bullitt	1,898	40

^{*} Critical crash rate

TABLE 13. FATAL CRASH RATES BY COUNTY AND POPULATION CATEGORY (IN DESCENDING ORDER WITH CRITICAL RATES IDENTIFIED)(1996-2000)(ALL ROADS)

· · · · · · · · · · · · · · · · · · ·	WITH CRITICAL RATE		6-2000)(ALL NC	JADS)	ODAGU DATE
COUNTY	NUMBER OF CRASHES	CRASH RATE (CRASHES PER 100 MVM)	COUNTY	NUMBER OF CRASHES	CRASH RATE (CRASHES PER 100 MVM)
	ATION CATEGORY UND			ON CATEGORY 15,0	
Crittenden		4.7	Clav		4.0
Cumberland	20 17 13 8 21	4.5	Breathitt	47 31	3.8 3.7 3.4
Lee Elliott	13	4.1 3.6	McCreary Marion	26 27 22 21 32	3.7
Wolfe	21	3.6	Casey	22	3.3
Owsley	.6	2.9	Harrison	21	3.3 3.1
Clintoń Menifee	6 13 7	2.7	Bourbon Estill	32 18	3.0
Fulton	10	2.6	Mason	34	2.9
Bracken	12	2.5	Knott	34 27 24 31	2.8
Hickman Hancock	12	2.5	Wayne Lincoln	24	2.8 2.6
Trimble	9	2.4	Breckinridge	21	2.6
Ballard	12	2.4	Adair -	23	2.5
McLean Carlisle	13 7	2.2	Allen Woodford	18 35	2.5 2.4
Nicholas	10 12 9 12 13 7 6 9 13	32222222222221111 1111	Montgomery	21 23 18 35 30	998886655422221
Livingston	9	1.3	Hart	39	2.1
Lyon Robertson	13	1.2 1.2	Anderson Russell	21 16	2.0 1.9
Gallatin	4	0.4	Grayson	30	1.9
POPULA	ATION CATEGORY 10,0 36 33	00-14,999	Unión	16	1.9 1.8
Leslie Lewis	36	5.1 4.3	Johnson Lawrence	21 18	1.7 1.7
Monroe	17	4.3 3.5 3.2	Rowan	22	1.6
Morgan	21	3.2	Simpson	18 22 25 22 28 17	1.6
Pendleton Spencer	18 15	3.1 3.1	Henry Ohio	22 28	1.6 1.6
Spencer Todd	17	3.0	Taylor	17	1.6
Garrard	20	2.9	Grant	29	1.3
Fleming Owen	19 12	2.8 2.8	Rockcastle Mercer	24 11	1.1 1.0
Washington	18	3.98.87.55.44 2.2.2.2.2.2.2.1.9.9.8 1.1.8	POPULATION	ON CATEGORY 25.0	00-50.000
Edmonson Jackson	14 13	2.5	Knox Boyle	37 32 67	2.5 2.5 2.4 2.3 2.3 2.3 2.2
Powell	22	2.4	Flovd	67	2.5
Metcalfe	14	2.4	Muhlenberg	46	2.4
Green Butler	11 18	2.3	Carter Perry	44 40	2.3 2.3
Magoffin	16	2.2	Letcher	31	2.3
Caldwell	18 16	1.9	Meade	27	2.2
Bath Trigg	16	1.9	Nelson Graves	47	2.1 2.0
Trigg Martin	11	1.4	Harlan	34	2.0 2.0
Larue Webster	12 12 14	1.4 1.3 1.2 1.2	Calloway Whitley	27 47 42 34 28 54	2.0 1.9
Carroll	14	1.2	Shelby	51	. 1.9
			Bell	· 28	1.9 1.9 1.8
			Logan Greenup	30	1.9 1.8
			Jessamine	28 27 30 31	1.7
			Marshall Clark	37	1.5 1.5
			Barren	34 32	1.4
			Franklin	38	1.4
			Scott Hopkins	40 39	1.2 1.2 1.2 0.9 0.8
			Henderson	36	1.2
			Oldham	21	0.9
			Boyd POPULATI	20 ON CATEGORY OVE	R 50,000
			Pike	107	2.6 * 2.0 *
			Pulaski	60 85	2.0 * 2.0 *
•			Madison Laurel	65	2.0 * 1.8
			McCracken	64	1.6
			Daviess Warren	53 73 72 48	1.3 1.3
			Hardin	72 72	1.2
			Christian	48	1.2
			Jefferson Bullitt	359 42	1.1 1.1
	¥		Campbell	38 118	0.9
			Fayette	118	0.9
			Boone Kenton	52 47	0.8 0.7
			ROMON		

^{*} Critical crash rate

TABLE 14. MISCELLANEOUS CRASH DATA FOR EACH COUNTY

							2000	PERCENT OF CRASHES	PERCENT OF CRASHES	PERCENT	PERCENT INJURY OR	PERCENT OF DRIVERS USING	PERCENT OF CRASHES
COUNTY	1996	NUMBI 1997	1998	1999 1999	YEAR 2000	1996-1999 AVERAGE	PERCENT CHANGE*	INVOLVING ALCOHOL	INVOLVING DRUGS	FATAL CRASHES	FATAL CRASHES	SAFETY BELTS	INVOLVING SPEEDING
Adair	432	452	441	466	556	448	24.2	4.0	0.6	0.98	26.0	77.9	6.3
Allen	377	399	444	509	377	432	-12.8	4.8	0.5	0.85	31.4	84.0	6.6
Anderson	434	484	442	515	484	469	3.3	5.9	0.3	0.89	29.2	85.9	9.3
Ballard	217	229	226	188	256	215	19.1	7.0	0.6	1.08	33.0	87.5	8.3
Barren	1,262	1,394	1,328	1,297	1,275	1,320	-3.4	3.8	0.3	0.49	31.4	83.5	7.0
Bath	367	308	305	289	324	317	2.1	5.7	0.3	1.00	30.3	85.5	11.4
Bell Boone	758 3,290	778 3,160	600 3,337	612 3,507	697 3,691	687 3,324	1.5 11.1	4.8 3.6	1.5 0.2	0.81 0.31	33.6 24.4	86.9 92.4	7.6 7.1
Bourbon	653	716	717	684	625	693	-9.7	5.8	0.8	0.94	28.7	85.1	10.2
Boyd	2,122	2,060	2,009	2,073	1,915	2,066	-7.3	3.1	0.6	0.20	25.7	90.8	6.7
Boyle	891	951	965	941	949	937	1.3	3.3	0.2	0.68	26.4	91.4	6.7
Bracken	253	250	250	279	271	258	5.0	4.6	0.2	0.92	29.2	79.6	7.9
Breathitt	421	405	429	450	442	426	3.7	6.6	1.5	1.44	46.1	87.4	9.6
Breckinridge	225	343	241	281	300	273	10.1	5.3	0.1	1.51	40.0	87.7	5.3
Bullitt	1,341	1,235	1,295	1,325	1,324	1,299	1.9	5.7	0.4	0.64	29.1	90.0	5.0
Butler	249	249	260	220	231	245	-5.5	6.0	0.7	1.49	34.2	85.4	9.2
Caldwell	414	374	345	323	355	364	-2.5	4.5	0.4	0.99	27.7	88.9	10.2
Calloway	683	501	408	970	1,024	641	59.9	5.0	0.4	0.78	29.7	87.1	6.4
Campbell	2,949	2,717	2,674	3,027	2,746	2,842	-3.4	4.5	0.4	0.27	20.8	91.6	5.7
Carlisle	42	38	88	35	69	51	36.0	4.4	0.4	2.57	39.3	87.9	10.7
Carroll	405	461	401	474	441	435	1.3	6.4	0.5	0.64	27.2	85.6	8.8
Carter	710	723	741	721	659	724	-8.9	5.4	0.8	1.24	32.2	85.5	14.0
Casey	119	269	169	257	264	204	29.7	7.8	1.2	2.04	33.0	78.1	12.0
Christian	2,052	2,066	1,888	1,973	1,913	1,995	-4.1	4.7	0.3	0.49	28.7 23.7	92.6	9.7
Clark Clay	1,222 391	1,215 443	1,162 478	1,260 455	1,195 503	1,215 442	-1.6 13.9	4.6 5.5	0.4 2.3	0.56 2.07	41.7	91.8 85.1	6.4 9.9
Clinton	134	136	142	175	162	147	10.4	4.5	1.1	1.74	29.6	77.3	4.9
Crittenden	225	193	251	222	220	223	-1.2	6.1 *	1.0	1.80	37.6	86.1	7.9
Cumberland	96	127	65	84	100	93	7.5	3.4	0.2	3.60	30.7	77.0	4.9
Daviess	3,508	3,403	3,442	3,229	3,576	3,396	5.3	3.9	0.5	0.31	23.1	91.6	5.4
Edmonson	194	235	220	247	230	224	2.7	5.9	0.4	1.24	35.7	86.8	13.9
Elliott	90	84	118	60	159	88	80.7	10.6	1.0	1.57	38.6	. 82.6	14.9
Estill	347	423	436	399	306	401	-23.7	7.3	0.8	0.94	33.6	85.5	13.7
Fayette	11,884	12,710	12,219	12,324	13,040	12,284	6.2	4.0	0.3	0.19	22.8	94.8	5.2
Fleming	306	305	298	293	246	301	-18.1	5.2	0.3	1.31	34.1	80.7	8.9
Floyd	1,043	1,079	1,086	1,048	1,004	1,064	-5.6	6.4	1.8	1.27	46.0	88.4	12.6
Franklin	1,627	1,563	1,489	1,567	1,731	1,562	10.9	4.4	0.4	0.48	22.7	90.0	9.8
Fulton	228	203	221	158	237	203	17.0	5.0	0.5	0.96	31.4	83.5	3.6
Gallatin	249	215	230	226	202	230	-12.2	5.8	0.4	0.36	34.6	86.9	14.3
Garrard	274	424	402	420	398	380	4.7	5.3	0.6	1.04 0.68	32.7 27.5	87.1 90.3	18.9 12.9
Grant	749	858	864	902 988	915	843	8.5	3.6 3.8	0.3 0.3	0.85	28.9	90.3	8.2
Graves	1,031 453	1,053 - 395	998 459	290	895 747	1,018 399	-12.0 87.1	5.2 ·	0.6	1.28	42.6	85.4	9.8
Grayson Green	244	294	276	245	231	265	-12.7	5.0	0.1	0.85	30.1	90.0	3.9
Greenup	871	845	750	738	791	801	-1.2	5.6	0.8	0.75	32.1	90.2	9.7
Hancock	157	189	195	179	137	180	-23.9	4.9	0.5	1.40	35.0	84.6	6.7
Hardin	2,838	2,769	2,558	2,611	2,773	2,694	2.9	3.4	0.2	0.53	25.0	93.6	6.5
Harlan	755	806	763	709	735	758	-3.1	5.1	1.4	0.90	34.5	88.2	13.9
Harrison	522	572	544	520	584	540	8.2	5.0	0.5	0.77	27.0	87.7	5.8
Hart	407	329	428	524	417	422	-1.2	4.2	0.5	1.85	32.9	91.6	8.7
Henderson	1,971	1,897	1,958	1,865	2,028	1,923	5.5	3.5	0.3	0.37	24.7	93.9	6.7
Henry	371	398	369	373	439	378	16.2	7.4	0.5	1.13	30.7	84.0	16.2
Hickman	78	122	96	119	100	104	-3.6	5.8	1.0	1.75	36.5	85.5	8.7
Hopkins	1,593	1,697	1,749	1,611	1,565	1,663	-5.9	2.9	0.5	0.47	23.7	93.8	9.4
Jackson	234	262	273	327	261	274	-4.7	7.1	1.6	0.96	39.8	83.0	15.8
Jefferson	31,122		23,244	28,013		27,997	4.3	3.4	0.2	0.25	23.1	93.0	3.5
lessamine		1,266	1,188		1,344	1,240	8.4	5.2	0.4	0.49	24.8	90.4	8.1 8.5
Johnson	578	510	561 5 400	552	600	550 5 607	9.0	6.1	2.6	0.75 0.17	40.8 22.2	88.2 91.1	8.5 7.2
Kenton	5,817	5,539	5,422	6,011	5,666	5,697	-0.5	4.8	0.4 1.1	1.54	44.3	88.0	9.3
Knott	346	324	365	373	347	352	-1.4	6.2	1.1	1.04	38.3	00.0	3.0

TABLE 14. MISCELLANEOUS CRASH DATA FOR EACH COUNTY (continued)

							2000	PERCENT OF CRASHES	PERCENT OF CRASHES	PERCENT	PERCENT INJURY OR	PERCENT OF DRIVERS USING	PERCENT O
		NUMBE	ER OF CRA	SHES BY	YEAR	1996-1999	PERCENT	INVOLVING	INVOLVING	FATAL	FATAL	SAFETY	INVOLVIN
COUNTY	1996	1997	1998	1999	2000	AVERAGE	CHANGE*	ALCOHOL	DRUGS	CRASHES	CRASHES	BELTS	SPEEDIN
arue	325	321	358	335	355	335	6.0	4.4	0.1	0.71	28.9	87.7	7.
aurel	1,595	1,665	1,669	1,648	1,703	1,644	3.6	3.6	1.2	0.79	30.5	91.8	7.
wrence	235	282	310	329	293	289	1.4	5.5	1.1	1.24	37.2	84.7	9.
96	82 195	129 265	116	138 308	104	116	-10.5	7.9	1.4	2.28	37.3	82.4	14.
eslie etcher	595	205 577	242 590	649	248 557	253 603	-1.8 -7.6	8.0 6.0	3.3 1.2	2.86 1.04	53.5 41.7	81.3 86.4	15. 9.
ewis	314	332	326	335	269	327	-7.6 -17.7	7.1	0.4	2.09	34.2	78.0	10
ncoln	349	398	408	389	506	386	31.1	6.7	0.6	1.51	41.4	81.2	18
vingston	211	180	219	222	240	208	15.4	6.9	0.8	0.84	34.8	88.3	9.
gan	696	712	668	714	646	698	-7.4	4.6	0.3	0.79	29.3	85.2	6
on	254	262	229	245	239	248	-3.4	3.7	0.5	1.06	30.9	89.6	12
Cracken	2,989	2,927	2,637	2,904	2,562	2,864	-10.6	3.8	0.3	0.46	28.6	93.0	4.
cCreary	275	271	260	319	330	281	17.3	6.8	1.0	1.79	37.5	87.1	17.
cLean	218	272	233	226	228	237	-3.9	4.4	0.3	1.10	31.2	86.6	10
adison	2,667	2,590	2,646	2,541	2,615	2,611	0.2	5.6	0.4	, 0.65	25.7	89.7	12.
agoffin	273	297	255	225	245	263	-6.7	9.0	1.5	1.24	50.0	83.9	10
arion	479	480	472	499	524	483	8.6	10.8	0.2	1.10	29.7	81.2	9
arshall	778	757	777	710	795	756	5.2	4.5	0.6	0.97	30.5	88.2	8
artin	278	222	303	253	285	264	8.0	5.9	3.4	0.82	40.6	84.2	11
ason	824	820	806	824	730	819	-10.8	4.9	0.3	0.85	23.1	84.9	6
eade	505	484	522	544	520	514	1.2	5.9	0.3	1.05	33.2	88.5	6
enifee	92	114	104	134	91	111	-18.0	9.3	0.2	1.31	41.1	76.8	19
ercer	649	652	662	531	599	624	-3.9	4.4	0.5	0.36	30.5	87.6	12
etcalfe	215	232	191	163	248	200	23.8	4.6	0.1	1.33	29.3	77.3	6
nroe	163	145	161	250	195	180	8.5	6.3	. 0.5	1.86	33.8	75.1	5
ontgomery	798	726	706	720	826	738	12.0	5.1	0.3	0.79	27.0	89.0	. 6
organ	313	317	310	305	309	311	-0.7	4.7	0.1	1.35	40.3	86.4	15
uhlenberg	1,026	988	985	901	956	975	-1.9	3.8	0.6	0.95	30.4	86.6	9
elson	1,080	1,081	1,007	1,220	1,206	1,097	9.9	5.4	0.2	0.84	26.2	90.2	8
cholas	133	175	163	185	168	164	2.4	10.2	1.1	0.73	29.9	81.4	11
hio	576	577	506	474	608	533	14.0	4.6	0.4	1.02	36.0	89.8	8
dham	877	892	915	986	867	918	-5.5	3.4	0.4	0.46	26.8	93.2	9
wen .	230	268	231	223	269	238	13.0	7.1	0.1	0.98	35.1	82.0	18
wsley	59	64	46	129	87	75	16.8	10.1	0.8	1.56	33.5	73.2	10
endleton	415	385	392	378	381	393	-2.9	6.0	0.4	0.92 0.78	30.8 37.9	86.5 89.7	· 9
erry	1,074	1,019 2,269	1,011	993	1,048 2,056	1,024	2.3 -7.3	5.1 5.5	1.1 1.4	0.78	37.9 44.0	89.4	19
ke owell	2,286 406	343	2,310 350	2,007 370	323	2,218 367	-12.0	4.5	0.4	1.23	32.9	85.1	10
ılaski	1,712	1,753	1,788	1,737	1,677	1,748	-4.0	3.2	0.5	0.69	26.6	89.9	7
bertson	1,712	1,755	1,788	1,737	46	13	253.8	13.3	. 0.0	1.02	44.9	72.4	9
ckcastle	395	441	472	505	443	453	-2.3	4.0	0.9	1.06	34.4	82.9	10
wan	743	813	794	912	905	816	11.0	3.7	0.4	0.53	27.1	89.4	10
issell	304	338	297	339	366	320	14.6	6.6	1.0	0.97	31.9	82.9	7
ott	1,309	1,392	1,248	1,283	1,345	1,308	2.8	3.6	0.2	0.61	26.9	91.7	7
elby	1,106	1,036	1,023	1,060	1,229	1,056	16.4	4.9	0.2	0.94	26.4	89.9	7
mpson	469	540	570	564	520	536	-2.9	4.1	0.5	0.94	27.2	86.0	5
encer	205	187	209	197	235	200	17.8	7.3	0.4	1.45	33.2	84.9	11
ylor	720	796	722	748	688	747	-7.8	4.4	0.5	0.46	24.1	82.6	•
dd	270	269	270	235	225	261	-13.8	4.7	0.6	1.34	32.5	79.5	10
gg	368	320	312	322	264	331	-20.1	3.6	0.5	1.01	31.3	89.7	e
mble	212	209	202	206	208	207	0.4	4.9	0.3	0.87	30.3	86.5	13
ion	485	438	472	457	469	463	1.3	5.9	0.3	0.69	31.2	87.3	12
irren	3,973	4,125	4,070	3,893	4,003	4,015	-0.3	3.9	0.5	0.36	27.4	91.1	9
shington	272	293	312	269	268	287	-6.5	6.6	0.1	1.27	29.2	81.6	10
iyne	434	461	465	491	492	463	6.3	3.8	0.6	1.02	30.3	79.4	•
bster	394	398	425	346	400	391	2.4	4.1	0.5	0.61	33.3	92.5	9
nitley	1,032	1,053	1,029	959	1,013	1,018	-0.5	4.1	1.0	1.06	31.2	87.9	13
olfe	217	248	182	205	205	213	-3.8	6.4	0.7	1.99	36.7	85.1	10
oodford	767	721	671	639	712	700	1.8	6.4	0.3	1.00	26.4	90.8	9

^{*} Percent change in the 2000 crash total from the previous four-year total

TABLE 15. CRASH RATES FOR CITIES HAVING POPULATION OVER 2,500 (FOR STATE-MAINTAINED SYSTEM AND ALL ROADS FOR 1996-2000)

	<u></u>	TATE-MAINTAINED		ALL RO	
CITY	POPULATION	TOTAL CRASHES	CRASH RATE*	TOTAL CRASHES	CRASH RATE**
Lexington	260,512	13,276	698	61,651	47
Louisville	256,231	29,223	259	80,191	63
Owensboro	54,067	3,429	580	12,492	46
Bowling Green	49,296	6,483	525	15,049	61
Covington	43,370	5.025	358	11,136	51
Hopkinsville	30,089	3,665	320	6,317	42
Frankfort	27,741	3,374	364	5,323	38
Henderson	27,373	2,663	280	6,920	51
Richmond	27,152	1,461	732	6,646	49
Jeffersontown	26,633	905	430	4,788	36
Paducah	26,307	2,099	276	9,009	69
Florence	23,551	4,146	367	8,753	74
Elizabethtown	22,542	3,431	286	6,333	56
Ashland	21,981	2,461	506	6,089	- 55
Radcliff	21,961	1,175	275	2,878	26
Nicholasville	19,680	1,469	405	3,473	35
Madisonville	19,307	1,753	534	4,407	46
Georgetown	18,080	847	408	3,421	38
Newport	17,048	2,621	889	4,584	54
Winchester	16,724	1,238	359	3,891	47
Erlanger	16,676	1,743	978	4,011	48
Fort Thomas	16,495	223	370	1,244	15
Saint Matthews	15,852	604	865	3,666	46
Danville	15,477	1,119	686	3,599	47
Shively	15,157	818	746	4,733	63
Independence	14,982	1,059	402	1,754	23
Murray	14,950	863	292	1,661	22
Glasgow	13,019	601	168	3,378	52
Somerset	11,352	1,670	384 419	4,203	74 49
Campbellsville Middlesboro	10,498 10,384	955 715	222	2,551 1,755	34
Bardstown	10,364	933	300	2,722	53
Mayfield	10,349	692	549	2,297	44
Shelbyville	10,085	1,048	373	2,227	44
Berea	9,851	825	481	1,736	35
Edgewood	9,400	89	643	910	19
Lyndon	9,369	***	***	112	2
Paris	9,183	723	318	1,839	40
Lawrenceburg	9,014	453	489	893	20
Maysville	8,993	926	248	2,633	59
Mount Washington	8,485	228	191	921	22
Shepherdsville	8,334	520	487	1,774	43
Alexandria	8,286	451	420	1,291	31
Elsmere	8,139	182	534	809	20
Fort Mitchell	8,089	276	642	1,478	. 37
Harrodsburg	8,014	648	537	1,759	. 44
Franklin	7,996	473	317	1,350	34
Villa Hills	7,948	14	139	357	9
Corbin	9,404	547	264	2,379	50
Flatwoods	7,605	133	196	677	18
Versailles	7,511	698	398	1,555	41 47
Russellville	7,149	684 ***	223 ***	1,696	47
Oak Grove	7,064		319	1,186 1,227	34
Taylor Mill	6,913 6,554	87 529	319 159	1,227 922	36 28
Highland Heights Princeton		528	159	922 1,041	32
Princeton Bellevue	6,536 6,480	326 120	193	1,177	32 36
Believue Pikeville	6,480 6,295	129 699	210	2,100	67
		657	707	1,380	44
Cynthiana Leitchfield	6,258 6,139	394	163	596	19
Monticello	5,981	462	201	1,416	47
Dayton	5,966	462 6	193	514	17
Morehead	5,966 5,914	837	466	1,891	64
Wilmore	5,905	125	378	234	8

TABLE 15. CRASH RATES FOR CITIES HAVING POPULATION OVER 2,500 (FOR STATE-MAINTAINED SYSTEM AND ALL ROADS FOR 1996-2000)(continued)

	S	TATE-MAINTAINED		ALL ROADS	
CITY	DODLII ATION	TOTAL	CRASH	TOTAL	CRASH
CITY	POPULATION	CRASHES	RATE*	CRASHES	RATE**
Central City	5,893	314	204	995	34
Mount Sterling	5,876	762	435	1,827	62
Middletown	5,744	***	***	216	8
Lebanon	5.718	627	476	1,261	44
London	5,692	1.650	426	3,285	115
Fort Wright	5,681	436	474	2,070	73
La Grange	5,676	257	369	953	34
Williamsburg	5,143	275	119	961	37
Westwood	4.888	***	***	0	Ö
Hazard	4,806	396	192	2,287	95
Ludlow	4,409	45	285	341	16
Greenville	4,398	453	457	909	41
Scottsville	4.327	539	458	1,070	50
Benton	4,197	634	437	893	43
Vine Grove	4,169	238	261	371	18
Paintsville	4,132	361	217	1,201	58
Columbia	4,014	431	270	1,019	51
Crescent Springs	3,931	***	***	794	40
Gravson	3.877	189	261	1,039	54
Carrollton	3.846	209	337	858	45
Cold Spring	3,806	582	483	1,029	54
ancaster	3,734	234	662	675	36
Russell	3,645	190	219	849	47
Prestonsburg	3.612	525	331	1,236	68
Providence	3,611	260	344	350	19
Barbourville	3,589	299	211	845 .	47
Morganfield	3,494	380	575	699	40
Southgate	3,472	81	345	503	29
Stanford	3,430	84	67	380	22
West Liberty	3,277	242	388	467	29
Williamstown	3,227	***	***	691	43
Marion	3,196	269	370	508	32
Beaver Dam	3,033	103	179	595	39
Stanton	3,029	132	130	505	33
Flemingsburg	3,010	86	131	442	29
Dawson Springs	2,980	145	317	294	20
Park Hills	2,977	87	576	219	15
Jnion	2,893	***	***	389	27
Crestview Hills	2,889	***	***	1,031	71
ndian Hills	2,882	***	***	39	3
-lodgenville	2,874	218	290	726	51
akeside Park	2,869	335	503	442	31
rvine	2,843	224	421	653	46
ulton	2,775	224	198	479	35
Calvert City	2,701	195	142	327	24
Fompkinsville	2,660	115	160	608	46
Springfield	2,634	348	435	572	43
Vilder	2,624	***	***	679	52
Cumberland	2,611	62	88	276	21
Mount Vernon	2,592	183	282	717	55
-lartford	2,571	41	108	156	12
Hickman	2,560	30	77	174	14
Morgantown	2,544	104	158	521	41

^{*} Crashes per 100 million vehicle-miles. ** Crashes per 1,000 population. *** No data available.

TABLE 16. MISCELLANEOUS CRASH DATA FOR CITIES HAVING POPULATION OVER 2,500 (1996-2000) (ALL ROADS)

		FATAL C	RASHES	PEDEST MOTOR V CRA		BICYCLE- MOTOR \ CRAS	/EHICLE	MOTOR	ICYCLE SHES	PERCENT OF CRASHES INVOLVING	PERCENT OF CRASHES INVOLVING
CITY F	POPULATION	NUMBER	RATE*	NUMBER	RATE*	NUMBER	RATE*	NUMBER	RATE*	SPEEDING	ALCOHOL
Lexington	260,512	117	0.90	635	4.90	397	3.00	268	2.1	5.1	4.0
Louisville	256,231	157	1.23	1,289	10.10	738	5.80	436	3.4	2.8	3.0
Owensboro	54,067	17	0.63	96	3.60	109	4.00	68	2.5	3.0	3.2
Bowling Green	49,296	24	0.97	89	3.60	58	2.40	84	3.4	6.5	2.9
Covington	43,370	9	0.42	292	13.50	121	5.60	49	2.3	4.7	4.8
Hopkinsville	30,089	15	1.00	78	5.20	47	3.10	25	1.7	8.6	3.5
Frankfort	27,741	11	0.79	37	2.70	20	1.40	26	1.9	6.1	3.3
Henderson	27,373	13	0.95	71	5.20	60	4.40	44	3.2	4.1	2.7
Richmond	27,152	16	1.18	43	3.20	27	2.00	34	2.5	5.5	4.5
Jeffersontown	26,633	4	0.30	24	1.80	18	1.40	. 15	1.1	3.6	2.3
Paducah	26,307	23	1.75	49	3.70	46	3.50	67	5.1	3.8	2.9
Florence	23,551	13	1.10	48	4.10	39	3.30	26	2.2	4.3	2.5
Elizabethtown	22,542	13	1.15	23	2.00	25	2.20	29	2.6	4.2	1.7
Ashland	21,981	7	0.64	48	4.40	30	2.70	44	4.0	4.6	2.
Radcliff	21,961	7	0.64	21	1.90	13	1.20	18	1.6	1.9	3.
Nicholasville	19,680	6	0.61	43	4.40	22	2.20	ູ 12	1.2	4.4	4.4
Madisonville	19,307	8	0.83	27	2.80	33	3.40	43	4.5	4.0	1.8
Georgetown	18,080	7	0.77	22	2.40	13	1.40	16	1.8	3.3	2.5
Newport	17,048	4	0.47	128	15.00	90	10.60	29	3.4	3.3	5.3
Winchester	16,724	4	0.48	35	4.20	19	2.30	25	3.0	2.3	3.3
Erlanger	16,676	11	1.32	23	2.80	24	2.90	25	3.0	10.4	4.0
Fort Thomas	16,495	5	0.61	19	2.30	7	0.80	6	0.7	7.6	3.6
Saint Matthews	s 15,852	5	0.63	23	2.90	12	1.50	7	0.9	2.0	1.8
Danville	15,477	15	1.94	24	3.10	15	1.90	12	1.6	4.3	2.2
Shively	15,157	10	1.32	57	7.50	34	4.50	26	3.4	3.4	4.
Independence	14,982	5	0.67	20	2.70	7	0.90	10	1.3	6.7	5.2
Murray	14,950	3	0.40	10	1.30	10	1.30	13	1.7	3.8	2.5
Glasgow	13,019	4	0.61	15	2.30	15	2.30	25	3.8	3.1	2.2
Somerset	11,352	16	2.82	21	3.70	8	1.40	16	2.8	5.8	1.0
Campbellsville	10,498	3	0.57	16	3.00	13	2.50	. 9	1.7	4.5	2.8
Middlesboro	10,384	1	0.19	12	2.30	15	2.90	5	1.0	3.8	4.8
Bardstown	10,374	6	1.16	20	3.90	18	3.50	12	2.3	2.7	2.9
Mayfield	10,349	3	0.58	20	3.90	11	2.10	5	1.0	2.2	1.8
Shelbyville	10,085	12	2.38	23	4.60	12	2.40	9	1.8	4.0	3.7
Berea	9,851	6	1.22	. 8	1.60	13	2.60	4	0.8	5.0	2.7
Edgewood	9,400	0	0.00	6	1.30	7	1.50	2	0.4	4.4	2.0
Lyndon	9,369	0	0.00	0	0.00	0	0.00	0	0.0	0.0	0.0
Paris	9,183	1	0.22	19	4.10	12	2.60	12	2.6	4.6	4.
Lawrenceburg	9,014	2	0.44	8	1.80	5	1.10	5	1.1	2.4	4.3
Maysville	8,993	11	2.45	22	4.90	13	2.90	9	2.0	4.4	3.2
Mount Washin		1	0.24	8	1.90	1	0.20	4	0.9	3.7	4.0
Shepherdsville		12	2.88	8	1.90	3	0.70	9	2.2	2.8	3.8
Alexandria	8,286	7	1.69	7	1.70	3	0.70	7	1.7	4.9	2.4
Elsmere	8,139	0	0.00	11	2.70	9	2.20	2	0.5	6.4	4.8
Fort Mitchell	8,089	2	0.49	9	2.20	4	1.00	11	2.7	7.9	4.9
Harrodsburg	8,014	2	0.50	20	5.00	7	1.70	10	2.5	4.2	3.1
Franklin	7,996	6	1.50	10	2.50	11	2.80	7	1.8	2.7	3.5
Villa Hills	7,948	. 0	0.00	2	0.50	3	0.80	4	1.0	11.8	5.6
Corbin	9,404	8	1.70	13	2.80	13	2.60	10	2.1	4.8	2.3
latwoods	7,605	0	0.00	8	2.10	5	1.30	2	0.5	3.8	2.5
Versailles	7,511	1	0.27	19	5.10	8	2.10	8	2.1	4.7	3.2
Russellville	7,149	. 3	0.84	11	3.10	10	2.80	16	4.5	5.1	2.6
Oak Grove	7,064	0	0.00	0	0.00	0	0.00	0	0.0	0.0	0.0
Taylor Mill	6,913	0	0.00	4	1.20	1	0.30	3	0.9	9.1	4.3
Highland Heigh	•	1	0.31	4	1.20	. 6	1.80	6	1.8	7.7	3.0
Princeton	6,536	1	0.31	9	2.80	12	3.70	5	1.5	5.6	2.4
Bellevue	6,480	1	0.31	16	4.90	20	6.20	4	1.2	3.1	3.
Pikeville	6,295	11	3.49	24 ,	7.60	2	0.60	21	6.7	8.6	4.0
Cynthiana	6,258	1	0.32	17	5.40	11	3.50	6	1.9	2.1	3.0
_eitchfield	6,139	3	0.98	9	2.90	1	0.30	5	1.6	4.4	3.2
Vionticello	5,981	4	1.34	· 11	3.70	9	3.00	4	1.3	5.5	2.5

TABLE 16. MISCELLANEOUS CRASH DATA FOR CITIES HAVING POPULATION OVER 2,500 (1996-2000) (ALL ROADS)(continued)

				PEDEST MOTOR VI		BICYCLE-F MOTOR V		MOTOR	CYCLE	PERCENT OF CRASHES	CRASHE
		FATAL CF	RASHES	CRAS		CRAS		CRAS		INVOLVING	INVOLVIN
CITY PC	PULATION	NUMBER	RATE*	NUMBER	RATE*	NUMBER	RATE*	NUMBER	RATE*	SPEEDING	ALCOHO
Morehead	5,914	5	1.69	15	5.10	8	2.70	- 10	3.4	3.4	2
Wilmore	5,905	0	0.00	1	0.30	1	0.30	1	0.3	8.1	0
Central City	5,893	- 8	2.72	4	1.40	4	1.40	7	2.4	4.1	3
Mount Sterling	5,876	10	3.40	17	5.80	3	1.00	5	1.7	3.8	3.
Middletown	5,744	0	0.00	0	0.00	ō	0.00	ő	0.0	0.0	0.
Lebanon	5,718	1	0.35	14	4.90	12	4.20	4	1.4	4.3	4.
London	5,692	7	2.46	12	4.20	7	2.50	9	3.2	4.5	1.
Fort Wright	5,681	1	0.35	12	4.20	2	0.70	6	2.1	6.2	3.
La Grange	5,676	5	1.76	7	2.50	1	0.40	2	0.7	4.2	2.
Williamsburg	5,143	6	2.33	3	1.20	3	1.20	4	1.6	5.8	3.
Hazard	4,806	3	1.25	17	7.10	2	0.80	8	3.3	3.1	2.
Ludlow	4,409	0	0.00	11	5.00	7	3.20	0	0.0	2.6	2. 7.
Greenville	4,409	6	2.73	8	3.60	4	1.80	4	1.8	5.9	7. 2.
	•										
Scottsville	4,327	4 2	1.85	3	1.40	2	0.90	6	2.8	4.3	2.
Benton Vine Grove	4,197		0.95	3	1.40	1	0.50	4	1.9	4.9	1.
Vine Grove	4,169	1	0.48	1	0.50	2	1.00	1	0.5	6.7	7.
Paintsville	4,132	7	3.39	6	2.90	2	1.00	7	3.4	2.5	2.
Columbia	4,014	3	1.49	7	3.50	3	1.50	7	3.5	4.0	2.
Crescent Spring	•	0	0.00	0	0.00	0	0.00	0	0.0	0.0	0.
Grayson	3,877	1	0.52	8	4.10	2	1.00	3	1.5	3.8	2.
Carrollton	3,846	3	1.56	5	2.60	9	4.70	6	3.1	3.0	4.
Cold Spring	3,806	2	1.05	7	3.70	2	1.10	7	3.7	5.7	3.
Lancaster	3,734	2	1.07	. 10	5.40	4	2.10	3	1.6	5.3	2.
Russell	3,645	0	0.00	3	1.60	4	2.20	5	2.7	3.7	2.
Prestonsburg	3,612	11	6.09	9	5.00	1_	0.60	9	5.0	4.0	3.
Providence	3,611	1	0.55	1	0.60	7	3.90	5	2.8	6.3	3.
Barbourville	3,589	4	2.23	7	3.90	1	0.60	2	1.1	. 6.5	3.
Morganfield	3,494	0	0.00	8	4.60	4	2.30	0	0.0	7.2	2.
Southgate	3,472	0	0.00	3	1.70	2	1.20	2	1.2	1.8	3.
Stanford	3,430	2	1.17	1	0.60	2	1.20	3	1.7	7.4	3.
West Liberty	3,277	0	0.00	0	0.00	0	0.00	0	0.0	0.0	0.
Williamstown	3,227	3	1.86	8	5.00	1	0.60	4	2.5	8.0	2.
Marion	3,196	1	0.63	8	5.00	1	0.60	3	1.9	2.8	2.
Beaver Dam	3,033	2	1.32	0	0.00	1	0.70	4	2.6	3.4	2.
Stanton	3,029	3	1.98	2	1.30	2	1.30	0	0.0	4.2	3.
Flemingsburg	3,010	1	0.66	4	2.70	0	0.00	1	0.7	3.6	2.
Dawson Springs		1	0.67	2	1.30	3	2.00	4	2.7	5.4	3.
Park Hills	2,977	0	0.00	1	0.70	1	0.70	0	0.0	16.9	8.
Union	2,893	0	0.00	0	0.00	0	0.00	0	0.0	0.0	0.
Crestview Hills	2,889	.0	0.00	0	0.00	0	0.00	0	0.0	0.0	0.
Indian Hills	2,882	0	0.00	0	0.00	0	0.00	0	0.0	0.0	0.
Hodgenville	2,874	3	2.09	7	4.90	2	1.40	4	2.8	4.1	2.
Lakeside Park	2,869	1	0.70	6	4.20	1	0.70	3	2.1	5.7	2.
Irvine	2,843	1	0.70	9	6.30	3	2.10	3	2.1	6.4	4.
Fulton	2,775	1	0.72	4	2.90	6	4.30	3	2.2	2.9	3.
Calvert City	2,701	3	2.22	1	0.70	2	1.50	5	3.7	7.3	2.
Tompkinsville	2,660	3	2.26	6	4.50	1	0.80	3	2.3	2.6	2.
Springfield	2,634	1	0.76	10	7.60	0	0.00	2	1.5	4.2	4.
Wilder	2,624	0	0.00	0	0.00	0	0.00	0	0.0	0.0	0.
Cumberland	2,611	0	0.00	1	0.80	1	0.80	4	3.1	6.5	2.
Mount Vernon	2,592	5	3.86	4	3.10	2 ·	1.50	5	3.9	5.3	3.
Hartford	2,571	2	1.56	0	0.00	0	0.00	2	1.6	5.1	3.
Hickman	2,560	0	0.00	1	0.80	4	3.10	0	0.0	1.7	4.
Morgantown	2,544	0	0.00	0	0.00	0	0.00	0	0.0	0.0	0.

