Analysis of Traffic Crash Data in Kentucky (2014-2018)

Kentucky Transportation Center Research Report
KTC-19-26/KSP2-19-1F



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# Research Report KTC-19-26/KSP2-19-1F

# ANALYSIS OF TRAFFIC CRASH DATA IN KENTUCKY (2014-2018)

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# **EXECUTIVE SUMMARY**

This report documents an analysis of traffic crash data in Kentucky for the years of 2014-2018. A primary objective of this study was to determine average crash statistics for Kentucky highways. Rates were calculated for various types of highways and for counties and cities. Difference criteria were used for exposure.

Average and critical numbers and rates of crashes were calculated for various types of highways in rural and urban areas. These rates used crashes identified on highways where traffic volumes were available. Improved methods of identifying crash locations have resulted in higher rates for the last couple of years. The crash rate 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 that 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, school bus crashes and train crashes.

The crash data are stored in the Collision Report Analysis for Safer Highways (CRASH) database. This database is updated daily so the number of crashes in a given calendar year will continue to change for a substantial time after the end of that year.

#### 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 33rd report providing a combination of those two report areas. Traffic crash data for the five-year period of 2014-2018 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 that 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 that 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 traffic (traffic volume and roadway geometrics) databases 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) database. 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 for 2014-2018 so it would be consistent with other reports. All crashes included in the analysis occurred on a public highway. It should be noted that this data base is updated daily so the number of crashes in a given calendar year will continue to change for a substantial time after the end of that year. This would result in numbers in the tables in this report being less than those contained in the current CRASH database. Summaries were prepared from an analysis of the crash data from the CRASH database for 2014-2018.

Volume data, along with other data describing highway characteristics such as number of lanes, is obtained from a computer file containing roadway characteristics data for all state-

maintained highways and some local roads. In the past this information is obtained from the Highway Performance Monitoring System (HPMS) file. Now the Highway Information File (HIS) file is been used. Data for a five-year period of 2014-2018 were obtained from these files. The HPMS and HIS files were 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 database and roadway characteristics information from the HPMS and HIS files 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).

The matching process was significantly changed starting with 2012 data due to the change to the HIS format. Crashes are now matched to any road with traffic volume data. Previously crashes were matched to HPMS using the route number. With the improvements in crash location data, crashes are able to be matched by three different route identifiers (RT\_Unique, the GIS route identifier and roadway number). The resulting matching rate is much higher than previous years, particularly for urban streets. This has resulted in an increase in crashes and resulting rates.

Rates were calculated for: 1) all roads having known traffic volumes, route numbers and 2) all public streets and highways on and off the state-maintained system. A large majority of roads with traffic volumes are state-maintained. However, this document will refer to these roads as 'identified roads' since some of these routes were locally maintained. 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 2010 census were used.

In addition to average 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.

$$C_c = C_a + K\sqrt{\frac{C_a}{M}} + \frac{1}{2M} \tag{1}$$

where

 $C_c$  = critical crash rate

 $C_a$  = average crash rate

K = constant related to level of statistical significance selected (a probability of 0.995 was used wherein <math>K = 2.576)

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.

$$N_c = N_a + K\sqrt{N_a} + 0.5 (2)$$

where

 $N_c$  = critical number of crashes

 $N_a$  = average number of crashes

There are highway safety problem areas (standards) identified by the National Highway Traffic Safety Administration. Problem areas that 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 roads having known traffic volumes, route numbers, and mileposts. Crash rates are given in terms of crashes per 100 million vehiclemiles (C/100 MVM). Using the HPMS and HIS files has identified about 28,000 miles being included in this category. This compares to over 80,000 miles of public roads in Kentucky. While only approximately 35 percent of the total miles are identified, these roads account for approximately 84 percent of the vehicle miles traveled. The crash file was matched with the HPMS and HIS files. The percentage of all crashes classified as being on an identified road is 70 percent. This was further enhanced with an integrated mapping system built into the crash reporting tool. This map has replaced the need for a handheld GPS device, instead having officers click on a point on the map which returns latitude and longitude and county, route and milepoint (even for local roads).

A comparison of 2014-2018 crash statistics on streets and highways having known traffic volumes, route numbers, and mileposts is shown in Table 1. The overall crash rate in 2018 was 256 crashes per 100 million vehicle-miles (C/100 MVM). The crash rates for the previous four years varied from 227 to 281 C/100 MVM.

The fatal crash rate in 2018 was greater than 2017 at 1.37 C/100 MVM. The fatal crash rate ranged from a low of 1.31 C/100MVM in 2015 and 2017 to a high of 1.65 C/100 MVM in 2016. The injury crash rate in 2018 was 43 C/100MVM, which is a decrease of 2.3 percent from the previous four-year average. The injury crash rate of 50 C/100MVM in 2016 was the highest rate in the five-year period.

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 the 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 (2014-2018) 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 and HIS files. 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 rates (crashes per 100 million vehicle-miles) as well as injury and fatal crash rates were calculated.

On rural highways, excluding the small lengths of one-lane and three-lane highways, the highest rate for all crashes occurred on two-lane highways (Table 2). Two-lane highways have the highest injury crash rate (excluding one-lane roads). The fatal crash rate on two-lane highways is substantially higher than the other road types (excluding the small sample size of the three-lane). Interstates and parkways have the lowest total, injury, and fatal crash rates. The advantage of median-separated highways is shown when comparing the crash rates for four-lane divided (non-interstate or parkway) and four-lane undivided highways. The overall crash rate for a rural non-interstate or non-parkway divided highway (which would not typically have access control) is about 12 percent less than for an undivided highway, although the average daily traffic was fairly similar.

Excluding the small number of three lane roadways, on urban highways, the highest overall crash rates are on four-lane undivided and two-lane highways (Table 3). The fatal crash rate for four-lane (non-interstate or parkway) undivided highways was 1.2 C/100MVM, higher than the overall fatal rate of 1.0 C/100MVM. The lowest overall crash rate, along with injury and fatal crash rates, are on interstates and parkways. Parkways have the lowest fatal crash rate.

Data in Tables 2 and 3 show that the overall total crash rate on urban highways was about 58 percent higher than that for rural highways. Also, the injury rate on urban highways was 6 percent lower than that for rural highways. However, the fatal crash rate on urban highways is 35 percent less than of that for rural highways. The lower fatal crash rate is due to the slower travel speeds and the higher traffic volumes in urban areas.

Variations in crash rates by rural and urban highway-type classifications over the five-year period are listed in Table 4. The 2018 rate in urban areas was higher than the average for the previous four years with a 5.9 percent increase in urban areas. Only a small percentage (12 percent) of identified roads mileage is classified as urban. The rates generally fluctuated more for the highway types that had only a small number of miles.

Trends in overall crash rates representative of rural and urban areas are shown graphically in Figure 1 for the five-year period of 2014-2018. 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 roads having information which could be matched to crash data. The increase in matching in 2014-2018 is shown. Not all highway types are shown on Figures 2 and 3 due to low mileages for some highway types.

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 2014-2018 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. The crash rates for those locations are then 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 2014-2018. 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 (2016-2018) with the results shown in APPENDIX B. Data for 0.1 mile "spots" are also given in that appendix.

Critical numbers of crashes for various section lengths were determined for each highway type using Equation 2 on page 2 of this report. Results are presented in the tables found 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 2014-2018.

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 2014-2018 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 of this report.

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 2014-2018.

## 4.0 COUNTY CRASH STATISTICS

Crash rates were calculated for each county considering 1) roads that could be identified with crash and volume data related (the state-maintained system plus a few other roads with adequate data) and 2) all roads within the county. The crash rates are presented in terms of C/100 MVM (crashes per 100 million vehicle miles). 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 and HIS files were 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. 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 population data used are from the 2010 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 generally 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 36 for total crashes (all roads), 19 for injury-or-fatal crashes, and 1 for fatal crashes. There has been consistency in recent years regarding counties which have a critical rate. For example, of the counties determined to have a critical crash rate when total crashes were considered, 34 were also identified in the last year's report.

Table 10 contains the number 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 with an asterisk.

Crash rates for each county were also calculated considering only the identified (state-maintained and a few roads with sufficient information) system. Those rates, grouped by population category, are presented in Table 11. The rankings of counties in Tables 10 and 11 are similar. In three of the five population categories, the same county had the highest rate considering all roads or identified roads. These counties are Pendleton County (in the 10,000 to 14,999 population category), Harrison County (in the 15,000 to 24,999 population category), and Jessamine County (in the 25,000 to 50,000 population category). In the under 10,000 population category, Nicholas County had the highest rate for all roads while Crittenden County had the highest rate for the identified system. In the over 50,000 population category, Jefferson County had the highest rate for all roads while Fayette County had the highest rate for the identified system. When all roads are considered, Jefferson and Fayette Counties have the highest rates in the state. When only identified roads are considered, Fayette County had the highest rate in the state. Leslie and Bath Counties, which are in the second lowest population category, had the lowest rates in the state when considering both all roads and identified roads.

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 with an asterisk. Counties having the highest rates for their respective population categories are Crittenden, Breathitt, Clay, Perry, and Jefferson. Jefferson County had the highest rate in the state while Leslie County had the lowest rate.

Similar rates for fatal crashes are listed in Table 13. Counties having the highest fatal crash rates for their population categories are Nicholas, Breathitt, Marion, Grayson, and Pike. The highest rates are generally for the smallest counties where there would be more driving on two-lane rural roads where fatal crash rates have been found to be the highest (Table 2). Pike County is the only county 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 year for the last five years; percent change in the 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 2014-2018 crash data (Table 15). The primary group of cities included in the analysis was those having a population over 2,500 that had a city code in the computer file 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 included in the 2010 census having populations of more than 2,500 where crash data could be related to the city for all five years. Crashes recorded as occurring in the city are included. However, crashes using the city as a reference but recorded as occurring any distance from the city were not included. Rates in terms of C/100 MVM are listed for the identified system while rates in terms of crashes per 1,000 population are listed using all streets in the city. The table notes the 12 cities where no data was available for the identified system.

Additional statistics are listed in Table 16 for the cities that had five years of crash data available for analysis. Rates for fatal crashes, pedestrian-motor vehicle crashes, bicyclemotor 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 2010 census are summarized in APPENDIX F (Table F-1). A total of 410 cities were listed with a population in the census. Information included for the cities were population, number of crashes, and crash rate (crashes per 1,000 population). However, a city code was not available for several small cities. This resulted in data being available for 335 cities in Appendix F.

Crashes on the state-maintained system of highways within a city typically only accounted for a portion of all the crashes occurring within any city. Therefore, total crash rates, rather than on the identified system, were used to determine critical crash rates for cities. Crash rates on the identified system, by city and by population category, are shown in Table 17. The cities are listed in descending order by crash rate for each population category. The cities for which a match could not be obtained using a city code listed in the HPMS and HIS files would not be listed in Table 17. Lexington, Owensboro, Newport, Bellevue, Walton and Cave City have the highest crash rate on identified streets in their population category. Cities in the 1,000 to 2,499 population category are also included in this table. Therefore, this table provides data for more cities compared to Table 16. The average crash rate for all cities in a category is also listed. The overall rates are highest for cities in the 10,000 to 19,999 population category. The lowest overall rate is for the 1,000 to 2,499 population category. The large range in rates and number of crashes is related in part to the detail of reporting.

Total crash rates for cities by population category are listed in Table 18. They are tabulated in order of descending crash rates by population category and critical rates are identified with an asterisk. The order of rates for cities is very different in Table 18 compared to Table 17. There were 17 cities identified as having total crash rates above critical. Lexington, Florence, Somerset, Fort Wright, and Crestview Hills 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 by population category. Louisville, Paducah, Shively, Pikeville, and Prestonsburg have the highest fatal crash rates in their respective population ranges. Due to the small numbers of fatal crashes no city was

identified as having a critical fatal crash rate. Prestonsburg had the highest fatal crash rate (by a substantial amount).

#### 6.0 ALCOHOL- AND DRUG-RELATED CRASHES

Alcohol- and drug-related crashes continue to be one of the highest priority problem identification areas (in Kentucky and across the nation) 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 4,586 per year for the past five years. Alcohol-related fatalities have averaged 157 per year during the past five years (using Fatal Analysis Reporting System data). Using the number of fatalities (reported by FARS), injuries & property damage in alcohol-related crashes (as reported on the scene), the estimated cost of alcohol-related crashes in Kentucky varied in 2018 from about \$326 million using economic cost data up to about \$2.4 billion using comprehensive cost data 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. This number decreased to the relatively constant level of approximately 7,700 to 8,100 from 1985 through 1990 with a gradual reduction 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 then decreased yearly through 1998 to 5,222. There was a slight increase in 1999 and then a larger increase in 2000. In 2001, the downward trend in alcohol-related crashes started again. In 2018 the total dropped to 3,580 which represents a 13.8 percent decrease compared to the previous four-year average. Alcohol-related crashes represented about 3 percent of all crashes during the latest five-year period. The number of alcohol-related fatalities in 2018 (124) was about 24 percent lower than the previous four-year average (164).

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, the number and percentage of crashes involving alcohol were determined by considering all drivers and those less than 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 involving alcohol, considering all drivers, are Elliott, Lewis, Spencer, Meade, and Pike.

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 similar to those identified when all drivers were considered. For 16 through 20 years of age drivers, the county in each population category having the highest percentage of crashes involving alcohol are Elliott, Clinton/Pendleton (tied), Knott, Harlan, and Pike.

Table 21 is a summary of number and percentage of crashes involving alcohol for cities. For each population category, the cities having the highest percentages of crashes involving alcohol in 2018 are Lexington, Covington, Fort Thomas, Dayton, and Dawson Springs.

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 (2014-2018) were used in the analysis. The data were obtained from records maintained by the Administrative Office of the Courts (AOC). 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 Menifee, Green, Breckenridge, Meade and Jefferson. Counties having the lowest rates of alcohol convictions per alcohol-related crash are Jefferson, Mason, Bracken, Madison, and Pendleton. 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 shows that, statewide, there has been a decrease each year for the last five years in the number of alcohol convictions during the five-year period from a high of 16,208 in 2014 to a low of 11,962 in 2018. The number of alcohol convictions in 2018 decreased ~15 percent from the average of the previous four years.

A comparison was also made between the total alcohol filings, convictions, and non-convictions, by county, for the five years of 2014-2018 (Table 24). The data for "driving under the influence" filings and the results of the filings were obtained from the AOC. The statewide percentage of alcohol convictions per filing over these five years was 81.8 percent. The percentages varied from a low of 58.0 percent in Leslie County to a high of 92.0 percent in Clinton County. In previous years, the percentages would be affected by the overlapping effects of filings being made and convictions being prosecuted in different calendar years. However, the current procedure calculates conviction rate using those filings that are resolved with either a conviction or non-conviction in the same calendar year as the filing. There were 6 counties with a conviction rate at or over 90 percent. Only one county, Leslie, had a conviction rate less than 60 percent.