^{*} Crashes Per 10,000 Population

TABLE 17. CRASH RATES ON STATE-MAINTAINED STREETS BY CITY AND POPULATION CATEGORY (1996-2000)

POPULATION CATAGORY	NUMBER OF CITIES	AVERAGE RATE C/100 MVM	CITY	NUMBER OF CRASHES (1996-2000)	AVERAGE RATE C/100 MVM
OVER 200,000	2	322	Lexington Louisville	13,276 29,223	698 259
20,000-55,000	13	378	Richmond Owensboro Bowling Green Ashland Jeffersontown Florence Frankfort Covington Hopkinsville Elizabethtown Henderson Paducah Radcliff	1,461 3,429 6,483 2,461 905 4,146 3,374 5,025 3,665 3,431 2,663 2,099 1,175	732 580 525 506 430 367 364 358 320 286 280 276 275
10,000-19,999	19	442	Erlanger Newport Saint Matthews Shively Danville Mayfield Madisonville Campbellsville Georgetown Nicholasville Independence Somerset Shelbyville Fort Thomas Winchester Bardstown Murray Middlesboro Glasgow	1,743 2,621 604 818 1,119 692 1,753 955 847 1,469 1,059 1,670 1,048 223 1,238 933 863 715 601	978 889 865 746 686 549 534 419 408 405 402 384 373 370 359 300 292 222 168
5,000-9,999	35	309	Cynthiana Edgewood Fort Mitchell Harrodsburg Elsmere Lawrenceburg Shepherdsville Berea Lebanon Fort Wright Morehead Mount Sterling London Alexandria Versailles Wilmore La Grange Taylor Mill Paris Franklin Corbin Maysville Russellville Pikeville Central City Monticello	657 89 276 648 182 453 520 825 627 436 837 762 1,650 451 698 125 257 87 723 473 547 926 684 699 314 462	707 643 642 537 534 489 487 481 476 474 466 435 426 420 398 378 369 319 318 317 264 248 223 210 204 201

TABLE 17. CRASH RATES ON STATE-MAINTAINED STREETS BY CITY AND POPULATION CATEGORY (1996-2000)(continued)

POPULATION CATAGORY	NUMBER OF CITIES	AVERAGE RATE C/100 MVM	CITY	NUMBER OF CRASHES (1996-2000)	AVERAGE RATE C/100 MVM
5,000-9,999 (con		309	Flatwoods Dayton Bellevue Mount Washington Leitchfield Highland Heights Princeton Villa Hills Williamsburg	133 6 129 228 394 528 326 14 275	196 193 193 191 163 159 157 139
2,500-4,999	38	284	Lancaster Park Hills Morganfield Lakeside Park Cold Spring Scottsville Greenville Benton Springfield Irvine West Liberty Marion Southgate Providence Carrollton Prestonsburg Dawson Springs Hodgenville Ludlow Mount Vernon Columbia Vine Grove Grayson Russell Paintsville Barbourville Paintsville Barbourville Fulton Hazard Beaver Dam Tompkinsville Morgantown Calvert City Flemingsburg Stanton Hartford Cumberland Hickman Stanford	234 87 380 335 582 539 453 634 242 269 209 525 145 218 45 189 190 369 103 115 104 195 86 132 41 62 30 84	662 576 575 503 483 458 457 437 435 421 388 370 345 344 337 290 285 282 270 261 219 217 211 198 192 179 160 158 142 131 130 108 88 77 67
1,000-2,499	58	214	Dry Ridge Walton Horse Cave Falmouth Jackson Owenton Livermore Vanceburg Uniontown Sturgis Brandenburg Clay City Evarts	269 203 266 192 163 154 58 67 19 82 358 67 87	695 444 420 397 396 329 306 304 301 299 299 297 282

TABLE 17. CRASH RATES ON STATE-MAINTAINED STREETS BY CITY AND POPULATION CATEGORY (1996-2000)(continued)

POPULATION CATAGORY	NUMBER OF CITIES	AVERAGE RATE C/100 MVM	CITY	NUMBER OF CRASHES (1996-2000)	AVERAGE RATE C/100 MVM
1,000-2,499 (cont	.) 58	214	Owingsville Louisa Sebree Albany Elkhorn City Salyersville Manchester Harlan Cave City Hardinsburg South Shore Raceland Edmonton Eminence Augusta Lacenter Warsaw Whitesburg Liberty Beattyville Elkton Nortonville	124 138 73 182 93 122 353 324 377 81 497 56 112 79 1,286 50 30 152 139 108 99	281 281 269 268 265 253 246 244 233 231 229 224 222 219 209 206 205 200 199 191 188
			Junction City Russell Springs Catlettsburg Earlington Lewisport Pineville Anchorage	24 326 237 81 17 87 28	184 184 177 176 172 162 162
			Jenkins Cloverport Clinton Carlisle Cadiz Olive Hill Eddyville Clay	97 64 64 33 205 60 172 22	159 157 157 155 153 140 136 130
			Muldraugh Greensburg Auburn Lebanon Junction Jamestown Burkesville Worthington Munfordville	95 47 53 15 92 60 6	130 125 120 112 111 101 101 85 56

TABLE 18. TOTAL CRASH RATES BY CITY AND POPULATION CATEGORY (IN DESCENDING ORDER) (1996-2000)(ALL ROADS)

		ANNUAL			ANNUAL
	IUMBER OF CRASHES (1996-2000)	CRASH RATE (CRASHES PER 1000 POPULATION)	CITY	NUMBER OF CRASHES (1996-2000)	CRASH RATE (CRASHES PER 1000 POPULATION)
	`				
Louisville	CATEGORY OV 80,191	62.6 *	Hazard	LATION CATEGO 2,287	95.2 *
Lexington	61,651	47.3	Crestview Hills	1.031	71.4 *
Florence	CATEGORY 20, 8,753	74.3 *	Prestonsburg Paintsville	1,236 1,201	68.4 * 58.1 *
Paducah	9,009	68.5 *	Mount Vernon	717	55.3 *
Bowling Green Elizabethtown	15,049 6,333	61.1 * 56.2	Cold Spring Grayson	1,029 1,039	54.1 * 53.6 *
Ashland	6,089	55.4	Wilder	679	51.8 *
Covington	11,136	51.4	Columbia	1,019	50.8
Henderson Richmond	6,920 6,646	50.6 49.0	Hodgenville Scottsville	726 1,070	50.5 49.5
Owensboro	12,492	46.2	Barbourville	845	47.1
Hopkinsville Frankfort	6,317 5,323	42.0 38.4	Russell Irvine	849 653	46.6 45.9
Jeffersontown	4,788	36.4 36.0	Tompkinsville	608	45.9 45.7
Radcliff	2.878	26.2	Carrollton	858	44.6
POPULATION Somerset	CATEGORY 10, 4,203	000-19,999 74.0 *	Springfield Williamstown	572 691	43.4 42.8
Shively	4,733	62.5 *	Benton	893	42.6
Newport	4.584	53.8	Greenville	909	41.3
Bardstown Glasgow	2,722 3,378	52.5 51.9	Morgantown Crescent Springs	521 794	41.0 40.4
Campbellsville	2,551	48.6	Morganfield	699	40.0
Erlanger Winchester	4,011 3,891	48.1 46.5	Beaver Dam Lancaster	595 675	39.2 36.2
Danville	3,599	46.5 46.5	Fulton	479	34.5
Saint Matthews	3,666	46.3	Stanton	505	33.3
Madisonville Mayfield	4,407 2,297	45.7 44.4	Marion Lakeside Park	508 442	31.8 30.8
Shelbyville	2.227	44.2	Flemingsburg	442	29.4
Georgetown	3,421	37.8	Southgate	503	29.0
Nicholasville Middlesboro	3,473 1,755	35.3 33.8	West Liberty Union	467 389	28.5 26.9
Independence	1,754	23.4	Calvert City	327	24.2
Murray Fort Thomas	1,661 1,244	22.2 15.1	Stanford Cumberland	380 276	22.2 21.1
POPULATION	N CATEGORY 5,	000-9,999	Dawson Springs	294	19.7
London Fort Wright	3,285 2,070	115.4 * 72.9 *	Providence Vine Grove	350 371	19.4 17.8
Fort Wright Pikeville	2,070 2,100	72.9 66.7 *	Ludlow	37 i 341	17.0 15.5
Morehead	1.891	63.9 *	Park Hills	219	14.7
Mount Sterling Maysville	1,827 2,633	62.2 * 58.6 *	Hickman Hartford	174 156	13.6 12.1
Corbin	2,379	49.9 *	Indian Hills	39	2.7
Russellville	1,696	47.4			
Monticello Lebanon	1,416 1,261	47.3 44.1			
Cynthiana	1,380	44.1			
Harrodsburg Shepherdsville	1,759 1,774	43.9 42.6			
Versailles	1,555	41.4		* .	
Paris	1,839	40.1			
Williamsburg Fort Mitchell	961 1,478	37.4 36.5			
Bellevue	1,177	36.3			
Taylor Mill Berea	1,227 1,736	35.5 35.2			
Central City	995	33.8			
Franklin Oak Grove	1,350 1,186	33.8 33.6			
La Grange	953	33.6			
Princeton	1.041	31.9			
Alexandria Highland Heights	1,291 922	31.2 28.1			
Mount Washington	921	21.7			
Elsmere	809 803	19.9 19.8			
Lawrenceburg Leitchfield	893 596	19.8 19.4			
Edgewood	910	19.4	÷		
Flatwoods Dayton	677 514	17.8 17.2			
Villa Hills	357	9.0			
Wilmore	234	7.9 7.5			
Middletown Lyndon	216 112	7.5 2.4			

^{*} Critical crash rate

TABLE 19. FATAL CRASH RATES BY CITY AND POPULATION CATEGORY (IN DESCENDING ORDER WITH CRITICAL RATES IDENTIFIED)(1996-2000)(ALL ROADS)

	NUMBER OF	ANI CRASH I	NUAL		NUMBED OF	AN CDACU	NUAL
	CRASHES	(CRASHES			NUMBER OF CRASHES	CRASHE	
CITY	(1996-2000)	10,000 POPULAT		CITY	(1996-2000)	10,000 POPULA	TION)
POPULA	TION CATEGORY	OVER 200,000			LATION CATEGO	ORY 2,500-4,999	
Louisville	157		1.23	Prestonsburg	11 5		6.09
Lexington	117 TION CATEGORY	200 000 55 000	0.90	Mount Vernon	5		3.86
Paducah	TION CATEGORY 23	20,000-55,000	1.75	Paintsville Greenville	7		3.39
Richmond	16		1.73	Tompkinsville	o a		2.73 2.26
Elizabethtown	13		1.15	Barbourville	6 3 4		2.23
Florence	13		1.10	Calvert City			2.22
Hopkinsville	15		1.00	Hodgenville	3 3 3 3 4		2.09
Bowling Green	24		0.97	Stanton	3		1.98
Henderson	13		0.95	Williamstown	3		1.86
Frankfort Radcliff	11		0.79	Scottsville	4		1.85
Ashland	7 7		0.64 0.64	Carrollton Hartford	3		1.56
Owensboro	17		0.63	Columbia	2		1.56 1.49
Covington	, ,		0.42	Beaver Dam	ა 2		1.49
Jeffersontown	4		0.30	Hazard	3		1.25
	TION CATEGORY	10,000-19,999		Stanford	ž		1.17
Somerset	16	•	2.82	Lancaster	32323222		1.07
Shelbyville	12		2.38	Cold Spring	2		1.05
Danville Shively	15 10		1.94	Benton	2		0.95
Erlanger	10		1.32 1.32	Springfield Fulton]		0.76
Bardstown	6		1.16	Irvine	. !		0.72 0.70
Madisonville	8		0.83	Lakeside Park	4		0.70
Georgetown	8 7		0.77	Dawson Springs	i		0.67
Independence	5 5		0.67	Flemingsburg	1		0.66
Saint Matthews	. 5		0.63	Marion	1		0.63
Fort Thomas	5		0.61	Providence	1		0.55
Nicholasville	6 4		0.61	Grayson	1		0.52
Glasgow Mayfield	3		0.61 0.58				
Campbellsville	3		0.57	·			
Winchester	. 4		0.48				
Newport	4		0.47				
Murray	3		0.40				•
Middlesboro	1		0.19				
Pikeville	ATION CATEGOR	Y 5,000-9,999	0.40				
Mount Sterling	11 10		3.49 3.40				
Shepherdsville	12		2.88				
Central City	18		2.72				
London	7		2.46				
Maysville	. 11		2.45				
Williamsburg	6		2.33		•		
La Grange	5		1.76				
Corbin Morehead	8 5		1.70 1.69				
Alexandria	7	•	1.69				
Franklin	6		1.50				
Monticello	4		1.34				
Berea			1.22				
Leitchfield	3		0.98				
Russellville	6 3 2 2 2 2		0.84				
Harrodsburg Fort Mitchell	2		0.50 0.49				
Lawrenceburg	5		0.49				
Fort Wright	1		0.35	•			
Lebanon	i		0.35				
Cynthiana	1		0.32				
Bellevue	1		0.31				
Princeton	. 1		0.31				
Highland Heights	1		0.31				
Versailles Mount Washingto	n 1		0.27 0.24				•
Paris	1		0.22	,			
* Critical crash	roto		·		-		-

^{*} Critical crash rate

TABLE 20. CRASHES INVOLVING ALCOHOL BY COUNTY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES)

	NUMBER (RELATEI	DF ALCOHOL- D CRASHES 6-2000)	PERCENT OF T	OTAL CRASHES
COUNTY	ALL	AGE 16-20	ALL	AGE 16-20
	DODUL A	TION CATEGORY III	DED 40.000	
Robertson	13	TION CATEGORY UN 2	DER 10,000 13.3	6.7
Elliott	54	8	10.6	4.9
Nicholas	84	11	10.2	4.4
Owsley	39	10	10.1	9.3
Menifee	50	13	9.3	7.6
Lee	45	3	7.9	2.2
Ballard	78	9	7.0	3.0
Livingston	74	4	6.9	1.2
Wolfe	68	13	6.4	4.3
Crittenden	68	12	6.1	3.0
Hickman	30	5	5.8	3.6
Gallatin	65	10	5.8	3.6
Fulton	52	3	5.0	1.2
Trimble	51	6	4.9	1.9
Hancock	42	2	4.9	0.9
Bracken	60	13	4.6	3.4
Clinton	34	1	4.5	0.4
McLean	52	6	4.4	1.5
Carlisle	12	3	4.4	3.8
Lyon	45	9	3.7	3.4
Cumberland	16	2	3.4	1.2
			-	
	POPULA [*]	TION CATEGORY 10,0	000 - 14,999	
Magoffin	117	23	9.0	6.2
Leslie	101	7	8.0	2.0
Spencer	75	-11	7.3	3.4
Owen	87	8	7.1	2.0
Lewis	112	17	7.1	3.8
Jackson	96	19	7.1	4.6
Washington	94	13	6.6	2.4
Carroll	140	18	6.4	2.9
Monroe .	58	12	6.3	3.5
Pendleton	118	15	6.0	2.5
Butler	73	11	6.0	2.3
Martin	79	13	5.9	3.1
Edmonson	66	3	5.9	8.0
Bath	91	14	5.7	3.2
Garrard	102	13	5.3	2.5
Fleming	75	12	5.2	2.5
Green	65	6	5.0	1.5
Todd	60	7	4.7	1.8
Morgan	73	4	4.7	0.9
Metcalfe	48	2	4.6	0.7
Caldwell	81	8	4.5	1.4
Powell	80	14	4.5	2.5
Larue	74	16	4.4	2.9
Webster	81	16	4.1	2.7
Trigg	57	5	3.6	1.2
	PODI II A	TION CATEGORY 15,0	24 000	•
Marion	265	37	10.8	4.2
Casey	84	12	7.8	3.4
Henry	144	19	7.4	3.6
Estill	139	25	7.4	3.8
McCreary	99	12	6.8	2.5
Lincoln	137	25	6.7	4.2
Russell	109	25 17	6.6	3.6
Breathitt	141	25	6.6	3.6 4.2
	226	33	6.4	3.3
Woodford			6.4 6.2	
Knott	109	15	6.2 6.1	2.8 2.5
Johnson Anderson	172 140	22 26		
Anderson	140	26 20	5.9 5.8	3.6
Bourbon	198	20	5.8	2.1

TABLE 20. CRASHES INVOLVING ALCOHOL BY COUNTY AND POPULATION CATEGORY
(IN ORDER OF DECREASING PERCENTAGES) (continued)

	RELATE	DF ALCOHOL- D CRASHES 6-2000)		OTAL CRASHES
COUNTY	ALL	AGE 16-20	ALL	AGE 16-20
	POPLII ATION	CATEGORY 15,000 - 2	24 999 (continued)	
Union	137	24	5.7	2.9
Clay	125	9	5.5	1.4
Lawrence	79	16	5.5	4.5
Breckinridge	74	7	5.3	1.3
Grayson	121	12	5.2	1.6
Montgomery	193	31	5.1	2.7
Harrison	138	25	5.0	2.7
Mason	196	34	4.9	3.2
Allen	102	11	4.8	1.7
Ohio	127	12	4.6	1.5
Mercer	137	17	4.4	1.7
Taylor	161	34	4.4	2.4
Hart	88	8	4.2	1.4
Simpson	109	12	4.1	1.5
Adair	95	20	4.0	2.4
Rockcastle	91	7	4.0	1.2
Wayne	89	17	3.8	2.0
Rowan	154	29	3.7	2.0
Grant	154	16	3.6	1.2
Floyd	POPULA 336	TION CATEGORY 25,0		0.1
Floyd Letcher	179	47 31	6.4 6.0	3.1 4.0
Meade	153	31 24	5.9	4.0 2.5
Greenup	222	30	5.9 5.6	2.3 2.3
Carter	192	23	5.4	2.3 2.1
Knox	207	21	5.4	1.7
Nelson	300	41	5.4	2.0
Jessamine	328	39	5.2	2.0
Perry	263	32	5.1	2.1
Harlan	192	34	5.1	3.0
Calloway	178	36	5.0	2.5
Shelby	267	29	4,9	2.0
Bell	165	25	4.8	2.7
Logan	158	19	4.6	1.6
Clark	277	37	4.6	2.1
Barren	250	30	4.5	1.5
Marshall	170	17	4.5	1.4
Franklin	351	46	4.4	2.2
Whitley	208	32	4.1	2.1
Graves	190	29	3.8	1.8
Muhlenberg	184	25	3.8	1.6
Scott	237	34	3.6	1.9
Henderson Oldham	340 152	41 29	3.5 3.4	1.3
	153	29 20	3.4	1.8
Boyle Boyd	318	20 54	3.3	1.5 1.8
Hopkins	239	26	2.9	1.1
		TION CATEGORY 50,0		·
Bullitt	370	37	5.7	1.7
Madison	733	121	5.6	3.0
Pike	605	76 120	5.5	2.5
Kenton	1361	130	4.8	1.6
Christian	462 631	52	4.7	1.9
Campbell Fayette	2469	68 263	4.5 4.0	1.6 1.6
Daviess	664	100	3.9	1.6
Warren	775	113	3.9	1.6
McCracken	534	61	3.8	1.4
Laurel	299	38	3.6	1.6
Boone	605	80	3.6	1.4
Jefferson	4843	398	3.4	1.1
Hardin	455	63	3.4	1.5
Pulaski	279	35	3.2	1.2
	_, 0	30	J.L	• • • • •

TABLE 21. CRASHES INVOLVING ALCOHOL BY CITY AND POPULATION CATEGORY(IN ORDER OF DECREASING PRECENTAGES)(1996-2000)

<u> </u>	NUMBER OF ALCOHOL-	PERCENTAGE OF CRASHES		NUMBER OF ALCOHOL-	PERCENTAGE OF CRASHES
CITY	RELATED CRASHES	INVOLVING ALCOHOL	 CITY	RELATED CRASHES	INVOLVING ALCOHOL
POPULATION Lexington Louisville POPULATION Covington Richmond Hopkinsville Frankfort Owensboro Radcliff Bowling Green Paducah Henderson Florence Jeffersontown Ashland Elizabethtown POPULATION Newport Independence Middlesboro Nicholasville Shively Erlanger Shelbyville Fort Thomas Winchester Bardstown Campbellsville Georgetown Murray Danville Glasgow Madisonville Mayfield Saint Matthews Somerset POPULATIO Dayton Villa Hills Fort Mitchell Elsmere Mount Washington Lebanon Lawrenceburg Taylor Mill Paris Pikeville Shepherdsville Franklin Highland Heights Maysville Williamsburg Versailles Leitchfield Bellevue Mount Sterling Harrodsburg Fort Wright Central City	ALCOHOL- RELATED CRASHES CATEGORY OVE 2,4444 2,422 1,422 1,422 1,423 1,404 89 440 262 185 220 111 125 110 1,00 244 91 84 153 194 162 82 45 129 79 71 85 38 78 74 81 41 66 N CATEGORY 5,0 33 20 73 39 42 56 38 53 75 84 67 47 30 85 31 49 19 37 57 54 63 30	OF CRASHES INVOLVING ALCOHOL R 200,000 00-55,000 4.0 3.0 00-55,000 4.5 3.5 3.3 3.2 3.1 2.9 2.9 2.7 2.5 2.3 2.1 1.7 00-19,999 5.3 5.2 4.8 4.4 4.1 4.0 3.7 3.6 3.3 2.9 2.8 2.5 2.3 2.1 1.7 00-9,999 6.4 5.6 4.9 4.8 4.6 4.4 4.3 4.3 4.1 4.0 3.5 3.3 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2		ALCOHOL- RELATED	OF CRASHES INVOLVING ALCOHOL
Fort Wright Central City Cynthiana Flatwoods Berea Russellville Monticello Alexandria Princeton Corbin Morehead	63 30 42 19 47 44 36 31 25 50	3.0 3.8 2.7 2.6 2.5 2.4 2.3 2.1			
La Grange Edgewood London Wilmore	20 18 62 2	2.1 2.0 1.9 0.9			

TABLE 22. SUMMARY OF ALCOHOL CONVICTIONS BY COUNTY (1996-2000)

					2.000	7111 (1000 2000)		41.55
						TOTAL	ANNUAL AVERAGE	ALCOHOL CONVICTIONS
						ALCOHOL	ALCOHOL CONVICTIONS	PER ALCOHOL-
OOLINTA (4000	4007	1000	1000		CONVICTIONS	PER 1,000	RELATED
COUNTY	1996	1997	1998	1999	2000	(FIVE YEARS)	LICENSED DRIVERS	CRASH
Adair Allen	158 96	157 100	160	111 94	153	739 506	13.3 8.6	7.8
Anderson	133	137	119 172	225	97 158	825	8.6 12.1	5.0 5.9
Ballard	119	122	98	93	88	520	17.1	5.9 6.7
Barren	262	286	276	225	232	1,281	9.8	5.1
Bath	56	69	62	86	55	328	8.8	3.6
Bell	380	444	337	366	357	1,884	22.0	11.4
Boone	481	641	687	550	659	3,018	9.9	5.0
Bourbon	169	161	154	173	213	870	12.7	4.4
Boyd	325	264	361	364	306	1,620	9.4	5.1
Boyle	131	164	138	151	116	700	7.5	4.6
Bracken	58	47	53	44	28	230	7.9	3.8
Breathitt	97	129	122	124	104	576	12.3	4.1
Breckinridge	73	88	111	80	83	435	6.7	5.9
Bullitt	497	475	431	464	576	2,443	10.9	6.6
Butler	94	113	134	124	116	581	13.3	8.0
Caldwell	77	80	78	97	74	406	8.5	5.0
Calloway	297	296	267	164	208	1,232	10.7	6.9
Campbell	615	845	1,030	873	855	4,218	14.1	6.7
Carlisle	37	31	44	32	21	165	8.3	13.8
Carroll	163	199	172	135	215	884	25.5	6.3
Carter	170	167	187	143	236	903	10.3	4.7
Casey	162	190	188	148	112	800	16.1	9.5
Christian Clark	560 281	753 367	957 354	850 353	694 367	3,814	22.0 14.8	8.3 6.2
Clay	195	187	253	295	286	1,722 1,216	18.6	9.7
Clinton	110	81	134	125	93	543	16.4	16.0
Crittenden	40	43	54	68	84	289	8.8	4.3
Cumberland	61	58	77	98	65	359	14.9	22.4
Daviess	597	608	700	655	596	3,156	9.8	4.8
Edmonson	52	53	39	30	36	210	5.1	3.2
Elliott	31	44	49	27	50	201	9.2	3.7
Estill	106	130	120	131	98	585	11.5	4.2
Fayette	2,485	2,443	2,420	2,119	1,824	11,291	12.9	4.6
Fleming	65	63	48	65	78	319	6.7	4.3
Floyd	366	320	445	345	419	1,895	13.8	5.6
Franklin	473	431	455	333	443	2,135	12.7	6.1
Fulton	136	115	123	122	140	636	26.4	12.2
Gallatin	55	66	87	101	115	424	15.9	6.5
Garrard	73	78	92	171	133	547 1,094	10.8	5.4
Grant	245 255	249 255	218	217 282	165	1,094	14.1 10.7	7.1 7.2
Graves	142	152	268 228	139	311 130	791	9.4	6.5
Grayson Green	22	37	50	37	42	188	4.8	2.9
Greenup	273	291	309	321	299	1,493	' 11.4	6.7
Hancock	32	51	76	56	57	272	8.8	6.5
Hardin	640	615	663	688	691	3,297	10.9	7.2
Harlan	470	484	436	475	336	2,201	21.1	11.5
Harrison	201	164	132	98	108	703	11.2	5.1
Hart	146	109	113	105	130	603	10.6	6.9
Henderson	456	412	391	447	467	2,173	13.6	6.4
Henry	181	193	166	113	114	767	14.5	5.3
Hickman	24	29	46	29	29	157	8.3	5.2
Hopkins	454	416	364	403	365	2,002	12.3	8.4
Jackson	104	123	97	101	100	525	12.3	5.5
Jefferson	4,191	3,947	3,800	3,507	3,845	19,290	8.2	4.0
Jessamine	245	223	237	314	431	1,450	11.0	4.4
Johnson	165	177	152	192	206	892	. 11.3	5.2
Kenton	905	1,000	1,066	1,157	1,160	5,288	10.4	3.9
Knott	127	162	138	122	77	626	11.7	5.7
Knox	319	342	327	334	208	1,530	15.6 7.5	7.4
Larue	75	72 501	67 714	72 670	71 677	357	7.5 17.2	4.8
Laurel .	447	501	714	679	677	3,018	17.2	10.1 8.0
Lawrence	94	131	138	118	149	630	12.3	6.0

TABLE 22. SUMMARY OF ALCOHOL CONVICTIONS BY COUNTY (1996-2000) (continued)

						TOTAL	ANNUAL AVERAGE	ALCOHOL CONVICTIONS
						ALCOHOL	ALCOHOL CONVICTIONS	PER ALCOHOL-
						CONVICTIONS	PER 1,000	RELATED
COUNTY	1996	1997	1998	1999	2000	(FIVE YEARS)	LICENSED DRIVERS	CRASH
Lee	57	72	44	53	59	285	11.7	6.3
Leslie	63	112	64	122	109	470	11.5	4.7
Letcher	138	152	165	140	116	711	8.4	4.0
Lewis	66	112	138	98	101	515	11.2	4.6
Lincoln	128	118	105	98	98	547	7.1	4.0
Livingston	125	128	94	77	81	505	14.0	6.8
Logan	193	173	200	205	206	977	10.7	6.2
Lyon	105	77	73	56	78	389	14.4	8.6
McCracken	771	703	751	589	573	3,387	14.0	6.3
McCreary	129	91	138	188	189	735	14.0	7.4
McLean	48	56	49	43	38	234	6.5	4.5
Madison	741	859	889	667	646	3,802	16.6	4.5 5.2
Magoffin	152	113	100	154	134	653	15.3	5.6
Marion	126	163	149	183	173	794	13.4	3.0
Marshall	137	168	250	216	190	961	8.4	5.7
Martin	91	102	250 85	122	178	578	0.4 14.2	5.7 7.3
Mason	165	164	147	125		765		
	290				164		13.1	3.9
Meade		301	302	214	193	1,300	15.7	8.5
Menifee	19	23	25	61	31	159	7.5	3.2
Mercer	. 183	156	171	107	76	693	9.2	5.1
Metcalfe	40	77	61	58	65	301	8.9	6.3
Monroe	55	61	49	79	55	299	7.5	5.2
Montgomery	155	159	161	178	153	806	10.3	4.2
Morgan	72	107	101	89	72	441	11.0	6.0
Muhlenberg	251	201	198	198	185	1,033	9.4	5.6
Nelson	217	243	269	207	259	1,195	, 8.9	4.0
Nicholas	46	45	71	51	69	282	11.0	3.4
Ohio	157	166	117	113	126	679	8.5	5.3
Oldham	128	161	177	164	150	780	4.9	5.1
Owen	24	43	. 57	53	38	215	6.1	2.5
Owsley	32	43	37	30	75	217	12.7	5.6
Pendleton	80	79	104	54	75	392	7.8	3.3
Perry	356	413	325	347	283	1,724	17.2	6.6
Pike	447	656	484	406	395	2,388	10.5	3.9
Powell	97	110	125	151	132	615	13.7	7.7
Pulaski	371	390	400	390	356	1,907	9.5	6.8
Robertson	6	13	9	7	3	38	4.9	2.9
Rockcastle	269	261	220	201	229	1,180	, 22.0	13.0
Rowan	289	290	283	219	251	1,332	19.9	8.6
Russell	158	177	167	115	128	745	12.8	6.8
Scott	177	242	239	230	199	1,087	, 9.4	4.6
Shelby	219	349	292	368	399	1,627	14.7	6.1
Simpson	159	153	210	183	169	874	15.3	8.0
Spencer	46	59	58	70	79	312	7.3	4.2
Taylor	168	214	212	153	169	916	11.5	5.7
Todd	47	104	95	63	75	384	9.8	6.4
Trigg	129	100	130	91	76	526	11.5	9.2
Trimble	23	34	66	49	25	197	6.8	3.9
Union	178	166	153	138	197	832	15.4	6.1
Warren	1,041	1,251	1,235	938	982	5,447	18.2	7.0
Washington	52	50	53	- 55	55	265	. 6.9	2.8
Wayne _	60	81	94	101	95	431	6.8	4.8
Webster	55	38	66	56	120	335	6.8	4.1
Whitley	149	211	262	344	330	1,296	11.8	6.2
Wolfe	61	82	76	74	89	382	15.8	5.6
Woodford	180	200	250	233	262	1,125	، 13.2	5.0
TOTAL *	30,270	32,052	32,829	30,534	30,604	156,289	11.5	5.4

^{*} Does not include DUI convictions where county was not specified.

TABLE 23. ALCOHOL CONVICTION RATES IN DECREASING ORDER (BY COUNTY POPULATION CATEGORIES) (1996-2000)

		ANNUAL AVERAGE ALCOHOL CONVICTIONS		ALCOHOL CONVICTIONS PER ALCOHOL- RELATED
POPULATION	COUNTY	PER 1,000 LICENSED DRIVERS	COUNTY	CRASH
JNDER 10,000	Fulton	26.4	Cumberland	22.4
	Ballard	17.1	Clinton	16.0
	Clinton	16.4	Carlisle	13.8
	Gallatin	15.9	Fulton	12.2
	Wolfe	15.8	Lyon	8.6
	Cumberland	14.9	Livingston	6.8
	Lyon	14.4	Ballard	6.7
	Livingston	14.0	Gallatin	6.5
	Owsley	12.7	Hancock	6.5
	Lee	11.7	Lee	6.3
	Nicholas	11.0	Wolfe	5.6
	Elliott			5.6
		9.2	Owsley	
	Hancock	8.8	Hickman	5.2
	Crittenden	8.8	McLean	4.5
	Carlisle	8.3	Crittenden	4.3
	Hickman	8.3	Trimble	3.9
	Bracken	7.9	Bracken	3.8
	Menifee	7.5	Elliott	3.7
	Trimble	6.8	Nicholas	3.4
	McLean	6.5	Menifee	3.2
	Robertson	4.9	Robertson	2.9
0,000-14,999	Carroll	25.5	Trigg	9.2
0,000 17,000	Magoffin	15.3	Butler	8.0
	Martin	14.2	Powell	7.7
		13.7		7.7 7.3
	Powell		Martin	7.3 6.4
	Butler	13.3	Todd	
	Jackson	12.3	Carroll	6.3
	Leslie	11.5	Metcalfe	6.3
	Trigg	11.5	Morgan	6.0
	Lewis	11.2	Magoffin	5.6
	Morgan	11.0	Jackson	5.5 ′
	Garrard	10.8	Garrard	5.4
	Todd	9.8	Monroe	5.2
	Metcalfe	8.9	Caldwell	5.0
	Bath	8.8	Larue	4.8
	Caldwell	8.5	Leslie	4.7
	Pendleton	7.8	Lewis	4.6
	Larue	7.5	Fleming	4.3
	Monroe	7.5	Spencer	4.2
	Spencer	7.3	Webster	4.1
	Washington	6.9	Bath .	3.6
	Webster	6.8	Pendleton	3.3
		6.7	Edmonson	3.2
	Fleming		Green	2.9
	Owen	6.1		2.8
	Edmonson Green	5.1 4.8	Washington Owen	2.8 2.5 ₍
	•			
5,000-24,999	Rockcastle	22.0	Rockcastle	13.0
	Rowan	19.9	Clay	9.7
	Clay	18.6	Casey	9.5
	Casey	16.1	Rowan	. 8.6
	Union	15.4	Simpson	8.0
	Simpson	15.3	Lawrence	8.0
	Henry	14.5	Adair	7.8
	Grant	14.1	McCreary	7.4
	McCreary	14.0	Grant	7.1
	Marion	13.4	Hart	6.9
	Adair	13.3	Russell	6.8
	Woodford	13.2	Grayson	6.5
	Mason	13.1	Union	6.1
			Anderson	5.9
	Russell	12.8		
	Bourbon	12.7	Breckinridge	5.9
	Breathitt	12.3	Knott	5.7
	•	10.0	Taylor	5.7
	Lawrence	12.3 12.1	Ohio	5.3

TABLE 23. ALCOHOL CONVICTION RATES IN DECREASING ORDER (BY COUNTY POPULATION CATEGORIES) (1996-2000) (continued)

		PER 1,000		RELATED PER ALCOHOL-
	COUNTY	LICENSED DRIVERS		CONVICTIONS
		ANNUAL AVERAGE		ALCOHOL
POPULATION		ALCOHOL CONVICTIONS	COUNTY	CRASH
15,000-24,999	Knott	11.7	Henry	5.3
cont'd)	Estill	11.5	Johnson	5.2
•	Taylor	11.5	Harrison	5.1
	Johnson	11.3	Mercer	5.1
	Harrison	11.2	Woodford	5.0
	Hart	10.6	Allen	5.0
	Montgomery	10.3	Wayne	4.8
	Grayson	9.4	Bourbon	4.4
	Mercer	9.2	Estill	4.2
	Allen	8.6	Montgomery	4.2
	Ohio	8.5	Breathitt	4,1
	Lincoln	7.1	Lincoln	4.0
	Wayne	6.8	Mason	3.9
	•	6.7		3.0
	Breckinridge	0.7	Marion	3.0
5,000 - 49,999	Bell	22.0	Harlan	11.5
	Harlan	21.1	Bell	11.4
	Perry	17.2	Meade	8.5
	Meade	15.7	Hopkins	8.4
	Knox	15.6	Knox	7.4
	Clark	14.8	Graves	7.2
	Shelby	14.7	Calloway	6.9
	Floyd	13.8	Greenup	6.7
	Henderson	13.6	Perry	6.6
	Franklin	12.7	Henderson	6.4
	Hopkins	12.7	Whitley	6.2
			•	
	Whitley	11.8	Clark	6.2
	Greenup	11.4	Logan	6.2
	Jessamine	11.0	Shelby	6.1
	Graves	10.7	Franklin	6.1
	Logan	10.7	Marshall	5.7
	Calloway	10.7	Floyd	5.6
	Carter	10.3	Muhlenberg	5.6 '
	Barren	9.8	Oldham	5.1
	Scott	9.4	Barren	5.1
	Boyd	9.4	Boyd	5.1
	Muhlenberg	9.4	Carter	4.7
	Nelson	8.9	Scott	4.6
	Letcher	8.4	Boyle	4.6
	Marshall	8.4	Jessamine	4.4
	Boyle	7.5	Nelson	4.0
	Oldham	4.9	Letcher	4.0
0,000 - OVER	Christian	22.0	Laurel	10.1
0,000 0 1 11	Warren	18.2	Christian	8.3
	Laurel	17.2	Hardin	7.2
	Madison	16.6	Warren	7.0
•	Campbell	14.1	Pulaski	6.8 ,
	McCracken		Campbell	6.7
		14.0	Bullitt	6.6
	Fayette	12.9		
	Hardin	10.9	McCracken	6.3
	Bullitt	10.9	Madison	5.2
	Pike	10.5	Boone	5.0
	Kenton	10.4	Daviess	4.8
	Boone	9.9	Fayette	4.6
	Daviess	9.8	Jefferson	4.0
	Pulaski	9.5	Pike	3.9
	Jefferson	8.2	Kenton	3.9

TABLE 24. PERCENTAGE OF DRIVERS CONVICTED OF DUI ARREST (BY COUNTY) (1996-2000) TOTAL DUI TOTAL DUI CONVICTI							
COUNTY							
COUNTY	ARRESTS*	CONVICTIONS**	PERCENTAGE				
Adair	1,054	739	70.1				
Allen	685	506	73.9				
Anderson	1,066	825	73.9 77.4				
Ballard	625	520	83.2				
Barren			70.9				
Bath	1,807	1,281 328					
	489		67.1				
Bell Boone	2,665	1,884	70.7				
	4,296	3,018	70.3				
Bourbon	1,253	870	69.4				
Boyd	2,196	1,620	73.8				
Boyle	1,042	700	67.2				
Bracken	281	230	81.9				
Breathitt	916	576	62.9				
Breckinridge	555	435	78.4				
Bullitt	3,612	2,443	67.6				
Butler	744	581	78.1				
Caldwell	472	406	86.0				
Calloway	1,680	1,232	73.3				
Campbell	5,421	4,218	77.8				
Carlisle	209	165	78.9				
Carroll	1,169	884	75.6				
Carter	1,530	903	59.0				
Casey	1,080	800	74.1				
Christian	5,119	3,814	74.5				
Clark	2,102	1,722	81.9				
Clay	2,405	1,216	50.6				
Clinton	818	543	66.4				
Crittenden	342	289	84.5				
Cumberland	510	359	70.4				
Daviess	3,902	3,156	80.9				
Edmonson	324	210	64.8				
Elliott	288	201	69.8				
Estill	886	585	66.0				
Fayette	13,276	11,291	85.0				
Fleming	373	319	85.5				
Floyd	2,882	1,895	65.8				
Franklin	3,141	2,135	68.0				
Fulton	813	636	78.2				
Gallatin	726	424	58.4				
Garrard	811	547	67.4				
Grant	1,228	1,094	89.1				
Graves	1,850	1,371	74.1				
Grayson	965	791	82.0				
Green	246	188	76.4				
Greenup	2,011	1,493	74.2				
Hancock	349	272	77.9				
Hardin	4,178	3,297	78.9				
Harlan		2,201	83.7				
	2,629		81.8				
Harrison	859 757	703					
Hart Handaraan	757 2.551	603	79.7				
Henderson	2,551	2,173	85.2				
Henry	946	767	81.1				
Hickman	197	157	79.7				
Hopkins	2,286	2,002	87.6				
Jackson	768	525	68.4				
Jefferson	28,995	19,290	66.5				
Jessamine	1,945	1,450	74.6				
Johnson	1,343	892	66.4				
Kenton	8,292	5,288	63.8				
Knott	894	626	70.0				
Knox	2,181	1,530	70.2				
Larue	470	357	76.0				

	TOTAL DUI	TOTAL DUI	CONVICTION
COUNTY	ARRESTS*	CONVICTIONS**	PERCENTAGI
_aurel	3,906	3,018	77.
Lawrence	903	630	69.
Lee	408	285	69.:
Leslie	852	470	55.:
Letcher	985	711	72.
Lewis	634	515	81.
Lincoln	721	547	
			. 75.
Livingston	595	505	84.9
Logan	1,386	977	70.
Lyon	514	389	75.`
McCracken	4,173	3,387	81.3
McCreary	1,166	735	63.0
McLean	273	234	85.
Madison	5,185	3,802	73.
Magoffin	838	653	77.9
Marion	1,290	794	61.0
Viarshall	1,173	961	81.9
Martin	770	578 .	75.
Mason	928	765	82.4
Meade	1,652	1,300	78.
Menifee	255	159	62.4
Mercer	834	693	
			83.
Metcalfe	445	301	67.0
Monroe	502	299	59.0
Montgomery	1,097	806	73.
Morgan	543	441	81.3
Muhlenberg	1,253	1,033	82.4
Velson	1,549	, 1,195	77.
Nicholas	398	282	70.9
Ohio	905	679	
Oldham			75.0
	1,187	780	65.
Owen	315	21 5 ,	68.3
Owsley	502	217	43.2
Pendleton	538	392	72.9
Perry	2,430	1,724	70.9
Pike	3,852	2,388	62.0
Powell	931	615	66.
Pulaski	3,103	1,907	61.
Robertson			
	64	38	59.4
Rockcastle	1,770	1,180	66.7
Rowan	1,555	1,332	85.7
Russell	1,071	745	69.6
Scott	1,522	1,087	71.4
Shelby	2,151	1,627	75.6
Simpson	1,109	874	78.8
Spencer	451	312	69.2
aylor	1,190	916	77.0
odd	502	384	76.5
rigg	683	526	77.0
rimble	265	197	74.3
Jnion	971	832	85.7
Varren	7,015	5,447	77.6
Vashington	373	265	71.0
Vayne	624	431	69.1
Vebster	443	335	75.6
Vhitley	2,138	1,296	60.6
Volfe	545	382	70.1
Voodford	1,533	1,125	73.4

Obtained from Administrative Office of the Courts Obtained from Division of Driver Licensing of KY Transportation Cabinet

TABLE 25. DUI ARREST CONVICTION RATES BY COUNTY AND POPULATION CATEGORY (IN DESCENDING ORDER) (1996-2000)

(III DESCENDING	(IN DESCENDING ORDER) (1996-2000)					
	AVERAGE					
	CONVICTION		TOTAL DUI	TOTAL DUI	CONVICTION	
POPULATION CATEGORY	PERCENTAGE	COUNTY	ARRESTS	CONVICTIONS	PERCENTAGE	
LINDED 40 000						
UNDER 10,000	72.7	McLean	273	234	85.7	
		Livingston	595	505	84.9	
		Crittenden	342	289	84.5	
		Ballard	625	520	83.2	
		Bracken	281	230	81.9	
		Hickman	197	157	79.7	
		Carlisle	209	165	78.9	
		Fulton	813	636	78.2	
		Hancock	349	272	77.9	
		Lyon	514	389	75.7	
		Trimble	265	197	74.3	
		Nicholas	398	282	70.9	
		Cumberland	510	359	70.4	
		Wolfe	545	382	70.1	
		Lee	408	285	69.9	
		Elliott	288	201	69.8	
		Clinton	818	543	66.4	
	•	Menifee	255	159	62.4	
		Robertson	64	38	59.4	
		Gallatin	726	424	58.4	
		Owsley	502	217	43.2	
10,000-14,999	72.8	Caldwell	• 472	406	86.0	
		Fleming	373	319	85.5	
		Lewis	634	515	81.2	
		Morgan	543	441	81.2	
		Butler	744	581	78.1	
		Magoffin	838	653	77.9	
		Trigg	683	526	77.0	
		Todd	502	384	76.5	
		Green	246	188	76.4	
		Larue	470	357	76.0	
		Webster	443	335	75.6	
		Carrol!	1169	884	75.6	
		Martin	770	578	75.1	
		Pendleton	538	392	72.9	
		Washington	373	265	71.0	
		•	451	312	69.2	
		Spencer				
		Jackson	768	525	68.4	
		Owen	315	215	68.3	
		Metcalfe	445	301	67.6	
		Garrard	811	, 547	67.4	
		Bath	489	328	67.1	
		Powell	931	615	66.1	
		Edmonson	324	210	64.8	
		Monroe	502	299	59.6	
		Leslie	852	470	55.2	
		Loone	002	,,,	00.2	
15,000-24,999	73.8	Grant	1228	1094	89.1	
		Union	971	832	85.7	
		Rowan	1555	1332	85.7	
		Mercer	834	693	83.1	
		Mason	928	765	82.4	
		Grayson	965	791	82.0	
		Harrison	859	703	81.8	
		Henry	946	767	81.1	
		Hart	757	603	79.7	
		Simpson	1109	874	78.8	
		Breckinridge	555	435	78.4	
		_				
		Anderson	1066	825	77.4	
		Taylor	1190	916	77.0	
		Lincoln Ohio	721 905	547 679	75.9 75.0	

TABLE 25. DUI ARREST CONVICTION RATES BY COUNTY AND POPULATION CATEGORY (IN DESCENDING ORDER) (1996-2000) (continued)

(IN DESCENDING	G ORDER) (1996-200 AVERAGE	o) (continued)			
	CONVICTION		TOTAL	TOTAL	CONVICTION
POPULATION CATEGORY	PERCENTAGE	COUNTY	ARRESTS	CONVICTIONS	PERCENTAGE
15,000-24,999		Casey	1080	' 800	74.1
(continued)		Allen	685	506	73.9
•		Montgomery	1097	806	73.5
		Woodford	1533	1125	73.4
		Adair	1054		70.1
		Knott	894	626	70.0
		Lawrence	903	630	69.8
		Russell	1071	745	69.6
		Bourbon	1253	870	69.4
•		Wayne	624	431	69.1
		Rockcastle	1770	1180	66.7
	•	Johnson	1343	892	66.4
		Estill	886	585	66.0
		McCreary	1,166	735	63.0
		•	916	576	62.9
		Breathitt			
		Marion	1290	794	61.6
		Clay	2405	1216	50.6
25,000-49,999	73.6	Hopkins	2286	2002	87.6
		Henderson	2551	2173	85.2
		Harlan	2629	2201	83.7
		Muhlenberg	1253	1033	82.4
		Marshall	1173	961	81.9
		Clark	2102	1722	81.9
		Meade	1652	1300	78.7
		Nelson	1549	1195	77.1
		Shelby	2151	1627	75.6
			1945	1450	73.6 74.6
		Jessamine			
		Greenup	2011	1493	74.2
		Graves	1850	1371	74.1
		Boyd	2196	1620	73.8
		Calloway	1680	1232	73.3
		Letcher	985	711	72.2
•		Scott	1522	1087	71.4
		Perry	2430	1724	70.9
		Barren	1807	1281	70.9
		Bell	2665	1884	70.7
		Logan	1386	977	70.5
		Knox	. 2181	1530	70.2
		Franklin	3141	2135	68.0
		Boyle	1042	700	67.2
		Floyd	2882	1895	65.8
		Oldham	1187	780	65.7
		Whitley	2138	1296	60.6
		Carter	1530	903	59.0
50,000 - OVER	73.2	Fayette	13276	11291	85.0
50,000 - OVER	13.2		4,173		81.2
		McCracken		3,387	
		Daviess	3902	3156	80.9
		Hardin	4178	3297	78.9
		Campbell	5421	4218	77.8
		Warren	7015	5447	
		Laurel	3906	3018	77.3
		Christian	[*] 5119	3814	74.5
		Madison	5185	3802	73.3
		Boone	4296	3018	70.3
		Bullitt	3612	2443	67.6
		Jefferson	28995	19290	66.5
		Kenton	8292	° 5288	63.8
·		Pike	3852	2388	62.0
					61.5

TABLE 26. SUMMARY OF RECKLESS DRIVING CONVICTIONS BY COUNTY (1996-2000)

TABLE 26. SUMMARY C	OF RECKLESS DR	IVING CONVIC	HONS BY COU	NTY (1996-2000))	TOTAL	ANNUAL AVERAGE
						RECKLESS DRIVING	RECKLESS DRIVING CONVICTIONS
COUNTY	1996	1007	1000	1000	0000	CONVICTIONS	PER 1,000
COUNTY	1996	1997	1998	1999	2000	(FIVE YEARS)	LICENSED DRIVERS
Adair	23	15	21	25	15	99	1.8
Allen	14	22	20	12	7	75	1.3
Anderson Ballard	41 32	17 17	24	38 8	24 3	144 72	2.1
Barren	97	108	12 85	98	81	469	2.4 3.6
Bath	8	10	1	16	9	44	1.2
Bell	32	49	45	24	29	179	2.1
Boone	137	108	120	128	137	630	2.1
Bourbon	45	31	16	20	28	140	2.0
Boyd	74 32	59 20	68 39	78 28	56 24	335 153	2.0
Boyle Bracken	32 32	30 20	17	28 14	24 18	101	1.6 3.5
Breathitt	21	12	11	27	17	88	1.9
Breckinridge	15	29	29	21	19	113	1.7
Bullitt	103	84	94	130	140	551	2.4
Butler	10	12	14	14	6	56	1.3
Caldwell	20	24	31	27	. 16	118	2.5
Calloway	85	39 150	40	18	28 142	210	1.8
Campbell Carlisle	145 19	150 8	155 9	208 5	3	800 44	2.7 2.2
Carroll	19	18	16	18	16	, 87	2.5
Carter	47	21	42	45	80	235	2.7
Casey	28	25	31	15	11	110	2.2
Christian	115	133	84	90	80	502	2.9
Clark	31	21	16	22	28	118	1.0
Clay	38	29	30	42	33	172	2.6
Clinton Crittenden	26 14	36 7	30 14	53 21	28 19	173 75	5.2 2.3
Cumberland	14	, 15	15	33	7	75 84	2.3 3.5
Daviess	88	88	122	103	67	468	1.5
Edmonson	18	16	7	5 '	6	52	1.3
Elliott	3	3	9	4	8	27	1.2
Estill	21	23	27	33	18	122	2.4
Fayette	626	513	437	414	445	2,435	2.8
Fleming	24 58	5 79	13 77	17 45	12 47	71 306	1.5 2.2
Floyd Franklin	64	109	141	128	150	592	3.5
Fulton	20	7	12	16	12	67	2.8
Gallatin	23	24	20	27	33	127	4.8
Garrard	20	17	24	47	54	162	3.2
Grant	38	30	32	28	34	162	2,1
Graves	34	40	24	40	52	190	1.5
Grayson	50 8	34 3	47 20	33 7	40 5	204 43	2.4 1.1
Green Greenup	67	46	59	7 75	47	294	2.2
Hancock	1	6	15	5	9	36	1.2
Hardin	183	200	179	172	117	851	2.8
Harlan	88	100	64	58	54	364	3.5
Harrison	54	29	29	22	20	154	2.5
Hart	19	19	18	7	9	, 72	1.3
Henderson	44 9	65 18	64 11	59 9	67 9	299 56	1.9 1.1
Henry Hickman	4	1	9	9	8	31	1.6
Hopkins	64	76	57	42	47	286	1.8
Jackson	16	5	15	, 5	13	54	1.3
Jefferson	1,218	1,353	1,162	1,090	735	5,558	2.4
Jessamine	33	37	35	47	60	212	1.6
Johnson	33	38	25	25	42	163	2.1
Kenton	326	333	297	441	282	1,679	3.3
Knott	10 78	3 78	12 60	13 49	8 45	46 310	0.9 3.2
Knox Larue	78 23	78 17	16	10	45	70	1.5
Laurel	77	46	51	44	50	268	1.5
****	• •						

TABLE 26. SUMMARY OF RECKLESS DRIVING CONVICTIONS BY COUNTY (1996-2000) (continued)

COUNTY	1996	1997	1998	1999	2000	RECKLESS DRIVING CONVICTIONS (FIVE YEARS)	RECKLESS DRIVING CONVICTIONS PER 1,000 LICENSED DRIVERS
1							
Lawrence	23	24	16	15	20	98	1.9
Lee	4	6	8	8	4	30	1.2
Leslie	18	10	6	20	16	70	1.7
Letcher	12	19	15	27	14	87	1.0
Lewis	19	12	15	27	12	85	1.9
Lincoln	38	22	34	28	20	142	1.8
Livingston	27	17	10	13	12	79	2.2
Logan	34	34	41	39	45	193	2.1
Lyon	33	23	19	30	28	133	4.9
McCracken	120	112	91	77	83	483	2.0
McCreary	38	25	26	29	9	127	2.4
McLean	5	13	9	6	15	48	1.3
Madison	83	40	55	65	85	328	1.4
Magoffin	38	23	11	6	10	88	2.1
Marion	79	60	37	53	30	259	4.4
Marshall	30	18	24	22	31	125	1.1
Martin	19	19	4	10	15	, 67	1.6
Mason	24	21	31	33	23	132	2.3
Meade	54	63	66	48	27	258	3.1
Menifee	3	8	7	13	6	37	1.7
Mercer	32	33	20	14	12	111	1.5
Metcalfe	13	21	22	21	27	104	3.1
Monroe	14	22	25	29	23	113	2.8
Montgomery	18	23	25	49	28	143	1.8
Morgan	20	14	18	7	8	67	1.7
Muhlenberg	57	39	34	16	20	166	1.5
Nelson	56	63	51	62 -	78	310	2.3
Nicholas	31	20	14	20	19	104	4.1
Ohio	18	23	27	15	14	97	1.2
Oldham	12	13	12	. 14	6	57	0.4
Owen	6	11	7	6	10	40	1.1
Owsley	10	9	10	17	14	, 60	3.5
Pendleton	30	21	24	14	16	105	2.1
Perry	45	40	39	27	18	169	1.7
Pike	112	115	84	61	50	422	1.8
Powell	14	16	13	12	10	65	1.4
Pulaski	86	98	120	88	106	498	2.5
Robertson	8	5	1	3	6	23	3.0
Rockcastle	56	41	43	36	28	204	3.8
Rowan	59	34	33	51	42	219	3.3
Russell	12	16	7	. 11	10	56	1.0
Scott	58	76	57	46	48	285	2.5
Shelby	21	22	40	47	49	179	1.6
Simpson	15	9	15	19	16	74	1.3
Spencer	3	0	9	4	9	25	0.6
Taylor	54	33	40	17	28	172	2.2
Todd	9	17	15	12	12	65	1.7
Trigg	39	23	23	19	20	124	2.7
Trimble	3	3	1	0	0	7	0.2
Union	22	15	15	19	29	100	1.9
Warren	167	210	191	119	124	811	2.7
Washington	11	14	10	11	10	56	1.5
Wayne	26	10	25	20	20	101	1.6
Webster	8	14	19	16	22	79	1.6
Whitley	34	45	54	56	82	271	2.5
Wolfe	18	12	13	23	19	85	3.5
Woodford	31	25	38	43	43	180	2.1
TOTAL	6,688	6,384	6,038	6,020	5,294	30,424	2.2

TABLE 27. PERCENTAGE OF CRASHES INVOLVING DRUGS BY COUNTY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES) (1996-2000)(ALL ROADS)

	(IN ORDER OF DECREA		AGES) (1996-20	(ALL HOADS)	
COUNTY	NUMBER OF CRASHES	PERCENT OF TOTAL CRASHES	COUNTY	NUMBER OF CRASHES	PERCENT OF TOTAL CRASHES
POPUL	ATION CATEGORY UNDE	R 10 000	POPUI ATIO	ON CATEGORY 15,00	n_24 ggg
Lee		1.4	Johnson		
Clinton	8 8 9 5	1.1	Clay	72 53	2.6 2.3
Nicholas Elliott	9	1.1 1.0	Breathitt Casey	33 13	1.5 1.2
Crittenden	11	1.0	Knott	20	1.1
Hickman	5	1.0	Lawrence	16	1.1
Livingston Owsley	9 3	0.8 0.8	Russell McCreary	16 14	1.0 1.0
Wolfe ⁻	<u>7</u>	0.7	Rockcastle	21	0.9
Ballard Lyon	7 6	0.6 0.5	Estill Bourbon	16 26	0.8 0.8
Hancock	4	0.6 0.5 0.5	Grayson	14	0.6
Fulton Carlisle	5	0.5 0.4	Lincoln	12 14	0.6 0.6
Gallatin	5	0.4	Wayne Adair	14	0.6 0.6
Trimble	11 59 37 77 64 51 534	0.3	Mercer	17	0.5
McLean Menifee	1	0.3 0.2	Harrison Allen	13 11	0.5 0.5
Cumberland	į	0.2	Taylor	20	0.5
Bracken Robertson	3 0	0.2 0.2 0.2 0.2 0.0	Hart Henry	10 9	0.5 0.5 0.5 0.5 0.5 0.5
POPUL	ATION CATEGORY 10,000	-14.999	Simpson	10 9 12 15 12	0.5
Martin Leslie	46 41	3.4 3.3	Rowan Ohio	15 12	0.4 0.4
Jackson	22	1.6	Anderson	6	0.3 0.3
Magoffin Butler	20 9 7	1.5 0.7	Mason Grant	11 11	0.3
Todd	.7	0.6	Union	6	0.3 0.3 0.3 0.3
Garrard Webster	11 9	0.6 0.5	Montgomery Woodford	12 10	0.3
Trigg Carroll	,8	0.5 0.5	Marion	, 5	0.2 0.1
Carroll Monroe	12 5	0.5 0.5	Breckinridge	1 ON CATEGORY 25,00	0.1 0-50 000
Powell	11 98 125 7 7 4 7 8 4 5 5 1	0.4	Knox	85	2.2 1.8
Caldwell Spencer	4	0.4 0.4	Floyd Bell	93 53	1.8 1.5
Lėwis	7	0.4	Harlan	53 35	1.4
Pendleton Edmonson	8 4	0.4 0.4	Letcher Perry	35 58	1.2 1.1
Bath	<u> 5</u>	0.3	Whitley	58 51	1.0
Fleming Green	5 1	0.3 0.1	Carter Greenup	27 30	0.8 0.8
Morgan	1	0.1	Bovd ·	60	0.6
Washington Owen	1	0.1 0.1	Marshall Muhlenberg	24 29 38	0.6 0.6
Larue	2	0.1	Hopkins	38	0.5
Metcalfe	l l	0.1	Franklin Calloway	30 16	0.4 0.4
			Clark	27 26 20 19	0.4
			Jessamine Oldham	26 20	0.4 0.4
			Barren	19 17	0.3
			Graves Henderson	31	0.3 0.3
			Logan Meade	10 9	0.3 0.3
			Scott	13	0.3 0.2
			Boyle Nelson	10	0.2
			Shelbv	12 12	0.2 0.2 0.2 0.2 0.2
				ON CATEGORY OVER	
			Pike Laurel	148 100	1.4 1.2 0.5 0.5
			Pulaski	47	0.5
			Warren Daviess	99 79	0.5 0.5
			Kenton	109	0.4
			Campbell Madison	53 48	0.4 0.4
			Bullitt	23	0.4
			Christian Favette	29 216	0.3 0.3
			Fayette McCracken	48	0.3
			Hardin Jefferson	32 242	0.2 0.2
			Boone	36	0.2 0.2

TABLE 28. PERCENTAGE OF CRASHES INVOLVING DRUGS BY CITY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES)(1996-2000)

NUMBER OF DRUG- RELATED	OF CRASHES	OF	IUMBER F DRUG- ELATED	PERCENTAGE OF CRASHES INVOLVING
CITY CRASHES	DRUGS	<u>CITY</u> CF	RASHES	DRUGS
POPULATION CATEGORY	OVER 200,000	POPULATION	N CATEGORY 2,5	500-4,999
Lexington 153 Louisville 93	0.2 0.1	Barbourville Paintsville	15 14	1.8 1.2
POPULATION CATEGOR'	Y 20,000-55,000	Irvine	6	0.9
Owensboro 37 Bowling Green 50	0.3 0.3	Prestonsburg Beaver Dam	11 4	0.9 0.7
Covington 37	0.3	Flemingsburg		0.7
Richmond 19 Ashland 17		Ludlow Hartford	3 2 1	0.6 0.6
Frankfort 12	0.2	Providence		0.6
Hopkinsville 12 Paducah 22	0.2 0.2	Williamstown Fulton	2 4 3	0.6 0.6
Florence 12	0.1	Tompkinsville	3	0.5
Elizabethtown 6 Henderson 10		Park Hills	1	0.5 0.5
Henderson 10 Radcliff 3		Carrollton Russell	3	0.5 0.4
POPULATION CATEGORY	/ 10,000-19,999	Lancaster	4 3 3 9 3 4	0.4
Middlesboro 19 Fort Thomas 6	1.1 0.5	Hazard Mount Vernon	9 3	0.4 0.4
Campbellsville 11	0.4	Scottsville	4	0.4
Winchester 17 Newport 16	0.4 0.3	Greenville Stanford	4 1	0.4 0.3
Nicholasville 9	0.3	Dawson Springs	1	0.3
Madisonville 12 Somerset 11	0.3 0.3	Grayson Stanton	3 1	0.3 0.2
Somerset 11 Shively 11	0.2	Marion	. 1	0.2 0.2
Erlanger 7	0.2	Columbia	1	0.1
Murray 3 Glasgow 8	0.2 0.2	Benton	1	0.1
Georgetown 3	0.1			
Independence 2 Danville 3	0.1 0.1			
Bardstown 4 POPULATION CATEGOR	0.1			
Williamsburg 15				
Corbin 23	1.1			
Monticello 9 London 21	0.6 0.6			
Harrodsburg 10	0.6			•
La Grange 5 Central City 5	0.5 0.5			
Pikeville 11	0.5			
Leitchfield 3 Elsmere 3	0.5 0.4			
Wilmore 1	0.4			
Franklin 6 Edgewood 3	0.4 0.3			
Flatwoods 2	0.3			
Paris 6 Fort Mitchell 4	0.3 0.3			
Bellevue 4	0.3			•
Highland Heights 3 Fort Wright 6	0.3 0.3			
Berea 6				
Princeton 2 Cynthiana 3	0.2 0.2			
Versailles 3	0.2 0.2			
Berea 6 Princeton 2 Cynthiana 3 Versailles 3 Taylor Mill 2 Morehead 4	0.2 0.2			
Mount Washington 2	0.2	**		
Maysville 6 Russellville 4	0.2 0.2			
Shepherdsville 2	0.1			
Mount Sterling 1 Lawrenceburg 1	0.1 0.1			
Alexandria 1	0.1			
				

TABLE 29. SAFETY BELT USAGE (DRIVERS OF PASSENGER CARS INVOLVED IN CRASHES BY COUNTY AND POPULATION CATEGORY) (IN DESCENDING ORDER)(1996-2000)

	RCENT BELT		PERCENT SEAT BELT
	ISAGE	COUNTY	USAGE
POPULATION CATEGORY UNDER 10,	000		TEGORY 15,000-24,999
Lyon Livingston	89.6 88.3	Hart Woodford	91.6 90.8
Carlisle	87.9	Grant	90.3
Ballard	87.5	Ohio	89.8 *
Gallatin	86.9	Rowan	89.4 89.0
McLean Trimble	86.6 86.5 *	Montgomery Johnson	88.2
Crittenden	86.1	Knott	88.0
Hickman Wolfe	85.5 * 85.1	Harrison Breckinridge	87.7 87.7
Hancock	84.6	Mercer	87.7 87.6
Fulton	83.5	Breathitt	87.4 *
Elliott	82.6 * 82.4	Union McCroon	87.3 87.1
Lee Nicholas	81.4	McCreary Simpson	86.0
Bracken	79.6 *	Anderson	85.9
Clinton Cumberland	77.3 *	Estill	85.5 85.4
Menifee	77.0 76.8	Grayson Bourbon	85.4 85.1
Owsley	73.2	Clay	85.1 *
Robertson	72.4	Mason	84.9
POPULATION CATEGORY 10,000-14,9 Webster	99 92.5	Lawrence Allen	84.7 * 84.0 *
Green	92.5 90.0	Henry	84.0
Trigg Caldwell	89.7	Rockcastle	82.9
	88.9	Russell Taylor	82.9 82.6
Larue Garrard	87.7 87.1	Marion	81.2
Edmonson	86.8	Lincoln	81.2
Pendleton	86.5	Wayne	79.4 78.1
Morgan Carroll	86.4 85.6	Caśey Adair	76.1 77.9
Bath	85.5		TEGORY 25,000-50,000
Butler	85.4	Henderson	93.9
Powell Spencer	85.1 84.9	Hopkins Oldham	93.8 93.2
Martin	84.2 *	Clark	91.8
Magoffin Jackson	83.9	Scott	91.7
Jackson Owen	83.0 * 82.0	Boyle Boyd	91.4 90.8
Washington	81.6	Jessamine	90.4
Leslie	81.3	Graves	90.4
Fleming Todd	80.7 79.5 *	Nelson Greenup	90.2 90.2
Lewis	78.0	Franklin	90.0
Metcalfe	77.3	Shelby	89.9 *
Monroe	75.1	Perry Meade	89.7 88.5 *
•		Floyd	88.4
		Marshall	88.2
		Harlan Whitlev	88.2 * 87.9
		Calloway	87.1
		Bell	86.9
Note: Developtors based on veneward	inner by	Knox Muhlenberg	. 86.7 86.6
Note: Percentage based on reported u		Letcher	86.4
drivers. Substantially higher than obse	ervea	Carter	85.5
usage.		Logan	85.2 83.5
		Barren POPULATION CA	TEGORY OVER 50,000
		Fayette	94.8
		Hardin Jefferson	93.6 93.0
		McCracken	93.0
		Christian	92.6
		Boone	92.4 91.8
	•	Laurel Daviess	91.8 91.6
		Campbell	91.6
		Warren	91.1
		Kenton Bullitt	91.1 90.0
		Pulaski	89.9
		Madison	89.7
		Pike	89.4

^{*} Counties with potential for intensive promotional campaigns. Selected based on safety belt usage, crash rates, location in state (one in each KSP post) and dates of past campaign recommendations.

TABLE 30. CHANGE IN SAFETY BELT USAGE FOR 1996-2000 (PASSENGER CAR DRIVERS INVOLVED IN CRASHES) BY POPULATION CATEGORY

			PERCENT USA	GE		
		PC	PULATION CATE	GORY		
_	UNDER	10,000-	15,000-	25,000-	OVER	
YEAR	10,000-	14,999-	24,999-	50,000-	50,000-	ALI
1996	83.2	83.2	85.6	89.0	91.9	89.8
1997	82.8	84.5	86.9	89.2	92.3	90.2
1998	83.7	85.3	87.0	89.9	92.7	90.6
1999	83.9	85.5	87.3	90.7	93.4	91.3
2000	88.6	88.2	88.8	91.7	93.8	92.3
All	84.2	85.3	87.1	90.0	92.8	90.1

TABLE 31. CRASH SEVERITY VERSUS SAFETY BELT USAGE (ALL DRIVERS)*

		/EARING IY BELT		ARING TY BELT	,
TYPE OF INJURY	NUMBER	PERCENT	NUMBER	PERCENT	PERCENT REDUCTION
Fatal	1,718	1.63	737	0.08	95
Incapacitating	8,845	8.38	16,604	1.72	79
Non-Incapacitating	14,660	13.89	44,420	4.60	67
Possible Injury	11,737	11.12	70,275	7.30	34
Fatal or Incapacitating	10,563	10.01	13,341	1.80	82

^{*} Based on 1996 through 2000 crash data. Total sample size for not wearing a safety belt was 105,512 compared to 963,066 for wearing a safety belt.