The counties are grouped by population category and are placed in decreasing order of conviction percentage by population category in Table 25. The average conviction percentage did not vary substantially by population category with a range of from 79.1 to 81.8 percent. Counties having the highest conviction percentages in the various population categories are Lee, Clinton, Woodford, Jessamine and Oldham. Counties having the lowest conviction percentages for the various population categories are Hickman, Leslie, Clay, Bell and Pike.

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 then 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 5-year period of 2014-2018, the highest number of convictions at 2,380 was in 2015. The number in 2018 was a 19 percent decrease from the average number in the previous four years. The highest rates (convictions per 1,000 licensed drivers) occurred in Lyon, Fulton and Trigg Counties. The lowest rates are in Estill, Oldham, and Ohio Counties.

Drugs continue to be listed as a contributing factor in a relatively small percentage of all crashes. However, drugs have been found to be involved in a large number of fatal crashes (when blood tests are conducted). The number of drug-related crashes (as noted as a contributing factor on the police report) was 1,488 in 2018. In the previous four years the lowest number was 1,558 in 2014. When compared to the previous four-year average, drug-related crashes decreased by 15 percent in 2018. The number of drug-related fatal crashes saw an increase in 2018 (8.2 percent) compared to the previous four-year average. In 2018 there were 251 fatal drug-related crashes. The number of drug-related injury crashes also increased (by 44.8 percent) in 2018 compared to the previous four-year average.

Percentages of crashes involving drugs (as noted by the investigating officer) by county and population category for all roads are presented in Table 27. Counties having the highest percentages of drug-related crashes by population category are: Elliott, Magoffin, Clay, Floyd, and Pike. The data in Table 27 show most of the counties with the highest percentages are in southeastern Kentucky. Counties with the highest percentages of this type of crash are Floyd, Magoffin, Clay, Harlan, and Pike 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, Nicholasville, Lawrenceburg, Dayton, and Barbourville. Barbourville had the highest rate in the state at 4.6 percent.

# 7.0 OCCUPANT PROTECTION

The percentages of drivers of passenger cars involved in traffic crashes that were reported as wearing safety belts (listed by county) have been used to compare usage rates. However, it was known that these reported rates were much higher than found in observation surveys. Observation surveys were first taken in each county in 2004 by the Area Development Districts. These surveys were repeated for 2005 and 2006 but data has not been collected since 2006. These safety belt rates (for 2006) for each county were reported in Table 14. Those same percentages are listed in descending order by county population category in Table 29. The rates varied from a high of 83.0 percent in Oldham County to a low of 40.1 percent in Monroe County. The data shows that 26 counties had a usage rate over 70 percent while 18 counties had a rate under 50 percent. The 2018 statewide survey found a usage rate of 90 percent. The statewide methodology does not collect data in every county but uses a representative sample of counties.

It should be noted that the first statewide safety belt law (with secondary enforcement) was passed with an effective date in July 1994. The law was changed to allow primary

enforcement with an effective date of July 2007. Prior to the statewide laws, 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 the enactment of the local ordinances and statewide law has 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 the potential for intensive promotional campaigns are identified by an asterisk in Table 29. Those fifteen counties were selected on the basis of their safety belt usage rate (as determined by the surveys taken by the Area Development Districts (ADD)), 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 that had not been identified in the past couple of years.

The safety belt usage rates in 2007 (from the ADD survey) are presented in Table 30 as a function of county population. This table shows the higher usage percentages for counties having a population over 50,000. Counties in the over 50,000 population category had a usage rate about 12 percent higher than for counties in the under 10,000 population category.

Safety belts are recognized as an effective method of reducing the severity of injuries in traffic crashes. This is confirmed by the crash 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 a crash, the chance of being fatally injured is reduced by about 98 percent compared to not wearing a safety belt. Also, the chance of receiving an incapacitating injury is reduced by 94 percent and the chance of receiving a non-incapacitating injury is reduced by 81 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 67 percent (from 16.73 percent for drivers not wearing safety belts to 5.59 percent for drivers wearing safety belts). These percentages are high when compared to national statistics concerning the effectiveness of safety belts in reducing fatal or serious injuries. The reason is probably related to the over reporting of seat belt usage in traffic crashes. This would occur more often for drivers who were not injured where there was no physical evidence of whether they were wearing a seat belt.

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 32. Data are for 2014-2018. 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 22 fatalities (children age three and under) occurring during the study period 2014-2018, 21 involved use of a restraint. The use of a restraint in most of the fatalities would be related to the very high usage rate and possibly to improper usage. Also, of the 61 incapacitating injuries, 54 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 86 percent reduction in fatalities for children in restraints, a 95 percent reduction in incapacitating injuries, an 90 percent reduction in non-incapacitating injuries, and a 71 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 the constant very high usage rate. The usage rate using the crash data was 99 percent. This usage rate was calculated by dividing the "any restraint" total by the sum of the "any restraint" and "none" categories from Table 32. This compares to the usage rate of 98 percent found in the 2012 observational survey (this data is no longer collected after 2012.)

# 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 during the previous years. In 2007, the number of speed-related crashes was the lowest it has been since the inception of this report. In 2018 the number of speed-related crashes decreased by 5.1 percent when compared to the previous four-year average. For the five-year period (2014-2018), speed-related crashes represented 4.9 percent of all crashes, 7.7 percent of injury crashes, and 20.6 percent of fatal crashes. In 2018 the number of speed-related fatal crashes saw a decrease of 16 percent when compared to the previous four-year average. The number of speed-related fatal crashes ranged from a low of 100 in 2018 to a high of 131 in 2015. The number of speed-related injury crashes decreased by 8.4 percent in 2018 compared to the previous four years. The number of speed-related injury crashes ranged from a low of 1,701 in 2018 to a high of 1,979 in 2016.

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 33. The police report has two codes indicating speed was a contributing factor. These codes are "exceeded stated speed limit" and "too fast for conditions." When arranged in order of decreasing percentages of speed-related crashes by population category, those counties having the highest percentages in each category are Bracken, Butler, Simpson, Carter, and Madison. A similar summary of crashes involving unsafe speeds for cities was prepared and is presented in Table 34. Those cities having the highest percentages in each population category are Lexington, Independence, Erlanger, Taylor Mill, and Williamstown.

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 35 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. For the five-year period examined, the number of speeding convictions for the entire state ranged from a low of 46,193 in 2017 to a high of 48,578 in 2014.

To assist in identifying areas having the potential for increased enforcement, Table 36 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, Clinton, Marion, Greenup and Pike. Many of those counties were identified as also having the lowest rates of speeding convictions per speed-related crash. Historically there has been a predominance of counties having high percentages of speed-related crashes and low rates of convictions in the southeastern region of Kentucky.

Speeds on various types of roads were obtained in 2007 and 2008 prior to and after the implementation of an increase of speed limits on rural interstates and parkways from 65 to 70 mph. In addition to interstates and parkways, data were taken on rural four-lane roads and two-lane with full width shoulders. Summary of that data for cars and trucks (single unit and combination tractor trailer) are given in Tables 37 and 38, respectively. The 85<sup>th</sup> percentile speeds are given which is the speed which should be used to establish the speed limit. The data show that the increase in speed limits on rural interstates and four-lane parkways from 65 to 70 mph resulted in only a small increase in speed. The large difference in the 85<sup>th</sup> percentile speed and posted speed limit on a few other road types justify an increase in speed limit on a limited number of high-design type roads. Speeds for trucks are less than that for cars. The speed data show that the operating speed is above the posted speed limit on all road types.

# 9.0 TEENAGE DRIVERS

A separate analysis (2018 Traffic Collision Facts report) was conducted to determine the frequency of crashes involving teenage drivers (16 to 19 years of age). A review of driver records shows that teenage drivers account for approximately 7 percent of licensed drivers (including learner permits) in Kentucky. Using 2018 data, it was found that teenage drivers were involved in about 14 percent of all crashes, 15 percent of injury crashes, and 9 percent of fatal crashes. Teenage drivers (including drivers with a learner permit) are overrepresented in all crash types.

The involvement rate of teenage drivers compared to all drivers in total and fatal crashes was analyzed (using 2018 data). Considering all crashes on public highways, the rate was 68 crashes per 1,000 drivers for all drivers compared to 92 crashes per 1,000 drivers for teenage drivers. Considering fatal crashes, the rate was 20 fatal crashes per 100,000 drivers for all drivers compared to 27 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 39. The crashes in 2018 were compared to an average of the preceding four years (2014-2017). There was a 0.7 percent decrease in total crashes. It should be noted that crashes in parking lots were not included in the analysis.

The highest number of crashes in this five-year span on public roads was in 2016 (140,547). The lowest number (127,326) occurred in 2014. The numbers of fatal crashes decreased by 4.9 percent in 2018 compared to the previous four years while the number of fatalities decreased by 5.0 percent. The number of fatalities in the five-year period ranged from a low of 672 in 2014 to a high of 834 in 2016. The number of injury crashes decreased 4.5 percent and injuries decreased 5.2 percent. The number of injuries varied from 33,914 in 2018 to 37,347 in 2016.

Vehicle-miles traveled increased slightly over the five-year period which ranges from 47.972 billion miles in 2014 to 49.547 billion miles in 2018. The vehicle miles traveled in 2018 saw an increase of 2.2 percent over the previous four-year average. There was a decrease in total crash rate in 2018 of 2.9 percent when compared to the previous four-year average. The total crash rate varied from a low of 265 C/100 MVM in 2014 to 286 C/100 MVM in 2016. The total crash rate has remained fairly constant in recent years.

There were decreases in 2018 in the fatal crash rate (6.9 percent) and fatality rate (6.9 percent) compared to the average of the previous four years. The fatal crash rate in 2014 (1.28) was the lowest rate in this five-year period with the highest in 2016 (1.55).

There were a total of 675,475 crashes in the five-year period, of which 3,454 (0.5 percent) were fatal crashes and 118,572 (17.6 percent) were injury crashes. Those crashes resulted in 3,773 fatalities and 177,023 injuries.

There is a large range used when estimating crash costs. Considering economic costs, an estimate for 2018 is \$11.1 billion for the cost of Kentucky traffic crashes (on public roads) or an average cost of about \$22,823 per crash using National Safety Council estimates of motor vehicle crash cost. Similarly, the comprehensive costs result in an estimate of \$73.3 billion for the cost of Kentucky traffic crashes or an average cost of about \$150,020 per crash.

**Note:** These figures are higher than previous publications as "No Injury Observed" was used rather than "Property Damage Only" as published by the National Safety Council in their 2016 Guide To Calculating Costs which can be found here as of the publication of this book:

https://injuryfacts.nsc.org/all-injuries/costs/guide-to-calculating-costs/data-details/

Trends in the number of specific types of crashes also are presented in Table 39. Those trends are discussed in the appropriate section dealing with that crash category. Additional general statistics compiled by county for crashes involving pedestrians, bicycles, motorcycles, school buses, and trucks are included in Table 40. Numbers of crashes and average annual crashes per 10,000 population are included.

# **10.2 PEDESTRIAN CRASHES**

The number of pedestrian crashes decreased 6.8 percent in 2018 compared to the previous four-year period. There had been a steady decrease in pedestrian crashes from 2000 to 2007 before an increase starting in 2008. Pedestrian collisions are a severe type of crash. In 2018, pedestrian crashes accounted for only 0.8 percent of all crashes but 3.3 percent of injury crashes and 11.6 percent of fatal crashes. The number of pedestrian injury crashes decreased by 8.8 percent in 2018 compared to the previous four-year average while the number of fatal crashes in 2018 increased by 4.1 percent compared to the previous four-year average. Pedestrian injury crashes ranged from 759 in 2018 to 857 in 2015 while fatal crashes ranged from 58 in 2014 to 85 in 2017.

A summary of pedestrian crash statistics by county and population category is presented in Table 41. 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, Caldwell, Mason, Scott, and Jefferson. A similar analysis was performed for pedestrian crashes by city and population category. Results are summarized in Table 42 and the following cities have the highest rates in their respective population categories: Louisville, Covington, Shively, Bellevue, and Prestonsburg. Shively had the highest rate of any city.

## **10.3 BICYCLE CRASHES**

Numbers and rates of motor-vehicle crashes involving bicycles by county are listed in Table 43. Counties were grouped by population category. The counties having the highest crash rate in each category are Carlisle, Caldwell, Woodford, Bell, and Fayette. A similar summary was prepared for cities and the results are presented in Table 44. Cities having the highest rate of bicycle-related crashes in each population category are Lexington, Owensboro, Georgetown, Alexandria, and Paintsville.

The number of bicycle crashes decreased by 19 percent in 2018 compared to the previous four year average. The number of bicycle crashes ranged from 342 in 2018 to 462 in 2014. This is a severe type of crash. For the five years, while bicycle crashes accounted for 0.3 percent of all crashes, they accounted for 1.0 percent of injury crashes and 1.5 percent of fatal crashes. The number of injury crashes decreased by 16.2 percent in 2018 and the number of fatal crashes increased by 42.9 percent (10 fatal crashes compared to an average of 7) compared to the 2014-2017 average. The range in injury crashes was from 233 in 2018 to 312 in 2014 while the number of fatal crashes ranged from 3 in 2014 to 10 in 2018.

#### 10.4 MOTORCYCLE CRASHES

County and city statistics for crashes involving motorcycles are presented in Tables 45 and 46, respectively. For each population category, counties having the highest rates for motorcycle crashes per 10,000 population are Lyon, Powell, Rockcastle, Whitley, and McCracken (Table 45). The highest rate is in Lyon County with the largest number in Jefferson County. From Table 46, those cities having the highest rates in each population category are Louisville, Paducah, Shively, London, and Hazard. The rate in Hazard was substantially higher than other cities.

There was a decrease in motorcycle crashes in 2018 (13.8 percent) compared to the 2014-2017 average. The numbers over the five-year period ranged from a high of 1,785 in 2016 to a low of 1,464 in 2018. This is a severe type of crash. Data in 2018 show that motorcycle crashes accounted for 1.1 percent of all crashes but 4.8 percent of injury crashes and 12.7 percent of fatal crashes. The numbers of injury crashes decreased by 12.6 percent while the number of fatal crashes decreased by 4.5 percent in 2018 compared to the 2014-2017 average. In the five-year period the number of injury crashes ranged from 1,106 in 2018 to 1,377 in 2016 while the number of fatal crashes ranged from 74 in 2014 to 105 in 2016.

# **10.5 SCHOOL BUS CRASHES**

School bus crash statistics were summarized for counties and cities and results are presented in Tables 47 and 48, respectively. Table 47 lists numbers and rates of school bus crashes by county and population category. Counties having the highest rates in each population category are Lee, Owen, Woodford, Clark, and Boone. A similar summary was prepared for cities by population categories, as shown in Table 48. Those cities having the highest rates in each population category are Louisville, Florence, Shively, Versailles, and Prestonsburg. The highest rates were in Shively and Prestonsburg.

The trend analysis presented in Table 39 indicates there was a decrease in this type of crash in 2018 (32.6 percent) compared to the 2014-2017 average. The annual number of this type of crash ranged from a low of 461 in 2018 to a high of 852 in 2015. There was a decrease in injury crashes of 43.8 percent in 2018 compared to 2014-2017. The number of injury crashes ranged from 50 in 2018 to 107 in 2014. There was 1 fatal crash involving a school bus in 2018 and a total of 10 for the five-year period.

## 10.6 TRUCK CRASHES

Truck crashes included both single unit and combination trucks. A truck is defined as a vehicle with a registered weight of 10,000 pounds or more. A summary of those crashes by county is given in Table 49. Counties having the highest rates in each population category are Gallatin, Carroll, Hart, Scott, and Boone. All these counties contain 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 an increase in the number of truck crashes in 2018 (8.8 percent) compared to the previous four-year average. The number of truck crashes ranged from a low of 8,664 in 2014 to a high of 9,898 in 2018. The number of injury crashes increased by 5.9 percent and the number of fatal crashes increased by 16 percent in 2018 compared to the previous four-year average. The number of injury crashes ranged from 1,261 in 2014 to 1,411 in 2018 while the number of fatal crashes ranged from 67 in 2014 to 94 in 2018. In 2018, truck crashes represented 7.4 percent of all crashes, 6.2 percent of injury crashes, and 14.2 percent of fatal crashes.

## **10.7 TRAIN CRASHES**

A summary of motor vehicle-train crashes by county is presented in Table 50. Counties having the highest rates in each population category are Carlisle, Webster, Mercer, Hopkins, and Oldham. The highest rate is in Mercer County with the highest number in Oldham County. There were no train crashes in 72 of the 120 counties in the five-year period of 2014-2018.

The trend analysis for motor vehicle-train crashes is given in Table 39. There was a range in train crashes from 39 in 2018 to 55 in 2014 with a decrease of 15.2 percent in 2018 compared to the previous four-year average. The number of injury crashes decreased 42.9 percent from an average of 14 per year in the previous 4-year period to 8 in 2018. Injury crashes ranged from a low of 8 in 2018 to a high of 17 in 2015. The number of fatal crashes for the five-year period ranged from 2 in 2016 and 2018 to 5 in 2014 with a 33 percent decrease in 2018 compared to the previous four-year average.

## **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 51. 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 and 7.43 percent in 1980 through 1984 but has decreased since that time. Starting in 1995, 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 5.73 percent in 2018.

Numbers in this year's publication may differ from previous versions slightly. The CRASH database is being used from an annual extract rather than from a live (and changing) data set and will not be dynamic as in previous years to make it more consistent with all other data in this publication.

#### 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. 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 newest 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 that 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 been investigated with countermeasures recommended. An effort should be made to review and implement as many of these countermeasures as practical.

A detailed study of all fatal crashes in 2004 was conducted (KTC-05-36). The recommended countermeasures given in that analysis should be considered. Examples of the recommendations include: require driver retesting (specifically, vision testing), improve curve delineation, increase use of milled shoulder and centerline rumble strips, include safety improvements as part of the resurfacing program, and increase awareness of the medical review board process concerning driver licenses. Some of these countermeasures (such as improvements to curve signing and edge line and centerline rumble stripes) are currently being implemented by the Transportation Cabinet.

#### 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.

Counties and cities with various types of critical crash rates are given in Tables 10 through 13, 18, and 19. Coordinated efforts involving engineering, enforcement, education, and emergency medical services should be implemented in counties and cities having critical rates to address those problem 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 (MUTCD). A large number of cities took advantage of this program, which was expanded to include counties. Funding for this program has not been provided for several years. However, training concerning proper signs and markings is offered to county and cities through workshops presented by the Technology Transfer Program at the Kentucky Transportation Center at the University of Kentucky. This training should continue with publicity provided to inform counties and cities that all of their traffic control devices must conform to the standards and guidelines in the MUTCD.

Technical assistance and training is also provided to counties and cities through the Safety Circuit Rider program through the Kentucky Transportation Center at the University of Kentucky. This program should be continued. A limited amount of funding is included for improved signs on a couple of roads in selected counties.

#### 11.3 ALCOHOL-RELATED CRASHES

The number of alcohol-related crashes decreased (13.8%) in 2018 compared to the previous four-year average and has decreased from the level prior to 1996. In general, there has been a decreasing trend 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.

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 that have 100 or more alcohol-related crashes during the five-year analysis period were 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	Crittenden
3	Hart
4	Meade
5	Trimble
6	Nicholas
7	Lincoln
8	Morgan
9	Pike
10	Bell
11	Wayne
12	Spencer
13	Leslie
14	Lawrence
15	Adair
16	Ohio

An analysis was performed for cities similar to that for counties. However, alcohol conviction rates were not available for cities so consideration was given to conviction rates for counties within which a city was located. Cities were chosen if they had at least 100 crashes and a percentage of alcohol-related crashes of approximately five percent (Table 21). No cities met this criteria this year.

# 11.4 DRUG-RELATED CRASHES

Blood tests taken after fatal crashes show more involvement with drugs than alcohol in these crashes. The problem with drugs in traffic crashes is concentrated in southeastern Kentucky. The data show that additional drug education and enforcement is warranted in this region of the state. The difference in the percentage of drug-related fatal crashes identified on the crash report compared to FARS data show that there is a need to supplement the crash report data after the blood tests are obtained.

## 11.5 OCCUPANT PROTECTION

Even though a statewide "primary enforcement" safety belt law has been passed, efforts to increase safety belt usage must continue. The safety belt programs that 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 "Buckle Up Kentucky: It's the Law and It's Enforced" and "Click It or Ticket"

campaigns show that these types of programs can provide benefits 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. 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	<b>County</b>
1	Carlisle
2	Christian
3	Barren
4	Meade
5	Carroll
6	Bracken
7	Lee
8	Morgan
9	Floyd
10	Harlan
11	Rockcastle
12	Woodford
13	Leslie
14	Lawrence
15	Adair
16	Ohio

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. The survey can identify the statewide rate as well as the difference in rates in various regions of the state. The survey results can be used to identify locations where increased education and enforcement would be most beneficial.

# 11.6 SPEED-RELATED CRASHES

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 33) and low average number of speeding convictions per speed-related crash (Table 36) 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 six 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	<b>County</b>
1	McCracken
2	Hopkins
3	Barren
4	Bullitt
5	Oldham
6	Grant
7	Boyle
8	Mason
9	Pike
10	Knox
11	Pulaski
12	Scott
13	None
14	Boyd
15	None
16	Daviess

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 six percent or more of total crashes (Table 34), the following cities were recommended for additional programs of speed enforcement:

- Lexington
- Independence
- Richmond

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 that have much lower crash rates.

Legislation in Kentucky increased the speed limit from 65 mph to 70 mph on rural interstates and parkways. An evaluation (KTC-08-10) found this increase in speed limit resulted in only a small increase in travel speeds. Data show current speeds do not reflect speed limits on several other types of highways. There is a need to review current speed limits and establish speed limits based on the 85<sup>th</sup> percentile speed. Recommendations for speed limits on various types of roads in Kentucky have been developed which note that the large difference in 85<sup>th</sup> percentile speed and posted speed limit on a limited number of high-design type roads (in addition to rural interstates and parkways) justify an increase in speed limit. This has been implemented on a few rural multi-lane roadways.

### 11.7 TEENAGE DRIVERS

Graduated licensing legislation was amended in the 2007 Kentucky legislature to require an intermediate phase to be added to the process between the permit and fully-licensed stages. This change should be evaluated to determine how it has affected crashes for teenage drivers with recommendations made for improvements in the current legislation.

### 11.8 GENERAL CRASH STATISTICS

### **Pedestrians**

The crash rate analyses identified Louisville, Covington, Shively, Bellevue, and Prestonsburg, as cities having the highest pedestrian crash rates (Table 42). 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**

Lexington and Louisville also had a high number of this type of crash (Table 44) (as with pedestrian crashes). A study of this type of crash could be included with the previously mentioned study of pedestrian crashes. It should also be noted that Owensboro and Newport had high rates.

## Motorcycles

Before 2008 the number of total and fatal motorcycle crashes had been increasing the past several years. A study to determine the causes and countermeasures related to motorcycle crashes has been completed (KTC-11-04). The length of time a permit could be maintained without a motorcycle endorsement was changed as a result of this study. The vehicle, roadway, and driver countermeasures provided in this report should be considered. 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 injury and fatal motorcycle crashes has increased dramatically. An investigation should be made to determine the increased cost associated with nonuse of motorcycle helmets. The combination of the decrease in usage rate and the increase in injury and fatal crashes supports the need to reenact the requirement for the use of motorcycle helmets.

Lyon, Powell, Rockcastle, Whitley and McCracken counties had the highest motorcycle crash rate in their population categories (Table 45) and Paducah, Shively, London, and Hazard (Table 46) had the highest motorcycle-crash rate in their population categories. An evaluation of this type of crash in these counties and cities could be warranted.

#### **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 that allows heavy loads. A 1999 research report conducted by the University of Kentucky investigated heavy truck involvement in traffic crashes on all types of highways while a 2002 research report investigated the impact of large trucks on

interstate highway safety. Both of these reports 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 immediately after repeal of the vehicle inspection law (Table 51). 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 to less than that 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 for various types of vehicles.

# **Roadway Contributing Factors**

A recent research study evaluated the coding of police reports relating to roadway contributing factors (KTC-14-08). The recommendations included in this report relating to coding of the police report and related police training should be implemented. The codes included in the analysis were for environmental contributing factors, traffic control devices, road surface condition, weather condition, and vehicular relate factors. The report also describes the type of coordination between police and government agencies which should occur to deal with potential roadway-related issues.

TABLE 1. COMPARISON OF 2014 - 2018 CRASH RATES\*

STATISTIC	2014	2015	2016	2017	2014-2017 Average	2018	Percent Change***	
Crashes	106,122	96,902	116,160	94,461	103,411	106,823	3.3	
Fatal Crashes	538	537	682	544	575	573	-0.4	
Injury Crashes	18,687	16,457	20,529	16,387	18,015	18,031	0.1	
Mileage	28,178	28,247	28,123	28,265	28,203	28,312	0.4	
Crashes Per Mile	3.77	3.43	4.13	3.34	3.67	3.77	2.8	
Vehicle Miles (Billion)	40.14	41.08	41.33	41.66	41.05	41.70	1.6	
AADT	3,903	3,985	4,026	4,038	3,988	4,035	1.2	
Crash Rate**	264	236	281	227	252	256	1.6	
Fatal Crash Rate**	1.34	1.31	1.65	1.31	1.40	1.37	-2.3	
Injury Crash Rate**	47	40	50	39	44	43	-2.3	

<sup>\*</sup> Data apply to streets and highways having known traffic volumes, route numbers, and mileposts.

TABLE 2. STATEWIDE RURAL CRASH RATES BY HIGHWAY TYPE CLASSIFICATION (2014-2018)

	TOTAL		(CF	CRASH RATE RASHES PER 10	
HIGHWAY TYPE	MILEAGE*	AADT	ALL	INJURY	FATAL
One-Lane	25	550	624	60	0.0
Two-Lane	22,882	1,320	262	55	2.8
Three-Lane	29	6,540	280	45	1.4
Four-Lane Divided (Non-Interstate or Par	616 kway)	9,550	119	24	1.2
Four-Lane Undivided	18	13,970	135	28	1.1
Interstate	635	33,910	59	10	0.5
Parkway	497	10,160	66	13	1.0
All	24,702	2,550	163	33	1.7

<sup>\*</sup> Average for the five years.

<sup>\*\*</sup> Crash rates are given in terms of crashes per 100 million vehicle-miles (C/100 MVM).

<sup>\*\*\*</sup> Percent change in 2018 compared to 2014 through 2017 average.

TABLE 3. STATEWIDE URBAN CRASH RATES BY HIGHWAY TYPE CLASSIFICATION (2014-2018)

	TOTAL		(CF	CRASH RATE	-
HIGHWAY TYPE	MILEAGE*	AADT	ALL	INJURY	FATAL
Two-Lane	2,203	5,730	491	76	1.3
Three-Lane	46	10,260	691	93	0.8
Four-Lane Divided (Non-Interstate or Par	815 kway)	18,330	432	71	1.4
Four-Lane Undivided	145	21,120	589	90	1.2
Interstate	217	75,570	127	20	0.4
Parkway	33	14,720	120	22	1.2
All **	3,520	14,120	366	57	1.0

<sup>\*</sup> Average for the five years.

TABLE 4. COMPARISON OF 2014 - 2018 CRASH RATES BY RURAL AND URBAN HIGHWAY TYPE CLASSIFICATION

LOCATION	HIGHWAY TYPE	2014	2015	2016	2017	2014-2017 Average	2018	Percent Change*		
Rural	One-Lane	305	574	729	892	625	902	44.4		
	Two-Lane	278	264	290	236	267	244	-8.5		
	Three-Lane	270	278	296	269	278	285	2.2		
	Four-Lane Divided	141	93	141	95	117	124	5.8		
	(Non-Interstate or Parkway)									
	Four-Lane Undivided	130	85	174	116	126	177	40.2		
	Interstate	57	57	58	57	57	64	11.7		
	Parkway	63	68	70	63	66	69	4.5		
	All	174	161	178	148	165	157	-4.8		
Urban	Two-Lane	530	478	565	437	503	444	-11.7		
	Three-Lane	669	558	795	626	662	805	21.6		
	Four-Lane Divided	436	354	491	373	413	505	22.2		
	Four-Lane Undivided	609	531	663	527	583	616	5.7		
	Interstate	116	128	134	127	127	130	2.8		
	Parkway	97	118	116	117	112	196	75.7		
	All	377	330	412	328	362	383	5.9		

<sup>\*</sup> Percent change from 2014 through 2017 to 2018.

<sup>\*\*</sup> Includes small number of one-, five-, and six-lane highways.