TABLE 32. CHANGE IN SEVERITY OF INJURIES BY YEAR (1996-2000)

		PERCENTAGE	OF DRIVERS SU	JSTAINING A G	IVEN INJURY
Type of Injury	1996	1997	1998	1999	2000
			NOT WEAF SAFETY BE		
Fatal Incapacitating Non-Incapacitating Possible Injury	1.59 8.03 13.47 10.78	1.62 8.19 14.42 10.84	1.74 8.54 14.45 11.80	1.77 8.95 14.26 11.77	2.18 7.61 13.63 9.04
			WEARING SAFETY BE	ELT	***************************************
Fatal Incapacitating Non-Incapacitating Possible Injury	0.07 1.74 4.57 7.12	0.07 1.69 4.65 7.29	0.09 1.67 4.62 7.40	0.08 1.64 4.64 7.31	0.09 1.33 3.90 5.22

TABLE 33. POTENTIAL REDUCTION IN TRAFFIC CRASH FATALITIES AND CRASH SAVINGS FROM INCREASE IN DRIVER SAFETY BELT USAGE*

DRIVER USAGE	RE	ENTIAL ANNUAL EDUCTION IN NUMBER OF	ANNUAL CRASH SAVINGS (MILLION \$) FROM REDUCTION IN		
RATE (PERCENT)	FATALITIES	SERIOUS INJURIES**	FATALITIES	SERIOUS INJURIES	TOTAL
70 80 90	138 236 335	1,009 1,730 2,451	138.0 236.0 335.0	48.1 83.0 117.0	186.0 319.0 452.0

^{*} Based on increase from the 56 percent usage rate determined from the 1996-2000 surveys, the percent reductions in Table 31, and the economic costs provided by the National Safety Council. These costs are \$1,000,000 for a fatality and \$47,900 for an incapacitating injury. The actual number of fatalties and incapacitation injuries for 1996 - 2000 were used along with the average usage rate over this time period. The usage rate reached 62 percent in 2001.

^{**} Serious injuries were defined as those listed as incapacitating on the crash report.

TABLE 34. USAGE AND EFFECTIVENESS OF CHILD SAFETY SEATS
(CHILDREN AGE THREE AND UNDER) (1996-2000)

		-	RE	STRAINT USE	D
VARIABLE	CATEGORY	NONE	SAFETY BELT	CHILD SEAT	ANY RESTRAINT
Number	Fatal	21	7	23	30
With	Incapacitating	169	235	167	402
Given	Non-Incapacitating	377	551	773	1324
Injury	Possible Injury	425	1435	1520	2955
	None Detected	1583	13998	20669	34667
Percent	Fatal	0.82	0.04	0.10	0.08
With	Incapacitating	6.56	1.45	0.72	1.02
Given	Non-Incapacitating	14.64	3.40	3.34	3.36
Injury	Possible Injury	16.50	8.84	6.57	7.50
	None Detected	61.48	86.27	89.28	88.04
Percent	Front	10.99	60.07	28.94	89.01
Usage	Rear	3.32	26.25	70.44	96.68
By Seat Position	All Positions	6.14	38.68	55.19	93.86
				•	
Percent With Given Injury By Seat Position					,
(Front)	Fatal	0.77	0.02	0.18	0.07
,	Incapacitating	7.14	1.75	1.03	1.52
	Non-Incapacitating	14.93	4.60	3.81	4.34
	Possible Injury	17.23	10.44	7.60	9.52
	None Detected	59.94	83.19	87.38	84.55
(Rear)	Fatal	0.91	0.07	0.08	0.08
	Incapacitating	5.45	1.05	0.65	0.76
	Non-Incapacitating	14.09	1.79	3.23	2.84
	Possible Injury	15.11	6.72	6.32	6.43
	None Detected	64.43	90.37	89.73	89.90
YEAR	1996	663	4156	5334	9490
	1997	593	3327	4379	7706
	1998	584	3713	4937	8650
	1999	546	3664	5288	8952
	2000	189	1366	3214	4580

TABLE 35. PERCENTAGE OF CRASHES INVOLVING UNSAFE SPEED BY COUNTY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES) (1996-2000)

COUNTY	NUMBER OF CRASHES	PERCENT OF TOTAL CRASHES	COUNTY	NUMBER OF CRASHES	PERCENT OF TOTAL CRASHES
			*		
POPUL. Menifee	ATION CATEGORY UNI 103	19.3	Lincoln	ON CATEGORY 15,0 387	18.9
Elliott	103 76 82	14.9	McCreary	257	17.7
Lee Gallatin	161	14.4 14.3	Henry Estill	315 261	16.2 13.7
Trimble	142 155	13.7 12.6	Grant Mercer	555 391	12.9 12.6
Lyon Nicholas	95	11.5	Union	289	12.5 12.5 12.0
Owsley Wolfe	42 115	10.9 10.9	Casey Rowan	129 448	12.0 10.8
Carlisle	29 124	10.9 10.7	Rockcastle	240	10.6
McLean Livingston	105	10.5 9.8	Bourbon Clay	346 224 229	10.2 9.9
Robertson Hickman	9 45	10.5 9.8 9.2 8.7	Grayson Woodford	229 345	9.8 9.8
Ballard	93	8.3	Breathitt	207	9.6
Bracken Crittenden	103 88	8.3 7.9 7.9 6.7	Marion Anderson	230 220	9.4 9.3
Hancock	88 57 37	6.7	Lawrence	135 164	9.3 9.3
Clinton Cumberland	l 23	4.9 4.9	Knott Ohio	243	9.3 8.9 8.7
Fulton	38 ATION CATEGORY 10,0	3.6	Hart Johnson	183 237	8.7 8.5
Garrard	363	18.9	Russell	126 262	8.5 7.7
Owen Jackson	226 214	18.5 15.8 15.5	Montgomery Allen	262 138	6.9 6.6
Leslie	195	15.5	Wavne	153	6.5
Morgan Edmonson	237 157	15.3 13.9	Adair Taylor	148 229	6.3 6.2 6.0
Spencer Bath	122 181	11.8 11.4	Mason Harrison	242 158	6.0 5.8
Martin	149	11.1	Simpson	153	5.8 5.7
Todd Lewis	136 167	10.7 10.6	Breckinridge POPULATI	73 ON CATEGORY 25,0	5.3 000-50.000
Magoffin	136 184	10.5	Knox	602 496	15.7 14.0
Powell Caldwell	185	10.3 10.2 10.2	Carter Harlan	522	13.9
Washington Webster	144 189	10.2 9.6	Whitley Floyd	684 665	13.4 12.6
Pendleton	188	9.6 9.6 9.2 8.9 8.8 7.6 6.7	Oldham	446	9.8
Butler Fleming	111 129	9.2 8.9	Franklin Greenup	781 386	9.8 9.7
Carroll Larue	129 191 129	8.8 7.6	Hopkins Letcher	775 270	9.4 9.1
Metcalfe	70	6. <u>7</u>	Muhlenberg	442	9.1
Trigg Monroe	103 52	6.5 5.7	Marshall Nelson	331 468	8.7 8.4
Green	50	5.7 3.9	Graves	<u>406</u>	8.2
			Jessamine Shelby	510 <u>4</u> 31	8.1 <u>7</u> .9
			Scott * Bell	511 262	7.8 7.6
			Perry Barren	365 459	7.1 7.0
			Meade	174	6.8
			Boyd Boyle	678 314	6.7 6.7
			Henderson	653 222	6.7 6.5
			Logan Calloway	231	6.4
			Clark	385 ON CATEGORY OVI	6.4 EB 50.000
			Pike	2.168	19.8
			Madison Christian	1,592 959	12.2 9.7
			Warren Laurel	1,918 640	9.6 7.7
			Pulaski	657	7.6
			Kenton Boone	2,060 1,198	7.2 7.1
			Hardin	., 881 800	6.5 5.7
			Campbell Daviess	919	5.4 5.4
			Fayette Bullitt	3,215 327	5.4 5.2 5.0
			McCracken	671	4.8 3.5
			Jefferson	4,935	ა.5

TABLE 36. PERCENTAGE OF CRASHES INVOLVING UNSAFE SPEED BY CITY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES)(1996-2000)

CITY	NUMBER OF CRASHES (1996-2000)	PERCENT OF TOTAL CRASHES	CITY	NUMBER OF CRASHES (1996-2000)	PERCENT OF TOTAL CRASHES
	TION CATEGORY			ULATION CATEGO	
Lexington	3,170	5.1	Park Hills	37	16.9
Louisville	2,247	2.8	Williamstown	55	8.0
POPULA	TION CATEGORY 544	20,000-55,000	Stanford	28	7.4
Hopkinsville Bowling Green	975	8.6 6.5	Calvert City Morganfield	24 50	7.3 7.2
Frankfort	325	6.1	Vine Grove	25	6.7
Richmond	364	5. <u>5</u>	Barbourville	55	6.5
Covington Ashland	522 279	4.7 4.6	Cumberland Irvine	18 42	6.5 6.4
Florence	380	4.3	Providence	22	6.3
Elizabethtown	265	4.2	Greenville	54	5.9
Henderson	283	4.1	Cold Spring	59	5.7
Paducah Jeffersontown	340 171	3.8 3.6	Lakeside Park Dawson Springs	25 16	5.7 5.4
Owensboro	377	3.0	Lancaster	36	5.3
Radcliff	54	1.9	Mount Vernon	38	5.3
	TION CATEGORY		Hartford	8 44	5.1
Erlanger Fort Thomas	419 95	10.4 7.6	Benton Scottsville	44 46	4.9 4.3
Independence	117	6.7	Springfield	24	4.2
Somerset	242	5.8	Stanton	21	4.2
Campbellsville Nicholasville	115 152	4.5 4.4	Hodgenville Columbia	30 41	4.1 4.0
Danville	155	4.3	Prestonsburg	50	4.0
Madisonville	177	4.0	Grayson	40	3. <u>8</u>
Shelbyville Middlesboro	90 67	4.0 3.8	Russell	31 16	3.7 3.6
Murray	63	3.8 3.8	Flemingsburg Beaver Dam	20	3.6
Shively	163	3.4	Hazard	71	3.1
Newport	151	3.3	Carrollton	26	3.0
Georgetown Glasgow	114 105	3.3 3.1	Fulton Marion	14 14	2.9 2.8
Bardstown	73	2.7	Tompkinsville	16	2.6
Winchester	90	2.3	Ludlów	9	2.6
Mayfield Saint Matthews	50 75	2.2 2.0	Paintsville Southgate	30 9	2.5 1.8
POPULA	ATION CATEGOR	Y 5.000-9.999	Southgate	9	1.0
Villa Hills	42	11.8			
Taylor Mill Pikeville	112 181	9.1 8.6			
Wilmore	19	8.1			
Fort Mitchell	117	7.9		•	
Highland Heights Elsmere	52 71	7.7 6.4			
Fort Wright	129	6.4 6.2	•		
Williamsburg	56	5.8			
Princeton	58 78	5.6			
Monticello Russellville	76 86	5.5 5.1			
Berea	86	5.0		4	
Alexandria	_63	4.9			
Corbin Versailles	112 73	4.8 4.7			
Paris	84	4.6			
London	148	4.5			•
Edgewood Maysville	40 115	4.4 4.4			
Leitchfield	26	4.4			
Lebanon	54	4.3			
Dayton	22 40	4.3 4.2	•		
La Grange Harrodsburg	73	4.2 4.2			
Central City	41	4.1			
Flatwoods	26	3.8			
Mount Sterling Mount Washingto	70 on 34	3.8 3.7			
Morehead	64	3.4		•	
Bellevue	36	3.1			
Shepherdsville	49 36	2.8 2.7			
Franklin Lawrenceburg	21	2.4			
Cynthiana	29	2.1			

COUNTY									SPEEDING
COUNTY 1908							TOTAL	ANNUAL AVERAGE	
COUNTY 1998 1997 1998 1999 2000 (FIVE YEARS) LICENSED DRIVERS CANSII Adair 452 284 291 240 174 1,301 22.1 94 Anderson 1,424 1,505 1,008 1,009 1,382 7,328 107.9 33.3 Ballard 122 1,711 176 147 147 168 786 28.8 28.8 8.5 Barron 802 771 178 147 147 168 786 28.8 2.8 8.5 Ball 372 387 388 111 291 1,489 17.2 5.6 Bourbon 688 324 729 730 637 3,105 45.3 9.0 Boyd 1,452 1,573 1,537 1,344 1,325 1,573 1,344 1,340 1,00 1,442 1,444 1,00 1,442 1,444 1,00 1,442 1,444							SPEEDING	SPEEDING CONVICTIONS	
Addir 452 269 361 372 361 1,855 39.0 12.4 Allen 312 264 281 240 174 1,301 22.1 9.4 Anderson 1,424 1,505 1,508 1,409 1,382 7,328 107.9 33.3 38.3 177 176 147 186 786 28.8 8.5 38.3 18.5 38.3 18.5 38.3 18.5 38.3 18.5 38.3 18.5 38.3 18.5 38.3 18.5 38.3 18.5 38.5 38.5 38.5 38.5 38.5 38.5 38.5 3									
Allers									
Andsmen							· ·		
Barne							7,328		33.3
Bath 313 228 239 226 527 1,626 43,5 9.0 Boll 372 257 389 111 231 1,469 17.2 5.6 Boorne 2,054 2,225 2,920 2,106 2,231 11,636 38.2 9.7 Bourbon 688 324 729 730 637 3,105 45.3 9.0 Boyd 1,462 1,447 1,526 1,573 1,344 7,381 43.0 10.9 Boyd 773 696 881 881 547 3,777 40.4 12.9 Bracken 541 396 478 260 174 1,849 63.4 10.5 Bracken 541 396 478 260 174 1,849 63.4 10.5 Brackindigh 101 137 158 188 156 494 10.5 2.4 Brackindigh 101 137 158 188 156 6.6 6.2 11.5 Bullitt 1,499 1,221 81.2 1.6 4.4 4.4 6.6 6.2 1.1 Bullitt 1,499 1,221 81.2 4.4 4.4 6.6 6.2 6.5 6.5 6.5 Bullitt 1,499 1,221 81.2 4.5 4.5 4.5 4.5 4.5 Bullitt 1,499 1,221 81.2 4.5 4.5 4.5 4.5 4.5 4.5 4.5 Bullitt 1,499 1,221 81.2 4.5 4.5 4.5 4.5 4.5 4.5 4.5 Bullitt 1,499 1,221 81.2 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 Bullitt 1,499 1,221 81.2 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 Bullitt 1,499 1,221 81.2 4.5	Ballard								
Bell									
Bounche									
Bourbon									
Boyle		•					·		
Bracken	Boyd				•				
Breathritt							•		
Brechridings									
Buller 534 661 723 627 411 2,966 6,404 28.5 19.6 Buller 534 661 723 627 411 2,966 67.5 26.6 Calchwell 625 533 359 418 293 2,228 46.9 12.0 Calchwell 625 533 359 418 293 2,228 46.9 12.0 Calchwell 1,966 2,353 2,400 2,274 2,683 11,756 39.4 14.7 Calchwell 1,966 2,353 2,400 2,274 2,683 11,756 39.4 14.7 Calchwell 192 14.5 188 154 167 8.66 42.8 29.2 Carroll 742 828 572 570 614 3,126 90.2 16.4 Calchwell 192 14.5 188 154 167 8.66 42.8 29.2 Carroll 742 828 572 570 614 3,126 90.2 16.4 Calchwell 10 10 188 207 143 142 770 15.5 6.0 Christian 803 910 671 754 965 4,103 23.7 4.3 16.5 Calchwell 11 10 188 207 143 142 770 15.5 6.0 Christian 803 910 571 574 965 4,103 23.7 4.3 16.5 Calchwell 11 10 18 12 12 12 12 12 12 12 12 12 12 12 12 12									
Callowell 625 533 359 448 293 2,228 44.9 12.0 Callowery 708 302 431 518 628 2,287 22.5 11.2 Campbell 1,966 2,353 2,480 2,274 2,863 11,756 33.4 14.7 Carlisle 192 148 188 184 167 846 42.8 29.2 Carroll 742 628 572 570 614 3,126 90.2 16.4 Carler 484 495 587 980 1,381 3,867 43.9 7.8 Carloll 74.2 628 572 570 614 3,126 90.2 16.4 Carler 484 495 587 980 1,381 3,867 43.9 7.8 Carloll 74.2 628 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	•								
Calloway	Butler						•		
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Jefferson 10,686 9,602 14,161 15,152 9,743 59,344 25.2 12.0 Jessamine 769 1,063 2,071 2,200 1,983 8,086 61.5 15.9 Johnson 178 133 176 234 139 860 10.9 3.6 Kenton 3,437 3,777 3,450 4,442 4,422 19,528 38.3 9.5 Knott 125 41 17 149 48 380 7.1 2.3 Knox 538 566 531 902 736 3,273 33.3 5.4 Larue 182 154 238 244 202 1,020 21.6 7.9 Laurel 1,591 1,524 1,549 1,402 2,129 8,195 46.7 12.8	•								
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Johnson 178 133 176 234 139 860 10.9 3.6 Kenton 3,437 3,777 3,450 4,442 4,422 19,528 38.3 9.5 Knott 125 41 17 149 48 380 7.1 2.3 Knox 538 566 531 902 736 3,273 33.3 5.4 Larue 182 154 238 244 202 1,020 21.6 7.9 Laurel 1,591 1,524 1,549 1,402 2,129 8,195 46.7 12.8							8,086	61.5	15.9
Knott 125 41 17 149 48 380 7.1 2.3 Knox 538 566 531 902 736 3,273 33.3 5.4 Larue 182 154 238 244 202 1,020 21.6 7.9 Laurel 1,591 1,524 1,549 1,402 2,129 8,195 46.7 12.8 46.7 12.8 47.9 1,591 1,524 1,549 1,402 2,129 8,195 46.7 12.8		178	133	176	234				
Knox 538 566 531 902 736 3,273 33.3 5.4 Larue 182 154 238 244 202 1,020 21.6 7.9 Laurel 1,591 1,524 1,549 1,402 2,129 8,195 46.7 12.8									
Larue 182 154 238 244 202 1,020 21.6 7.9 Laurel 1,591 1,524 1,549 1,402 2,129 8,195 46.7 12.8									
Laurel 1,591 1,524 1,549 1,402 2,129 8,195 46.7 12.8									
160							8,195	, 46.7	12.8
					400	439	2,287	44.5	16.9

TABLE 37. SUMMARY OF SPEEDING CONVICTIONS BY COUNTY (1996-2000)(continued)

						. TOTAL SPEEDING	ANNUAL AVERAGE SPEEDING CONVICTIONS	SPEEDING CONVICTIONS PER SPEED-
						CONVICTIONS	PER 1,000	RELATED
COUNTY	 1996	1997	1998	1999	2000	(FIVE YEARS)	LICENSED DRIVERS	CRASH
Lee	28	20	32	36	29	145	6.0	1.8
Leslie	205	322	451	367	276	1,621	39.7	8.3
Letcher	85 159	146 379	72	106	98	507	6.0	1.9
Lewis Lincoln	529	379 331	356 541	308 609	254 428	1,456 2,438	31.8 31.5	8.7 6.3
Livingston	476	344	358	515	424	2,438	58.7	20.2
Logan	634	767	575	542	569	3,087	33.9	13.9
Lyon	674	601	632	428	420	2,755	102.1	17.8
McCracken	1,599	1,614	1,934	1,624	1,699	8,470	34.9	12.6
McCreary	201	212	195	178	192	978	18.6	3.8
McLean	201	292	162	85	143	883	24.5	7.1
Madison	1,378	1,242	1,471	2,012	1,322	7,425	32.4	4.7
Magoffin	73	74	39	. 20	8	214	5.0	1.6
Marion	473	328	271	340	287	1,699	28.7	7.4
Marshall	815	962	929	894	779	4,379	38.1	13.2
Martin	15	25	22	29	10	101	2.5	0.7
Mason	330	615	496	576	346	2,363	40.5	9.8
Meade	353	464	376	412	364	1,969	23.7	11.3
Menifee	7	6	24	22	34	93	4.4	0.9
Mercer	645	546	436	537	271	2,435	32.2	6.2
Metcalfe	230	271	250	275	310	1,336	39.4	19.1
Montoe	22 168	18 194	31 333	32 453	29 559	132	3.3 21.8	2.5 6.5
Montgomery Morgan	379	277	366	202	229	1,707 1,453	36.3	6.1
Muhlenberg	542	519	469	466	442	2,438	22.1	5.5
Nelson	516	608	678	1,020	1,124	3,946	29.5	8.4
Nicholas	114	92	108	226	187	727	28.3	7.7
Ohio	617	654	305	460	356	2,392	30.0	9.8
Oldham	763	838	970	834	1,050	4,455	27.9	10.0
Owen	84	67	76	118	107	452	12.8	2.0
Owsley	. 1	0	3	25	23	52	3.1	1.2
Pendleton	542	497	339	267	177	1,822	36.3	9.7
Perry	592	886	417	266	126	2,287	, 22.8	6.3
Pike	184	185	272	292	253	1,186	5.2	0.5
Powell Pulaski	217 759	280	427	446	333	1,703	38.0	9.3 6.9
Robertson	22	1,018 15	1,051 18	942 10	747 7	4,517 72	22.5 9.3	8.0
Rockcastle	428	349	602	. 578	538	2,495	46.5	10.4
Rowan	769	680	643	604	944	3,640	54.4	8.1
Russell	119	98	113	73	104	507	8.7	4.0
Scott	1,198	1,651	1,710	1,505	1,471	7,535	65.4	14.7
Shelby	1,237	1,304	1,246	1,570	1,290	6,647	60.1	15.4
Simpson	251	362	333	231	143	1,320	23.1	8.6
Spencer	272	230	190	311	179	1,182	27.8	9.7
Taylor	763	505	418	414	449	2,549	32.1	11.1
Todd	182	212	116	152	191	853	21.9	6.3
Trigg	369	323	316	271	250	1,529	33.4	14.8
Trimble	41	64	59	17	48	229	7.9	1.6
Union	258	365	254	162	193	1,232	22.8	4.3
Warren Washington	1,563 399	2,047 774	2,391 456	2,165 467	1,888 401	10,054 2,497	33.6 65.0	5.2 17.3
Wayne	399 49	62	456 55	467 83	401	2,497 289	4.6	17.3
Webster	203	130	116	273	249	971	19.8	5.1
Whitley	289	295	318	677	675	2,254	20.5	3.3
Wolfe	652	862	1,703	1,621	1,045	5,883	243.4	51.2
Woodford	1,824	1,712	1,898	2,528	2,075	10,037	118.2	29.1
TOTAL*	 88,508	89,322	98,449	103,126	90,269	469,674	34.5	9.6

^{*} Does not include speeding convictions where county was not specified.

TABLE 38. SPEEDING CONVICTION RATES IN DECREASING ORDER (BY COUNTY POPULATION CATEGORIES) (1996-2000)

DODLII ATION		ANNUAL AVERAGE SPEEDING CONVICTIONS		SPEEDING CONVICTIONS PER SPEED-
POPULATION CATEGORY	COUNTY	PER 1,000 LICENSED DRIVERS	COUNTY	RELATED CRASH
UNDER 10,000	Wolfe	243.4	Wolfe	51.2
	Gallatin	108.5	Carlisle	29.2
	Lyon	102.1	Cumberland	26.7
	Bracken	63.4	Livingston	20.2
	Livingston	58.7	Hickman	19.0
	Hickman	45.2	Bracken	18.0
	Carlisle	42.8	Gallatin	17.9
	Hancock	31.9	Lyon	17.8
	Nicholas	28.3	Fulton	17.3
	Fulton	27.3	Hancock	17.3
	Ballard	25.8	Clinton	14.5
	Cumberland	25.4	Ballard	8.5
	McLean	24.5	Robertson	8.0
	Clinton	16.2	Nicholas	7.7
	Crittenden	9.4	McLean	7.1
+	Robertson	9.3	Crittenden	3.5
	Trimble	7.9	Lee	1.8
	Lee	6.0	Trimble	1.6
	Menifee	and the second s		
		4.4	Owsley	1.2
	Owsley	3.1	Menifee	0.9
	Elliott	1.1	Elliott	0.3
10,000-14,999	Carroll	90.2	Butler	26.6
	Butler	67.5	Metcalfe	19.1
	Washington	65.0	Washington	17.3
	Caldwell	46.9	Carroll	16.4
	Bath	43.5	Trigg	14.8
	Leslie	. 39.7	Caldwell	12.0
	Metcalfe	39.4	Green	9.9
	Powell	38.0	Pendleton	9.7
	Pendleton	36.3	Spencer	9.7
	Morgan	36.3	Powell	9.3
	Trigg	33.4	Bath	9.0
	Lewis	31.8	Fleming	8.9
	Spencer	27.8	Lewis	8.7
	Fleming	24.1	Leslie	8.3
	Garrard	22.7	Larue	7.9
	Todd	21.9	Todd	6.3
	Larue	21.6	Morgan	6.1
	Webster	19.8	Webster	5.1
	Owen	12.8	Edmonson	3.2
	Green	12.7	Garrard	3.2
	Edmonson	12.2	Monroe	2.5
	Magoffin	5.0	Owen	2.0
	Jackson	4.9	Magoffin	1.6
	Monroe	3.3	Jackson	1.0
	Martin	2.5	Martin	0.7
15,000 - 24,999	Woodford	118.2	Anderson	33.3
,500,500	Anderson	107.9	Woodford	29.1
	Henry	92.9	Lawrence	16.9
	Grant	57.2	Henry	15.6
	Rowan	54.4	Adair	12.4
	Rockcastle	46.5	Harrison	11.6
•	Bourbon	45.3	Taylor	11.1
	Lawrence	44.5	Rockcastle	10.4
	Mason	40.5	Breckinridge	10.0
	Clay	33.7	Clay	9.9
	Adair	33.0	Ohio	9.8
	Mercer	32.2	Mason ·	9.8
		36.E	Mason	5.0
	Taylor	32.1	Grayson	9.7

TABLE 38. SPEEDING CONVICTION RATES IN DECREASING ORDER (BY COUNTY POPULATION CATEGORIES) (1996-2000) (continued)

		ANNUAL AVERAGE SPEEDING CONVICTIONS	L	SPEEDING CONVICTIONS PER SPEED-
POPULATION CATEGORY	COUNTY	PER 1,000 LICENSED DRIVERS	COUNTY	RELATED CRASH
15,000 - 24,999	Lincoln	31.5	Allen	9.4
(cont'd)	Ohio	30.0	Hart	9.1
	Harrison	29.4	Bourbon	9.0
	Hart	29.3	Simpson	8.6
	Marion	28.7	Rowan	8.1
	Grayson	26.4	Grant	8.0
	Simpson	23.1	Marion	7.4
	Union	22.8	Montgomery	6.5
	Allen	22.1	Lincoln	6.3
	Montgomery	21.8	Mercer	6.2
	McCreary	18.6	Casey	6.0
	Estill	16.9	Union	4.3
*	Casey	15.5	Russell	4.0
	Breckinridge	11.3	McCreary	3.8
	Johnson	10.9	Johnson	3.6
	Breathitt	10.5	Estill	3.3
	Russell	8.7	Breathitt	2.4
	Knott	7.1	Knott	2.3
	Wayne	4.6	Wayne	1.9
25,000 - 49,999	Scott	65.4	Jessamine	15.9
20,000 40,000	Franklin	61.7	Shelby	15.4
	Jessamine	61.5	Scott	14.7
	Shelby	60.1	Logan	13.9
	Carter	43.9	Franklin	13.3
	Boyd	43.0	Marshall	13.2
	Henderson	41.8	Boyle	12.0
	Boyle	40.4	Meade '	11.3
	Hopkins	38.7	Calloway	11.2
	Marshall	38.1	Boyd	10.9
	Barren	34.0	Henderson	10.3
	Logan	33.9	Oldham	10.0
	Knox	33.3	Barren	9.7
	Nelson	29.5	Graves	8.7
	Oldham	27.9	Nelson	8.4
	Graves	27.6	Hopkins	8.1
	Clark	24.5	Carter	7.8
	Meade	23.7	Clark	7.4
	Perry	22.8	Greenup	6.5
	Calloway	22.5	Perry	6.3
	Muhlenberg	22.1	Bell	5.6
	Whitley	20.5	Muhlenberg	5.5
	Greenup	19.3	Knox 4	5.4
	Bell	17.2	Whitley	3.3
	Floyd	10.4	Floyd	2.1
	Letcher	6.0	Letcher	1.9
	Harlan	6.0	Harlan	1.2
50,000 - OVER	Hardin	73.4	Hardin	25.3
	Fayette	52.6	Bullitt	19.6
	Laurel	46.7	Campbell	14.7
	Campbell	39.4	Fayette	14.3
	Kenton	38.3	Daviess	12.9
	Boone	38.2	Laurel	12.8
	Daviess	36.8	McCracken	12.6
	McCracken	34.9	Jefferson	12.0
	Warren	33.6	Boone	9.7
	Madison	32.4	Kenton _,	9.5
	Bullitt	28.5	Pulaski [*]	6.9
	Jefferson	25.2	Warren	5.2
	Christian	23.7	Madison	4.7
	Pulaski	22.5	Christian	4.3
	Pike	5.2	Pike	0.5

TABLE 39. MOVING SPEED DATA FOR VARIOUS HIGHWAY TYPES (CARS)

		SPEED (MPH)	
HIGHWAY TYPE AND SPEED LIMIT	SAMPLE SIZE	AVERAGE 85T	H PERCENTILE	PERCENT OVER SPEED LIMIT
Interstate				
65 mph	11,780	68.0	72.9	70.1
Interstate				
55 mph	3,885	61.4	66.7	86.0
Interstate			•	
50 mph	163	55.8	60.8	84.0
Parkway				
Four Lane				
65 mph	10,642	68.4	73.6	70.5
Parkway				
Two Lane				
55 mph	1,589	62.8	68.5	90.5
Four Lane				
Non-Interstate or Parkway				
55 mph .	11,052	59.3	64.5	76.8
Two Lane				
Full Width Shoulder			· ·	
55 mph	4,081	58.7	64.2	71.3
Two Lane				
Without Full Width Shoulder				
55 mph	5,385	55.9	61.6	54.2

TABLE 40. MOVING SPEED DATA FOR VARIOUS HIGHWAY TYPES (TRUCKS)

		SPEED		
HIGHWAY TYPE AND SPEED LIMIT	SAMPLE SIZE	AVERAGE 85	TH PERCENTILE	PERCENT OVER SPEED LIMIT
Interstate				
65 mph	5,029	64.2	68.7	37.3
Interstate				
55 mph	1,533	59.4	64.6	75.4
Interstate				
50 mph	99	55.4	59.8	87.9
Parkway				
Four Lane				
65 mph	3,067	64.9	69.7	45.4
Parkway				
Two Lane				
55 mph	213	58.3	64.1	70.9
Four Lane				
Non-Interstate or Parkway				
55 mph	1,918	56.7	61.9	60.8
	.,0.0			53.5
Two Lane				
Full Width Shoulder				
55 mph	595	56.5	62.1	58.5
Two Lane				
Without Full Width Shoulder				
55 mph	673	53.6	59.7	41.2
			·	

TABLE 41. CRASH TREND ANALYSIS (1996 - 2000)

			ber in 1 Year		4-Year Average		2000 Percent
Crash Statistic	1996	1997	1998	1999	1996-99	2000	Change*
Total Crashes	134,558	134,161	125,698	132,216	131,658	135,079	2.6
Fatal Crashes	738	782	776	729	756	724**	-4.3
Fatalities	846	865	869	819	850	823**	-3.1
Injury Crashes	36,434	36,516	34,395	36,125	35,868	34,732	-3.1 -3.2
• •		•	52,952	54,951	55,039	53,129	-3.2 -3.5
Injuries Fatal and Injury Crashes	55,909	56,342	•			35,456	-3.5 -3.2
	37,182	37,298	35,171	36,854	36,626	•	
Licensed Drivers (Millions) Registered Vehicles (Millions)	2.57 2.97	2.57 3.01	2.63 3.20	2.67 3.15	2.61 3.08	2.75 3.29	5.4 6.7
Total Vehicle Miles (Billions)	42.471	44.863	46.577	47.816	45.432	46.680	2.7
Total Crash/100 MVM	317	299	270	277	291	289	-0.5
Fatal Crash/100 MVM	1.74	1.74	1.67	1.52	1.67	1.55	-7.0
Fatalities/100 MVM	1.99	1.93	1.87	1.71	1.88	1.76	-6.0
Injuries/100 MVM	130	126	114	115	121	114	-6.1
Speed Related Crashes	10,713	10,435	9,099	9,112	9,840	9,497	-3.5
Speed Related Injury Crashes	4,494	4,488	4,030	3,990	4,251	3,682	-13.4
Speed Related Fatal Crashes	208	230	190	201	207	153	-26.1
Speed Convictions	88,508	89,572	98,662	103,696	95,110	90,863	-4.5
Alashal Deleted Creekes	0.450	6.070	E 000	E 444	E 701	6 107	71
Alcohol Related Crashes	6,150	6,070	5,222	5,441	5,721	6,127	7.1
Alcohol Related Injury Crashes	2,955	2,949	2,482	2,592	2,745	2,903	5.8
Alcohol Related Fatal Crashes	242	206	187	196	208	181	-12.9
Alcohol Related Fatalities	256	234	205	222	229	196	-14.5
DUI Arrests	39,064	40,567	42,100	43,254	41,246	49,470	19.9
DUI Convictions	30,283	32,106	32,837	31,263	31,622	31,243	-1.2
DUI Conviction Percentage	78.0	79.1	78.0	72.0	76.8	63.2	-17.7
DUI Arrests/ Alcohol Related Fatalities	153	173	205	195	182	252	38.5
Drug Related Crashes	***	***	***	756	756	990	31.0
Drug Related Injury Crashes	248	277	278	3 55	290	461	59.2
Drug Related Fatal Crashes	***	***	***	112	112	133	18.8
Pedestrian Related Crashes	1,197	1,190	1,077	1117	1,145	1,124	-1.9
Pedestrian Related Injury Crashes	1,085	1,057	966	1011	1,030	907	-11.9
Pedestrian Related Fatal Crashes	56	62	65	55	60	52	-12.6
Bicycle/Motor Vehicle Related Crashes	695	662	587	606	638	582	-8.7
Bicycle Related Injury Crashes	557	512	480	512	515	448	-13.1
Bicycle Related Fatal Crashes	6	10	9	10	9	4	-54.3
M. I. Dalatad Oracles	7.47	700	005	4000	000	4 440	00.5
Motorcycle Related Crashes	747	736	835	1033	838	1,110	32.5 24.2
Motorcycle Related Injury Crashes	581	565	647	774	642	797	
Motorcycle Related Fatal Crashes	25	29	26	42	31	36	18.0
School Bus Crashes	810	822	775	648	764	932	22.0
School Bus Injury Crashes	93	150	144	110	124	149	19.9
School Bus Fatal Crashes	. 2	6	4	0	3	1	-66.7
Truck Crashes	9,975	8,249	7,670	7,642	8,384	10,276	22.6
Truck Injury Crashes	2,292	1,852	1,678	1,665	1,872	2,181	16.5
Truck Fatal Crashes	95	108	95	82	95	88	-7.4
Train Crashes	79	57	70	57	66	59	-10.3
Train Injury Crashes	21	23	25	16	21,	18	-15.3
Train Fatal Crashes	3	4	3	2	3	4	33.3
Haii I atai Olasiies					<u> </u>		00.0

^{*} Percent change from 1996-1999 average to 2000.