TABLE 5. STATEWIDE CRASH RATES FOR "SPOTS" BY HIGHWAY TYPE CLASSIFICATION (2014-2018)

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	157 144,348 983 12,738 ) 612 23,079 6,120 188,037	83 76,273 98 2,053 59 2,117 1,657 82,341	0.20 0.48 2.39 3.49 5.10 12.38 3.71 0.93	1.87 0.79 0.84 0.36 0.40 0.18 0.20 0.49
Urban	Two-Lane Three-Lane Four-Lane Divided Four-Lane Undivided Interstate Parkway All Urban**	113,162 5,942 117,717 33,023 38,021 1,063 332,298	7,342 153 2,715 485 722 110 11,734	2.09 3.74 6.69 7.71 27.58 5.37 5.15	1.47 2.07 1.30 1.77 0.38 0.36 1.10

<sup>\*</sup> 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 (2014-2018)

RURAL		CRASHES PEI CRASHES PER SPOT* ONE-MILE SECT				
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	1.88 1.89 10.03 6.20 10.31 10.90 3.69 2.28	6 6 19 13 19 20 9 7	6.28 6.31 33.44 20.68 34.38 36.33 12.31 7.61	13 13 49 33 50 52 22 15	
Urban	Two-Lane Three-Lane Four-Lane Divided Four-Lane Undivided Interstate Parkway All Urban**	15.41 38.83 43.35 68.09 52.68 9.65 28.32	26 55 61 90 72 18 43	51.37 129.44 144.50 226.97 175.60 32.16 94.40	70 159 176 266 210 47 120	

<sup>\*</sup> 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 IDENTIFIED SYSTEM AND ALL ROADS (2014-2018)

		TOTAL		ALL F FATAL	ROADS	FATAL C	R INJURY
			3		S		ASHES
TOTAL ASHES	CRASH RATE*	NUMBER	RATE*	NUMBER	RATE*	NUMBER	RATE*
1,282 1,752 1,797 5,231 1,797 5,231 2,930 19,639 2,511 5,289 3,258 8,347 1,330 1,849 8,347 1,340 1,790 2,894 2,792 7,835 5,189 1,529 745 60,118 83,641 745 14,024 923 269 745 60,118 83,592 3,258 1,317 1,584 83,592 1,317 1,584 83,592 1,317 1,584 83,592 1,317 1,584 83,592 1,317 1,584 83,592 1,317 1,584 83,592 1,317 1,584 83,592 1,317 1,584 83,693 1,295 1,295 1,317 1,584 83,693 1,295 1	152 245 179 195 216 259 290 212 215 127 323 348 144 170 147 181 253 179 278 171 178 171 178 171 178 171 178 171 178 171 178 171 178 179 202 215 215 215 215 215 215 215 215 215 21	1,295 2,251 2,579 870 6,815 867 3,115 24,517 3,088 7,496 4,180 1,023 1,250 1,360 1,360 1,360 1,895 5,163 15,452 2,035 2,852 894 9,444 5,810 1,804 956 951 17,926 1,925 2,937 7,702 68,630 1,172 3,937 7,702 1,405 1,925 3,889 4,635 3,180 1,925 1,405 1,925 1,926 1,927 1,926 1,926 1,927 1,926 1,927 1,926 1,927 1,926 1,927 1,928	128 257 211 128 257 211 186 242 234 311 289 338 302 207 191 133 205 159 202 3355 118 141 143 131 144 157 145 452 157 149 149 149 159 165 208 149 175 186 175 186 186 187 187 188 189 189 189 189 189 189 189 189 189	20 24 18 15 44 11 24 56 25 12 21 22 12 21 21 21 21 21 21 21 21 21	2.07 1.52 1.87 2.09 1.44 2.1.45 1.89 2.1.36 1.42 1.36 1.42 1.36 1.42 1.36 1.42 1.36 1.42 1.36 1.42 1.36 1.42 1.36 1.42 1.43 1.43 1.44 1.45 1.46 1.46 1.46 1.46 1.46 1.46 1.46 1.46	271 435 513 183 1,370 202 676 3,561 493 1,200 697 196 440 358 2,143 274 393 749 1,826 149 360 558 224 2,007 917 708 192 310 123 2,688 256 86 174 11,024 223 1,130 1,028 98 240 393 654 990 786 201 593 167 2,536 592 436 1,409 360 593 1,409 360 593 1,409 360 593 1,409 360 593 1,409 360 593 1,409 360 593 1,409 360 593 1,409 360 593 1,409 360 593 1,409 360 593 1,409 360 1,409 360 593 1,409 360 593 1,409 360 593 1,409 360 593 1,409 360 593 1,409 360 393 654 990 786 2,536 592 436 592 436 593 1,409 360 593 1,409 360 593 1,409 360 593 1,409 360 593 1,409 360 593 1,409 360 593 1,502 436 593 1,409 360 593 1,409 360 593 1,409 360 593 1,409 360 593 1,409 360 593 1,409 360 593 436 594 399 247 26,471 1,321 549 3,594	270 429 422 1546 4550 467 142 223 342 370 487 373 495 962 248 466 263 49 765 265 265 265 265 265 265 265 265 265 2
	TOTAL ASHES  1,282 1,752 1,797 5,231 2,930 19,699 2,511 5,289 3,874 1,330 1,849 3,928 1,178 8,347 1,349 3,928 1,178 8,347 1,349 3,928 1,7894 1	ASHES RATE*  1,282 152 1,752 245 1,797 179 746 195 5,231 216 709 86 2,930 259 19,699 296 2,511 300 5,289 298 3,258 290 874 212 1,178 215 856 127 8,347 193 1,330 182 1,849 227 3,928 323 12,468 348 144 1,790 134 2,894 170 792 147 7,835 181 5,189 253 1,529 179 798 197 798 197 798 197 798 197 798 197 863 278 476 171 14,024 422 923 171 14,024 422 923 171 14,024 422 923 171 14,024 422 923 171 14,024 422 923 171 1589 253 1,529 179 798 197 798 197 798 197 798 197 798 197 798 197 863 278 476 171 14,024 422 923 171 15,529 179 798 197 863 278 476 171 14,024 422 923 171 269 178 745 168 60,118 471 1584 200 6,417 256 580 197 1,317 94 1,584 202 3,195 245 636 159 12,949 217 2,162 202 2,095 234 800 232 3,195 245 636 159 12,949 217 2,162 202 2,095 364 2,597 132 6,168 281 2,077 154 322 127 5,278 212 5,278 212 5,278 212 5,327 132 6,168 223 91,215 338 5,327 138 5,327 338 1,896	IDENTIFIED   CRASHES   FOTAL   CRASH   ASHES   RATE*   NUMBER	IDENTIFIED	TOTAL   CRASHE   CRASHES   CRASHES	IDENTIFIED	TOTAL

TABLE 7. CRASH RATES BY COUNTY FOR IDENTIFIED SYSTEM AND ALL ROADS (2014-2018)(continued)

						ROADS		
	IDEN	NTIFIED	TOTAL CRASHES	3	FATAL CRASHE			R INJURY ASHES
_	TOTAL	CRASH	0.0.0		01.01.1			
COUNTY	CRASHES	RATE*	NUMBER	RATE*	NUMBER	RATE*	NUMBER	RATE*
Knox	2,721	211	3,148	195	30	1.9	843	52
Larue <sub>.</sub>	1,309	155	1,526	156	14	1.4	322	33
Laurel	7,220	177	8,949	195	64	1.4	1,923	42
Lawrence Lee	961 297	124 141	1,101 358	121 133	19 8	2.1 3.0	302 77	33 29
Leslie	297 214	46	237	43	10	1.8	86	15
Letcher	1,438	170	1,581	149	18	1.7	580	55
Lewis	601	109	716	107	19	2.8	181	27
Lincoln	1,893	194	2,125	180	29	2.5	501	42
Livingston	848 2,514	132 204	922 2,991	125 202	12 16	1.6 1.1	228 637	31 43
Logan Lyon	1,205	204 91	1,328	94	12	0.9	282	20
McCracken	8,995	258	11,916	289	50	1.2	2,826	69
McCreary	1,046	183	1,086	154	18	2.6	327	46
McLean	1,045	250	1,117	217	_8	1.6	316	62
Madison	10,430	218	13,379	241 141	51 10	0.9 3.1	1,954 295	35 47
Magoffin Marion	936 2,433	181 355	874 2,372	280	19 24	2.8	∠95 459	47 54
Marshall	3,524	158	4,077	158	48	1.9	998	39
Martin	549	142	529	110	6	1.2	127	26
Mason	2,145	246	3,011	293	13	1.3	452	44
Meade Menifee	1,871 282	186 143	2,239 351	176 136	36 10	2.8 3.9	675 103	53 40
Mercer	202 1,753	143 202	2,320	217	20	3.9 1.9	450	40 42
Metcalfe	1,173	242	1,264	225	15	2.7	272	48
Monroe	553	145	585	124	4	8.0	137	29
Montgomery	3,817	292	4,062	259	27	1.7	784	<u>5</u> 0
Morgan	811 4,104	164 283	796	132 241	3 30	0.5 1.7	217 872	36 49
Muhlenberg Nelson	4,104 4,686	203 217	4,261 5,624	241 216	50 51	2.0	1,035	49 40
Nicholas	606	274	750	270	15	5.4	137	49
Ohio	2,919	190	3,202	182	23	1.3	759	43
Oldham	5,285	230	6,044	211	27	0.9	990	34
Owen Owsley	942 216	253 166	1,039 243	225 141	14 8	3.0 4.7	253 71	55 41
Pendleton	1,332	304	1,629	282	10	1.7	332	57
Perry	2,587	201	3,683	237	38	2.4	1,022	66
Pike	5,829	207	6,798	203	78	2.3	1,906	57
Powell	1,502	199	1,436	165	25	2.9	344	40
Pulaski Robertson	8,027 159	287 262	8,782 171	254 209	59 0	1.7 0.0	1,570 36	45 44
Rockcastle	2,702	114	2,729	109	21	0.8	507	20
Rowan	3,042	224	3,973	253	24	1.5	682	43
Russell	1,514	206	1,737	194	20	2.2	321	36
Scott	5,849	167 199	8,262 6,819	210	37 36	0.9	1,496 1,332	38 37
Shelby Simpson	6,337 2,927	167	2,981	191 156	20	1.0 1.0	643	34
Spencer	1,268	219	1,437	190	13	1.7	359	48
Taylor	3,232	353	3,595	313	23	2.0	521	45
Todd	931	182	1,066	172	16	2.6	244	39
Trigg Trimble	1,429 801	138 238	1,771 866	151 210	17 13	1.4 3.1	339 208	29 50
Trimble Union	1,305	238 229	1,524	218	13 14	2.0	206 377	50 54
Warren	16,137	247	23,596	313	80	1.1	4,178	55
Washington	1,218	177	1,365	173	17	2.2	308	39
Wayne	1,311	183	1,686	191	20	2.3	384	43
Webster Whitley	1,148 5,024	157 185	1,279 5,257	149 173	12 47	1.4 1.5	328 1,354	38 45
Wolfe	5,024 724	159	5,257 767	146	20	3.8	1,354	34
Woodford	3,344	188	4,477	222	20	1.0	716	35
STATEWIDE	520,468	253	675,475	276	3,454	1.4	122,026	50
	r 100 million veh			210	5,454	1.4	122,020	50

<sup>30</sup> 

Table 8. COUNTY POPULATIONS (2010 CENSUS) IN DESCENDING ORDER

COUNTY	POPULATION	COUNTY	POPULATION	COUNTY	POPULATION
Jefferson	741,096	Logan	26,835	Breathitt	13,878
Fayette	295,803	Montgomery	26,499	Lewis	13,870
Kenton	159,720	Grayson	25,746	Webster	13,621
Boone	118,811	Woodford	24,939	Jackson	13,494
Warren	113,792	Lincoln	24,742	Magoffin	13,333
Hardin	105,543	Grant	24,662	Caldwell	12,984
Daviess	96,656	Letcher	24,519	Martin	12,929
Campbell	90,336	Taylor	24,512	Butler	12,690
Madison	82,916	Ohio	23,842	Powell	12,613
Bullitt	74,319	Johnson	23,356	Todd	12,460
Christian	73,955	Rowan	23,333	Edmonson	12,161
McCracken	65,565	Clay	21,730	Washington	11,717
Pike	65,024	Anderson	21,421	Bath	11,591
Pulaski	63,063	Mercer	21,331	Leslie	11,310
Oldham	60,316	Wayne	20,813	Green	11,258
Laurel	58,849	Breckinridge	20,059	Monroe	10,963
Boyd	49,542	Bourbon	19,985	Owen	10,841
Franklin	49,285	Allen	19,956	Carroll	10,811
Jessamine	48,586	Marion	19,820	Clinton	10,272
Scott	47,173	Harrison	18,846	Metcalfe	10,099
Hopkins	46,920	Adair	18,656	McLean	9,531
Henderson	46,250	McCreary	18,306	Livingston	9,519
Nelson	43,437	Hart	18,199	Crittenden	9,315
Barren	42,173	Russell	17,565	Trimble	8,809
Shelby	42,074	Mason	17,490	Gallatin	8,589
Floyd	39,451	Simpson	17,327	Hancock	8,565
Calloway	37,191	Spencer	17,061	Bracken	8,488
Graves	37,121	Rockcastle	17,056	Lyon	8,314
Greenup	36,910	Garrard	16,912	Ballard	8,249
Whitley	35,637	Knott	16,346	Lee	7,887
Clark	35,613	Casey	15,955	Elliott	7,852
Knox	31,883	Lawrence	15,860	Wolfe	7,355
Muhlenberg	31,499	Henry	15,416	Nicholas	7,135
Marshall	31,448	Union	15,007	Cumberland	6,856
Harlan	29,278	Pendleton	14,877	Fulton	6,813
Perry	28,712	Estill	14,672	Menifee	6,306
Bell	28,691	Fleming	14,348	Carlisle	5,104
Meade	28,602	Trigg	14,339	Hickman	4,902
Boyle	28,432	Larue	14,193	Owsley	4,755
Carter	27,720	Morgan	13,923	Robertson	2,282
	, -	3	,		

TOTAL 4,339,367

Table 9. AVERAGE AND CRITICAL CRASH RATES BY POPULATION CATEGORY (2014-2018)

POPULATION CATEGORY	NUMBER OF COUNTIES IN CATEGORY	TOTAL POPULATION	TOTAL MILEAGE DRIVEN 100 MVM	_
UNDER 10,000 10,000 - 14,999 15,000 - 24,999 25,000 - 50,000 OVER 50,000	20 26 31 27 16	146,626 329,247 615,022 982,708 2,265,764	94.35 184.26 373.99 582.77 1,212.38	
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 10,000 - 14,999 15,000 - 24,999 25,000 - 50,000 OVER 50,000	13,865 29,178 70,513 133,537 428,382	147 158 189 229 353	180 186 212 248 366	7 8 10 7 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 10,000 - 14,999 15,000 - 24,999 25,000 - 50,000 OVER 50,000	205 362 602 889 1,396	2.17 1.96 1.61 1.53 1.15	6.61 5.35 3.92 3.17 1.89	0 0 0 0 0
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 10,000 - 14,999 15,000 - 24,999 25,000 - 50,000 OVER 50,000	3,278 6,747 14,641 26,163 71,197	34.7 36.6 39.1 44.9 58.7	50.9 50.1 49.7 53.3 63.8	3 3 7 3 3