** Includes 13 fatals on parking lots / private property.

*** Data for earlier years were not available. The 1999 and 2000 data include follow-up studies of drivers from FARS.

TABLE 42. NUMBER OF CRASHES AND RATES BY CRASH TYPE FOR EACH COUNTY

	PEDEST CRASI		BICYCI CRASH		MOTORO CRAS		SCHOOL CRASH		TRUC CRASH	
	NUMBER*	RATE**	NUMBER*	RATE**	NUMBER*	RATE**	NUMBER*	RATE**	NUMBER*	RATE**
Adair	9	1.0	4	0.5	20	2.3	14	1.6	137	15.9
Allen	5	0.6	4	0.4	20	2.2	10	1.1	125	14.0
Anderson Ballard	. 12	1.3	8	0.8	15	1.6	23	2.4	134	14.0
Ваптеп	4 23	1.0	3	0.7	4	1.0	2	0.5	136	32.8
Bath	6	1.2 1.1	20	1.1	54	2.8	24	1.3	478	25.1
Bell	31	2.1	2 20	0.4 1.3	11 21	2.0	6	1.1	135	24.4
Boone	91	2.1	62	1.3	96	1.4 2.2	26	1.7	287	19.1
Bourbon	23	2.4	14	1.4	. 19	2.2	80 27	1.9	1831	42.6
Boyd	63	2.5	39	1.6	93	3.7	47	2.8 1.9	215	22.2
Boyle	27	1.9	17	1.2	21	1.5	17	1.9	721 289	29.0 20.9
Bracken	8	1.9	2	0.5	10	2.4	7	1.7	71	17.2
Breathitt	20	2.5	3	0.4	38	4.7	19	2,4	148	18.4
Breckinridge	7	0.8	3	0.3	10	1.1	7	0.8	80	8.6
Bullitt	34	1.1	12	0.4	45	1.5	58	1.9	540	17.6
Butler	7	1.1	1	0.2	.10	1.5	10	1.5	69	10.6
Caldwell	11	1.7	12	1.8	10	1.5	9	1.4	136	20.8
Calloway	25	1.5	12	0.7	36	2.1	24	1.4	204	11.9
Campbell	221	5.0	142	3.2	93	2.1	60	1.4	869	19.6
Carlisle	1	0.4	0	0.0	3	1.1	. 1	0.4	31	11.6
Carroll	10	2.0	12	2.4	16	3.2	11	2,2	253	49.8
Carter	18	1.3	3	0.2	41	3.0	36	2.7	298	22.2
Casey	5	0.6	2	0.3	10	1.3	7	0.9	82	10.6
Christian	97	2.7	65	1.8	64	1.8	91	2.5	753	20.8
Clark	47	2.8	21	1.3	44	2.7	50	3.0	408	24.6
Clay	10	0.8	8	0.7	21	1.7	30	2.4	117	9.5
Clinton	6	1,2	0	0.0	2	0.4	2	0.4	49	10.2
Crittenden	11	2.3	I	0.2	11	2.3	9	1.9	72	15.3
Cumberland Daviess	5	1.4	0	0.0	0.	0.0	2	0.6	26	7.3
Edmonson	118	2.6	124	2.7	111	2.4	60	1.3	935	20.4
Elliott	11 6	1.9	0	0.0	14	2.4	12	2.1	50	8.6
Estill	16	1.8 2.1	0 5	0.0 0.7	13	3.9	1	0.3	38	11.3
Fayette	644	4.9	400	3.1	16 270	2.1 2.1	15	2.0	66	8.6
Fleming	11	1.6	3	0.4	12	1.7	302 14	2.3	3327	25.5
Floyd	52	2.5	11	0.5	78	3.7	65	2.0 3.1	107	15.5
Franklin	41	1.7	22	0.9	55	2.3	55	2.3	425 408	20.0 17.1
Fulton	8	2,1	12	3.1	6	1.5	5	1.3	106	27.3
Gallatin	6	1.5	3	0.8	12	3.0	2	0.5	166	42.2
Garrard	11	1.5	6	0.8	17	2.3	17	2.3	101	13.7
Grant	29	2.6	7	0.6	39	3.5	34	3.0	413	36.9
Graves	35	1.9	15	0.8	35-	1.9	31	1.7	343	18.5
Grayson	15	1.2	4	0.3	22	1.8	13	1.1	189	15.7
Green	6	1.0	1	0.2	8	1.4	8	1.4	62	8.01
Greenup	19	1.0	18	1.0	24	1.3	18	1.0	205	11.1
Hancock	ī	0.2	2	0.5	6	1.4	. 4	1.0	83	19.8
Hardin	58	1.2	52	1.1	87	1.8	67	1.4	920	19.5
Harlan	52	3.1	13	0.8	29	1.7	22	1.3	297	17.9
Harrison	22	2.4	12	1.3	13	1.4	14	1.6	143	15.9
Hart	14	1.6	3	0.3	10	1.1	16	1.8	278	31.9
Henderson	86	3.8	69	3.1	74	3.3	44	2.0	621	27.7
Henry	14	1.9	7	0.9	12	1.6	18	2.4	226	30.0
Hickman Hopkins	5	1.9	1	0.4	5	1.9	3	1.1	41	15.6
Jackson	39 6	1.7 0.9	41	1.8	85	3.7	34	1.5	554	23.8
Jefferson	1823	5.3	0 1001	0.0 2.9	13.	1.9	14	2.1	62	9.2
Jessamine	51	2.6	24		758	2.2	858	2.5	9058	26.1
Johnson	13	1.1	6	1.2 0.5	33 30	1.7	. 77	3.9	387	19.8
Kenton	413	5.5	195	2.6	30 143	2.6 1.9	23 157	2.0	143	12.2
Knott	10	1.1	3	0.3	23		157	2.1	2090	27.6
	. 10		3	0,3	23	2.6	21	2.4	167	18.9

TABLE 42. NUMBER OF CRASHES AND RATES BY CRASH TYPE FOR EACH COUNTY (continued)

	PEDEST CRASH		BICYCI CRASH		MOTORG CRAS		SCHOOI CRASI		TRUC CRASH	
	NUMBER*	RATE**	NUMBER*	RATE**	NUMBER*	RATE**	NUMBER*	RATE**	NUMBER*	RATE**
Knox	26	1.6	14	0.9	39	2.5	31	1.9	183	11.5
Larue	10	1.5	3	0.4	6	0.9	4	0.6	134	20.0
Laurel	38	1.4	19	0.7	46	1.7	. 55	2.1	739	28.0
Lawrence	11	1,4	4	0.5	11	1.4	8	1.0	138	17.7
Lee	5	1.3	1	0.3	3	0.8	6	1.5	31	7.8
Leslie Letcher	11 18	1.8	2	0.3	20	3.2	19	3.1	121	19.5
Lewis	14	1.4 2.0	5 2	0.4 0.3	35 8	2.8	31 12	2.5	371	29.4
Lincoln	9	0.8	6	0.5	20	1.1 1.7	9	1.7 0.8	131	18.6
Livingston	7	1.4	4	0.3	8	1.7	9	1.8	143 79	12.2
Logan	16	1.2	13	1.0	25	1.9	23	1.7	332	16.1 25.0
Lyon	3	0.7	1	0.2	16	4.0	1	0.2	134	33.2
McCracken	69	2.1	53	1.6	116	3.5	66	2.0	816	24.9
McCreary	10	1.2	4	0.5	14	1.6	13	1.5	69	8.1
McLean	5	1.0	6	1.2	10	2.0	9	1.8	95	19.1
Madison	65	1.8	47	1.3	76	2.1	85	2.4	915	25.8
Magoffin	11	1.7	3	0.5	12	1.8	9	1.4	73	11.0
Marion	21	2.3	14	1.5	25	2.7	9	1.0	135	14.8
Marshall	9	0.6	10	0.7	38	2.5	10	0.7	280	18.6
Martin	5	0.8	0	0.0	12	1.9	7	1.1	106	16.9
Mason	24	2.9	15	1.8	28	3.3	21	2.5	299	35.6
Meade	10	0.8	. 5	0.4	16	1.2	11	0.8	103	7.8
Menifee	3	0.9	I	0.3	5	1.5	3	0.9	23	7.0,
Mercer	21	2.0	8	0.8	27	2.6	20	1.9	182	17.5
Metcalfe	5	1.0	. 0	0.0	7	1.4	15	3.0	89	17.7
Monroe	9	1.5	1	0.2	8	1.4	6	1.0	48	8.2
Montgomery	24	2.1	6	0.5	21	1.9	39	3.5	226	20.0
Morgan	5	0.7	3	0.4	17	2.4	19	2.7	61	8.7
Muhlenberg	24	1.5	8	0.5	45	2.8	33	2.1	357	22.4
Nelson	30	1.6	24	1.3	43	2.3	36	1.9	281	15.0
Nicholas	3	0.9	0	0.0	5	1.5	3	0.9	32	9.4
Ohio Oldham	6	0.5	3	0.3	18	1.6	. 14	1.2	207	18.1
Oldnam Owen	21 7	0.9 1.3	10 0	0.4 0.0	25 11	1.1	41	1.8	386	16.7
Owsley	4	1.6	1	0.0	2	2.1 0.8	5 5	0.9 2.1	70 36	13.3
Pendleton	8	1.1	1	0.4	19	2.6	12	1.7	152	14.8 21.1.
Perry	43	2.9	12	0.8	45	3.1	52	3.5	449	30.6
Pike	89	2.6	10	0.3	169	4.9	74	2.2	1254	36.5
Powell	10	1.5	5	0.8	9	1.4	11	1.7	114	17.2
Pulaski	41	1.5	19	0.7	53	1.9	40	1,4	482	17.1
Robertson	2	1.8	0	0.0	2.	1.8	0	0.0	4	3.5
Rockcastle	10	1.2	3	0.4	17	2.1	24	2.9	297	35.8
Rowan	18	1.6	9	0.8	34	3.1	18	1.6	215	19.5
Russell	8	1.0	1	0.1	18	2.2	7	0.9	94	11.5
Scott	30	1.8	17	1.0	37	2.2	. 41	2.5	585	35.4
Shelby	39	2.3	17	1.0	31	1.9	40	2.4	457	27.4
Simpson	14	1.7	11	1.3	13	1.6	3	0.4	357	43.5
Spencer	7	1.2	3	0.5	17	2.9	14	2.4	56	9.5
Taylor	18	1.6	14	1.2	20	1.7	10	0.9	128	11.2
Todd	13	2.2	3	0.5	12	2.0	4	0.7	` 109	18.2
Trigg	5	0.8	2	0.3	19	3.0	4	0.6	105	16.7
Trimble	5	1.2	1	0.2	13	3.2	9	2.2	85	20.9
Union	14	1.8	8	1.0	21	2.7	12	1.5	173	22.1
Warren	110	2.4	67	1.4	132	2.9	91	2.0	1237	26.7
Washington	13	2.4	1	0.2	11	2.0	15	2.7	100	18.3
Wayne	15	1.5	10	1.0 1.0	12	1.2	22	2.2	85	8.5
Webster	7 26	1.0 1.4	7 13	0.7	11 33	1.6 1.8	. 37	1.6 2.1	237 465	33.6 25.9
Whitley Wolfe	11	3.1	4	1.1	8	2.3	5	1.4	77	23.9
Woodford	26	2.2	8	0.7	26	2.3	22	1.9	260	22.4
TT OUGIUIU	20	2.2	o	0.7	20	۷.۷	22	1.7	200	44.4

^{*} Five-Year (1996-2000) Total.

^{**} Rates are annual crashes per 10,000 population.

TABLE 43. PEDESTRIAN CRASH RATES BY COUNTY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES) (1996-2000)(ALL ROADS)

TABLE 44. PEDESTRIAN CRASH RATES BY CITY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES)(1996-2000)

CITY	NUMBER OF CRASHES (1996-2000)	ANNUAL CRASH RATE (CRASHES PER 10,000 POPULATION)	CITY	NUMBER OF CRASHES (1996-2000)	ANNUAL CRASH RATE (CRASHES PER 10,000 POPULATION)
					·····
Louisville	TION CATEGORY 1,289	10.1	Springfield		ORY 2,500-4,999 7.6
Lexington	635	4.9	Hazard	10 17	7.0 7.1
POPULA	TION CATEGORY	′ 20.000-55.000	Irvine	.,	6.3
Covington	292	13.5	Lancaster	10	5.4
Hopkinsville	78	5.2	Ludlow	11	5.0
Henderson	71	5.2	Marion	8	5.0
Ashland	48	4.4	Williamstown	8	5.0
Florence	48	4. <u>1</u>	Prestonsburg	8 9 7	5.0
Paducah	49	3.7	Hodgenville		4.9
Bowling Green Owensboro	89 96	3.6 3.6	Morganfield Tompkinsville	8 6 8 7 7	4.6 4.5
Richmond	43	3.2	Lakeside Park	6	4.5 4.2
Frankfort	37	2.7	Grayson	S S	4.1
Elizabethtown	23	2.0	Barbourville	ž	3.9
Radcliff	21	1.9	Cold Spring	7	3.7
Jeffersontown	24	1.8	Greenville	8	3.6
POPULA	TION CATEGORY	′ 10,000-19,999	Columbia	8 7	3.5
Newport	128	15.0	Mount Vernon	4 6	3.1
Shively	57	7.5	Paintsville	6	2.9
Shelbýville	23	4.6	Fulton	4	2.9
Nicholasville	43	4.4	Flemingsburg	45333322	2.7
Winchester	35	4.2	Carrollton	5	2.6
Bardstown	20 20	3.9 3.9	Southgate Russell	. ქ	1.7 1.6
Mayfield Somerset	20 21	3.9 3.7	Scottsville	S Q	1.4
Danville	24	3.1	Benton	3	1.4
Campbellsville	16	3.0	Dawson Springs	ž	1.3
Saint Matthews	23	2.9	Stanton	2	1.3
Madisonville	27	2.8	Cumberland	1	0.8
Erlanger	23	2.8	Hickman	1	0.8
Independence	20	2.7	Calvert City	1	0.7
Georgetown	22 15	2.4 2.3	Park Hills Providence	1	0.7 0.6
Glasgow Middlesboro	12	2.3 2.3	Stanford	+	0.6
Fort Thomas	19	2.3 2.3	Starilord	'	0.0
Murray	10	1.3		•	
POPUL	ATION CATEGOF	Y 5.000-9.999			
Pikeville	24	7.6			
Dayton	19	6.4			
Mount Sterling	17	5.8			
Cynthiana	17	5.4			
Versailles Morehead	19 15	5.1 5.1			
Harrodsburg	20	5.0			
Lebanon	14	4.9			•
Maysville	22	4.9			
Bellevue	16	4.9	*		
London	12	4.2			
Fort Wright	12	4.2			
Paris Monticello	19 11	4.1 3.7			
Corbin	13	3.7 3.4			•
Russellville	11	3.4			
Leitchfield	9	2.9			
Princeton	9	2.8			
Elsmere	11	2.8 2.7			
La Grange	7	2.5 2.5			
Franklin					
	10	2.5			
Fort Mitchell	10 9	2.2			
Fort Mitchell Flatwoods	10 9 8	2.2 2.1			
Fort Mitchell Flatwoods Shepherdsville	10 9 8 8	2.2 2.1 1.9			
Fort Mitchell Flatwoods Shepherdsville Mount Washingto	10 9 8 8	2.2 2.1 1.9 1.9			
Fort Mitchell Flatwoods Shepherdsville Mount Washingto Lawrenceburg	10 9 8 8 8 on 8	2.2 2.1 1.9 1.8			
Fort Mitchell Flatwoods Shepherdsville Mount Washingte Lawrenceburg Alexandria	10 9 8 8 9 9 9 9 9 7	2.2 2.1 1.9 1.9			
Fort Mitchell Flatwoods Shepherdsville Mount Washingto Lawrenceburg	10 9 8 8 8 9 9 7 7 8 4	2.2 2.1 1.9 1.9 1.8 1.7 1.6	•		
Fort Mitchell Flatwoods Shepherdsville Mount Washingte Lawrenceburg Alexandria Berea Central City Edgewood	10 9 8 8 8 7 8 7 8 4 4 6	2.2 2.1 1.9 1.8 1.7 1.6 1.4	•		
Fort Mitchell Flatwoods Shepherdsville Mount Washingte Lawrenceburg Alexandria Berea Central City Edgewood Highland Heights	10 9 8 8 8 7 8 7 8 4 6 6	2.2 2.1 1.9 1.8 1.7 1.6 1.4 1.3			
Fort Mitchell Flatwoods Shepherdsville Mount Washingte Lawrenceburg Alexandria Berea Central City Edgewood Highland Heights Taylor Mill	10 9 8 8 8 9 7 8 4 6 6	2.2 2.1 1.9 1.8 1.7 1.6 1.4 1.3 1.2			
Fort Mitchell Flatwoods Shepherdsville Mount Washingte Lawrenceburg Alexandria Berea Central City Edgewood Highland Heights Taylor Mill Williamsburg	10 9 8 8 8 9 7 8 4 6 6	2.2 2.1 1.9 1.8 1.7 1.6 1.4 1.3 1.2 1.2			
Fort Mitchell Flatwoods Shepherdsville Mount Washingte Lawrenceburg Alexandria Berea Central City Edgewood Highland Heights Taylor Mill	10 9 8 8 8 7 8 7 8 4 6 6	2.2 2.1 1.9 1.8 1.7 1.6 1.4 1.3 1.2			

TABLE 45. BICYCLE CRASH RATES BY COUNTY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES) (1996-2000)

L	JECHEASING PER	ANNUAL CRASH RATE			ANNUAL CRASH RATE
COUNTY	NUMBER OF CRASHES	(CRASHES PER 10,000 POP.)	COUNTY	NUMBER OF CRASHES	(CRASHES PER 10,000 POP.)
	ATION CATEGORY		POPULATI	ON CATEGORY 15,0	
Fulton McLean	12 6 4 3 3 2 2 1	3.1 1.2	Mason Marion	15 14	1.8 1.5
Wolfe Livingston	4	1. 1 0.8	Bourbon Simpson	14 11	1.4 1.3
Gallatin Ballard	3	0.8 0.7	Harrison	12 14	1.3 1.2
Bracken	2	0.5	Taylor Union	8	1.0
Hancock Hickman	1	0.5 0.4	Wayne Henry	7	1.0 0.9
Owsley Lee	1	0.4 0.3	Rowan Mercer	9 8	0.8 0.8
Menifee Lyon	1	0.3 0.2	Anderson Clay	8 8	0.8 0.7
Trimble Crittenden	1	0.2 0.2 0.2	Estill Woodford	1180798885876664444333334323	0.7 0.7
Nicholas Elliott	Ŏ 0	0.0 0.0	Grant Montgomery	7 6	0.6
Carlisle Clinton	ŏ	0.0 0.0	Lincoln Johnson	ĕ	0.5 0.5 0.5
Cumberland	Ŏ	0.0	Adair	4	0.5
Robertson POPULA	ATION CATEGORY	0.0	McCreary Lawrence	4	0.5 0.5
Carroll Caldwell	12 12 7	2.4 1.8	Allen Rockcastle	4 3	0.4 0.4
Webster Garrard	7 6	1.0 0.8	Breathitt Ohio	3 3	0.4 0.3
Powell Todd	5 3	0.8 0.5	Hart Grayson	3 4	0.3 0.3
Magoffin	3	0.5 0.5	Knott	3	0.3 0.3
Spencer Fleming Larue	3	0.4 0.4 0.4	Casey Breckinridge Russell	3	0.3 0.1
Morgan Bath	65333333322221	0.4 0.4 0.4	POPULATI Henderson	ON CATEGORY 25,0	000-50,000
Lewis	2	0.3	Hopkins Boyd	69 41	3.1 1.8
Leslie Trigg	Ž Ž	0.3 0.3	Bell	39 20	1.6 1.3
Monroe Butler	1	0.2 0.2	Clark Nelson	20 21 24 17	1.3 1.3
Washington Green	1	0.3 0.2 0.2 0.2 0.2 0.2	Boyle Jessamine	17 24	1.2 1.2
Pendleton Jackson	1 0	0.1 0.0	Barren Shelby	24 20 17	1.1 1.0
Martin Owen	0 0	0.0 0.0	Greenup Scott	18 17	1.0 1.0
Edmonson Metcalfe	ŏ	0.0 0.0	Logan Knox	13	1.0
Wictoung	Ŭ	0.0	Franklin Graves	22 15	0.9 0.9 0.8
			Harlan Perry	13	0.8 0.8
			Calloway	14 22 15 13 12 12 10	0.7 0.7 0.7
			Marshall Whitley	13 8	0.7
•			Muhleńberg Floyd Oldham	11	0.5 0.5
•			Meade	10 5	0.4 0.4
			Letcher Carter	10 5 5 3	0.4 0.2
			POPULATI Campbell	ON CATEGORY OV 142	ER 50,000 3.2
			Fayette Jefferson	400 1,001	3.1
			Daviess	124	2.9 2.7 2.6
	•		Kenton Christian	195 65	1.8
			McCracken Warren	53 67	1.6 1.4
			Boone Madison	62 47	1.4 1.3
			Hardin Pulaski	52 19	1.1 0.7
			Laurel Bullitt	62 47 52 19 19 12	0.7 0.4
			Pike	10	0.3

TABLE 46. BICYCLE CRASH RATES BY CITY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES)(1996-2000)

NUMBER OF CRASHES CITY (1996-2000)	ANNUAL CRASH RATE (CRASHES PER 10,000 POPULATION)	CITY	NUMBER OF CRASHES (1996-2000)	ANNUAL CRASH RATE (CRASHES PER 10,000 POPULATION)
	····			
POPULATION CATEGORY Louisville 738	OVER 200,000 5.8	Carrollton		ORY 2,500-4,999 4.7
Lexington 397	3.0	Fulton	9 6 7	4.3
POPULATION CATEGORY	20,000-55,000 5.6	Providence Ludlow	7	3.9 3.2
Covington 121 Henderson 60	5.6 4.4	Hickman	4	3.2 3.1
Owensboro 109	4.0	Morganfield	4	2.3
Paducah 46	3.5	Russell	4	2.2
Florence 39 Hopkinsville 47	3.3 3.1	Irvine Lancaster	3 4	2.1 2.1
Ashland 30	2.7	Dawson Springs	3	2.1
Bowling Green 58	2.4	Greenville	3 4	1.8
Elizabethtown 25	2.2	Columbia	3	1.5
Richmond 27 Jeffersontown 18	2.0 1.4	Mount Vernon Calvert City	2	1.5
Frankfort 20	1.4	Hodgenville	5	1.5 1.4
Radcliff 13	1.2	Stanton	2	1.3
POPULATION CATEGORY	10,000-19,999	Stanford	3222222222222	1.2
Newport 90 Shively 34	10.6 4.5	Southgate Cold Spring	2	1.2 1.1
Bardstown 18	4.5 3.5	Vine Grove	2	1.1
Madisonville 33	3.4	Grayson	2	1.0
Middlesboro 15	2.9	Paintsville	2	1.0
Erlanger 24 Campbellsville 13	2.9 2.5	Scottsville Hazard	2	0.9 0.8
Shelbyville 12	2.3	Cumberland	, 1	0.8
Winchester 19	2.3	Tompkinsville	1	0.8
Glasgow 15	2.3	Beaver Dam	1	0.7
Nicholasville 22 Mayfield 11	2.2 2.1	Park Hills Lakeside Park	1	0.7 0.7
Danville 15	1.9	Marion	i	0.7 0.6
Saint Matthews 12	1.5	Barbourville	1	0.6
Georgetown 13	1.4	Prestonsburg	1	0.6
Somerset 8 Murray 10	1 <i>.</i> 4 1.3	Williamstown	, I	0.6
Independence 7	0.9	,		
Fort Thomas 7	8.0			
POPULATION CATEGORY Bellevue 20	7 5,000-9,999 6.2			
Lebanon 12	4.2			
Princeton 12	3.7			
Cynthiana 11	3.5			
Corbin 12 Monticello 9	3.1 3.0			
Maysville 13	2.9			
Russellville 10	2.8			
Franklin 11 Morehead 8	2.8		4	
Morehead 8 Paris 12	2.7 2.6			•
Berea 13	2.6			
London 7	2.5			
Elsmere 9 Versailles 8	2.2 2.1			
Davton 6	2.0			
Highland Heights 6	1.8		•	
Harrodsburg 7	1.7 1.5			
Edgewood 7 Central City 4	1.5 1.4			•
Flatwoods 5	1.3			
Flatwoods 5 Williamsburg 3 Lawrenceburg 5 Mount Sterling 3	1.2			
Lawrenceburg 5 Mount Sterling 3	1.1 1.0			
Fort Mitchell 4	1.0			
Villa Hills 3	0.8			
Fort Mitchell 4 Villa Hills 3 Alexandria 3 Shepherdsville 3 Fort Wright 2 Pikeville 2	0.7			
Shepherdsville 3 Fort Wright 2	0.7 0.7			
Pikeville 2	0.6			
La Grange 1	0.4	•		
Leitchfield 1	0.3	•		
Wilmore 1 Taylor Mill 1	0.3 0.3			
Mount Washington 1	0.3 0.2			
	V			

TABLE 47. MOTORCYCLE CRASH RATES BY COUNTY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES) (1996-2000)

POPULATION CATEGORY UNDER 10,000 POP. COUNTY CRASHES PER 10,000 POP.	· —	NUMBER OF	ANNUAL CRASH RATE (CRASHES	v	NUMBER OF	ANNUAL CRASH RATE (CRASHES
Lyon	COUNTY	CRASHES	PER 10,000 POP.)	COUNTY	CRASHES	PER 10,000 POP.
Bracken 10					ION CATEGORY 15,0	
Bracken 10	Lyon Elliott	13	3.9	Breathitt Grant	38 39	3.5
Bracken 10	Trimble	13	3.2	Mason	28	3.3
Crittenden 11	Bracken	10	2.4	Marion	25	2.7
McLean 10 2.0 Knott 23 2.6 Hickman 5 1.9 Mercer 27 2.6 Robertson 2 1.8 Adair 20 2.3 Wercer 27 2.6 Robertson 2 1.8 Adair 20 2.3 Wenter 20 2.3 Wenter 20 2.2 Rullton 6 1.5 Allen 20 2.2 Wenter 5 1.5 Russell 18 2.2 Menifiee 5 1.5 Rockcastle 17 2.1 Hancock 6 1.4 Estill 16 2.1 Carlisle 3 1.1 Bourbon 19 2.0 Wenter 3 2.0 Wen	Wolfe Crittenden		2.3		21 30	2.7
Livingston 8 1.6 Woodford 26 2.2 Nicholas 5 1.5 Russell 18 2.2 Nicholas 5 1.5 Russell 18 2.2 Nicholas 5 1.5 Russell 17 2.1 Hancock 6 1.4 Estill 16 2.1 Carlisle 3 1.1.1 Bourbon 19 2.0 Ballard 4 1.0 Montgomery 21 1.9 Lee 0.8 Grayson 22 1.8 Owsley 2 0.8 Lincoln 20 1.7 Cimton 20 1.7 Cumberland 0 0.4 Taylor 20 1.7 Cumberland 16 3.2 MicCrary 12 1.6 Lesile 20 3.0 MicCrary 14 1.6 Lesile 20 3.0 MicCrary 14 1.6 Lesile 20 3.0 MicCrary 14 1.6 Lesile 20 3.0 Ohio 18 1.6 Trigg 19 3.0 Ohio 18 1.6 Dependen 19 Anderson 13 1.6 Dependen 19 2.4 Hard 1.6 Morgan 17 2.4 Hard 10 1.4 Edmonson 14 2.4 Casey 10 1.3 Garrard 17 2.3 Wayne 12 Owen 11 2.1 Hard 10 Bath 11 2.0 Breckindige 10 1.1 Bath 11 1	McLean		2.0	Knott	23	2.6
Livingston 8 1.6 Woodford 26 2.2 Nicholas 5 1.5 Russell 18 2.2 Nicholas 5 1.5 Russell 18 2.2 Nicholas 5 1.5 Russell 17 2.1 Hancock 6 1.4 Estill 16 2.1 Carlisle 3 1.1.1 Bourbon 19 2.0 Ballard 4 1.0 Montgomery 21 1.9 Lee 0.8 Grayson 22 1.8 Owsley 2 0.8 Lincoln 20 1.7 Cimton 20 1.7 Cumberland 0 0.4 Taylor 20 1.7 Cumberland 16 3.2 MicCrary 12 1.6 Lesile 20 3.0 MicCrary 14 1.6 Lesile 20 3.0 MicCrary 14 1.6 Lesile 20 3.0 MicCrary 14 1.6 Lesile 20 3.0 Ohio 18 1.6 Trigg 19 3.0 Ohio 18 1.6 Dependen 19 Anderson 13 1.6 Dependen 19 2.4 Hard 1.6 Morgan 17 2.4 Hard 10 1.4 Edmonson 14 2.4 Casey 10 1.3 Garrard 17 2.3 Wayne 12 Owen 11 2.1 Hard 10 Bath 11 2.0 Breckindige 10 1.1 Bath 11 1		5	1.9 1.8	Mercer Adair	27 20	2.6 2.3
Cumberland 0 0 Carroll 16 Carroll 16 Carroll 16 Spencer 17 2.99 Carroll 16 Spencer 17 2.99 Carroll 16 Spencer 17 2.99 Carroll 18 Spencer 17 2.99 Carroll 18 Spencer 17 2.99 Carroll 18 Spencer 17 2.99 Carroll 19 2.6 Carroll 19 2.40 Casey 10 13 1.4 Casey 10 Service 11 1.4 Carroll 19 2.40 Casey 10 1.3 Carroll 19 Carroll 1	Livingston	8	16	Woodford	26	2.2
Cumberland 0 0 Carroll 16 Carroll 16 Carroll 16 Spencer 17 2.99 Carroll 16 Spencer 17 2.99 Carroll 16 Spencer 17 2.99 Carroll 18 Spencer 17 2.99 Carroll 18 Spencer 17 2.99 Carroll 18 Spencer 17 2.99 Carroll 19 2.6 Carroll 19 2.40 Casey 10 13 1.4 Casey 10 Service 11 1.4 Carroll 19 2.40 Casey 10 1.3 Carroll 19 Carroll 1		6 5	1.5 1.5		20 18	2.2 2.2
Cumberland 0 0 Carroll 16 Carroll 16 Carroll 16 Spencer 17 2.99 Carroll 16 Spencer 17 2.99 Carroll 16 Spencer 17 2.99 Carroll 18 Spencer 17 2.99 Carroll 18 Spencer 17 2.99 Carroll 18 Spencer 17 2.99 Carroll 19 2.6 Carroll 19 2.40 Casey 10 13 1.4 Casey 10 Service 11 1.4 Carroll 19 2.40 Casey 10 1.3 Carroll 19 Carroll 1	Menifee	5	1.5	Rockcastle	17	2.1
Cumberland 0 0 Carroll 16 Carroll 16 Carroll 16 Spencer 17 2.99 Carroll 16 Spencer 17 2.99 Carroll 16 Spencer 17 2.99 Carroll 18 Spencer 17 2.99 Carroll 18 Spencer 17 2.99 Carroll 18 Spencer 17 2.99 Carroll 19 2.6 Carroll 19 2.40 Casey 10 13 1.4 Casey 10 Service 11 1.4 Carroll 19 2.40 Casey 10 1.3 Carroll 19 Carroll 1	Carlisle	3	1.1	Bourbon	19	2.0
Cumberland 0 0 Carroll 16 Carroll 16 Carroll 16 Spencer 17 2.99 Carroll 16 Spencer 17 2.99 Carroll 16 Spencer 17 2.99 Carroll 18 Spencer 17 2.99 Carroll 18 Spencer 17 2.99 Carroll 18 Spencer 17 2.99 Carroll 19 2.6 Carroll 19 2.40 Casey 10 13 1.4 Casey 10 Service 11 1.4 Carroll 19 2.40 Casey 10 1.3 Carroll 19 Carroll 1		4	1.0	Montgomery	21	1.9
Cumberland 0 0 Carroll 16 Carroll 16 Carroll 16 Spencer 17 2.99 Carroll 16 Spencer 17 2.99 Carroll 16 Spencer 17 2.99 Carroll 18 Spencer 17 2.99 Carroll 18 Spencer 17 2.99 Carroll 18 Spencer 17 2.99 Carroll 19 2.6 Carroll 19 2.40 Casey 10 13 1.4 Casey 10 Service 11 1.4 Carroll 19 2.40 Casey 10 1.3 Carroll 19 Carroll 1	Owsley	2	0.8	Lincoln	20	1.7
Spēncer 17	Clinton	2		Taylor Clay	20 21	
Spēncer 17	POPULA	ATION CATEGORY 1	0.000-14.999	Henry	12	1.6
Spēncer 17	Leslie	20	3.2 3.2	McCreary Simpson	14 13	1.6 1.6
Morgan 17 Edmonson 14 Edmonson 14 Edmonson 14 Casey 10 Mayne 12 POPULATION CATEGORY 25,000-50,000 Mayne 11 A Mayne 12 A Mayne 12 A Cale Mayne 12 A Mayne 12 A CateGory 25,000-50,000 POPULATION CATEGORY 25,000-50,000 POPULATION CATEGORY 25,000-50,000 A 3.7 Powling 12 A Mayne 12 A CateGory 25,000-50,000 A Mayne 12 A Mayne 12 A CateGory 25,000-50,000 A Mayne 12 A Mayne 12 A CateGory 25,000-50,000 A Mayne 12 A Mayne 12 A Mayne 12 A CateGory 25,000-50,000 A Mayne 12 A Mayne 12 A CateGory 25,000-50,000 A Mayne 12 A Mayne 12 A CateGory 25,000-50,000 A Mayne 12 A Mayne 12 A CateGory 25,000-50,000 A Mayne 12 A Mayne 12 A CateGory 25,000-50,000 A Mayne 12 A Mayne 12 A CateGory 25,000-50,000 A Mayne 12 A Mayne 12 A CateGory 25,000-50,000 A A CateGory 41 A Marshall 38 A CateGory 41 A Marshall 44 A CateGory 41 A Ma	Trigg	19	3.0	Ohio	18	1.6
Garrard 17	Pendleton	19	2.6		13	1.4
Garrard 17	Morgan Edmonson	T 7.	2.4 2.4	Lawrence Casev	11 10	
Bath 11	Garrard		2.3	Wayne	įž	1.2
Washington 11 2.0 POPULATION CATEGORY 25,000-50,000 Todd 12 2.0 Boyd 93 3.7 Martin 12 1.9 Hopkins 85 3.7 Jackson 13 1.9 Floyd 78 3.7 Magoffin 12 1.8 Henderson 74 3.3 Fleming 12 1.8 Henderson 74 3.3 Fleming 12 1.7 Perry 45 3.1 Webster 11 1.6 Carter 41 3.0 Butler 10 1.5 Letcher 35 2.8 Caldwell 10 1.5 Barren 54 2.8 Monroe 8 1.4 Muhlenberg 45 2.8 Green 8 1.4 Knox 39 2.5 Powell 9 1.4 Knox 39 2.5 Lewis 8 1.1 Nelson 43<	Bath	11	2.0	Breckinridae	10	1.1
Fleming 12 1.7 Perry 45 3.1 Webster 11 1.6 Carter 41 3.0 Butler 10 1.5 Letcher 35 2.8 Caldwell 10 1.5 Barren 54 2.8 Monroe 8 1.4 Muhlenberg 45 2.8 Green 8 1.4 Clark 44 2.7 Metcalfe 7 1.4 Marshall 38 2.5 Powell 9 1.4 Knox 39 2.5 Lewis 8 1.1 Nelson 43 2.3 Larue 6 0.9 Franklin 55 2.3 Scott 37 2.2 Calloway 36 2.1 Graves 35 1.9 Shelby 31 1.9 Logan 25 1.9 Whitley 33 1.8 Jessamine 33 1.7 Harlan 29 1.7 Boyle 21 1.5 Bell 21 1.4 Greenup 24 1.3 Meade 16 1.2 Oldham 25 1.1	Washington Todd		2.0	POPULĀTI	ION CATEGORY 25.0	000-50,000
Fleming 12	Martin	12	1.9	Hopkins	85	3.7
Fleming 12	Jackson Magoffin	12	1.9 1.8	Floyd Henderson	78 74	3.7 3.3
Butler 10 1.5 Letcher 35 2.8 Caldwell 10 1.5 Barren 54 2.8 Monroe 8 1.4 Muhlenberg 45 2.8 Green 8 1.4 Clark 44 2.7 Metcalfe 7 1.4 Marshall 38 2.5 Powell 9 1.4 Knox 39 2.5 Lewis 8 1.1 Nelson 43 2.3 Larue 6 0.9 Franklin 55 2.3 Scott 37 2.2 Calloway 36 2.1 Graves 35 1.9 Shelby 31 1.9 Logan 25 1.9 Whitley 33 1.8 Jessamine 33 1.7 Harlan 29 1.7 Boyle 21 1.5 Bell 21 1.4 Greenup 24 1.3 Meade 16 1.2 Oldham 25 1.1	Flemina	12	1.7	Perry	45	3.1
Monroe 8 1.4 Muhlenberg 45 2.8 Green 8 1.4 Clark 44 2.7 Metcalfe 7 1.4 Marshall 38 2.5 Powell 9 1.4 Knox 39 2.5 Lewis 8 1.1 Nelson 43 2.3 Larue 6 0.9 Franklin 55 2.3 Scott 37 2.2 2.2 Calloway 36 2.1 36 Graves 35 1.9 Shelby 31 1.9 Logan 25 1.9 Whitley 33 1.8 Jessamine 33 1.7 Harlan 29 1.7 Boyle 21 1.5 Bell 21 1.4 Greenup 24 1.3 Meade 16 1.2 Oldham 25 1.1	Butler	10	1.5	Letcher	35	2.8
Metcalfe 7 1.4 Marshall 38 2.5 Powell 9 1.4 Knox 39 2.5 Lewis 8 1.1 Nelson 43 2.3 Larue 6 0.9 Franklin 55 2.3 Scott 37 2.2 Calloway 36 2.1 Graves 35 1.9 Shelby 31 1.9 Logan 25 1.9 Whitley 33 1.8 Jessamine 33 1.7 Harlan 29 1.7 Boyle 21 1.5 Bell 21 1.4 Greenup 24 1.3 Meade 16 1.2 Oldham 25 1.1		10 8	1.5 1.4	Barren Muhlenberg	54 45	2.8
Larue 6 0.9 Franklin 55 2.3 Scott 37 2.2 Calloway 36 2.1 Graves 35 1.9 Shelby 31 1.9 Logan 25 1.9 Whitley 33 1.8 Jessamine 33 1.7 Harlan 29 1.7 Boyle 21 1.5 Bell 21 1.4 Greenup 24 1.3 Meade 16 1.2 Oldham 25 1.1	Green	8	1.4	Clark	44	2.7
Larue 6 0.9 Franklin 55 2.3 Scott 37 2.2 Calloway 36 2.1 Graves 35 1.9 Shelby 31 1.9 Logan 25 1.9 Whitley 33 1.8 Jessamine 33 1.7 Harlan 29 1.7 Boyle 21 1.5 Bell 21 1.4 Greenup 24 1.3 Meade 16 1.2 Oldham 25 1.1		9			38 39	2.5 2.5
Graves 35 1.9 Shelby 31 1.9 Logan 25 1.9 Whitley 33 1.8 Jessamine 33 1.7 Harlan 29 1.7 Boyle 21 1.5 Bell 21 1.4 Greenup 24 1.3 Meade 16 1.2 Oldham 25 1.1			1.1	Nelson Erapklin	43	23
Graves 35 1.9 Shelby 31 1.9 Logan 25 1.9 Whitley 33 1.8 Jessamine 33 1.7 Harlan 29 1.7 Boyle 21 1.5 Bell 21 1.4 Greenup 24 1.3 Meade 16 1.2 Oldham 25 1.1	Laide .	O	0.9	Scott	37 37	2.2
Logan 25 1.9 Whitley 33 1.8 Jessamine 33 1.7 Harlan 29 1.7 Boyle 21 1.5 Bell 21 1.4 Greenup 24 1.3 Meade 16 1.2 Oldham 25 1.1				Calloway Graves	36 . 35	2.1 1.9
Harlan 29 1.7 Boyle 21 1.5 Bell 21 1.4 Greenup 24 1.3 Meade 16 1.2 Oldham 25 1.1				Shelby	31	1.9
Harlan 29 1.7 Boyle 21 1.5 Bell 21 1.4 Greenup 24 1.3 Meade 16 1.2 Oldham 25 1.1				Whitley	33	1.8
Meade 16 1.2 Oldham 25 1.1	•				33 29	
Meade 16 1.2 Oldham 25 1.1				Bovle	21	1.5
Meade 16 1.2 Oldham 25 1.1				Greenup	24	1.3
Oldhani 20			,	Meade	16 .	1.2
POPULATION CATEGORY OVER 50,000				POPULATI	ON CATEGORY OVE	ER 50,000
Pike 169 4.9 McCracken 116 3.5				Pike McCracken	169 116	4.9 3.5
Warren 132 2.9	•			Warren	132	2.9
Pike 169 4.9 McCracken 116 3.5 Warren 132 2.9 Daviess 111 2.4 Jefferson 758 2.2				Daviess Jefferson	. 758	2.4 2.2
Boone 96 2.2				Boone	96	2.2
Favette 270 2.1				Fayette	270	2.1
Madison 76 2.1 Kenton 143 1.9				Madison Kenton	76 143	
Pulaski 53 1.9				Pulaski	53	1.9
Christian 64 1.8 Hardin 87 1.8				Onristian Hardin	87	1.8
Laurel 46 1.7 Bullitt 45 1.5				Laurel	46	1.7