TABLE 10. CRASH RATES BY COUNTY AND POPULATION CATEGORY (IN DESCENDING ORDER WITH CRITICAL RATES IDENTIFIED)(2014-2018)(ALL ROADS)

WITH CRITICAL RATES IDENTIFIED)(2014-2018)(ALL ROADS)							
COUNTY	NUMBER OF CRASHES	CRASH RATE (CRASHES PER 100 MVM)	COUNTY	NUMBER OF CRASHES	CRASH RATE (CRASHES PER 100 MVM)		
POPIII A	TION CATEGORY UN		ΡΟΡΙΙΙ ΔΤΙ	ON CATEGORY 15,0			
Nicholas	750	270 *	Harrison	2,481	340 *		
Crittenden	951	240 *	Taylor	3.595	313 *		
McLean	1,117	217 *	Mason	3,011	293 *		
Trimble Robertson	<sup>°</sup> 866 171	210 * 209 *	Bourbon Marion	3,088 2,372	289 * 280 *		
Bracken	1,023	207 *	Allen	2.251	257 *		
Ballard	<sup>870</sup>	186 * 165	Rowan	3,973	253 *		
Cumberland Fulton	549 565	165 165	Woodford Union	4,477 1,524	222 * 218 *		
Elliott	297	147	Mercer	2.320	217 *		
Wolfe	767 243	146 141	Anderson	2,579	211 208		
Owsley Hancock	662	136	Garrard Johnson	1,925 2,200	208 200		
Menifee	351	136	Russell	1,737	194		
Lee	358 922	133 125	Wayne Spencer	1,686 1,437	191 190		
Livingston Carlisle	330	118	Ohio	3,202	182		
Hickman	340	114	Lincoln	2.125	180		
Gallatin Lyon	1,405 1,328	95 94	Clay Simpson	1,804 2,981	179 156		
POPULA	TION CATEGORY 10.	.000-14.999	McCreary	1,086	154		
Pendleton	1.629	282 *	Knott	1.157	150		
Metcalfe Owen	1,264 1,039	225 * 225 *	Grant Letcher	3,889 1,581	149 149		
Caldwell	1.895	202 *	Henry	2.027	136		
Green	863	198 *	Hart *	2,836	135		
Clinton Breathitt	956 1,250	197 * 191 *	Breckinridge Casev	1,150 894	133 131		
Jackson	921	186 *	Casey Adair	1.295	128		
Washington Todd	1,365 1.066	173 172	Lawrence Rockcastle	1,101 2,729	121 109		
Fleming	1,172	172 168	POPULATI	ON CATEGORY 25,0	00-50.000		
Powell	1.436	165	Jessamine	7.771	373 *		
Butler Edmonson	1,360 1,005	159 157	Calloway Boyd	5,163 7,496	339 * 338 *		
Larue	1,526	156	Henderson	7.973	303 *		
Trigg Webster	1,771	151 149	Boyle	4,180 7,702	302 * 259 *		
Magoffin	1,279 874	141	Franklin Montgomery	4,062	259 * 259 *		
Carroll	2,035	141	Clark	5.810	244		
Morgan Estill	´796 742	132 130	Barren Muhlenberg	6,815 4,261	242 241		
Monroe	585	124	Hopkins	7.085	241		
Martin	529	110	Perry	3,683	237		
Lewis Bath	716 867	107 94	Bell Graves	3,115 4,635	234 217		
Leslie	237	94 43	Nelson	5,624 8,262	217 216 210		
			Scott	8,262 2,991	210 202		
			Logan Knox	3.148	195		
			Gravson	3.180	195		
			Shelby Greenup	6,819 3,140	191 190		
			Meade	2.239	176		
			Harlan	2,260	175		
			Whitley Floyd	5,257 3,937	173 171		
			Marshall	4.077	158		
			Carter	2,852 ON CATEGORY OVE	143		
			Jefferson	158,997	476 *		
			Fayette	68.630	453 *		
			Daviess Kenton	17.926	422 * 366 *		
			Campbell	28,729 15,452	355		
			Warren	23,596 24,517	313		
			Boone McCracken	24,517 11,916	311 289		
			Pulaski	8.782	254		
			Madison	13,379	241		
			Hardin Oldham	14,833 6,044	213 211		
			Bullitt	10,390	205		
			Pike	6.798	203		
			Christian Laurel	9,444 8,949	196 195		
		33	Laulei	0,343	190		

<sup>\*</sup> Critical crash rate

TABLE 11. CRASH RATES BY COUNTY AND POPULATION CATEGORY (IN DESCENDING ORDER WITH CRITICAL RATES IDENTIFIED)(2014-2018)(IDENTIFIED SYSTEM)

WITH CRITICAL RATES IDENTIFIED)(2014-2018)(IDENTIFIED SYSTEM)							
COUNTY	NUMBER OF CRASHES	CRASH RATE (CRASHES PER 100 MVM)	COUNTY	NUMBER OF CRASHES	CRASH RATE (CRASHES PER 100 MVM)		
POPULAT	ION CATEGORY UN		POPULATION	ON CATEGORY 15.0			
COUNTY  POPULAT  Crittenden Nicholas Robertson McLean Trimble Bracken Fulton Ballard Elliott Cumberland Owsley Hancock Wolfe Carlisle Menifee Lee Livingston Hickman Gallatin Lyon	NUMBER OF	CRASH RATE (CRASHES PER 100 MVM)  DER 10,000  278 * 274 * 262 * 250 * 238 * 212 * 197 * 195 * 178 171 166 159 159 144 143 141 132 127 94 91	POPULATION Harrison Marion Taylor Bourbon Mason Allen Union Rowan Spencer Johnson Russell Garrard Mercer Lincoln Ohio Woodford McCreary Wayne Anderson Clay Knott Letcher Simpson Henry Adair Casey Hart Breckinridge Grant Lawrence Rockcastle POPULATION Jessamine Calloway Boyd Montgomery Boyd Montgomery Boyle Muhlenberg Henderson Bell Franklin Clark Greenup Grayson Nelson Barren Hopkins Knox Graves Logan Harlan Perry Floyd Shelby Meade Whitley Carter Scott Marshall POPULATION Fayette Daviess Campbell Jefferson Kenton Boone Pulaski McCracken Warren	NUMBER OF CRASHES  ON CATEGORY 15,0 2,095 2,433 3,232 2,511 2,145 1,752 1,305 3,048 1,896 1,514 1,584 1,753 1,899 3,344 1,753 1,891 3,344 1,753 1,891 3,344 1,753 1,892 2,397 1,282 2,597 1,282 2,597 3,928 3,018 2,702 ON CATEGORY 25,0 5,327 3,928 5,289 3,817 3,258 4,104 6,168 2,930 6,417 5,189 3,128 4,104 6,168 2,930 6,417 5,189 3,128 4,104 6,168 2,930 6,417 5,189 3,128 4,104 6,168 2,930 6,417 5,189 3,128 2,702 ON CATEGORY OVE 60,102 4,024 2,587 3,816 6,371 1,024 2,587 3,816 6,371 1,024 2,587 3,816 6,371 1,024 2,587 3,816 6,371 1,024 2,587 3,816 6,371 1,024 2,587 3,816 6,371 1,024 2,162 2,587 3,816 6,337 1,040 1,040 1,	364 * 355 * 350 * 246 * 245 * 229 * 224 * 219 * 208 * 206 202 202 194 190 188 183 183 179 179 179 177 126 124 114 152 127 126 124 114 152 127 126 124 114 152 127 126 124 114 152 127 126 124 150 167 158 * 298 * 299 * 256 * 253 * 245 2217 2216 221 201 200 199 186 185 170 167 158 170 167 167 167 167 167 167 167 167 167 167		
			Kenton	91,215 21,761	335 *		
			Campbell	14,024 12,468	348 *		
			Kenton	91,215 21,761 19,699	335 *		
			Boone	19,699	296		
			Pulaski	8,027 8.995	287 258		
			Warren	16,137	247		
			Oldham Madison	5,285 10.430	230 218		
			Hardin	12,949	217		
			Pike Bullitt	5,829 8,347	207 193		
			Christian	7,835	181		
		34	Laurel	7,220	177		

<sup>\*</sup> Critical crash rate

COUNTY CRASHES PER 100 MVM) COUNTY CRASHES  POPULATION CATEGORY UNDER 10,000 POPULATION CATEGORY	CRASH RATE ER OF (CRASHES SHES PER 100 MVM)
POPULATION CATEGORY UNDER 10.000 POPULATION CATE	1 211 100 1111111
	GORY 15,000-24,999
Critenden 310	GORY 15,000-24,999  86

<sup>\*</sup> Critical crash rate

TABLE 13. FATAL CRASH RATES BY COUNTY AND POPULATION CATEGORY (IN DESCENDING ORDER WITH CRITICAL RATES IDENTIFIED)(2014-2018)(ALL ROADS)

	WITH CHITICAL HATE				OD A OLL DATE
COUNTY	NUMBER OF CRASHES	CRASH RATE (CRASHES PER 100 MVM)	COUNTY	NUMBER OF CRASHES	CRASH RATE (CRASHES PER 100 MVM)
POPULA	ATION CATEGORY UND	DER 10.000	POPULATION	ON CATEGORY 15,0	000-24.999
Nicholas	15	5.4	Marion		2.8
Owsley	8 10	4.7	Allen	24 24	2.7
Menifée Wolfe	10 20	3.9	McCreary	18 18	2.6
Crittenden	20 14	3.9 3.8 3.5 3.2 3.1 3.0	Casey Lincoln	29	2.8 2.7 2.6 2.6 2.5
Ballard	15	3.2	Breckinridge	21	2.4
Trimble	13 8 8 5 12 8 6	3.1	Wayne	21 20 25	2.4 2.3 2.3 2.2 2.1 2.0
Lee Carlisle	8	3.0	Bourbon Russell	25	2.3
Elliott	5	2.5 2.5	Clay	20 22 19	2.2
Bracken	1 <u>Ž</u>	2.8 2.5 2.4 2.4 2.0	Lawrence	19	2.1
Cumberland	8	2.4	Union	14 23	2.0 2.0
Hickman Fulton	6	2.0 1.7	Taylor Adair	23 20	2.0 2.0
Livingston	6 12 8	1.6	Mercer	20	1.9
Hancock	8	1.6	Johnson	20	1.8
McLean Gallatin	8 17	1.6 1.1	Letcher Spencer	18 13	1.7 1.7
Lvon	12	0.9	Knott	13 12 18	1.6
Robertson	0	0.0	Anderson	18	1.5
POPULA Breathitt	ATION CATEGORY 10,0	<b>00-14,999</b> 4.4	Rowan Garrard	24 13	1.5 1.4
Green	29 15 19	3.4	Harrison	10	1.4
Magoffin	19	3.4 3.1	Ohio	23	1.3
Owen Jackson	14 15	3.0 3.0	Mason Henry	13 19	1.3 1.3
Powell	25	3.0 2.9	Hart	26	1.2
Lewis	19	2.8	Simpson	20	1.0
Metcalfe	15 16	2.7	Woodford	20 21	1.0
Todd Clinton	12	2.0 2.5	Rockcastle Grant	15	0.8 0.6
Butler	21	2.9 2.8 2.7 2.6 2.5 2.4 2.2	POPULATION	ON CATEGORY 25.0	000-50.000
Washington	17	2.2	Grayson	45 36	2.8 2.8 2.4 2.1
Leslie Estill	10 10	1.8 1.8	Meåde Perry	36 38	2.8 2.4
Pendleton	10	1.7	Graves	44	2.1
Edmonson	10	1.6	Floyd	45	2.0
Caldwell Webster	14 12	1.5 1.4	Harlan Nelson	26 51	2.0 2.0
Trigg	17	1.4	Knox	30	1.9
Larue	14	1.4	Marshall	48	1.9
Bath Martin	11 6	1.2 1.2 1.2 1.2 0.9	Bell Calloway	24 27	1.8 1.8
Carroll	18	1.2	Montaomerv	27 27	1.7
Flemina	6	0.9	Muhlenberd	30	1.7
Monroe Morgan	4 3	0.8 0.5	Boyle Barren	22 44 47	1.6 1.6
Morgan	J	0.5	Whitley	4 <del>4</del> 47	1.5
			Clark	34	1.4
			Hopkins	42 27	1.4 1.3
			Jessamine Carter	27 26	1.3
			Henderson	26 28 18	1.1
			Greenup Logan	18 16	1.1 1.1
			Shelby	36	1.0
			Scott	37	0.9 0.9
			Boyd Franklin	21 20	0.9 0.7
				ON CATEGORY OVI	ER 50,000
			Pike	78 59	2.3 *
			Pulaski	59 64	1.7
			Laurel Jefferson	64 425	1.4 1.3
			Daviess	54	1.3
			Hardin	83	1.2
			McCracken Warren	50 80	1.3 1.2 1.2 1.1
			Bullitt	57	1.1
			Fayette	162	1.1
			Christian Madison	50 51	1.0
			Oldham	27	0.9 0.9
			Campbell	41	0.9
			Kenton Boone	59 56	0.8 0.7
		36	DOOLIG	50	0.1