TABLE 48. MOTORCYCLE CRASH RATES BY CITY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES)(1996-2000)

NUMBER OF CRASH RATE CRAS	ANINI	1.4.1	· · · · · · · · · · · · · · · · · · ·		
CRASHES CRASHES PER CITY	ANNU NUMBER OF CRASH RA	JAL		NUMBED OF	ANNUAL
POPULATION CATEGORY OVER 200,000 20,000 POPULATION CITY (1996-2000) 1,0,000 POPULATION Coursell	CRASHES (CRASHES P	FR			(CRASHES PER
POPULATION CATEGORY 2,500-4,999 5,0	CITY (1996-2000) 10,000 POPULATIO	DN)	CITY	(1996-2000) 10	0,000 POPULATION)
Louisville		/		· · · · · · · · · · · · · · · · · · ·	
Lexington 288 2-1	POPULATION CATEGORY OVER 200,000	2.4	Prostonoburg		Y 2,500-4,999
Ashland 44 4,0 Columbia 7 3,5 Bowing Green 84 3,4 Paintswille 7 3,4 Henderson 42 3,4 Henderson 44 3,4 Paintswille 7 3,4 Henderson 42 3,5 Bowing Green 84 3,4 Paintswille 7 3,4 Henderson 42 3,5 Bowing Green 84 3,3 Paintswille 7 3,4 Henderson 42 3,5 Bowing Green 84 3,5	Lexington 268	3. 4 2.1		5	5.0 3.0
Ashland 44 4,0 Columbia 7 3,5 Bowing Green 84 3,4 Paintswille 7 3,4 Henderson 42 3,4 Henderson 44 3,4 Paintswille 7 3,4 Henderson 42 3,5 Bowing Green 84 3,4 Paintswille 7 3,4 Henderson 42 3,5 Bowing Green 84 3,3 Paintswille 7 3,4 Henderson 42 3,5 Bowing Green 84 3,5	POPULATION CATEGORY 20,000-55,000			5	3.7
Ashland 44 4,0 Columbia 7 3,5 Bowling Green 44 3,4 Päinswille 7 3,4 Bewing Green 44 3,4 Päinswille 7 3,4 Bewing Green 44 4 3,4 Päinswille 4 2,5 Hodgenville 4 2,8 Providence 2 2,8 Providence 6 2,8 Providence 6 2,8 Providence 7 3,4 Providence 7	Paducah 67	5.1	Cold Spring	7	
Henderson			Columbia T	7	
Elizabethtown 29 2.6 Cumberland 4 3.1	Bowling Green 84			7	
Owensboro 68 2.5 Carrollton 6 3.1 Richmond 38 2.5 Carrollton 6 3.1 Richmond 38 2.5 Hodgenville 4 2.8 Covingtion 49 2.5 Hodgenville 4 2.8 Sothsville 6 2.8 Covingtion 49 2.5 Sothsville 6 2.8 Covingtion 49 2.5 Sothsville 6 2.8 Covingtion 7 Covi	Henderson 44	3.2		8	
Richmond 34 2.5 Hodgenville 4 2.8		2.6		4	
Covington 49		2.5		6	
Radcilif	Covination 49	2.0 2.3	Scotteville	6	
Radcilif	Florence 26	2.2		5	
Radcilif	Frankfort 26	1.9		5	2.7
Radcilif	Hopkinsville 25	1.7	Dawson Springs	4	2.7
POPULATION CATEGORY 10,000-19,999 Madisonville 43 4.5 Fulton 3 2.2 Glasgow 25 3.8 Irvine 3 2.2 Shively 26 3.4 Lakeside Park 3 2.1 Shively 26 3.4 Marion 3 1.9 Etianger 25 3.0 Benton 4 1.9 Etianger 25 3.0 Benton 4 1.9 Shively Shively 26 3.0 Greenville 4 1.8 Shively Shively 26 3.0 Greenville 4 1.8 Shively Shively 27 Shively 28 Shively 28 Shively 29 1.8 Shively 29 1.7 Grayson 3 1.5 Murray 13 1.7 Southgate 2 1.5 Gampbellsville 9 1.7 Grayson 3 1.5 Murray 13 1.7 Southgate 2 1.2 Danville 12 1.6 Barbourville 2 1.1 Independence 10 1.3 Flemingsburg 1 0.7 Nicholasville 12 1.2 Middlesboro 5 1.0 Mayled 5 1.0 Mayled 5 1.0 Mayled 1 1 0.7 Middlesboro 5 1.0 Mayled 1 1 0.7 Mayled 1 1 0	Radcliff 18		Beaver Dam	4	2.6
Erianger 25 3.0 Benton 4 1.9 Winchester 25 3.0 Benton 4 1.9 Winchester 25 3.0 Greenville 4 1.8 Somerset 16 2.8 Stanford 3 1.7 Bardstown 12 2.3 Lancaster 3 1.6 Georgetown 16 1.8 Hardford 2 1.6 Georgetown 16 1.8 Hardford 2 1.6 Stellyville 9 1.8 Springfield 2 1.5 Campbellsville 9 1.7 Grayson 3 1.5 Murray 13 1.7 Grayson 3 1.5 Murray 13 1.7 Grayson 3 1.5 Murray 14 13 1.7 Grayson 3 1.5 Murray 15 1.7 Grayson 3 1.5 Murray 16 1.7 Grayson 3 1.5 Murray 17 1.1 Grayson 3 1.5 Murray 18 1.7 Grayson 3 1.5 Murray 19 1	Jettersontown 15	1.1		4	2.5
Erianger 25 3.0 Benton 4 1.9 Winchester 25 3.0 Benton 4 1.9 Winchester 25 3.0 Greenville 4 1.8 Somerset 16 2.8 Stanford 3 1.7 Bardstown 12 2.3 Lancaster 3 1.6 Georgetown 16 1.8 Hardford 2 1.6 Georgetown 16 1.8 Hardford 2 1.6 Stellyville 9 1.8 Springfield 2 1.5 Campbellsville 9 1.7 Grayson 3 1.5 Murray 13 1.7 Grayson 3 1.5 Murray 13 1.7 Grayson 3 1.5 Murray 14 13 1.7 Grayson 3 1.5 Murray 15 1.7 Grayson 3 1.5 Murray 16 1.7 Grayson 3 1.5 Murray 17 1.1 Grayson 3 1.5 Murray 18 1.7 Grayson 3 1.5 Murray 19 1		15	Lompkinsville	3	2.3
Erianger 25 3.0 Benton 4 1.9 Winchester 25 3.0 Benton 4 1.9 Winchester 25 3.0 Greenville 4 1.8 Somerset 16 2.8 Stanford 3 1.7 Bardstown 12 2.3 Lancaster 3 1.6 Georgetown 16 1.8 Hardford 2 1.6 Georgetown 16 1.8 Hardford 2 1.6 Stellyville 9 1.8 Springfield 2 1.5 Campbellsville 9 1.7 Grayson 3 1.5 Murray 13 1.7 Grayson 3 1.5 Murray 13 1.7 Grayson 3 1.5 Murray 14 13 1.7 Grayson 3 1.5 Murray 15 1.7 Grayson 3 1.5 Murray 16 1.7 Grayson 3 1.5 Murray 17 1.1 Grayson 3 1.5 Murray 18 1.7 Grayson 3 1.5 Murray 19 1		4.0 2 g		ა ე	2.2
Erianger 25 3.0 Benton 4 1.9 Winchester 25 3.0 Benton 4 1.9 Winchester 25 3.0 Greenville 4 1.8 Somerset 16 2.8 Stanford 3 1.7 Bardstown 12 2.3 Lancaster 3 1.6 Georgetown 16 1.8 Hardford 2 1.6 Georgetown 16 1.8 Hardford 2 1.6 Stellyville 9 1.8 Springfield 2 1.5 Campbellsville 9 1.7 Grayson 3 1.5 Murray 13 1.7 Grayson 3 1.5 Murray 13 1.7 Grayson 3 1.5 Murray 14 13 1.7 Grayson 3 1.5 Murray 15 1.7 Grayson 3 1.5 Murray 16 1.7 Grayson 3 1.5 Murray 17 1.1 Grayson 3 1.5 Murray 18 1.7 Grayson 3 1.5 Murray 19 1	Shively 26	3.4		ა a	
Erianger 25 3.0 Benton 4 1.9 Winchester 25 3.0 Benton 4 1.9 Winchester 25 3.0 Greenville 4 1.8 Somerset 16 2.8 Stanford 3 1.7 Bardstown 12 2.3 Lancaster 3 1.6 Georgetown 16 1.8 Hardford 2 1.6 Georgetown 16 1.8 Hardford 2 1.6 Stellyville 9 1.8 Springfield 2 1.5 Campbellsville 9 1.7 Grayson 3 1.5 Murray 13 1.7 Grayson 3 1.5 Murray 13 1.7 Grayson 3 1.5 Murray 14 13 1.7 Grayson 3 1.5 Murray 15 1.7 Grayson 3 1.5 Murray 16 1.7 Grayson 3 1.5 Murray 17 1.1 Grayson 3 1.5 Murray 18 1.7 Grayson 3 1.5 Murray 19 1	Newport 29	3.4		3	
Winchester 25 3.0 Greenville 4 1.8 Somerset 16 2.8 Stanford 3 1.7 Bardstown 12 2.3 Lancaster 3 1.6 Georgetown 16 1.8 Harlford 2 1.6 Shelbyville 9 1.8 Springfield 2 1.5 Campbellswille 9 1.7 Grayson 3 1.5 Murray 13 1.7 Southgate 2 1.2 Darville 12 1.6 Barbourville 2 1.2 Independence 12 1.6 Barbourville 2 1.2 Nerbille 12 1.0	Erlanger 25	3.0		4	
Somerset 16 2.8 Stanford 3 1.7 Gerogetown 12 2.3 Lancaster 3 1.6 Georgetown 16 1.8 Hartford 2 1.6 Georgetown 16 1.8 Hartford 2 1.6 Shelbyville 9 1.8 Springfield 2 1.5 Campbellsville 9 1.7 Grayson 3 1.5 Murray 13 1.7 Grayson 3 1.5 Murray 13 1.7 Southgate 2 1.2 Danville 12 1.6 Barbourville 2 1.1 Independence 10 1.3 Flemingsburg 1 0.7 Nicholasville 12 1.2 Saville 12 1.2 Heimingsburg 1 0.7 Nicholasville 12 1.2 Savilled 1 1.3 Flemingsburg 1 0.7 Nicholasville 12 1.2 Savilled 1 1.0 Savillations 1 1.0 Savillat	Winchester 25	3.0	Greenville		1.8
Independence	Somerset 16	2.8		, 3	1.7
Independence	Bardstown 12	2.3		3	
Independence	Georgetown 16 Shalbarilla 0			2	
Independence	Camphallevilla	1.0 1.7	Graveon	2	I.5 1 E
Independence	Murray 13		Southgate	2	1.0
Independence	Danville 12		Barbourville	2	
Saint Matthews 7 0.9 For Thomas 0.7 POPULATION CATEGORY 5,000-9,999 7 Pikeville 16 4.5 Morehead 10 3.4 London 9 3.2 Fort Mitchell 11 2.7 Paris 12 2.6 Corbin 10 2.5 Central City 7 2.4 Harrodsburg 10 2.5 Central City 7 2.4 Shepherdsville 9 2.2 For Wright 6 2.1 Versailles 8 2.1 Maysville 9 2.0 Cynthiana 6 1.9 Franklin 7 1.8 Highland Heights 6 1.8 Alexandria 7 1.8 Highland Heights 6 1.7 Would Sterling 5 1.7 Would Sterling 5 1.7 Williamsburg	Independence 10	1.3			
Saint Matthews 7 0.9 For Thomas 0.7 POPULATION CATEGORY 5,000-9,999 7 Pikeville 16 4.5 Morehead 10 3.4 London 9 3.2 Fort Mitchell 11 2.7 Paris 12 2.6 Corbin 10 2.5 Central City 7 2.4 Harrodsburg 10 2.5 Central City 7 2.4 Shepherdsville 9 2.2 For Wright 6 2.1 Versailles 8 2.1 Maysville 9 2.0 Cynthiana 6 1.9 Franklin 7 1.8 Highland Heights 6 1.8 Alexandria 7 1.8 Highland Heights 6 1.7 Would Sterling 5 1.7 Would Sterling 5 1.7 Williamsburg	Nicholasville 12				
Saint Matthews 7 0.9 For Thomas 0.7 POPULATION CATEGORY 5,000-9,999 7 Pikeville 16 4.5 Morehead 10 3.4 London 9 3.2 Fort Mitchell 11 2.7 Paris 12 2.6 Corbin 10 2.5 Central City 7 2.4 Harrodsburg 10 2.5 Central City 7 2.4 Shepherdsville 9 2.2 For Wright 6 2.1 Versailles 8 2.1 Maysville 9 2.0 Cynthiana 6 1.9 Franklin 7 1.8 Highland Heights 6 1.8 Alexandria 7 1.8 Highland Heights 6 1.7 Would Sterling 5 1.7 Would Sterling 5 1.7 Williamsburg	Middlesboro 5				· ·
Fort Thomas Pikeville Pike	Nayrieid 5				
POPULATION CATEGORY 5,000-9,999 Pikeville	Fort Thomas 6	0.9 0.7			•
Pikeville 21 6.7 Russeliville 16 4.5 Morehead 10 3.4 London 9 3.2 Fort Mitchell 11 2.7 Paris 12 2.6 Corbin 10 2.6 Harrodsburg 10 2.5 Central City 7 2.4 Shepherdsville 9 2.2 Fort Wright 6 2.1 Versailles 8 2.1 Maysville 9 2.0 Cynthiana 6 1.9 Franklin 7 1.8 Highland Heights 6 1.8 Alexandria 7 1.7 Mount Sterling 5 1.7 Dayton 5 1.7 Williamsburg 4 1.6 Leitchfield 5 1.6 Princeton 5 1.5 Lebanon 4 1.3 Bellevue	POPULATION CATEGORY 5,000-9,999	0.7		•	
Morehead 10 3.4 London 9 3.2 Fort Mitchell 11 2.7 Paris 12 2.6 Corbin 10 2.5 Central City 7 2.4 Shepherdsville 9 2.2 Fort Wright 6 2.1 Versailles 8 2.1 Maysville 9 2.0 Cynthiana 6 1.9 Franklin 7 1.8 Highland Heights 6 1.8 Alexandria 7 1.7 Mount Sterling 5 1.7 Dayton 5 1.7 Williamsburg 4 1.6 Leitchfield 5 1.6 Princeton 5 1.5 Lebanon 4 1.4 Monticello 4 1.3 Bellevue 4 1.2 Lawrenceburg 5 1.1 Villa Hills	Pikeville 21				
London 9 3.2 Fort Mitchell 11 2.7 Paris 12 2.6 Corbin 10 2.6 Harrodsburg 10 2.5 Central City 7 2.4 Shepherdsville 9 2.2 Fort Wright 6 2.1 Versailles 8 2.1 Maysville 9 2.0 Cynthiana 6 1.9 Franklin 7 1.8 Highland Heights 6 1.8 Alexandria 7 1.7 Mount Sterling 5 1.7 Dayton 5 1.7 Williamsburg 4 1.6 Leitchfield 5 1.6 Princeton 5 1.5 Lebanon 4 1.4 Monticello 4 1.2 Lawrenceburg 5 1.1 Villa Hills 4 0.9 Taylor Mill			4		
Fort Mitchell 11 2.7 Paris 12 2.6 Corbin 10 2.6 Harrodsburg 10 2.5 Central City 7 2.4 Shepherdsville 9 2.2 Fort Wright 6 2.1 Versailles 8 2.1 Waysville 9 2.0 Cynthiana 6 1.9 Franklin 7 1.8 Highland Heights 6 1.8 Alexandria 7 1.7 Mount Sterling 5 1.7 Mount Sterling 5 1.7 Williamsburg 4 1.6 Leitchfield 5 1.6 Princeton 5 1.5 Lebanon 4 1.4 Monticello 4 1.3 Bellevue 4 1.2 Lawrenceburg 5 1.1 Villa Hills 4 0.9 Mount Washington 4 0.9 Taylor Mill Berea 4 0.8 La Grange 2 0.7 Flatwoods 2 0.5 Elsmere 2 0.5 Elsmere 2 0.5 Elddewood 2 0.5 Elsmere 2 0.5 Eddewood 2 0.5	Morehead 10	3.4			
Paris 12 2.6 Corbin 10 2.6 Harrodsburg 10 2.5 Central City 7 2.4 Shepherdsville 9 2.2 Fort Wright 6 2.1 Versailles 8 2.1 Maysville 9 2.0 Cynthiana 6 1.9 Franklin 7 1.8 Highland Heights 6 1.8 Alexandria 7 1.7 Mount Sterling 5 1.7 Dayton 5 1.7 Williamsburg 4 1.6 Leitchfield 5 1.5 Lebanon 4 1.4 Monticello 4 1.3 Bellevue 4 1.2 Lawrenceburg 5 1.1 Villa Hills 4 1.0 Mount Washington 4 0.9 Taylor Mill 3 0.9 Berea	Eort Mitchell 11	3.2 2.7			
Corbin 10 2.6 Harrodsburg 10 2.5 Central City 7 2.4 Shepherdsville 9 2.2 Fort Wright 6 2.1 Versailles 8 2.1 Maysville 9 2.0 Cynthiana 6 1.9 Franklin 7 1.8 Highland Heights 6 1.8 Alexandria 7 1.7 Mount Sterling 5 1.7 Dayton 5 1.7 Williamsburg 4 1.6 Leitchfield 5 1.6 Princeton 5 1.5 Lebanon 4 1.3 Bellevue 4 1.2 Lawrenceburg 5 1.1 Villa Hills 4 1.0 Mount Washington 4 0.9 Taylor Mill 3 0.9 Berea 4 0.8 La Grange <td>Paris 12</td> <td>2.1 2.6</td> <td></td> <td></td> <td></td>	Paris 12	2.1 2.6			
Harrodsburg 10 2.5 Central City 7 2.4 Shepherdsville 9 2.2 Fort Wright 6 2.1 Versailles 8 2.1 Maysville 9 2.0 Cynthiana 6 1.9 Franklin 7 1.8 Highland Heights 6 1.8 Alexandria 7 1.7 Mount Sterling 5 1.7 Dayton 5 1.7 Dayton 5 1.7 Williamsburg 4 1.6 Leitchfield 5 1.6 Princeton 5 1.5 Lebanon 4 1.4 Monticello 4 1.3 Bellevue 4 1.2 Lawrenceburg 5 1.1 Villa Hills 4 1.0 Mount Washington 4 0.9 Taylor Mill 3 0.9 Berea 4 0.8 La Grange 2 0.5 Elsmere 2 0.5 Elsmere 2 0.5 Elsmere 2 0.5	Corbin 10	2.6			
Shepherdsville 9 2.2 Fort Wright 6 2.1 Versailles 8 2.1 Maysville 9 2.0 Cynthiana 6 1.9 Franklin 7 1.8 Highland Heights 6 1.8 Alexandria 7 1.7 Mount Sterling 5 1.7 Dayton 5 1.7 Williamsburg 4 1.6 Leitchfield 5 1.5 Lebanon 4 1.4 Monticello 4 1.3 Bellevue 4 1.2 Lawrenceburg 5 1.1 Villa Hills 4 1.0 Mount Washington 4 0.9 Taylor Mill 3 0.9 Berea 4 0.8 La Grange 2 0.7 Flatwoods 2 0.5 Elsmere 2 0.5 Elsmere	Harrodsburg 10	2.5			
Fort Wright 6 2.1 Versailles 8 2.1 Maysville 9 2.0 Cynthiana 6 1.9 Franklin 7 1.8 Highland Heights 6 1.8 Alexandria 7 1.7 Mount Sterling 5 1.7 Dayton 5 1.7 Williamsburg 4 1.6 Leitchfield 5 1.6 Princeton 5 1.5 Lebanon 4 1.4 Monticello 4 1.3 Bellevue 4 1.2 Lawrenceburg 5 1.1 Villa Hills 4 1.0 Mount Washington 4 0.9 Taylor Mill 3 0.9 Berea 4 0.8 La Grange 2 0.7 Flatwoods 2 0.5 Elsmere 2 0.5 Elsmere <	Central City 7	2.4			•
Versailles 8 2.1 Maysville 9 2.0 Cynthiana 6 1.9 Franklin 7 1.8 Highland Heights 6 1.8 Alexandria 7 1.7 Mount Sterling 5 1.7 Dayton 5 1.7 Williamsburg 4 1.6 Leitchfield 5 1.6 Princeton 5 1.5 Lebanon 4 1.4 Monticello 4 1.3 Bellevue 4 1.2 Lawrenceburg 5 1.1 Villa Hills 4 1.0 Mount Washington 4 0.9 Taylor Mill 3 0.9 Berea 4 0.8 La Grange 2 0.7 Flatwoods 2 0.5 Elsmere 2 0.5 Edgewood 2 0.4					
Highland Heights 6 1.8 Alexandria 7 1.7 Mount Sterling 5 1.7 Dayton 5 1.7 Williamsburg 4 1.6 Leitchfield 5 1.6 Princeton 5 1.5 Lebanon 4 1.4 Monticello 4 1.3 Bellevue 4 1.2 Lawrenceburg 5 1.1 Villa Hills 4 1.0 Mount Washington 4 0.9 Taylor Mill 3 0.9 Berea 4 0.8 La Grange 2 0.7 Flatwoods 2 0.5 Elsmere 2 0.5 Edgewood 2 0.4	Vorcailles 9	∠. I 2 1			
Highland Heights 6 1.8 Alexandria 7 1.7 Mount Sterling 5 1.7 Dayton 5 1.7 Williamsburg 4 1.6 Leitchfield 5 1.6 Princeton 5 1.5 Lebanon 4 1.4 Monticello 4 1.3 Bellevue 4 1.2 Lawrenceburg 5 1.1 Villa Hills 4 1.0 Mount Washington 4 0.9 Taylor Mill 3 0.9 Berea 4 0.8 La Grange 2 0.7 Flatwoods 2 0.5 Elsmere 2 0.5 Edgewood 2 0.4	Maysville 9	2.1 2.0			
Highland Heights 6 1.8 Alexandria 7 1.7 Mount Sterling 5 1.7 Dayton 5 1.7 Williamsburg 4 1.6 Leitchfield 5 1.6 Princeton 5 1.5 Lebanon 4 1.4 Monticello 4 1.3 Bellevue 4 1.2 Lawrenceburg 5 1.1 Villa Hills 4 1.0 Mount Washington 4 0.9 Taylor Mill 3 0.9 Berea 4 0.8 La Grange 2 0.7 Flatwoods 2 0.5 Elsmere 2 0.5 Edgewood 2 0.4	Cynthiana 6	1.9			
Highland Heights 6 1.8 Alexandria 7 1.7 Mount Sterling 5 1.7 Dayton 5 1.7 Williamsburg 4 1.6 Leitchfield 5 1.6 Princeton 5 1.5 Lebanon 4 1.4 Monticello 4 1.3 Bellevue 4 1.2 Lawrenceburg 5 1.1 Villa Hills 4 1.0 Mount Washington 4 0.9 Taylor Mill 3 0.9 Berea 4 0.8 La Grange 2 0.7 Flatwoods 2 0.5 Elsmere 2 0.5 Edgewood 2 0.4	Franklin 7	1.8			
Mount Sterling 5 1.7 Dayton 5 1.7 Williamsburg 4 1.6 Leitchfield 5 1.6 Princeton 5 1.5 Lebanon 4 1.4 Monticello 4 1.3 Bellevue 4 1.2 Lawrenceburg 5 1.1 Villa Hills 4 1.0 Mount Washington 4 0.9 Taylor Mill 3 0.9 Berea 4 0.8 La Grange 2 0.7 Flatwoods 2 0.5 Elsmere 2 0.5 Edgewood 2 0.4	Highland Heights 6	1.8			
Williamsburg 4 1.6 Leitchfield 5 1.6 Princeton 5 1.5 Lebanon 4 1.4 Monticello 4 1.3 Bellevue 4 1.2 Lawrenceburg 5 1.1 Villa Hills 4 1.0 Mount Washington 4 0.9 Taylor Mill 3 0.9 Berea 4 0.8 La Grange 2 0.7 Flatwoods 2 0.5 Elsmere 2 0.5 Edgewood 2 0.4	Alexandria 7	1.7			
Williamsburg 4 1.6 Leitchfield 5 1.6 Princeton 5 1.5 Lebanon 4 1.4 Monticello 4 1.3 Bellevue 4 1.2 Lawrenceburg 5 1.1 Villa Hills 4 1.0 Mount Washington 4 0.9 Taylor Mill 3 0.9 Berea 4 0.8 La Grange 2 0.7 Flatwoods 2 0.5 Elsmere 2 0.5 Edgewood 2 0.4	Wount Sterling 5				
Leitchfield 5 1.6 Princeton 5 1.5 Lebanon 4 1.4 Monticello 4 1.3 Bellevue 4 1.2 Lawrenceburg 5 1.1 Villa Hills 4 1.0 Mount Washington 4 0.9 Taylor Mill 3 0.9 Berea 4 0.8 La Grange 2 0.7 Flatwoods 2 0.5 Elsmere 2 0.5 Edgewood 2 0.4	Milliamshura 4				
Lebanon 4 1.4 Monticello 4 1.3 Bellevue 4 1.2 Lawrenceburg 5 1.1 Villa Hills 4 1.0 Mount Washington 4 0.9 Taylor Mill 3 0.9 Berea 4 0.8 La Grange 2 0.7 Flatwoods 2 0.5 Elsmere 2 0.5 Edgewood 2 0.4	Leitchfield 5	1.6			
Lebanon 4 1.4 Monticello 4 1.3 Bellevue 4 1.2 Lawrenceburg 5 1.1 Villa Hills 4 1.0 Mount Washington 4 0.9 Taylor Mill 3 0.9 Berea 4 0.8 La Grange 2 0.7 Flatwoods 2 0.5 Elsmere 2 0.5 Edgewood 2 0.4	Princeton 5	1.5			
Bellevue 4 1.2 Lawrenceburg 5 1.1 Villa Hills 4 1.0 Mount Washington 4 0.9 Taylor Mill 3 0.9 Berea 4 0.8 La Grange 2 0.7 Flatwoods 2 0.5 Elsmere 2 0.5 Edgewood 2 0.4	Lebanon 4	1.4			
Lawrenceburg 5 1.1 Villa Hills 4 1.0 Mount Washington 4 0.9 Taylor Mill 3 0.9 Berea 4 0.8 La Grange 2 0.7 Flatwoods 2 0.5 Elsmere 2 0.5 Edgewood 2 0.4	Monticello 4	1.3	*		
Villa Hills 4 1.0 Mount Washington 4 0.9 Taylor Mill 3 0.9 Berea 4 0.8 La Grange 2 0.7 Flatwoods 2 0.5 Elsmere 2 0.5 Edgewood 2 0.4	Bellevue 4				
Mount Washington 4 0.9 Taylor Mill 3 0.9 Berea 4 0.8 La Grange 2 0.7 Flatwoods 2 0.5 Elsmere 2 0.5 Edgewood 2 0.4					
Taylor Mill 3 0.9 Berea 4 0.8 La Grange 2 0.7 Flatwoods 2 0.5 Elsmere 2 0.5 Edgewood 2 0.4					
Berea 4 0.8 La Grange 2 0.7 Flatwoods 2 0.5 Elsmere 2 0.5 Edgewood 2 0.4		0.9 0.9			
La Grange 2 0.7 Flatwoods 2 0.5 Elsmere 2 0.5 Edgewood 2 0.4	Berea 4			*	
Flatwoods 2 0.5 Elsmere 2 0.5 Edgewood 2 0.4 Wilmore 1 0.3	La Grange 2				
Elsmere 2 0.5 Edgewood 2 0.4 Wilmore 1 0.3	Flatwoods 2	0.5			
Edgewood 2 0.4 Wilmore 1 0.3	Elsmere 2				
wilmore 1 0.3	Edgewood 2			•	
	vviimore 1	ს.3			

TABLE 49. SCHOOL BUS CRASH RATES BY COUNTY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES) (1996-2000)

	NUMBER OF	ANNUAL CRASH RATE (CRASHES	٠	NUMBER OF	ANNUAL CRASH RATE (CRASHES
COUNTY	CRASHES	PER 10,000 POP.)	COUNTY	CRASHES	PER 10,000 POP.)
Trimble Owsley Crittenden Livingston McLean Bracken Lee Wolfe Fulton Hickman Hancock Menifee Nicholas Cumberland Ballard Gallatin Carlisle Clinton Elliott Lyon Robertson	ATION CATEGORY 195999765534332222121100 CATEGORY 1151111111111111111111111111111111111	2.2 2.1 1.9 1.88 1.7 1.5 1.4 1.1 0.9 0.65 0.4 0.4 0.2 0.0	Montgomery Grant Rockcastle Bourbon Masson Clay Henry Anderson Breathitt Knott Wayne Estill Johnson Woodford Mercer Hart Harrison Rowan Adair Union McCreary Ohio Allen Grayson Marion Lawrence Russell Casey Taylor Breckinridge Lincoln Simpson POPULATI Jessamine Perry Floyd Clark Carter Letcher Schelby Franklin Muhlenberg Whitley Henderson Nelson Boyd Knox Oldham Logan Graves Bell Hopkins Calloway Harlan Barren Boyle Greenup Marshall	ON CATEGORY 15,00 39 34 24 27 210 38 23 19 212 25 22 20 16 18 14 12 13 14 10 13 9 8 7 7 10 7 9 3 ON CATEGORY OVER 858 91 10 ON CATEGORY 1555 91 680 885 802 747 155 91 680 886 60 67 60	3.09.85.4.4.4.4.2.00.09.9.86.6.6.5.5.2.1.1.0.09.9.9.88.4 9.5.1.0.7.5.5.4.3.1.1.0.9.9.9.88.4 9.5.1.0.7.5.5.4.3.1.1.0.9.9.9.8.7.7.7.5.4.3.3.2.0.8.7 9.5.1.0.7.5.4.3.1.1.0.9.9.9.8.7 9.5.1.0.7.5.5.4.3.1.1.0.9.9.9.8.7 9.5.1.0.7.5.4.3.1.1.0.9.9.9.9.8.7 9.5.1.0.7.5.5.4.3.1.1.0.9.9.9.9.8.7 9.5.1.0.7.5.5.4.3.1.1.0.9.9.9.9.8.7 9.5.1.0.7.5.5.4.3.1.1.0.9.9.9.9.8.7 9.5.1.0.7.5.5.4.3.1.1.0.9.9.9.9.8.7 9.5.1.0.7.5.5.4.3.1.1.0.9.9.9.9.8.7 9.5.1.0.7.5.5.4.3.1.1.0.9.9.9.9.8.7 9.5.1.0.7.5.5.4.3.1.1.0.9.9.9.9.8.7 9.5.1.0.7.5.5.4.3.1.1.0.9.9.9.9.8.7

TABLE 50. SCHOOL BUS CRASH RATES BY CITY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES)(1996-2000)

CITY	NUMBER OF CRASHES (1996-2000)	A CRASH (CRASHE 10,000 POPUL)	S PER	CITY	NUMBER OF CRASHES (1996-2000)	ANNUAL CRASH RATE (CRASHES PER 10,000 POPULATION)
Louisville	TION CATEGORY 509	OVER 200,000	4.0	Hazard	ILATION CATEGO	71 2,500-4,999 5.4
Lexinaton	301		2.3	Irvine	13 7	4.9
POPULA	TION CATEGORY	20.000-55.000	2.0	Columbia	ģ	4.5
Hopkinsville	69	,,	4.6	Lancaster	9 8 5 6 7	4.3
Ashland	34		3.1	Tompkinsville	5	3.8
Richmond	39		2.9	Barbourville	6	3.3
Frankfort	36		2.6	Scottsville	7	3.2
Paducah	34		2.6	Grayson	6 5 4 5 4 5 4 3 3	3.1
Bowling Green	60 27		2.4 2.3	Prestonsburg	5	2.8
Florence Covington	27 48		2.3	Flemingsburg Carrollton	4 5	2.7 2.6
Henderson	28		2.0	Williamstown	4	2.5 2.5
Elizabethtown	19		1.7	Paintsville	5	2.4
Radcliff	iš		1.7	Morganfield	4	2.3
Jeffersontown	17		1.3	Lakeside Park	3	2.1
Owensboro	34		1.3	Beaver Dam	. 3	2.0
	TION CATEGORY	10,000-19,999		Vine Grove	4	1.9
Nicholasville	48	•	4.9	Providence	3	1.7
Shively	36		4.8	Cumberland	2	1.5
Independence	30		4.0	Benton	3	1.4
Winchester	32		3.8	Ludlow	4 3 2 3 2 2	0.9
Shelbyville	17		3.4	Greenville	2	0.9
Somerset	19		3.3	Hickman	1	0.8
Mayfield	15		2.9	Springfield]	0.8
Bardstown	13		2.5	Dawson Springs]	0.7
Georgetown Madisonville	21 21		2.3 2.2	Stanton Fulton	. !	0.7
Danville	13		2.2 1.7	Park Hills	<u> </u>	0.7 0.7
Campbellsville	9		1.7	Stanford	4	0.7
Newport	13		1.5	Marion	i	0.6
Middlesboro	. 8		1.5	Southgate	i	0.6
Erlanger	12		1.4	o o uni guito	·	0.0
Murray	10		1.3			
Glasgow	8		1.2			
Saint Matthews	9		1.1			
Fort Thomas	3		0.4			
	ATION CATEGOR	Y 5,000-9,999		•		
London	20		7.0			
Mount Sterling Monticello	17 16		5.8 5.4			
Pikeville	13		5. 4 4.1	•		
Versailles	15		4.0			
Taylor Mill	13		3.8		•	
Morehead	11		3.7			
Alexandria	15		3.6			
Paris	16		3.5			
Russellville	11		3.1			
Maysville	13		2.9 2.8			
Villa Hills	11		2.8			
Cynthiana	. 8		2.6			
Harrodsburg	10 11		2.5			
Lawrenceburg	9		2.4 2.2			
Shepherdsville La Grange	6		2.2 2.1			
Wilmore	6		2.0			
Central City	6		2.0			
Williamsburg	6 5 7		1.9			
Corbin	7		1.8			
Edgewood	8		1.7			
Berea	6		1.2			
Mount Washingto	on 5 3 3		1.2			
Fort Wright	3		1.1			
Dayton	3		1.0			
Highland Heights	3		0.9			
Leitchfield	2		0.7		•	
Lebanon	2		0.7			
Bellevue	3 2 2 2 2		0.6 0.5			
Fort Mitchell	2		0.5			
<u>Franklin</u>	1		0.3			
HISTMANAGE			0.0			
Flatwoods Princeton	i		0.3			

TABLE 51. TRUCK CRASH RATES BY COUNTY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES) (1996-2000)

COUNTY	NUMBER OF CRASHES	ANNUAL CRASH RATE (CRASHES PER 10,000 POP.)	COUNTY	NUMBER OF CRASHES	ANNUAL CRASH RATE (CRASHES PER 10,000 POP
	TION CATEGORY (ON CATEGORY 15,0	
Gallatin	166	42.2 33.2	Simpson	357	43.5
Lyon Ballard	134 136	33.2	Grant	413 297	36.9 35.8
Fulton	106	32.8 27.3	Rockcastle Mason	297 299	35.8 35.6
Wolfe	77	21.8	Hart	278	31.9
Trimble Hancock	85 83	20.9 19.8	Henry Woodford	226 260	30.0 22.4
McLean	95	19.1	Bourbon	215	22.2 22.1
Bracken Livingston	71 70	17.2 16.1	Union Montgomery	173 226	22.1 20.0
Hickman	79 41	15.6	Rowan	215	19.5
Crittenden	72 36	15.3	Knott	167	18.9
Owsley Carlisle	31	14.8 11.6	Breathitt Ohio	148 207	18.4 18.1
Elliott	38	11.3	Lawrence	138	17.7
Clinton Nicholas	49 32	10.2 9.4	Mercer Adair	182 137	17.5 15.9
Lee	31	7.8	Harrison	143	15.9
Cumberland	26 23	7.3	Grayson Marion	189	15.7
Menifee Robertson	23 4	7.0 3.5	Marion Allen	135 125	14.8 14.0
POPULA [*]	TION CATEGORY 1	0,000-14,999	Anderson	134	14.0
Carroll Webster	253 237	49.8 33.6	Johnson Lincoln	143 143	12.2 12.2
Bath	135 152	24.4	Russell	94	12.2 11.5
Pendleton Caldwell	152 136	21.1	Taylor Casov	128	11.2 10.6
_arue	134	20.8 20.0	Casey Clay	82 117	9.5
_eslie	121	19.5	Breckinridae	80	8.6
_ewis Mashington	131 100	18.6 18.3	Estill Wayne	66 85	8.6 8.5
Todd	109	18.2	McCreary	69	8 1
Metcalfe Powell	89 114	17.7 17.2	POPULATION Scott	ON CATEGORY 25,0 585	00-50,000 35.4
Martin	106	16.9	Perry	449	30.6
Trigg	105	16.7	Letcher	371	29.4
Fleming Garrard	107 101	15.5 13.7	Boyd Henderson	721 621	29.0 27.7
Owen		13.3	Shelby	457	27.4
Magoffin Green	73 62	11.0 10.8	Whitley Barren	465 478	25.9 25.1
Butler	70 73 62 69 56 62	10.6	Logan	332	25.0
Spencer Jackson	56 62	9.5 9.2	Clark Hopkins	408 554	24.6 23.8
Morgan	61	8.7	Muhlenberg	357	22.4
Edmonson	50	8.6	Carter	298	22.2
Monroe ·	48	8.2	Boyle Floyd	289 425	20.9 20.0
			Jessamine	387	19.8
			Bell Marshall	· 287 280	19.1 18.6
			Graves	343	18.5
			Harlan Franklin	297 408	17.9 17.1
			Oldham	386	16.7
			Nelson	281	15.0
			Calloway Knox	204 183	11.9 11.5
			Greenup	205	11.1
			Meade POPULATION	103 ON CATEGORY OVE	7.8 33 50.000
			Boone	1.831	42.6
•			Pike	1,254	36.5
			Laurel Kenton	739 2.090	28.0 27.6
			Warren	· 1,237	26.7
			Jefferson Madison	9,058 915	26.1 25.8
			Madison Fa <u>y</u> ette	3,327	25.5
			McCracken	816	24.9
			Christian Daviess	753 935	20.8 20.4
			Campbell	86 9	19.6
			Hardin Bullitt	920 540	19.5 17.6
				. 10-61 /	1 / 11

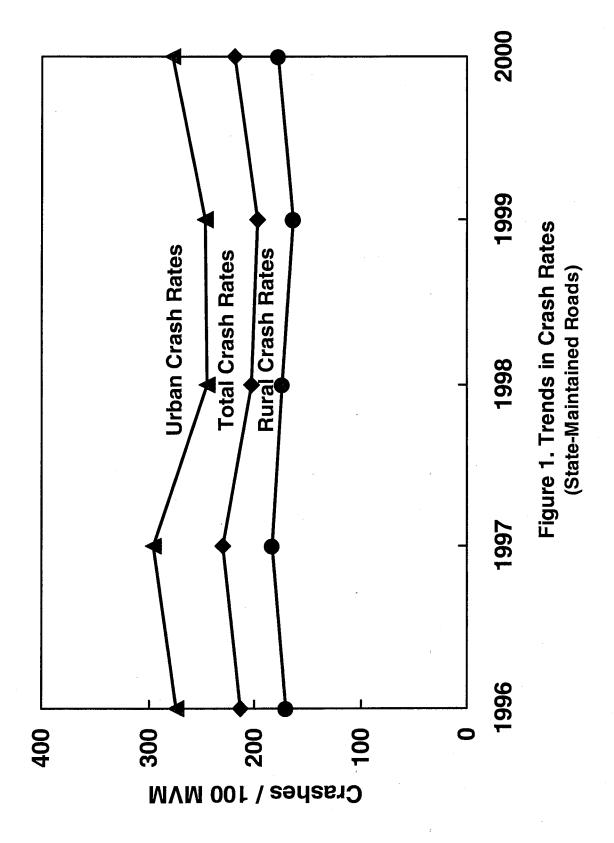
TABLE 52. MOTOR VEHICLE-TRAIN CRASH RATES BY COUNTY AND POPULATION CATEGORY
(IN ORDER OF DECREASING PERCENTAGES) (1996-2000)

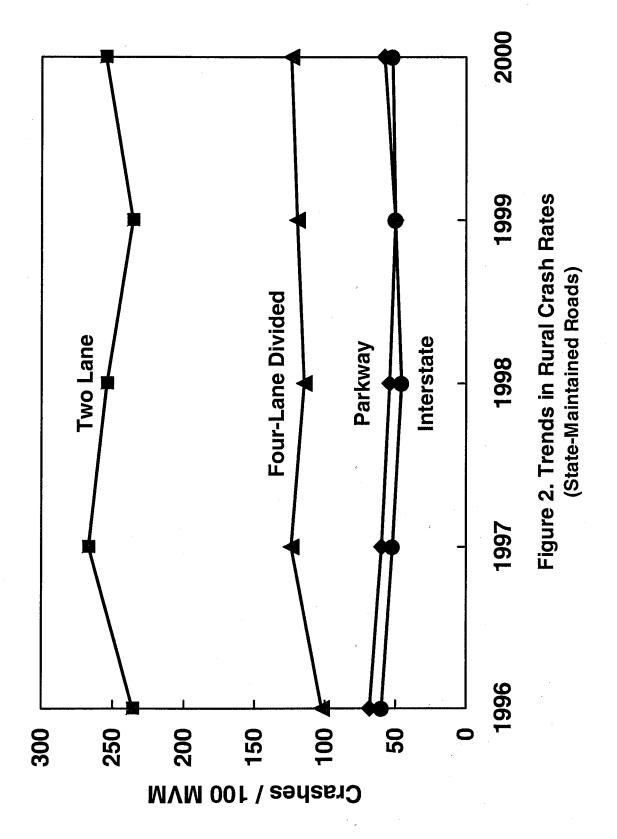
· · · · · · · · · · · · · · · · · · ·		ANNUAL CRASH RATE			ANNUAL CRASH RATE
	NUMBER OF	(CRASHES PER		NUMBER OF	(CRASHES PER
COUNTY	CRASHES	10,000 POP.)	COUNTY	CRASHES	10,000 POP.)
POPULA	TION CATEGORY UN	IDER 10,000	POPULATIO	N CATEGORY 15,00	0-24,999 (cont.)
.ee	3	0.76	Anderson	2	0.21
lickman	1	0.38	Ohio	2	0.17
ulton	1	0.26	Woodford	2	0.17
_yon	1	0.25	Breathitt	1	0.12
Bracken	1	0.24	Casey	o O	0.00
lancock	1	0.24	Union	. 0	0.00
Robertson	Ö	0.00	Russell	0	0.00
Dwsley	0	0.00	Adair	0	0.00
Dwsiey Carlisle	0		Allen	0	
		0.00			0.00
/lenifee	0	0.00	Harrison	0	0.00
Elliott	0	0.00	Marion	0	0.00
vicholas	0	0.00	Breckinridge	0	0.00
Volfe	0	0.00	Bourbon	0	0.00
Cumberland	0	0.00	Wayne	0	0.00
Gallatin	0	0.00	Rowan	0	0.00
rimble	0	0.00	Montgomery	0	0.00
Ballard	0	0.00	Taylor	0	0.00
Crittenden	0	0.00	Clay	0	0.00
Clinton	0	0.00		TION CATEGORY 25	
ivingston	0	0.00	Hopkins	13	0.56
McLean	Ö	0.00	Muhlenberg	7	0.44
	TION CATEGORY 10		Oldham	10	0.43
odd	7	1.17	Perry	6	0.41
.ewis	8		-	6	0.40
		1.14	Bell		
Vebster	2	0.28	Letcher	5	0.40
Pendleton	2	0.28	Floyd	7	0.33
Carroll	1	0.20	Scott	5	0.30
∕letcalfe	0	0.00	Whitley	. 5	0.28
Owen	0	0.00	Nelson	, 5	0.27
Nashington	0	0.00	Knox	4	0.25
Bath	. 0	0.00	Boyd	6	0.24
Breen	0	0.00	Shelby	4	0.24
Edmonson	0	0.00	Barren	4	0.21
Monroe	0	0.00	Henderson	4	0.18
Spencer	0	0.00	Marshall	2	0.13
eslie.	0	0.00	Clark	· 1	0.06
Martin	0	0.00	Harlan	1	0.06
Frigg	0	0.00	Calloway	1	0.06
Butler	0	0.00	Greenup	1	0.05
Caldwell	ő	0.00	Graves	1	0.05
Powell	0	0.00	Meade	Ö	0.00
•	0			0	0.00
/lagoffin	-	0.00	Logan Carter	-	0.00
arue	0	0.00		0	
lackson	0	0.00	Boyle	, 0	0.00
leming	0	0.00	Jessamine	0	0.00
/lorgan	0	0.00	Franklin	0	0.00
Barrard	0	0.00		TION CATEGORY 50	•
POPULAT	TION CATEGORY 15,	000 - 24,999	McCracken	7	0.21
arant	12	1.07	Pike	7	0.20
lockcastle	4	0.48	Jefferson	66	0.19
1cCreary	4	0.47	Pulaski	5	0.18
lart	4	0.46	Madison	6	0.17
lenry	3	0.40	Christian	6	0.17
awrence	3	0.39	Bullitt	5	0.16
	3	0.37	Daviess	5	0.11
impson					
lason	3	0.36	Hardin	5	0.11
incoln	4	0.34	Boone	4	0.09
/lercer	3	0.29	Kenton	6	0.08
still	2	0.26	Laurel	· 2	0.08
ohnson	3	0.26	Fayette	9	0.07
Grayson	3	0.25	Campbell	3	0.07
Cnott	. 2	0.23	Warren	3	0.06

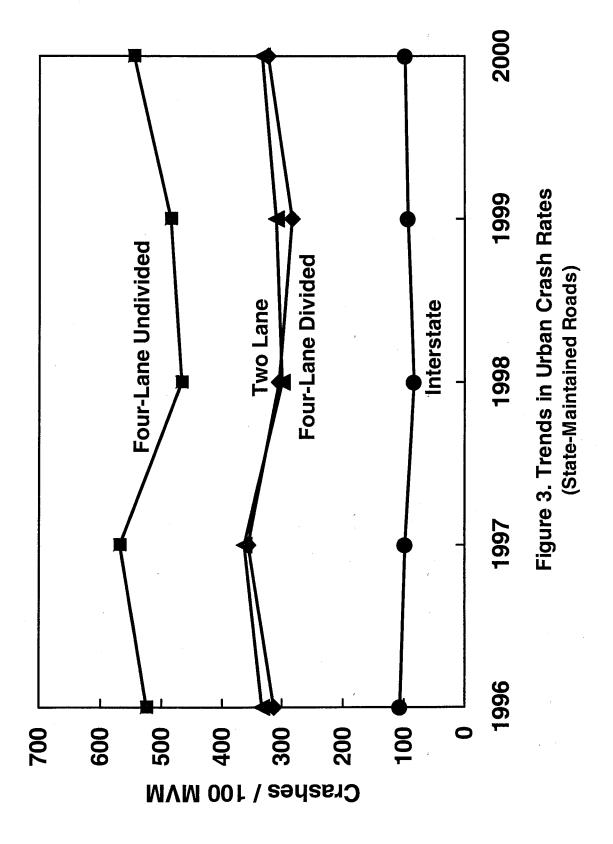
TABLE 53. CRASHES INVOLVING VEHICLE DEFECT BEFORE AND AFTER REPEAL OF VEHICLE INSPECTION LAW

OF VEHICLE INSPECTION	LAV		
		NUMBER OF	PERCENT OF
		CRASHES	ALL CRASHES
	TOTAL NUMBER	INVOLVING	INVOLVING
TIME PERIOD	OF CRASHES*	VEHICLE DEFECTS	VEHICLE DEFECTS
October 1976 - May 1978 (20 Months Before Repeal of Law)	246,500	14,440	5.86
June 1978 - December 1979 (19 Months After Repeal of Law)	233,155	16,527	7.09
1980-1984	624,861	46,397	7.43
1900-1904	024,001	40,097	7.40
1985-1989	701,119	46,552	6.64
1000 1004	000 504	· 40 000	0.00
1990-1994	663,504	40,393	6.09
1995-1999	638,623	33,655	5.27
2000	101 007	£ 404	4.95
2000	131,027	6,481	4.95
		•	

^{*} Does not include crashes in which the vehicle defect code was unknown.







APPENDIX A

STATEWIDE CRASH RATES AS A FUNCTION OF SEVERAL VARIABLES

Highways are grouped into various system classifications. Three common types of groupings include: 1) functional classification, 2) federal-aid system, and 3) administrative classification. Statewide crash rates were determined for each of those groupings. The following is a summary of the findings.

Average statewide rates by functional classification are listed in Table A-1. Highways are grouped into a rural or urban category and then into systems such as arterial, collector, and local. Rates are determined considering all crashes, injury crashes only, and fatal crashes only. The highest overall crash rates are for urban principal arterials (non-interstate or freeway) followed by minor arterials. The lowest overall rates are for rural principal arterials (interstate) followed by urban principal arterials (interstate and other freeway). Rural principal arterials (non-interstate) also have a low total crash rate. Injury crash rates for the various categories are ordered similar to overall crash rates. However, the ordering for the fatal crash rates are very different. The highest fatal crash rates aere for rural collectors and minor arterials. Urban principal arterials (interstate and other freeway) have the lowest fatal crash rate with several other urban classifications, as well as rural interstates, also having a low fatat crash rate.

Statewide crash rates by federal-aid system are shown in Table A-2. The highest rate is for the federal-aid urban system and the lowest rate is for the interstate system. The federal-aid primary (non-interstate), federal-aid secondary (rural), and non-federal-aid systems have relatively similar rates.

Statewide crash rates by administrative classification are listed in Table A-3. The rate for the primary system is lowest with the rate for the secondary system highest. Rates for the rural secondary and unclassified systems are between these two levels and are almost identical.

The benefits of providing a median and increasing the median width are shown in Table A-4. The crash rate for rural highways having four or more lanes that are divided and have a median width of less than 30 feet is less than that for an undivided highway. The crash rate is decreased significantly more when comparing a highway which is divided with a median width of more than 30 feet to a highway having a median width of less than 30 feet.

The effect of access control is described in Table A-5. The large reduction in the crash rate for highways having full control of access compared to those with partial or no access control is shown. However, the crash rate for partial control of access is closer to no access control than to full access control.

An analysis of crash rates for rural highways by federal-aid system and terrain is presented in Table A-6. Each county was given a terrain classification as either flat, rolling, or mountainous since a classification was not available for each road segment.

Considering the entire system, the rates for flat and rolling terrains are similar with the rate for mountainous terrain substantially higher.

Rates by rural-urban designation are shown in Table A-7. The lowest rate is for rural areas. The rate for small urban areas is almost identical to that for urbanized areas, although the average traffic volume is much higher in urbanized areas. The presence of more freeway-type highways in the urbanized areas may account for this finding.

The summary of crash rates by route signing identifier reveals that US-signed routes have a rate similar to that for state-marked routes, with interstates having a much lower rate (Table A-8). Although the geometric features on the US-signed routes would be expected to be superior than on state-marked routes, the US-signed routes have a higher average volume which may partially account for the similar crash rate.

The relationship between crash rate and traffic volume (average annual daily traffic) for various federal-aid highway classifications is illustrated in Table A-9. For interstates, which have high design criteria, the crash rate is fairly constant up until the volume range of over 40,000 vehicles per day where an increase occurred. For each of the other highway classifications, the highest rate is for the lowest volume category (AADT under 1,000). One reason for a high rate at low-volume locations is the fact that a few crashes may increase the rate substantially. Lower volume roads also are constructed to less stringent design guidelines, which could contribute to a higher crash rate.

The percentage of crashes occurring during wet or snow or icy pavement conditions or during darkness by rural or urban highway type classification is given in Table A-10. The overall percentage of crashes occurring during wet pavement conditions is 23 percent on both rural and urban roadways. There are large variations in the percentage of crashes occurring on the various highway types during snow or icy conditions. This percentage would change by year depending on the amount of snowfall any given year. The percentage on rural roads (5.3 percent) is substantially higher than that on urban roads (3.2 percent). The highest percentages are on interstates and parkways with the highest being about 10 percent. There are also large variations in the percentage of crashes occurring during darkness. The percentage is higher on rural roads (31 percent) than urban roads (23 percent). The highest percentages are on rural interstates and parkways with the highest being 43 percent. This would be expected given the amount of nighttime driving on these types of roadways.

TABLE A-1. STATEWIDE CRASH RATES BY FUNCTIONAL CLASSIFICATION (1996-2000)

		AVERAGE		CF	RASH RATES	
	FUNCTIONAL	TOTAL	AVERAGE	(CRASHI	ES PER 100 M	VM)
LOCATION	CLASSIFICATION	MILEAGE	AADT	ALL	INJURY	FATAL
Rural	Principal Arterial, Interstate	526	29,619	51	14	0.7
	Principal Arterial, Other Freeway	2,059	8,061	128	42	1.7
	Minor Arterial	1,609	4,182	243	78	2.6
	Major Collector	6,945	2,181	269	93	3.1
	Minor Collector	9,443	724	273	102	3.6
	Local System	4,503	507	208	72	2.1
Urban	Principal Arterial, Interstate	226	67,123	96	23	0.4
	Principal Arterial, Other Freeway	94	24,047	109	25	0.5
	Other Principal Arterial	651	19,194	438	111	0.9
	Minor Arterial	1,044	9,616	375	96	1.0
	Collector	697	3,957	233	. 62	1.0
	Local System	116	2,131	227	55	0.9

TABLE A-2. STATEWIDE CRASH RATES BY FEDERAL-AID SYSTEM (1996-2000)

AVERAGE								
FEDERAL-AID	TOTAL.	TOTAL	AVERAGE	CRASH RATES				
SYSTEM	CRASHES	MILEAGE	AADT	(CRASHES PER 100 MVM)				
Interstate	41,287	753	40,882	73				
Federal-Aid Primary (other than Interstate)	132,669	3,986	8,296	220				
Federal-Aid Urban	114,935	1,922	8,880	369				
Federal-Aid Secondary (Rural Only)	79,649	7,122	2,285	268				
Non-Federal Aid	34,573	9,522	733	271				

TABLE A-3. STATEWIDE CRASH RATES BY ADMINISTRATIVE CLASSIFICATION (1996-2000)

ADMINISTRATIVE	TOTAL	AVERAGE TOTAL	AVERAGE	CRASH RATES
CLASSIFICATION	CRASHES	MILEAGE	AADT	(CRASHES PER 100 MVM)
				1
Primary	203,588	4,653	13,897	173
Secondary	167,413	6,736	4,089	333
Rural Secondary	48,706	12,159	779	282
Jnclassified	8,303	2,264	730	275

TABLE A-4. STATEWIDE CRASH RATES BY MEDIAN TYPE (RURAL ROADS WITH FOUR OR MORE LANES (1996-2000))

		AVERAGE		
MEDIAN TYPE	TOTAL CRASHES	TOTAL MILEAGE	AVERAGE AADT	CRASH RATES (CRASHES PER 100 MVM)
Undivided	3,512	68	17,314	163
Divided, Median Less Than 30 Feet, No Barrier	4,145	200	11,062	103
Divided, Median Greater Than 30 Feet, No Barrier	22,005	1,306	17,777	52

TABLE A-5. STATEWIDE CRASH RATES BY ACCESS CONTROL (1996-2000)

ACCESS CONTROL	TOTAL CRASHES	AVERAGE TOTAL MILEAGE	AVERAGE AADT	CRASH RATES (CRASHES PER 100 MVM)
Full Control	51,296	1,445	26,425	74
Partial Control	28,274	790	8,918	220
No Control	330,407	25,353	2,339	305

TABLE A-6. STATEWIDE CRASH RATES FOR RURAL HIGHWAYS BY FEDERAL-AID SYSTEM AND TERRAIN (1996-2000)

	CRASH RATES BY (CRA			
FEDERAL-AID SYSTEM	FLAT	ROLLING	MOÚNTAINOUS	
Interstate	58	58	51	
Federal-Aid Primary	166	156	454	
Federal-Aid Secondary	220	227	316 '	
Non Federal-Aid	221	277	277	
All	204	172	340	

TABLE A-7. STATEWIDE CRASH RATES BY RURAL-URBAN DESIGNATION (1996-2000)

AREA TYPE	TOTAL CRASHES	AVERAGE TOTAL MILEAGE	AVERAGE AADT	CRASH RATES (CRASHES PER 100 MVM)
Rural	199,572	24,193	2,593	174
Small Urban Area	68,477	1,177	10,561	302
Urbanized Area	140,627	1,276	21,896	276

TABLE A-8. STATEWIDE CRASH RATES BY ROUTE SIGNING IDENTIFIER (1996-2000)

ROUTE SIGNING IDENTIFIER	TOTAL CRASHES	AVERAGE TOTAL MILEAGE	AVERAGE AADT	CRASH RATES (CRASHES PER 100 MVM)
Interstate	41,287	753	40,882	73
US	156,969	3,545	7,839	310
State	210,866	22,138	1,983	263

TABLE A-9. RELATIONSHIP BETWEEN CRASH RATE AND TRAFFIC VOLUME (1996-2000)

		(CRASHES PER 10	O MVM)	
	FEDERAL-AID	FEDERAL-AID	FEDERAL-AID	NON-FEDERAL
RSTATE	PRIMARY	URBAN	SECONDARY	AID
*	635	869	358	286
*	278	341	258	252
*	237	383	276	297
63	154	281	244	233
60	179	351	249	98
51	318	441	360	*
59	479	443	*	*
78	225	373	*	*
	* 63 60 51 59	* 635 * 278 * 237 63 154 60 179 51 318 59 479	* 635 869 * 278 341 * 237 383 63 154 281 60 179 351 51 318 441 59 479 443	* 635 869 358 * 278 341 258 * 237 383 276 63 154 281 244 60 179 351 249 51 318 441 360 59 479 443 *

^{*} No data in this volume range.

TABLE A-10. PERCENTAGE OF CRASHES OCCURING DURING WET OR SNOW OR ICE PAVEMENT CONDITIONS OR DURING DARKNESS BY RURAL AND URBAN HIGHWAY TYPE CLASSIFICATION (1996-2000)

		PERCENT OF ALL CRASHES				
LOCATION	HIGHWAY TYPE	WET	SNOW OR ICE	DARKNESS		
Rural	One-Lane	16	0.9	22		
	Two-Lane	23	4.9	30		
	Three-Lane	18	2.6	24		
	Four-Lane Divided (Non-Interstate or Parkway)	20	3.9	27		
	Four-Lane Undivided	20	2.5	21		
	Interstate	19	10.5	40		
	Parkway	22	9.1	43		
	All Rural	23	5.3	31		
Urban	Two-Lane	24	3.1	22		
	Three-Lane	25	2.5	24		
	Four-Lane Divided (Non-Interstate or Parkway)	21	2.4	21		
	Four-Lane Undivided	22	1.8	19		
	Interstate	22	7.4	34		
	Parkway	19	9.3	31		
	All Urban	23	3.2	23		

APPENDIX B

CRASH DATA FOR THREE-YEAR PERIOD (1998-2000)

TABLE B-1. STATEWIDE RURAL CRASH RATES BY HIGHWAY TYPE CLASSIFICATION (1998-2000)

	TOTAL		CRASHES RATES (CRASHES PER 100 MVM)		
HIGHWAY TYPE	MILEAGE*	AADT	ALL	INJURY	FATAL
One-Lane	69	880	123	39	1.5
Two-Lane	23,376	1,580	248	85	3.0
Three-Lane	33	5,250	202	60	2.1
Four-Lane Divided (Non-Interstate or Par	508 kway)	11,430	120	39	1.3
Four-Lane Undivided	48	15,290	269	66	1.5
Interstate	527	31,090	49	12	0.6
Parkway	566	9,240	55	15	0.7
All	25,127	2,600	171	57	2.0

^{*} Average for the three years.

TABLE B-2. STATEWIDE URBAN CRASH RATES BY HIGHWAY TYPE CLASSIFICATION (1998-2000)

HIGHWAY TYPE	TOTAL		CRASHES RATES (CRASHES PER 100 MVM)			
	MILEAGE*	AADT	ALL	INJURY	FATAL	
Two-Lane	1,851	6,960	306	78	0.9	
Three-Lane	33	12,260	487	103	1.4	
Four-Lane Divided (Non-Interstate or Par	379 kway)	23,860	313	80	0.9	
Four-Lane Undivided	267	19,210	501	122	1.0	
Interstate	233	68,000	92	21	0.4	
Parkway	51	12,210	100	24 .	1.0	
AII **	2,840	15,780	257	64	0.7	

^{*} Average for the three years.

^{**} Includes small number of one-, five-, and six-lane highways.

TABLE B-3. STATEWIDE CRASH RATES FOR "SPOTS" BY HIGHWAY TYPE CLASSIFICATION (1998-2000)

RURAL OR URBAN	HIGHWAY TYPE	NUMBER OF CRASHES	NUMBER OF SPOTS*	MILLION VEHICLES PER YEAR	CRASHES PER MILLION VEHICLES PER SPOT
Rural	One-Lane Two-Lane Three-Lane Four-Lane Divided (Non-Interstate or Parkway) Four-Lane Undivided Interstate	2,162 8,811	229 77,921 109 1,692 160 1,757	0.32 0.58 1.92 4.17 5.58 11.35	0.37 0.75 0.60 0.36 0.81 0.15
	Parkway All Rural	3,148 122,639	1,887 83,757	3.37 0.95	0.16 0.51
Urban	Two-Lane Three-Lane Four-Lane Divided Four-Lane Undivided Interstate Parkway All Urban**	43,197 2,125 31,014 28,130 15,933 682 126,025	6,170 108 1,264 889 776 171 9,468	2.54 4.48 8.71 7.01 24.82 4.46 5.76	0.92 1.46 0.94 1.50 0.28 0.30 0.77

^{*} Average for the three years. The length of a spot is defined to be 0.3 mile. ** Includes small number of miles of one-, five-, and six-lane highways.

TABLE B-4. STATEWIDE AVERAGE AND CRITICAL NUMBERS OF CRASHES FOR "SPOTS" AND ONE-MILE SECTIONS BY HIGHWAY TYPE CLASSIFICATION (1998-2000)

RURAL		CRASHES P	ER SPOT*	CRASHE ONE MILE	S PER SECTION
OR URBAN	HIGHWAY TYPE	AVERAGE	CRITICAL NUMBER	AVERAGE	CRITICAL NUMBER
Rural	One-Lane Two-Lane Three-Lane Four-Lane Divided (Non-Interstate or Parkway) Four-Lane Undivided Interstate Parkway	0.35 1.29 3.48 4.50 13.51 5.02 1.67	2 5 9 10 23 11 5	1.18 4.30 11.60 14.98 45.04 16.72 5.56	4 10 21 25 63 28 12
Urban	All Rural Two-Lane Three-Lane Four-Lane Divided Four-Lane Undivided Interstate Parkway All Urban**	7.00 19.61 24.54 31.63 20.53 4.00 13.31	5 14 32 38 47 33 10 23	4.88 23.34 65.35 81.80 105.45 68.44 13.33 44.37	11 36 87 106 132 90 23 62

^{*} The length of a spot is defined to be 0.3 mile.
** Includes small number of miles of one-, five-, and six-lane highways.