<sup>\*</sup> Critical crash rate

Campaign									% CRASHES	% CRASHES			SAFETY BELT	% CRASHES
Alawa							2014-2017	2018	INVOLVING	INVOLVING	% FATAL	FATAL	USAGE	INVOLVING
Mart	COUNTY	2014	2015	2016	2017	2018	AVERAGE	% CHANGE*	ALCOHOL	DRUGS	CRASHES	CRASHES	RATE**	SPEEDING
Mart					050		074						40.0	
Membra   Mart														
Belleric 170   170														
Berker   1,772   7,893   1,496   1,472   1,381   1,394   -0,2														
Beh														
Bell														
Bonne   May   Ma														
Bourbon   S76   S26   S96   S61   S74   C99   A7   4.0   1.1   0.04   1.60   C62														
Boych   1,501   1,505   1,545   1,441   1,426   1,516   4,00   2,3   1,6   0,028   1,6   0,069   3,3														
Boyles   177   288   854   816   887   E38   4.7   2.8   1.1   0.03   16.7   69.7   59.8   58.8   58.8   14.7   2.8   1.1   0.03   16.7   69.7   59.8   58.8   58.8   58.8   58.8   58.8   59.8														
Benchell         179         240         222         208         174         212         -180         4,7         0.8         1,17         19,2         33,9         33,8         4,8           Breakmittige         202         274         245         225         225         225         225         225         225         225         227         -40         0.3         1.83         31,1         50.3         55.8           Bullet         2,173         1,274         2,071         2,08         2,08         2,08         0.8         0.9         0.0         <														
Beachtriff   200   274   238   238   238   238   248   349   248   339   232   332   338   348	=													
Brechending   202   240   248   239   239   239   237   47   0.3   1.83   3.11   5.93   5.55														
Balter 2,173 1,971 2,074 2,079 2,039 2,145 2,086 3,08 3,08 3,08 3,08 3,08 3,08 3,08 3,08														
Buffer   291	<del>-</del>													
Calcideneely         38         376         437         387         339         339         31-29         2.3         0.9         0.74         207         70.8         6.93         3.3         2.0         2.0         2.0         1.1         2.0         1.1         2.0         1.1         2.0         1.1         2.0         1.1         2.0         1.1         2.0         1.1         2.0         1.1         2.0         1.1         2.0         1.1         2.0         1.1         2.0         1.1         2.0         1.1         2.0         1.1         2.0         2.0         1.0         3.0         1.0         1.0         3.0         1.0         1.0         1.0         3.0         1.0														
Calmophe    967   1041   1073   1.08   374   1.087   2.70   3.6   1.2   0.52   1.45   6.50   3.24   2.25														
Campbell         2 900         3,13         30,82         3,14         3,078         2,14         3,4         3,13         0,27         11.8         7,58         4,58         0,20         68         1,29         4,58         1,88         2,42         45.2         67.0         88           Carroll         449         439         437         366         592         607         661         4.20         3,3         1,3         0.88         17,7         70,7         5,6           Carroll         449         637         76         592         160         7661         8.2         2.8         1,7         0.91         19.6         1.6         1.1         0.0         1.8         1.1         0.0         1.8         1.1         0.0         0.0         3.3         1.1         1.6         1.1         0.0         0.0         3.3         1.1         0.0         0.0         1.1         1.0         0.0         1.8         1.1         0.0         0.0         3.3         2.1         0.0         0.1         0.0         6.2         2.0         0.0         0.2         0.2         1.0         0.0         0.2         0.2         1.2         0.0         0.2														3.2
Cartille         88         82         53         59         68         -12-9         4-5         1.88         2.42         4-52         67.0         8.8           Carroll         449         439         407         348         394         410         4.0         3.3         1.88         0.77         70.7         5.8           Carroll         449         429         221         198         120         70.0         11.0         1.0														4.5
Cardin         448         439         407         346         394         410         4-0         3.3         1.3         0.88         1,77         0.91         5.5           Carder         540         537         676         592         670         561         8.2         2.8         1,77         0.91         19.8         6.11         6.5           Cinstan         1,707         1,191         1,585         1,567         1,008         1,183         0.9         1.5         1,456         1,77           Clay         370         388         1,587         1,103         1,103         0.0         0.53         21.3         66.8         6.5         4.2           Clinden         117         2,881         347         1,485         365         5.5         4.3         1,12         1,147         1,22         1,22         1,12         66.2         2         1,22         1,12         1,14         2,22         1,14         1,14         2,22         1,14         1,14         2,22         1,14         1,14         2,22         1,14         1,14         2,22         1,14         1,14         2,22         1,14         1,14         2,22         1,14	•													8.8
Carber         540         537         576         592         697         681         8.2         2.8         1.7         0.91         19.6         61.1         6.7           Clasey         172         221         91         227         183         178         3.0         3.9         1.5         201         251         456         1.7           Clark         1.070         1.919         1.955         1.967         1.906         1.183         -0.02         3.2         1.0         0.59         1.58         67.6         4.2           Clark         1.070         1.22         4.20         1.22         4.20         1.22         4.2         1.0         0.59         1.58         6.2         4.2           Clinton         1.11         2.24         2.00         1.00         1.72         1.00         1.17         4.7         1.26         1.21         4.94         4.2         1.8         1.14         1.26         2.01         4.94         4.0         2.2         1.14         1.0         0.0         1.5         6.5         5.4         3.1         5.2         1.1         0.30         1.5         0.0         1.8         2.2         1.0 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>														
Casey         17 2         221         19 1         227         1,833         178         3.0         3.8         2.5         201         251         456         1.1           Cinstian         1,707         1,919         1,955         1,957         1,906         1,885         1.1         3.9         1.0         0.53         21.3         65.8         5.5           Clay         370         388         1,345         1,234         1,105         1,125         1,22         192         44         2.2         1,22         392         64.2         4.8         1,67         1,22         192         4.4         2.2         1,126         2.0         1.1         2.2         1.9         8.1         1,17         4.7         2.1         1.4         3.6         5.2         4.4         4.2         1.1         1.4         3.2         6.2         4.4         4.4         4.2         1.1         1.4         1.2         1.4         4.2         1.1         1.4         2.2         1.4         4.2         1.1         1.4         3.2         3.6         1.5         1.2         4.4         4.2         4.1         4.4         4.2         4.1         4.4         4.2														6.7
Christian         1,707         1,919         1,925         1,987         1,080         1,885         1,1         3,98         1,0         0,53         21,3         68,8         5,56           Clark         1,076         1,138         1,204         1,234         1,160         1,163         0-2         32         1,10         0,53         1,58         67,6         42           Clink         1,111         224         226         208         1,161         1,172         2,18         1,12         1,22         1,20         1,44         2,22           Clinkend         117         208         1,17         4,7         2,1         1,147         1,26         20,1         44,4         2,2           Cumberland         1,28         1,18         1,17         3,08         4,2         1,18         1,46         2,2         4,46         2,4         4,48         2,4         2,18         3,11         3,08         4,2         1,18         1,46         2,2         4,65         2,48         2,4         2,4         3,18         2,2         4,65         3,2         3,18         2,2         1,18         3,18         2,2         1,18         3,18         2,2         1,18 </td <td></td> <td>1.7</td>														1.7
Clark         1,076         1,136         1,204         1,140         1,161         -0.2         3.2         1,0         0.59         15.8         67.6         4.2           Clay         370         388         1,344         345         365         5.4         3.1         5.2         1,22         39.2         0.42         4.8           Cittlenden         197         208         688         190         172         195         -11.7         4.7         2.1         1.47         3.26         58.2         5.5           Cumberland         128         118         128         99         81         117         3.08         4.2         1.8         1.46         22.4         4.65         5.2         5.5         5.3         7.0         3.3         3.1         1.36         3.5         3.4         7.7         1.1         0.30         1.50         7.0         3.3         4.65         2.2         4.7         7.7         1.1         0.30         2.5         3.3         4.6         4.65         4.8         4.2         1.8         1.8         2.9         3.3         3.0         1.0         2.5         3.3         3.0         3.0         1.0         3.2 <td>-</td> <td></td> <td>5.5</td>	-													5.5
Clay         370         388         354         437         345         368         -5.4         3.1         5.2         1.22         39.2         64.2         4.48           Clinton         111         224         20         208         168         199         17.8         2.8         1.7         1.26         20.1         48.4         2.2           Cumberland         198         118         117         4.7         2.1         1.47         2.24         4.65         5.2           Edwiss         3.217         3.63         3.712         3.64         2.7         1.1         0.30         1.50         1.50         1.50         0.24         4.5         2.7         2.1         1.30         1.50         7.09         2.2         2.7         3.4         1.68         2.90         6.1         3.0         3.0         1.00         2.55         6.37         0.8         4.2         1.18         1.46         2.2         1.47         1.0         0.0         2.5         6.37         0.8         4.0         1.0         2.5         6.31         3.0         1.0         2.2         0.0         1.1         0.3         1.0         2.0         0.1         1.0 </td <td></td> <td>4.2</td>														4.2
Climon         111         224         250         208         163         198         -17.8         2.8         1.7         1.26         20.1         49.4         2.2           Crittenden         197         208         118         195         -11.7         4.7         2.1         1.47         32.6         68.2         5.4           Cumberland         126         115         128         99         81         117         30.8         4.2         1.8         1.46         2.24         4.65         2.4           Daviess         3.217         3.87         3.712         3.842         3.718         3.552         4.7         2.7         1.1         0.30         15.0         70.9         3.8           Elliott         44         44         64         67         758         60         -2.9         7.7         3.4         1.68         2.20         64.1         6.4           Estill         147         1.22         14.91         1.413         1.58.2         13.7         3.2         3.6         1.35         23.5         53.1         3.8           Flayette         12,87         14.22         1.411         15.82         13.7         1.1														4.8
Cittleden         197         206         186         190         772         195         -11.7         -4.7         2.1         1.47         32.6         58.2         58.4           Cumberland         128         112         198         81         117         -30.8         4.2         1.8         1.46         22.4         4.65         2.4           Dawless         3.217         3.637         3.712         3.642         3.718         3.552         4.7         2.7         1.1         0.30         15.0         7.0         3.8           Edmonson         217         208         211         191         178         207         -1.39         3.8         0.9         1.00         25.5         63.7         8.8           Elliott         44         102         185         146         162         145         11.7         3.2         3.6         13.5         22.5         53.1         3.8           Estill         147         10.2         18.3         13.6         2.2         15.1         4.1         4.2         7.0         3.3         3.1         0.8         0.24         16.1         4.5         4.2         18.3         18.2         18.2														2.2
Cumberland         126         115         128         99         81         117         -3-08         4.2         1.8         1.46         22.4         46.5         2.4           Daviess         3.217         3.637         3.712         3.642         3.718         3.552         4.7         2.7         1.1         0.30         15.0         70.9         3.8           Elliolt         64         44         64         67         58         60         -2.9         7.7         3.4         1.68         29.0         64.1         6.4           Estill         147         102         185         146         162         11.5         11.7         3.2         3.6         1.35         225         53.1         3.8           Fleytle         12.872         12.787         14.27         1.352         13.5         11.7         3.2         3.6         1.35         23.5         53.1         3.8           Floyd         289         373         789         725         721         16.9         3.9         2.0         0.51         19.0         46.5         3.2           Floyd         298         373         789         725         721														5.4
Daviess         3,217         3,637         3,712         3,712         3,718         1,118         3,718         3,718         1,118         3,718         3,718         1,118         3,718         3,718         1,118         3,718         3,718         3,718         1,118         3,718         3,718         3,718         1,118         3,718         3,718         3,718         4,118         1,108         0,214         1,111         2,818         1,111         2,818         1,111         2,818         1,111         2,818         1,111         2,818         1,111         2,818         1,111         2,818         1,111         2,818         1,111         2,818         1,111         2,818         <				128	99	81								2.4
Elliolit	Daviess					3,718								3.5
Estill         147         102         185         146         662         145         11.7         3.2         3.6         1.35         23.5         53.1         3.8           Fayette         12.72         13.76         14.276         14.13         13.52         21.3         2.0         3.2         20.6         22.7         16.9         3.9         2.0         0.51         19.0         46.5         23.2           Floyd         829         873         789         725         721         280         28.7         4.4         5.4         1.14         28.7         59.9         4.1           Floyd         829         873         778         725         721         80.4         -10.3         4.4         5.4         1.14         28.7         59.9         4.1           Floyd         829         83         73         116         1.54         1.19.9         4.0         4.0         1.14         28.7         59.9         4.1           Fluth         1.2         1.2         1.2         1.2         1.7         1.7         3.3           Gallatin         264         281         280         283         281         1.9         3.2	Edmonson	217	208	211	191	178	207	-13.9	3.8	0.9	1.00	25.5	63.7	8.4
Fayette         12,872         13,787         14,276         14,113         13,582         13,762         -1.3         3.1         0.8         0.24         16.1         75.0         7.3           Flening         218         249         232         208         265         227         16.9         3.9         2.0         0.51         19.0         46.5         3.2           Fluton         1.0         1.622         1.549         1.516         1.544         1.540         0.3         3.3         1.6         0.26         13.3         71.3         4.9           Fulton         124         128         138         73         102         116         -11.9         4.8         1.8         1.06         17.3         62.9         2.1           Gallatin         264         281         281         281         0.99         3.0         0.9         1.21         17.1         71.3         4.3           Garard         380         402         404         373         370         389         4.8         4.0         0.9         1.68         20.4         12.5         67.9           Graval         685         688         688         688         688 <td>Elliott</td> <td>64</td> <td>44</td> <td>64</td> <td>67</td> <td>58</td> <td>60</td> <td>-2.9</td> <td>7.7</td> <td>3.4</td> <td>1.68</td> <td>29.0</td> <td>64.1</td> <td>6.4</td>	Elliott	64	44	64	67	58	60	-2.9	7.7	3.4	1.68	29.0	64.1	6.4
Fleming         218         249         232         208         265         227         16.9         3.9         2.0         0.51         19.0         46.5         3.2           Floyd         829         873         789         725         721         804         -10.3         4.4         5.4         1.14         28.7         59.9         4.1           Frultin         1,47         1,622         1,589         1,544         1,540         0.3         3.3         1.6         0.26         13.3         71.3         4.9           Gullatin         224         128         138         73         102         116         -11.9         4.8         1.8         1.06         17.3         62.9         2.2           Gallatin         224         281         281         283         281         0.9         3.0         0.9         1.21         17.1         17.3         4.3           Grant         685         780         812         780         822         767         7.2         2.8         1.2         0.39         16.8         69.5         7.9           Graves         911         822         467         991         911         8.8 </td <td>Estill</td> <td>147</td> <td>102</td> <td>185</td> <td>146</td> <td>162</td> <td>145</td> <td>11.7</td> <td>3.2</td> <td>3.6</td> <td>1.35</td> <td>23.5</td> <td>53.1</td> <td>3.8</td>	Estill	147	102	185	146	162	145	11.7	3.2	3.6	1.35	23.5	53.1	3.8
Floyd	Fayette	12,872	13,787	14,276	14,113	13,582	13,762	-1.3	3.1	0.8	0.24	16.1	75.0	7.3
Franklin         1,471         1,622         1,549         1,516         1,544         1,540         0.3         3.3         1.6         0.26         13.3         71.3         4.8           Fulton         124         128         138         73         102         116         -11.9         4.8         1.8         1.06         17.3         62.9         2.1           Gallatin         264         281         281         296         283         281         0.9         3.0         0.9         1.21         17.1         71.3         4.3           Garrad         380         402         240         973         370         389         4.8         4.0         0.9         0.68         204         52.5         57.9           Graves         911         822         944         967         991         911         8.8         3.3         1.8         0.95         21.4         66.7         66.0           Grayson         626         686         688         631         649         633         2.6         3.6         1.4         1.42         24.7         64.7         66.7           Green         165         165         162         612	Fleming	218	249	232	208	265	227	16.9	3.9	2.0	0.51	19.0	46.5	3.2
Fulton         124         128         138         73         102         116         -11.9         4.8         1.8         1.06         17.3         62.9         2.1           Gallalin         264         281         281         296         283         281         0.9         3.0         0.9         1.21         17.1         71.3         4.3           Garrard         380         402         400         373         370         389         4.8         4.0         0.9         0.68         20.4         52.5         5.7           Grant         685         780         812         790         822         767         7.2         2.8         12         0.99         16.8         69.5         7.9           Graves         911         822         944         967         991         911         8.8         3.3         1.8         0.95         21.4         66.7         60.0           Graves         911         822         944         967         991         911         8.8         3.3         1.8         0.95         21.4         66.7         60.0           Grayson         626         586         688         631	Floyd	829	873	789	725	721	804	-10.3	4.4	5.4	1.14	28.7	59.9	4.1
Gallatin         264         281         281         296         283         281         0.9         3.0         0.9         1.21         17.1         71.3         4.3           Garrard         380         402         400         373         370         389         4.8         4.0         0.9         0.68         20.4         52.5         5.7           Graves         911         882         790         822         767         7.2         2.8         1.2         0.39         16.8         69.5         7.9           Graves         911         822         791         991         911         8.8         3.3         1.8         0.95         21.4         66.7         60.7           Grayson         626         586         688         631         649         633         2.6         3.6         1.4         1.42         24.7         64.7         3.3           Green         165         163         185         163         187         169         10.7         2.8         0.7         1.74         23.3         48.1         3.2           Hardin         524         659         655         620         612         632	Franklin	1,471	1,622	1,549	1,516	1,544	1,540	0.3	3.3	1.6	0.26	13.3	71.3	4.9
Garrard         380         402         400         373         370         389         4.8         4.0         0.9         0.68         20.4         52.5         5.7           Grant         685         780         812         790         822         767         7.2         2.8         1.2         0.39         16.8         69.5         7.9           Graves         911         822         944         967         991         911         8.8         3.3         1.8         0.95         214         66.7         6.0           Grayson         626         688         681         649         633         2.6         3.6         1.4         1.42         24.7         64.7         3.3           Green         165         163         185         163         187         669         633         2.6         3.6         1.4         1.42         24.7         64.7         3.3           Greenup         594         659         655         620         612         633         3.2         3.1         1.3         0.57         18.9         67.6         2.9           Hancok         120         133         3.04         3.9	Fulton	124	128	138	73	102	116	-11.9	4.8	1.8	1.06	17.3	62.9	2.1
Grant         685         780         812         790         822         767         7.2         2.8         1.2         0.39         16.8         69.5         7.9           Graves         911         822         944         967         991         911         8.8         3.3         1.8         0.95         21.4         66.7         6.0           Grayson         626         586         688         631         649         633         2.6         3.6         1.4         1.42         24.7         64.7         3.3           Greenup         594         655         665         662         612         612         632         3.2         3.1         1.3         0.57         18.9         67.6         2.9           Hancok         120         135         155         137         115         137         -15.9         3.2         0.9         1.21         25.2         73.6         5.7           Hardin         2,843         2,914         2,934         3,095         3,047         2,947         3.4         3.0         1.1         0.56         17.1         66.2         5.3           Hardin         2,53         463         424 <td>Gallatin</td> <td>264</td> <td>281</td> <td>281</td> <td>296</td> <td>283</td> <td>281</td> <td>0.9</td> <td>3.0</td> <td>0.9</td> <td>1.21</td> <td>17.1</td> <td>71.3</td> <td>4.3</td>	Gallatin	264	281	281	296	283	281	0.9	3.0	0.9	1.21	17.1	71.3	4.3
Graves         911         822         944         967         991         911         8.8         3.3         1.8         0.95         21.4         66.7         6.0           Grayson         626         586         688         631         649         633         2.6         3.6         1.4         1.42         24.7         64.7         3.3           Green         165         163         185         163         187         169         10.7         2.8         0.7         1.74         23.3         48.1         3.2           Greenup         594         659         655         620         612         632         3.2         3.1         1.3         0.57         18.9         67.6         2.9           Harlocok         120         135         155         137         115         137         -15.9         3.2         0.9         1.21         25.2         73.6         6.7           Hardin         2,843         2,944         435         443         454         -2.5         3.1         5.1         1.15         26.2         66.3         2.9           Harrison         536         463         542         496         444	Garrard	380	402	400	373	370	389	-4.8	4.0	0.9	0.68	20.4	52.5	5.7
Grayson         626         586         688         631         649         633         2.6         3.6         1.4         1.42         24.7         64.7         3.3           Green         165         163         185         163         187         169         10.7         2.8         0.7         1.74         23.3         48.1         3.2           Greenup         594         659         655         620         612         632         3.2         3.1         1.3         0.57         18.9         67.6         2.9           Hancock         120         135         155         137         115         137         -15.9         3.2         0.9         1.21         252         73.6         5.7           Hardin         2,843         2,914         2,934         3,095         3,047         2,947         3.4         3.0         1.1         0.56         17.1         66.2         5.3           Hardin         524         464         394         435         443         454         -2.5         3.1         5.1         1.15         26.2         66.3         2.9           Harrison         536         468         535         555	Grant	685	780	812	790	822	767	7.2	2.8	1.2	0.39	16.8	69.5	7.9
Green         165         163         185         163         187         169         10.7         2.8         0.7         1.74         23.3         48.1         3.2           Greenup         594         659         655         620         612         632         -3.2         3.1         1.3         0.57         18.9         67.6         2.9           Hancock         120         135         155         137         115         137         -15.9         3.2         0.9         121         252         73.6         5.7           Hardin         2,843         2,914         2,934         3,095         3,047         2,947         3.4         3.0         1.1         0.56         17.1         66.2         5.3           Harlan         524         464         394         435         443         454         -2.5         3.1         5.1         1.15         26.2         66.3         2.9           Harlan         532         663         535         555         578         566         2.4         2.3         1.1         0.92         19.0         40.4         5.9           Henderson         1,536         1,687         1,671         <	Graves	911	822	944	967	991	911	8.8	3.3	1.8	0.95	21.4	66.7	6.0
Greenup         594         659         655         620         612         632         -3.2         3.1         1.3         0.57         18.9         67.6         2.9           Hancock         120         135         155         137         115         137         -15.9         3.2         0.9         1.21         25.2         73.6         5.7           Hardin         2,843         2,914         2,934         3,095         3,047         2,947         3.4         3.0         1.1         0.56         17.1         66.2         5.3           Harlan         524         464         394         435         443         454         -2.5         3.1         5.1         1.15         26.2         66.3         2.9           Harrison         536         463         554         496         444         509         -12.8         3.0         1.1         0.40         17.6         66.2         6.3         2.9           Harrison         536         638         535         555         578         565         2.4         2.3         1.1         0.92         19.0         40.4         5.9           Henderson         1,536         1,687	Grayson	626	586	688	631	649	633	2.6	3.6	1.4	1.42	24.7	64.7	3.3
Hancock         120         135         155         137         115         137         -159         3.2         0.9         1.21         25.2         73.6         5.7           Hardin         2,843         2,914         2,934         3,095         3,047         2,947         3.4         3.0         1.1         0.56         17.1         66.2         5.3           Harlan         524         464         394         435         443         454         -2.5         3.1         5.1         1.15         26.2         66.3         2.9           Harrison         536         463         542         496         444         509         -12.8         3.0         1.1         0.40         17.6         59.9         5.4           Hart         532         636         535         555         578         565         2.4         2.3         1.1         0.92         19.0         40.4         5.9           Henderson         1,536         1,687         1,671         1,509         1,570         1,601         -1.9         2.4         1.0         0.35         17.7         71.8         3.3           Henry         401         411         445	Green	165	163	185	163	187	169	10.7	2.8	0.7	1.74	23.3	48.1	3.2
Hardin         2,843         2,914         2,934         3,095         3,047         2,947         3,4         3,0         1,1         0.56         17.1         66.2         5.3           Harlan         524         464         394         435         443         454         -2.5         3,1         5,1         1,15         26.2         66.3         2,9           Harrison         536         463         542         496         444         509         -12.8         3,0         1,1         0,40         17.6         59.9         5,4           Hart         532         636         535         555         578         565         2,4         2,3         1,1         0,92         19.0         40.4         5.9           Henderson         1,536         1,687         1,671         1,509         1,570         1,601         -1.9         2,4         1,0         0,35         17.7         71.8         3,3           Henderson         401         411         445         395         375         413         -9.2         4,3         0,8         0,94         17.8         70.8         6,4           Hopkins         1,430         1,422         1,3	Greenup	594	659	655	620	612	632	-3.2	3.1	1.3	0.57	18.9	67.6	2.9
Harlan         524         464         394         435         443         454         -2.5         3.1         5.1         1.15         26.2         66.3         2.9           Harrison         536         463         542         496         444         509         -12.8         3.0         1.1         0.40         17.6         59.9         5.4           Hart         532         636         535         555         578         565         2.4         2.3         1.1         0.92         19.0         40.4         5.9           Henderson         1,536         1,687         1,671         1,509         1,570         1,601         -1.9         2.4         1.0         0.35         17.7         71.8         3.3           Henry         401         411         445         395         375         413         -9.2         4.3         0.8         0.94         17.8         70.8         6.4           Hickman         80         56         62         87         55         71         -22.8         4.7         1.5         1.76         25.6         53.5         7.1           Hopkins         1,438         1,442         1,329 <td< td=""><td>Hancock</td><td></td><td></td><td></td><td></td><td></td><td></td><td>-15.9</td><td></td><td>0.9</td><td></td><td></td><td></td><td>5.7</td></td<>	Hancock							-15.9		0.9				5.7
Harrison         536         463         542         496         444         509         -12.8         3.0         1.1         0.40         17.6         59.9         5.4           Hart         532         636         535         555         578         565         2.4         2.3         1.1         0.92         19.0         40.4         5.9           Henderson         1,536         1,687         1,671         1,509         1,570         1,601         -1.9         2.4         1.0         0.35         17.7         71.8         3.3           Henry         401         411         445         395         375         413         -9.2         4.3         0.8         0.94         17.8         70.8         6.4           Hickman         80         56         62         87         55         71         -22.8         4.7         1.5         1.76         25.6         53.5         7.1           Hopkins         1,439         1,442         1,329         1,386         1.425         -2.7         2.4         1.1         0.59         15.5         70.5         5.3           Jackson         198         202         25         178	Hardin	2,843	2,914	2,934	3,095	3,047	2,947	3.4	3.0	1.1	0.56	17.1	66.2	5.3
Hart         532         636         535         555         578         565         2.4         2.3         1.1         0.92         19.0         40.4         5.9           Henderson         1,536         1,687         1,671         1,509         1,570         1,601         -1.9         2.4         1.0         0.35         17.7         71.8         3.3           Henry         401         411         445         395         375         413         -9.2         4.3         0.8         0.94         17.8         70.8         6.4           Hickman         80         56         62         87         55         71         -22.8         4.7         1.5         1.76         25.6         53.5         7.1           Hopkins         1,430         1,498         1,442         1,329         1,386         1,425         -2.7         2.4         1.1         0.59         15.5         70.5         5.3           Jackson         198         200         205         178         140         195         -28.3         2.7         1.7         1.63         26.8         64.5         61.1           Jefferson         29,687         32,93         33,914		524	464		435	443	454			5.1		26.2	66.3	2.9
Henderson         1,536         1,687         1,671         1,509         1,570         1,601         -1.9         2.4         1.0         0.35         17.7         71.8         3.3           Henry         401         411         445         395         375         413         -9.2         4.3         0.8         0.94         17.8         70.8         6.4           Hickman         80         56         62         87         55         71         -22.8         4.7         1.5         1.76         25.6         53.5         7.1           Hopkins         1,430         1,498         1,422         1,329         1,386         1,425         -2.7         2.4         1.1         0.59         15.5         70.5         5.3           Jackson         198         200         205         178         140         195         -28.3         2.7         1.7         1.63         26.8         64.5         6.1           Jefferson         29,887         32,391         31,816         30,891         32,027         -3.5         2.4         0.7         0.27         16.6         81.1         3.4           Jessamine         1,464         1,467         1,597 <td>Harrison</td> <td>536</td> <td>463</td> <td>542</td> <td>496</td> <td>444</td> <td>509</td> <td>-12.8</td> <td>3.0</td> <td>1.1</td> <td></td> <td>17.6</td> <td>59.9</td> <td>5.4</td>	Harrison	536	463	542	496	444	509	-12.8	3.0	1.1		17.6	59.9	5.4
Henry         401         411         445         395         375         413         -9.2         4.3         0.8         0.94         17.8         70.8         6.4           Hickman         80         56         62         87         55         71         -22.8         4.7         1.5         1.76         25.6         53.5         7.1           Hopkins         1,430         1,498         1,442         1,329         1,386         1,425         -2.7         2.4         1.1         0.59         15.5         70.5         5.3           Jackson         198         200         205         178         140         195         -28.3         2.7         1.7         1.63         26.8         64.5         6.1           Jefferson         29,687         32,639         33,914         31,866         30,891         32,027         -3.5         2.4         0.7         0.27         16.6         81.1         3.4           Jessamine         1,464         1,467         1,597         1,699         1,534         1,534         6.5         3.2         1,5         0.35         17.0         66.9         5.6           Johnson         459         441		532	636	535	555	578	565	2.4	2.3	1.1	0.92	19.0	40.4	5.9
Hickman         80         56         62         87         55         71         -22.8         4.7         1.5         1.76         25.6         53.5         7.1           Hopkins         1,430         1,498         1,442         1,329         1,386         1,425         -2.7         2.4         1.1         0.59         15.5         70.5         5.3           Jackson         198         200         205         178         140         195         -28.3         2.7         1.7         1.63         26.8         64.5         6.1           Jefferson         29,687         32,639         33,914         31,866         30,891         32,027         -3.5         2.4         0.7         0.27         16.6         81.1         3.4           Jessamine         1,464         1,467         1,597         1,609         1,634         1,534         6.5         3.2         1.5         0.35         17.0         65.9         5.6           Johnson         459         441         457         412         431         442         -2.5         2.8         3.3         0.91         25.0         68.4         3.2           Kenton         5,309         5,677 <td>Henderson</td> <td>1,536</td> <td>1,687</td> <td>1,671</td> <td>1,509</td> <td>1,570</td> <td>1,601</td> <td>-1.9</td> <td>2.4</td> <td>1.0</td> <td>0.35</td> <td>17.7</td> <td>71.8</td> <td>3.3</td>	Henderson	1,536	1,687	1,671	1,509	1,570	1,601	-1.9	2.4	1.0	0.35	17.7	71.8	3.3
Hopkins         1,430         1,498         1,442         1,329         1,386         1,425         -2.7         2.4         1.1         0.59         15.5         70.5         5.3           Jackson         198         200         205         178         140         195         -28.3         2.7         1.7         1.63         26.8         64.5         6.1           Jefferson         29,687         32,639         33,914         31,866         30,891         32,027         -3.5         2.4         0.7         0.27         16.6         81.1         3.4           Jessamine         1,464         1,467         1,597         1,609         1,634         1,534         6.5         3.2         1.5         0.35         17.0         65.9         5.6           Johnson         459         441         457         412         431         442         -2.5         2.8         3.3         0.91         25.0         68.4         3.2           Kenton         5,309         5,677         5,901         5,872         5,714         2.8         3.4         1.3         0.21         12.5         77.5         5.6	-													6.4
Jackson         198         200         205         178         140         195         -28.3         2.7         1.7         1.63         26.8         64.5         6.1           Jefferson         29,687         32,639         33,914         31,866         30,891         32,027         -3.5         2.4         0.7         0.27         16.6         81.1         3.4           Jessamine         1,464         1,467         1,597         1,609         1,634         1,534         6.5         3.2         1.5         0.35         17.0         65.9         5.6           Johnson         459         441         457         412         431         442         -2.5         2.8         3.3         0.91         25.0         68.4         3.2           Kenton         5,309         5,677         5,901         5,872         5,714         2.8         3.4         1.3         0.21         12.5         77.5         5.6	Hickman	80	56	62	87	55	71	-22.8	4.7	1.5	1.76	25.6	53.5	7.1
Jefferson         29,687         32,639         33,914         31,866         30,891         32,027         -3.5         2.4         0.7         0.27         16.6         81.1         3.4           Jessamine         1,464         1,467         1,597         1,609         1,634         1,534         6.5         3.2         1.5         0.35         17.0         65.9         5.6           Johnson         459         441         457         412         431         442         -2.5         2.8         3.3         0.91         25.0         68.4         3.2           Kenton         5,309         5,677         5,901         5,970         5,872         5,714         2.8         3.4         1.3         0.21         12.5         77.5         5.6	•	1,430	1,498	1,442	1,329	1,386	1,425	-2.7	2.4	1.1	0.59	15.5	70.5	5.3
Jessamine         1,464         1,467         1,597         1,699         1,634         1,534         6.5         3.2         1.5         0.35         17.0         65.9         5.6           Johnson         459         441         457         412         431         442         -2.5         2.8         3.3         0.91         25.0         68.4         3.2           Kenton         5,309         5,677         5,901         5,970         5,872         5,714         2.8         3.4         1.3         0.21         12.5         77.5         5.6														6.1
Johnson         459         441         457         412         431         442         -2.5         2.8         3.3         0.91         25.0         68.4         3.2           Kenton         5,309         5,677         5,901         5,970         5,872         5,714         2.8         3.4         1.3         0.21         12.5         77.5         5.6														3.4
Kenton 5,309 5,677 5,901 5,970 5,872 5,714 2.8 3.4 1.3 0.21 12.5 77.5 5.6														5.6
														3.2
Knott 266 228 224 222 217 235 -7.7 3.2 4.5 1.04 31.7 64.5 2.4														5.6
	Knott	266	228	224	222	217	235	-7.7	3.2	4.5	1.04	31.7	64.5	2.4