TABLE B-5. STATEWIDE CRASH RATES FOR 0.1 MILE "SPOTS" BY HIGHWAY TYPE CLASSIFICATION (1998-2000)

RURAL OR URBAN	HIGHWAY TYPE	NUMBER OF CRASHES	NUMBER OF SPOTS*	MILLION VEHICLES PER YEAR	CRASHES PER MILLION VEHICLES PER SPOT
Rural	One-Lane Two-Lane Three-Lane Four-Lane Divided (Non-Interstate or Parkway) Four-Lane Undivided Interstate Parkway All Rural	81 100,451 379 7,607 2,162 8,811 3,148 122,639	687 233,763 327 5,077 480 5,270 5,660 251,270	0.32 0.58 1.92 4.17 5.58 11.35 3.37 0.95	0.12 0.25 0.20 0.12 0.27 0.05 0.05 0.17
Urban	Two-Lane Three-Lane Four-Lane Divided Four-Lane Undivided Interstate Parkway All Urban**	43,197 2,125 31,014 28,130 15,933 682 126,025	18,509 325 3,792 2,668 2,328 512 28,404	2.54 4.48 8.71 7.01 24.82 4.46 5.76	0.31 0.49 0.31 0.50 0.09 0.10 0.26

TABLE B-6. STATEWIDE AVERAGE AND CRITICAL NUMBERS OF CRASHES FOR 0.1 MILE "SPOTS" AND ONE-MILE SECTIONS BY HIGHWAY TYPE CLASSIFICATION (1998-2000)

RURAL		CRASHES F	ER SPOT*	CRASHI ONE MILE	S PER SECTION
OR URBAN	HIGHWAY TYPE	AVERAGE	CRITICAL NUMBER	AVERAGE	CRITICAL NUMBER
Rural	One-Lane Two-Lane Three-Lane Four-Lane Divided (Non-Interstate or Parkway) Four-Lane Undivided Interstate Parkway All Rural	0.12 0.43 1.16 1.50 4.50 1.67 0.56 0.49	2 3 4 5 10 6 3 3	1.18 4.30 11.60 14.98 45.04 16.72 5.56 4.88	4 10 21 25 63 28 12 11
Urban	Two-Lane Three-Lane Four-Lane Divided Four-Lane Undivided Interstate Parkway All Urban**	2.33 6.54 8.18 10.54 6.84 1.33 4.44	7 14 16 19 14 5	23.34 65.35 81.80 105.45 68.44 13.33 44.37	36 87 106 132 90 23 62

^{*} Average for the three years. The length of a spot is defined to be 0.1 mile. ** Includes small number of miles of one-, five-, and six-lane highways.

^{*} The length of a spot is defined to be 0.1 mile.
** Includes small number of miles of one-, five-, and six-lane highways.

TABLE B-7. CRITICAL CRASH RATES FOR 0.1 MILE "SPOTS" ON RURAL ONE-LANE, TWO-LANE AND THREE-LANE HIGHWAYS (THREE-YEAR PERIOD)(1998-2000)

	~ `		<u> </u>						
	CRITICAL CI	RASH RATE (C/M)	V)						
	BY HIGHWAY TYPE								
AADT	ONE-LANE	TWO-LANE	THREE-LANE						
100	7.38	8.71	8.25						
500	2.24	2.90	2.67						
1,000	1.43	1.94	1.76						
2,500	0.84	1.21	1.08						
5,000	0.59	0.89	0.78						
7,500	0.49	0.76	0.66						
10,000	0.44	0.68	0.59						
15,000	0.37	0.60	0.51						
20,000	0.33	0.55	0.47						

TABLE B-8. CRITICAL CRASH RATES FOR 0.1 MILE "SPOTS" ON RURAL FOUR-LANE HIGHWAYS, INTERSTATES, AND PARKWAYS (THREE-YEAR PERIOD)(1998-2000)

	CRITICAL CRASH RATE (C/MV)									
	BY HI	GHWAY TYPE								
,	FOUR-LANE DIVIDED									
	(NON-INTERSTATE	FOUR-LANE								
AADT	AND PARKWAY)	UNDIVIDED	INTERSTATE	PARKWAY						
500	2.24	2.99	1.74	1.74						
1,000	1.43	2.01	1.06	1.06						
2,500	0.84	1.26	0.58	0.58						
5,000	0.59	0.93	0.39	0.39						
10,000	0.44	0.72	0.27	0.27						
15,000	0.37	0.63	0.22	0.22						
20,000	0.33	0.58	0.20	0.20						
30,000	0.29	0.52	0.17	0.17						
40,000	0.27	0.48	0.15	0.15						
50,000	0.25	0.46	0.14	0.14						

TABLE B-9. CRITICAL CRASH RATES FOR 0.1 MILE "SPOTS" ON URBAN TWO-LANE AND THREE-LANE HIGHWAYS (THREE-YEAR PERIOD)(1998-2000)

	CRITICAL CRASH RATE (C/MV)									
BY HIGHWAY TYPE										
AADT	TWO-LANE	THREE-LANE								
500	3.16	3.84								
1,000	2.14	2.67								
2,500	1.36	1.76								
5,000	<u> 1.01</u>	1.35								
7,500	0.87	1.18	•							
10,000	0.79	1.08								
15,000	0.69	0.97								
20,000	0.64	0.90								
30,000	0.58	0.82								
40,000	0.54	0.77								

TABLE B-10. CRITICAL CRASH RATES FOR 0.1 MILE "SPOTS" ON URBAN FOUR-LANE HIGHWAYS, INTERSTATES, AND PARKWAYS (THREE-YEAR PERIOD)(1998-2000)

	CRITICAL CRASH RATE (C/MV) BY HIGHWAY TYPE								
	FOUR-LANE DIVIDED	GIIVVIII E							
AADT	(NON-INTERSTATE	FOUR-LANE	NITTOOTATE	DADIZIAIAN					
AADT	AND PARKWAY)	UNDIVIDED	INTERSTATE	PARKWAY					
1,000 5,000 10,000 15,000 20,000 30,000 40,000 50,000 70,000 80,000 90,000	2.14 1.01 0.79 0.69 0.64 0.58 0.54 0.51 0.49 0.48 0.47 0.46 0.45	2.70 1.37 1.10 0.98 0.91 0.83 0.79 0.76 0.73 0.71 0.70 0.69 0.68	1.29 0.51 0.37 0.31 0.28 0.24 0.22 0.20 0.19 0.18 0.18 0.17	1.34 0.54 0.39 0.33 0.30 0.26 0.23 0.22 0.21 0.20 0.19 0.19 0.18					

$\label{eq:appendix} \mbox{\ensuremath{\mathsf{C}}} \mbox{\ensuremath{\mathsf{C}}} \mbox{\ensuremath{\mathsf{E}}} \mbox{\ensuremath{\mathsf{E}}}$

TABLE C-1. CRITICAL NUMBERS OF CRASH RATES ON RURAL HIGHWAYS BY HIGHWAY TYPE AND SECTION LENGTH (1996-2000)

			L NUMBERS (
HIGHWAY TYPE	0.4	1	2	5	10	15	20
One-Lane	4	7	11	21	37	52	66
Two-Lane	8	15	25	52	95	136	176
Three-Lane	18	37	67	150	282	412	541
Four-Lane Divided (Non-Interstate and Park	18 way)	37	66	149	281	410	538
Four-Lane Undivided	42	91	168	392	756	1,115	1,472
Interstate	20	42	75	170	322	471	618
Parkway	9	18	31	65	120	172	224

TABLE C-2. CRITICAL NUMBERS OF CRASH RATES ON URBAN HIGHWAYS BY HIGHWAY TYPE AND SECTION LENGTH (1996-2000)

			L NUMBERS (
HIGHWAY TYPE	0.4	1	2	5	8	10
Two-Lane	27	58	105	241	373	461
Three-Lane (Non-Interstate and Park	64 way)	144	270 .	639	1,002	1,242
Four-Lane Divided	75	169	320	759	1,192	1,479
Four-Lane Undivided	95	217	413	986	1,552	1,927
Interstate	64	143	269	637	998	1,236
Parkway	17	35	63	140	215	264

APPENDIX D

CRITICAL CRASH RATE TABLES FOR HIGHWAY SECTIONS

TABLE D-1. CRITICAL CRASH RATES FOR RURAL ONE-LANE SECTIONS (FIVE-YEAR PERIOD)(1996-2000)

	CF	RITICAL CRASI GIVEN SE	H RATE (C/100 CTION LENG	•	HE
AADT	0.5	1	2	5	10
100	1,695	1,126	781	513	392
200	1,126	781	564	392	313
300	904	642	476	342	279
400	781	564	426	313	259
500	700	513	392	293	246
700	599	448	350	268	229
1,000	513	392	313	246	214
1,500	436	342	279	226	200
2,000	392	313	259	214	191
2,500	363	293	246	206	186
3,000	342	279	236	200	182

TABLE D-2. CRITICAL CRASH RATES FOR RURAL TWO-LANE SECTIONS (FIVE-YEAR PERIOD)(1996-2000)

	CF	CRITICAL CRASH RATE (C/100 MVM) FOR THE GIVEN SECTION LENGTH (MILES)						
AADT	0.5	1	2	5	10	20		
100	2,144	1,476	1,060	730	578	476		
300	1,210	891	684	514	433	377		
500	962	730	578	451	390	347		
1,000	730	578	476	390	347	318		
1,500	634	514	433	363	329	305		
2,000	578	476	407	347	318	298		
3,000	514	433	377	329	305	289		
4,000	476	407	359	318	298	284		
5,000	451	390	347	311	293	280		
7,000	418	367	332	301	286	275		
8,000	407	359	327	298	284	273		
9,000	398	353	322	295	282	272		
10,000	390	347	318	293	280	271		

TABLE D-3. CRITICAL CRASH RATES FOR RURAL THREE-LANE SECTIONS (FIVE-YEAR PERIOD)(1996-2000)

	CRITICAL CRASH RATE (C/100 MVM) FOR THE GIVEN SECTION LENGTH (MILES)							
AADT	0.5	1	2	3	5			
100	2,154	1,484	1,066	896	735			
300	1,217	896	689	602	518			
500	967	735	582	518	455			
1,000	735	582	480	436	393			
1,500	638	518	436	401	366			
2,000	582	480	410	380	351			
3,000	518	436	380	356	332			
4,000	480	410	363	342	321			
5,000	455	393	351 °	332	314			
6,000	436	380	342	325	308			
7,000	422	371	335	320	304			
8,000	410	363	330	315	301			
9,000	401	356	325	311 👍	298			
10,000	393	351	321	308	296			

TABLE D-4. CRITICAL CRASH RATES FOR RURAL FOUR-LANE DIVIDED SECTIONS (NON-INTERSTATE AND PARKWAY) (FIVE-YEAR PERIOD)(1996-2000)

	CRITICAL CRASH RATE (C/100 MVM) FOR THE GIVEN SECTION LENGTH (MILES)							
AADT	0.5	1	2	5	10			
500	640	464	351	259	215			
1,000	464	351	277	215	185			
2,500	324	259	215	178	160			
5,000	259	215	185	160	147			
7,500	231	196	173	152	142			
10,000	215	185	165	147	138			
15,000	. 196	173	156	142	134			
20,000	185	165	151	138	132			
30,000	173	156	144	134	129			
40,000	165	151	141	132	128			
50,000	160	147	138	131	127			

TABLE D-5. CRITICAL CRASH RATES FOR RURAL FOUR-LANE UNDIVIDED SECTIONS (FIVE-YEAR PERIOD)(1996-2000)

AADT	CR		HRATE (C/100 CTION LENG	•	HE
	0.5	1	2	5	10
500	956	726	574	448	387
1,000	726	574	473	387	345
2,500	537	448	387	334	308
5,000	448	387	345	308	290
7,500	409	360	326	297	282
10,000	387	345	315	290	277
20,000	345	315	295	277	268
30,000	326	.303	286	272	264
40,000	315	295	281	268	262
50,000	308	290	277	266	261

TABLE D-6. CRITICAL CRASH RATES FOR RURAL INTERSTATE SECTIONS (FIVE-YEAR PERIOD)(1996-2000)

	CRITICAL CRASH RATE (C/1.00 MVM) FOR THE GIVEN SECTION LENGTH (MILES)						
AADT	0.5	1	2	5	10	20	
500	435	300	216	149	118	98	
1,000	300	216	162	118 .	98	83	
2,500	196	149	118	92	80	71	
5,000	149	118	98	80	71	65	
7,500	129	105	89	75	68	63	
10,000	118	98	83	71	65	61	
20,000	98	83	74	65	61	58	
30,000	89	77	70	63	59	57	
40,000	83	74	67	61	58	56	
50,000	80	71	65	60	58	56	

TABLE D-7. CRITICAL CRASH RATES FOR RURAL PARKWAY SECTIONS (FIVE-YEAR PERIOD)(1996-2000)

	CRITICAL CRASH RATE (C/100 MVM) FOR THE GIVEN SECTION LENGTH (MILES)						
		GIVENSE					
AADT	0.5	1	2	5	10	20	
400	521	357	255	175	138	113	
700	383	271	201	144	117	99	
1,000	319	231	175	129	107	92	
1,500	263	195	151	115	98	86	
2,000	231	175	138	107	92	82	
3,000	195	151	122	98	86	78	
4,000	175	138	113	92	82	75	
5,000	161	129	107	88	79	73	
7,000	144	117	99	84	76	71	
10,000	129	107	92	79	73	69	
20,000	107	92	82	73	69	66	
40,000	92	82	75	69	66	63	

TABLE D-8. CRITICAL CRASH RATES FOR URBAN TWO-LANE SECTIONS (FIVE-YEAR PERIOD)(1996-2000)

	CRITICAL CRASH RATE (C/100 MVM) FOR THE						
	*******	GIVEN SE	CTION LENG	TH (MILES)	···		
AADT	0.5	1	22	5	10		
500	1,118	862	693	550	481		
1,000	862	693	579 [*]	481	434		
2,500	651	550	481	422	392		
5,000	550	481	434	392	372		
7,500	507	452	413	379	363		
10,000	481	434	401	372	357		
15,000	452	413	386	363	351		
20,000	434	401	378	357	347		
30,000	413	386	367	351	343		
40,000	401	378	361	347	340		
50,000	392	372	357	345	338		

TABLE D-9. CRITICAL CRASH RATES FOR URBAN THREE-LANE SECTIONS (FIVE-YEAR PERIOD)(1996-2000)

·	CRITICAL CRASH RATE (C/100 MVM) FOR THE GIVEN SECTION LENGTH (MILES)							
AADT	0.5	1	2	5 .	10			
500	1,479	1,172	967	792	707			
1,000	1,172	967	827	707	648			
2,500	916	792	707	633	596			
5,000	792	707	648	596	570			
7,500	739	670	622	580	559			
10,000	707	648	607	570	552			
15,000	670	622	589	559	544			
20,000	648	607	578	552	540			
30,000	622	589	565 [°]	544	534			
40,000	607	578	558	540	531			
50,000	596	570	552	536	528			

TABLE D-10. CRITICAL CRASH RATES FOR URBAN FOUR-LANE DIVIDED SECTIONS (NON-INTERSTATE AND PARKWAY) (FIVE-YEAR PERIOD)(1996-2000)

	CRITICAL CRASH RATE (C/100 MVM) FOR THE GIVEN SECTION LENGTH (MILES)							
AADT	0.5	1	2	5	10			
1,000	860	691	577	480	432			
2,500	649	549	480	420	391			
5,000	549	480	432	391	370			
10,000	480	432	399	370	356			
15,000	450	412	385	361	350			
20,000	432	399	376	356	346			
25,000	420	391	370	352	343			
30,000	412	385	366	350	341			
40,000	399	376	360	346	339			
50,000	391	370	356	343	337			
60,000	385	366	353	341	335			

TABLE D-11. CRITICAL CRASH RATES FOR URBAN FOUR-LANE UNDIVIDED SECTIONS (FIVE-YEAR PERIOD)(1996-2000)

	CRITICAL CRASH RATE (C/100 MVM) FOR THE GIVEN SECTION LENGTH (MILES)							
AADT	0.5	1	2	5	10			
1,000	1,188	981	840	719	659			
2,500	929	804	719	644	607			
5,000	804	719	659	607	581			
10,000	719	659	617	581	563			
15,000	681	633	599	569	554			
20,000	659	617	588	563	550			
25,000	644	607	581	558	546			
30,000	633	599	575	554	544			
40,000	617	588	568	550	541			
50,000	607	581	563	546	538			
60,000	599	575	559	544	537			

TABLE D-12. CRITICAL CRASH RATES FOR URBAN INTERSTATE SECTIONS (FIVE-YEAR PERIOD)(1996-2000)

	CRITICAL CRASH RATE (C/100 MVM) FOR THE GIVEN SECTION LENGTH (MILES)								
AADT	0.5	1	2	5	10				
1,000	415	310	242	185	158				
5,000	225	185	158	134	123				
10,000	185	158	139	123	115				
20,000	158	139	126	115	109				
30,000	146	131	120	111	107				
40,000	139	126	117	109	105				
50,000	134	123	115	108	104				
60,000	131	120	113	107	104				
70,000	128	119	112	106	103				
80,000	126	117	111	105	102				
90,000	124	116	110	105	102				
100,000	123	115	109	104	102				

TABLE D-13. CRITICAL CRASH RATES FOR URBAN PARKWAY . SECTIONS (FIVE-YEAR PERIOD)(1996-2000)

	CRITICAL CRASH RATE (C/100 MVM) FOR THE GIVEN SECTION LENGTH (MILES)						
AADT	0.5	1	2	5	10	20	
500	602	434	326	238	196	168	
1,000	434	326	255	196	168	149	
2,500	300	238	196	161	144	132	
5,000	238	196	168	144	132	124	
7,500	212	179	156	136	127	120	
10,000	196	168	149	132	124	118	
15,000	179	156	140	127	120	115	
20,000	168	149	135	124	118	114	
30,000	156	140	130	120	115	112	
40,000	149	135	126	118	114	111	
90,000	134	125	119	113	110	109	
50,000	144	132	124	116	113	110	

APPENDIX E

CRITICAL CRASH RATE TABLES FOR "SPOTS" (SPOT IS DEFINED AS 0.3 MILE IN LENGTH)

TABLE E-1. CRITICAL CRASH RATES FOR "SPOTS" ON RURAL ONE-LANE, TWO-LANE AND THREE-LANE HIGHWAYS (FIVE-YEAR PERIOD)(1996-2000)

CRITICAL CRASH RATE (C/MV)										
	BY HIGHWAY TYPE									
AADT	ONE-LANE	TWO-LANE	THREE-LANE							
100	7.07	8.71	8.76							
500	2.72	3.63	3.66							
1,000	1.93	2.68	2.70							
2,500	1.31	1.90	1.92							
5,000	1.03	1.54	1.56							
7,500	0.91	1.39	1.40							
10,000	0.84	1.30	1.31							
15,000	0.76	1.19	1.21							
20,000	0.71	1.13	1.15							

TABLE E-2. CRITICAL CRASH RATES FOR "SPOTS" ON RURAL FOUR-LANE HIGHWAYS, INTERSTATES, AND PARKWAYS (FIVE-YEAR PERIOD)(1996-2000)

		/ / / / / / / / / / / / / / / / / / / /						
	CRITICAL CR	ASH RATE (C/MV)					
BY HIGHWAY TYPE								
	FOUR-LANE DIVIDED							
	(NON-INTERSTATE	FOUR-LANE						
AADT	AND PARKWAY)	UNDIVIDED	INTERSTATE	PARKWAY				
500	2.49	3.61	1.74	1.83				
1.000	1.75	2.65	1.16	1.23				
2,500	1.17	1.89	0.73	0.78				
5,000	0.91	1.53	0.54	0.58				
10,000	0.73	1.29	0.41	0.45				
15,000	0.66	1.18	0.36	0.39				
20,000	0.62	1.12	0.33	0.36				
30,000	0.57	1.05	0.29	0.32				
40,000	0.54	1.01	0.27	0.30				
50,000	0.52	0.98	0.26	0.29				

TABLE E-3. CRITICAL CRASH RATES FOR "SPOTS" ON URBAN
TWO-LANE AND THREE-LANE HIGHWAYS (FIVE-YEAR PERIOD)(1996-2000)

		RASH RATE (C/MV) GHWAY TYPE	
AADT	TWO-LANE	THREE-LANE	
500 1,000 2,500 5,000 7,500 10,000 15,000 20,000 30,000 40,000	4.17 3.12 2.27 1.86 1.69 1.59 1.47 1.40 1.32 1.27	5.41 4.16 3.13 2.64 2.43 2.30 2.16 2.07 1.97 1.91	

TABLE E-4. CRITICAL CRASH RATES FOR "SPOTS" ON URBAN FOUR-LANE HIGHWAYS, INTERSTATES, AND PARKWAYS (FIVE-YEAR PERIOD)(1996-2000)

	CRITICAL CRASH RATE (C/MV)								
		GHWAY TYPE							
	FOUR-LANE DIVIDED								
	(NON-INTERSTATE	FOUR-LANE							
AADT	AND PARKWAY)	UNDIVIDED	INTERSTATE	PARKWAY					
1,000	3.10	4.22	1.59	1.65					
5,000	1.85	2.68	0.80	0.84					
10,000	1.58	2.34	0.64	0.67					
15,000	1.46	2.19	0.57	0.60					
20,000	1.39	2.11	0.53	0.56					
30,000	1.31	2.00	0.49	0.51					
40,000	1.26	1.94	0.46	0.48					
50,000	1.23	1.90	0.44	0.47					
60,000	1.21	1.87	0.43	0.45					
70,000	1.19	1.85	0.42	0.44					
80,000	1.17	1.83	0.41	0.43					
90,000	1.16	1.81	0.40	0.42					
100,000	1.15	1.80	0.40	0.42					

APPENDIX F

TOTAL CRASH RATES FOR CITIES INCLUDED IN 2000 CENSUS

TABLE F-1. CRASHES AND CRASH RATES FOR ALL CITIES LISTED IN THE 2000 CENSUS (1996-2000)

	N	UMBER OF	ANNUAL CRASHES			NUMBER OF	CRASHES
		CRASHES	PER 1000			CRASHES	PER 1000
CITY	POPULATION		POPULATION	CITY	POPULATION		POPULATION
Adairville	920	35	8	Burgin	874	36	8
Albany	2,220	545	49	Burkesville	1,756	318	36
Alexandria	8,286	1,291	31	Burlington	10,779	*	*
Allen	150	. 151	201	Burnside	637	. 99	31
Allensville	189	*	•	Butler	613	95	31
Anchorage	2,264	123	11	Cadiz	2,373	605	51
Annville	589	*	*	Calhoun	836	107	26
Arlington	395	13	7	California	86	*	*
Ashland	21,981	6,089	55	Calvert City	2,701	327	24
Auburn	1,444	112	16	Camargo	923	45	10
Audubon Park	1,545	71	9	Campbellsburg	705	78	22
Augusta	1,204	156	26	Campbellsville	10,498	2,551	49
Bancroft	536	1	0	Campton	424	426	201
Barbourmeade	1,260	1	0	Caneyville	627	95	30
Barbourville	3,589	845	47	Carlisle	1,917	327	34
Bardstown	10,374	2,722	53	Carrollton	3,846	858	45
Bardwell	799	77	19	Catlettsburg	1,960	592	60
Barlow	715	57	16	Cave City	1,880	520	55
Beattyville	1,193	252	42	Centertown	416	28	14
Beaver Dam	3,033	595	39	Central City	5,893	995	34
Bedford	677	203	60	Cherrywood	327	3	2
Beechwood Village	1,173	3	1	Clarkson	794	136	34
Beliefonte	837	111	27	Clay	1,179	103	18
Bellevue	6,480	1,177	36	Clay City	1,303	*	*
Bellewood	300	3	2	Clinton	1,415	*	
Benham	599	37	12	Cloverport	1,256	44	7
Benton	4,197	893	43	Coal Run	577	388	135
Berea	9,851	1,736	35	Cold Spring	3,806	1,029	54
Berry	310	21	14	Columbia	4,014	1,019	51
Blackey	153	*	*	Columbus	229	*	*
Blaine	245	18	15	Concord	28	2	14
Blandville	99		*	Corbin	9,404	2,349	50
Bloomfield	855	100	23	Corinth	181	141	156
Blue Ridge Manor	623	2	1	Corydon	744	109	29
Bonnieville	354	58	33	Covington	43,370	11,136	51
Booneville	111	210	378	Crab Orchard	842	131	31
Bowling Green	49,296	15,049	61	Crescent Springs	3,931	794	40
Bradfordsville	304	36	24	Crestview	471	6	3
Brandenburg	2,049	561	55	Crestview Hills	2,889	1,031	71
Bremen	365	79	43	Crestwood	1,999	528	53
Briarwood	554	1	0	Crittenden	2,401	468	39
Broadfields	250	*	*	Crofton	838	89	21
Brodhead	1,193	13	2	Cumberland	2,611	276	21
Bromley	838	88	21	Cynthiana	6,258	1,380	44
Brooks	2,678	*	*	Danville	15,477	3,599	47
Brooksville	589	205	70	Dawson Springs	2,980	294	20
Brownsville	921	288	63	Dayton	5,966	514	17
Buckhorn	144	*	*	Dixon	632	178	56
Buckner	4,000		*	Douglass Hills	5,718	*	*
Buechel	7,272		*	Dover	316	27	17

TABLE F-1. CRASHES AND CRASH RATES FOR ALL CITIES LISTED IN THE 1990 CENSUS (1996-2000)(continued)

	Ν	IUMBER OF	ANNUAL CRASHES			NUMBER OF	CRASHES
		CRASHES	PER 1000			CRASHES	PER 1000
CITY	POPULATION		POPULATION	CITY	POPULATION		POPULATION
Drakesboro	627	83	27	Green Spring	459	*	•
Dry Ridge	1,995	932	93	Greensburg	2,396	535	45
Earlington	1,649	192	23	Greenup	1,198	231	39
East Bernstadt	7 74	*	*	Greenville	4,398	909	. 41
Eddyville	2,350	223	19	Guthrie	1,469	140	19
Edgewood	9,400	910	19	Hanson	625	83	27
Edmonton	1,586	378	48	Hardin	564	70	25
Ekron	170	18	21	Hardinsburg	2,345	322	28
Elizabethtown	22,542	6,333	56	Harlan	2,081	797	77
Elkhorn City	1,060	143	27	Harrodsburg	8,014	1,759	44
Elkton	1,984	307	31	Hartford	2,571	156	12
Elsmere	8,139	809	20	Hawesville	971	178	37
Eminence	2,231	131	12	Hazard	4,806	2,287	95
Erlanger	16,676	4,011	48	Hazel	440	43	20
Eubank	358	47	26	Henderson	27,373	6,920	51
Evarts	1,101	161	29	Hendron	4,239	*	
Ewing	278	19	14	Hickman	2,560	174	14
Fairdale	7,658	*	*	Highland Heights	6,554	922	28
Fairfield	72	13	36	Hillview	7,037	*	•
Fairview	156	34	44	Hindman	787	268	68
Falmouth	2,058	432	42	Hiseville	224	18	16
Ferguson	881	30	7	Hodgenville	2,874	726	51
Fern Creek	17,870	*	*	Hollow Creek	815	*	•
Flatwoods	7,605	677	18	Hopkinsville	30,089	6,31.7	42
Fleming-neon	840	*	•	Horse Cave	2,252	224	20
Flemingsburg	3,010	442	29	Houston Acres	491	2	1
Florence	23,551	8,753	74	Hunters Hollow	372	*	•
Fordsville	531	69	26	Hustonville	347	42	24
Forest Hills	494	13	5	Hyden	204	205	201
Fort Campbell	14,338	*	*	Independence	14,982	1,754	23
Fort Knox	12,377	*	*	Indian Hills	2,882	39	. 3
Fort Mitchell	8,089	1,478	37	Inez	466	189	81
Fort Thomas	16,495	1,244	15	Irvine	2,843	653	46
Fort Wright	5,681	2,070	73	Irvington	1,257	58	9
Fountain Run	236	28	24	Island	435	52	24
Frankfort	27,741	5,323	38	Jackson	2,490	831	67
Franklin	7,996	1,350	34	Jamestown	1,624	194	24
Fredonia	420	66	31	Jeffersontown	26,633	4,788	. 36
Frenchburg	551	137	50	Jeffersonville	1,804	142	16
Fulton	2,775	479	35	Jenkins	2,401	318	27
Gamaliel	439	20	9	Junction City	2,184	161	15
Georgetown	18,080	3,421	38	Keeneland	383	2	1
Germantown	190	50	53	Kevil	574	69	24
Ghent	371	47	25	Kingsley	428	5	2
Glasgow	13,019	3,378	52	Kuttawa	596	. 75	25
Glencoe	251	45	36	LaGrange	5,676	953	34
Goshen	907	*	*	Lacenter	1,038	114	22
Grand Rivers	343	38	22	Lafayette	193	6	6
Gratz	89	15	34	Lakeside Park	2,869	442	31
Grayson	3,877	1,039	54	Lancaster	3,734	67.5	36

TABLE F-1. CRASHES AND CRASH RATES FOR ALL CITIES LISTED IN THE 1990 CENSUS (1996-2000)(continued)

,	١	UMBER OF	ANNUAL CRASHES			NUMBER OF	CRASHES	
		CRASHES	PER 1000			CRASHES	PER 1000	
CITY	POPULATION		POPULATION	CITY	POPULATION		POPULATION	
Langdon Place	974		*	Morehead	5,914	1,891	64	
Latonia Lakes	325	30	19	Morganfield	3,494	699	40	
Lawrenceburg	9,014	893	20	Morgantown	2,544	521	41	
Lebanon	5,718	1,261	44	Mortons Gap	952	85	18	
Lebanon Junction	1,801	224	25	Mount Olivet	289	21	15	
Ledbetter	1,700	*	*	Mount Sterling	5,876	1,827	62	
Leitchfield	6,139	596	19	Mount Vernon	2,592	717	55	
Lewisburg	903	81	18	Mount Washington	8,485	921	22	
Lewisport	1,639	116	14	Muldraugh	1,298	284	44	
Lexington	260,512	61,651	47	Munfordville	1,563	428	55	
Liberty	1,850	362	39	Murray	14,950	1,661	22	
Livermore	1,482	171	23	Nebo	220	37	34	
Livingston	228	14	12	New Castle	919	124	27	
London	5,692	3,285	115	New Haven	849	69	16	
Lone Oak	454	298	131	Newport	17,048	4,584	54	
Loretto	623	90	29	Nicholasville	19,680	3,473	35	
Louisa	2,018	677	67	Norbourne Estates	461	4	2	
Louisville	256,231	80,191	63	North Middleton	562	37	13	
Loyall	766	54	14	Northfield	970	89	18	
Ludlow	4,409	341	16	Nortonville	1,264	164	26	
Lynch	900	55	12	Oak Grove	7,064	1,186	34	
Lyndon	9,369	112	. 2	Oakland	260	20	15	
Lynnview	9,505	54	11	Okolona	17,807	. 20	,	
Mackville	206	27	26	Olive Hill	1,813	390	43	
Madisonville	19,307	4,407	46	Owensboro	54,067	12,492	46	
Manchester	1,738	720	83	Owenton	1,387	305	44	
Manor Creek	221	720	*	Owingsville	1,488	294	40	
Marion Creek	3,196	508	32	Paducah	26,307	9,009	69	
Martin	633	218	69	Paintsville	4,132	1,201	58	
Masonville	1,075	2.10	*	Paris	9,183	1,839	40	
Massac	3,888		*	Park City	517	76	29	
Mayfield	10,349	2,297	44	Park Hills	2,977	219	15	
Maysville	8,993	2,633	59	Pembroke	797	50	13	
McHenry	417	46	22	Perryville	763	51	13	
McKee	878	217	49	Pewee Valley	1,436	188	26	
McRoberts .	921	39	9	Phelps	1,053	266	51	
Meadow Vale	765	73	19	Pikeville	6,295	2,100	67	
Meadowbrook Farm	146		*	Pine Knot	1,680	-,	*	
Meadowview Estates	422	5	2	Pineville	2,093	473	45	
Melbourne	457	39	17	Pioneer Village	2,555	*	*	
Mentor	181	16	18	Pippa Passes	297	89	60	
Middlesboro	10,384	1,755	34	Plantation	902	618	137	
Middletown	5,744	216	. 8	Pleasureville	869	42	10	
Midway	1,620	133	16	Plymouth Village	201	1	1	
Millersburg	842	96	23	Powderly	846	94	22	
Milton	525	224	85	Prestonsburg	3,612	1,236	68	
Minor Lane Heights	1,435	39	5	Prestonville	164	37	45	
Monterey	167	23	28	Princeton	6,536	1,041	32	
Monticello .	5,981	1,416	47	Prospect	4,657	*	,	
Moorland	3,981 464	1,410	5	Providence	3,611	350	19	

TABLE F-1. CRASHES AND CRASH RATES FOR ALL CITIES LISTED IN THE 1990 CENSUS (1996-2000)(continued)

	N	UMBER OF	ANNUAL CRASHES			NUMBER OF	CRASHES
		CRASHES	PER 1000			CRASHES	PER 1000
CITY	POPULATION		POPULATION	CITY	POPULATION		POPULATION
Raceland	2,355	189	16	Stearns	1,586	*	•
Radcliff	21,961	2,878	26	Strathmoor Village	625	1	C
Ravenna	693	45	13	Sturgis	2,030	219	22
Raywick	144	*	*	Taylor Mill	6,913	1,227	36
Reidland	4,353	*	*	Taylorsville	1,009	205	41
Richlawn	454	*	•	Tompkinsville	2,660	608	46
Richmond	27,152	6,646	49	Trenton	419	18	9
Robards	564	*	*	Union	2,893	389	27
Rochester	186	1	1	Uniontown	1,064	106	20
Rockport	334	11	7	Upton	654	*	•
Rolling Hills	907	19	4	Vanceburg	1,731	277	32
Russell	3,645	849	47	Versailles	7,511	1,555	41
Russell Springs	2,399	728	61	Vicco	318	83	52
Russellville	7,149	1,696	47	Villa Hills	7,948	357	ç
Ryland Heights	799	*	•	Vine Grove	4,169	371	18
Sacramento	517	64	25	Wallins Creek	257	141	110
Sadieville	263	43	33	Walton	2,450	545	45
Salem	769	64	17	Warfield	284	96	68
Salt Lick	342	100	59	Warsaw	1,811	156	17
Salyersville	1,604	367	46	Water Valley	316	18	11
Sanders	246	17	14	Waverly	297	44	30
Sandy Hook	678	120	35	Wayland	298	32	22
Sardis	149	27	36	Wellington	561	*	,
Science Hill	634	26	8	West Liberty	3,277	467	29
Scottsville	4,327	1,070	50	West Point	1,100	251	46
Sebree	1,558	204	26	Westwood	4,888	•	,
Seneca Gardens	699	5	1	Westwood	612	*	,
Sharpsburg	295	61	41	Wheatcroft	173	15	17
Shelbyville	10,085	2,227	44	Wheelwright	1,042	48	Ş
Shepherdsville	8,334	1,774	43	Whipps Millgate	415	*	•
Shively	15,157	4,733	63	White Plains	800	64	16
Silver Grove	1,215	153	25	Whitesburg	1,600	531	66
Simpsonville	1,281	136	21	Whitesville	632	105	33
Slaughters	238	14	12	Whitley City	1,111	339	6
Smithfield	102	14	28	Wickliffe	794	212	53
Smithland	401	77	38	Wilder	2,624	679	52
Smiths Grove	784	111	28	Wildwood	247	2	2
Somerset	11,352	4,203	74	Williamsburg	5,143	961	37
Sonora	350	103	59	Williamstown	3,227	691	40
South Carrollton	184	84	91	Willisburg	304	36	24
South Shore	1,226	104	17	Wilmore	5,905	234	8
Southgate	3,472	503	29	Winchester	16,724	3,891	47
Sparta	230	42	37	Wingo	581	61	2
Springfield	2,634	572	43	Woodburn	323	26	16
St. Charles	309	23	15	Woodland Hills	657	. 4	7
St. Matthews	15,852	3,666	46	Woodlawn Park	1,033	3	•
St. Regis Park	1,520	284	37	Worthington	1,673	39	5
Stamping Ground	566	50	. 18	Worthington Hills	1,594	*	
Stanford	3,430	380	22	Worthville	215	23	2
Stanton	3,029	505	33	Wurtland	1,049	81	15

^{*} Data Not Available.