							2018	% CRASHES	% CRASHES		% INJURY OR S	AFETY BELT	% CRASHES
	NUM	MBER OF	CRASHE	S BY YEA	AR	2014-2017	PERCENT	INVOLVING	INVOLVING	% FATAL	FATAL	USAGE	INVOLVING
COUNTY	2014	2015	2016	2017	2018	AVERAGE	% CHANGE*	ALCOHOL	DRUGS	CRASHES	CRASHES	RATE**	SPEEDING
Knox	465	717	690	632	644	626	2.9	2.6	4.3	0.95	26.8	66.5	6.3
Larue	236	317	331	322	320	302	6.1	4.1	1.7	0.92	21.1	58.2	6.4
Laurel	1,605	1,788	1,778	1,929	1,849	1,775	4.2	2.2	1.9	0.72	21.5	69.2	4.0
Lawrence	207	230	213	224	227	219	3.9	4.2	1.6	1.73	27.4	63.2	2.8
Lee	74	76	68	76	64	74	-12.9	5.0	2.8	2.23	21.5	51.9	4.2
Leslie	68	29	75	40	25	53	-52.8	2.1	3.0	4.22	36.3	59.4	4.6
Letcher	308	240	307	353	373	302	23.5	3.9	4.2	1.14	36.7	51.2	4.6
Lewis	123	108	139	170	176	135	30.4	5.0	2.7	2.65	25.3	56.5	4.7
Lincoln	411	438	435	432	409	429	-4.7	2.9	1.7	1.36	23.6	62.9	3.2
Livingston	181	174	186	190	191	183	4.5	3.5	1.5	1.30	24.7	71.1	6.4
Logan	552	612	647	569	611	595	2.7	3.0	0.8	0.53	21.3	60.4	4.1
Lyon	261	295	297	224	251	269	-6.8	3.5	1.7	0.90	21.2	82.9	6.8
McCracken	2,015	2,394	2,576	2,403	2,528	2,347	7.7	2.8	1.0	0.42	23.7	65.1	5.4
McCreary MoLeon	206 179	238 233	216 228	213 244	213 233	218 221	-2.4	3.1 4.1	4.1 1.7	1.66 0.72	30.1 28.3	51.3	5.2 5.4
McLean Madison	2,522	2,763	2,775	2,778	2,541	2,710	5.4 -6.2	3.2	1.4	0.72	14.6	60.3 69.4	7.5
Magoffin	180	184	169	158	183	173	5.9	3.8	5.4	2.17	33.8	59.7	4.9
Marion	430	500	492	506	444	482	-7.9	4.5	1.2	1.01	19.4	43.1	2.4
Marshall	726	837	829	872	813	816	-0.4	3.7	1.4	1.18	24.5	60.7	5.5
Martin	121	14	138	119	137	98	39.8	3.0	2.8	1.13	24.0	55.4	2.6
Mason	628	613	619	610	541	618	-12.4	5.1	1.6	0.43	15.0	53.5	5.9
Meade	404	472	487	472	404	459	-11.9	5.9	0.9	1.61	30.1	47.3	4.3
Menifee	66	56	102	67	60	73	-17.5	4.3	2.0	2.85	29.3	48.9	2.0
Mercer	483	498	484	422	433	472	-8.2	4.3	1.3	0.86	19.4	60.6	5.3
Metcalfe	224	249	273	261	257	252	2.1	3.7	0.7	1.19	21.5	42.4	4.1
Monroe	35	74	167	156	153	108	41.7	2.7	1.9	0.68	23.4	40.1	3.6
Montgomery	831	827	839	858	707	839	-15.7	3.4	1.9	0.66	19.3	47.1	3.9
Morgan	150	137	148	184	177	155	14.4	3.4	1.5	0.38	27.3	57.9	6.8
Muhlenberg	832	892	921	800	816	861	-5.3	2.6	1.9	0.70	20.5	61.8	3.8
Nelson	1,111	1,125	1,120	1,120	1,148	1,119	2.6	4.2	1.0	0.91	18.4	60.1	3.8
Nicholas	149	154	149	152	146	151	-3.3	4.5	2.3	2.00	18.3	50.6	5.3
Ohio	559	612	657	700	674	632	6.6	3.2	1.6	0.72	23.7	69.0	5.2
Oldham	1,164	1,179	1,266	1,141	1,294	1,188	9.0	3.3	0.8	0.45	16.4	83.0	5.1
Owen	131	241	232	210	225	204	10.6	4.1	1.8	1.35	24.4	57.7	5.9
Owsley	35 296	57	92	34 323	25	55	-54.1	2.5	2.5	3.29	29.2	41.1 68.5	6.2 5.0
Pendleton Perry	768	358 743	337 728	323 707	315 737	329 737	-4.1 0.1	3.6 2.8	1.4 3.4	0.61 1.03	20.4 27.7	56.6	2.1
Pike	1,373	1,425	1,347	1,338	1,315	1,371	-4.1	4.1	5.0	1.15	28.0	62.3	5.5
Powell	293	336	327	252	228	302	-24.5	2.9	1.2	1.74	24.0	64.6	2.5
Pulaski	1,612	1,815	1,814	1,793	1,748	1,759	-0.6	2.2	1.0	0.67	17.9	54.2	5.2
Robertson	19	25	52	44	31	35	-11.4	2.9	1.8	0.00	21.1	53.3	6.4
Rockcastle	477	561	521	536	634	524	21.1	1.9	1.7	0.77	18.6	76.9	6.4
Rowan	791	834	830	826	692	820	-15.6	2.7	1.5	0.60	17.2	54.6	4.9
Russell	310	346	377	363	341	349	-2.3	2.9	1.6	1.15	18.5	58.7	2.2
Scott	1,515	1,583	1,670	1,663	1,831	1,608	13.9	3.4	0.8	0.45	18.1	60.8	5.0
Shelby	1,318	1,285	1,429	1,362	1,425	1,349	5.7	3.6	1.0	0.53	19.5	80.0	4.7
Simpson	599	548	608	630	596	596	0.0	3.7	0.9	0.67	21.6	60.0	8.6
Spencer	291	262	276	304	304	283	7.3	5.4	1.7	0.90	25.0	70.0	6.1
Taylor	646	727	742	760	720	719	0.2	2.7	0.9	0.64	14.5	53.3	4.1
Todd	189	197	222	236	222	211	5.2	3.4	1.0	1.50	22.9	63.8	7.1
Trigg	319	355	402	363	332	360	-7.7	3.7	1.8	0.96	19.1	64.0	6.8
Trimble	164	179	156	192	175	173	1.3	4.3	1.6	1.50	24.0	77.1	6.4
Union	303	316	306	265	334	298	12.3	3.3	1.2	0.92	24.7	76.3	6.6
Warren	4,233	4,605	4,945	5,043	4,770	4,707	1.3	2.9	0.8	0.34	17.7	63.0	4.5
Washington	288	271	270	254	282	271	4.2	3.9	0.7	1.25	22.6	46.5	5.9
Wayne	349	369	360	257	351	334	5.2	2.4	0.9	1.19	22.8	47.0	5.9
Webster	293	275	248	228	235	261	-10.0	2.0	1.4	0.94	25.6	66.3	4.1
Whitley Wolfe	1,068 154	1,149 176	1,008 136	1,028 151	1,004 150	1,063 154	-5.6 -2.8	2.6 2.3	2.3 2.1	0.89 2.61	25.8 23.6	74.0 59.4	5.8 6.3
Woodford	853	851	943	933	897	895	-2.6	3.8	0.8	0.45	16.0	70.6	6.8

<sup>\*</sup> Percent change in the 2018 crash total from the previous four year total

<sup>\*\*</sup> Based on observation data collected by Area Development Districts in 2006 (no data were collected since 2006)

TABLE 15. CRASH RATES FOR CITIES HAVING POPULATION OVER 2,500 (FOR IDENTIFIED SYSTEM AND ALL ROADS FOR 2014-2018)

		IDENTIFIED		ALL RO	
CITY	POPULATION	TOTAL CRASHES	CRASH RATE*	TOTAL CRASHES	CRASH RATE**
Louisville	597,337	33,489	350	109,001	37
Lexington	295,803	15,191	885	55,040	37
Bowling Green	58,067	4,341	381	13,844	48
Owensboro	57,265	4,694	866	11,265	39
Covington	40,640	5,219	375	7,293	36
Hopkinsville	31,577	2,800	325	4,308	27
Richmond	31,364	858	667	5,795	37
Florence	29,951	5,563	306	9,042	60
Georgetown	29,098	1,265	499	3,972	27
Henderson	28,757	2,344	408	4,572	32
Elizabethtown	28,531	2,350	238	5,417	38
Nicholasville	28,015	1,081	357	4,161	30
Jeffersontown	26,595	969	355	4,209	32
Frankfort	25,527	3,237	420	4,263	33
Paducah	25,024	1,812	387	6,412	51
Independence	24,757	1,995	368	1,797	15
Radcliff	21,688	743	660	2,414	22
Ashland	21,684	1,533	509	3,555	33
Madisonville	19,591	1,725	517	3,006	31
Winchester	18,368	1,736	896	2,915	32
Erlanger	18,082	1,705	1,172	3,499	39
Murray	17,741	1,430	578 675	2,727	31
Fort Thomas	16,325	525 729	675	1,250	15 32
Danville	16,218 15,273	2,167	500 1,254	2,614 3,856	3∠ 51
Newport Shively	15,264	2,107 581	754	4,067	53
Shelbyville	14,045	931	737	2,158	31
Glasgow	14,028	735	617	2,697	39
Berea	13,561	878	486	1,968	29
Bardstown	11,700	1,101	468	2,596	44
Shepherdsville	11,222	1,165	828	3,254	58
Somerset	11,196	1,604	475	3,944	71
Lyndon	11,002	***	***	860	16
Lawrenceburg	10,505	320	417	934	18
Mayfield	10,024	262	618	1,559	31
Mount Washington	9,117	666	636	1,333	29
Campbellsville	9,108	1,367	718	1,922	42
Maysville	9,011	816	345	1,558	35
Edgewood	8,575	223	1,174	755	18
Versailles	8,568	409	498	1,355	32
Paris	8,553	1,084	494	1,378	32
Alexandria	8,477	842	373	1,118	26
Elsmere	8,451	411	300	537	13
Franklin	8,408	371	484	1,498	36
Harrodsburg	8,340	364	413	1,032	25
Fort Mitchell	8,207	783	952	1,346	33
La Grange	8,082	234	509	1,088	27
London	7,993	1,880	273	3,035	76
Villa Hills	7,489	.56	273	204	5
Oak Grove	7,489	***	*** 40E	1,122	30
Flatwoods	7,423	428	435	421	11
Corbin	7,304 7,319	499 ***	651 ***	1,573	43 57
Middletown Russellville	7,218 6,960	421	314	2,057 1,027	57 30
Highland Heights	6,923	781	251	1,061	31
Pikeville	6,903	1,223	294	2,345	68
Mount Sterling	6,895	911	816	1,456	42
Morehead	6,845	934	440	2,210	65
Leitchfield	6,699	744	851	1,149	34
Taylor Mill	6,604	227	492	890	27
Cynthiana	6.402	343	614	910	28
Princeton	6,329	732	562	864	27
Monticello	6,188	290	193	1,029	33
Central City	5,978	615	506	816	27

TABLE 15. CRASH RATES FOR CITIES HAVING POPULATION OVER 2,500 (FOR IDENTIFIED SYSTEM AND ALL ROADS FOR 2014-2018)(continued)

		IDENTIFIED		ALL RO	
CITY	POPULATION	TOTAL CRASHES	CRASH RATE*	TOTAL CRASHES	CRASH RATE**
CITT	FOFULATION	CHASTILS	NATE	CHASITES	NATE
Bellevue	5,955	406	1,333	673	23
Cold Spring	5,912	745	416	1,037	35
Fort Wright	5.723	930	545	2,255	79
Lebanon	5.539	800	615	936	34
Union	5,379	***	***	628	23
Dayton	5,338	38	404	365	14
Williamsburg	5,245	523	195	779	30
Westwood	4.746	***	***	***	***
Crestwood	4,531	***	***	803	35
Vine Grove	4,520	285	314	347	15
Hazard	4,456	545	228	1,704	77
Columbia	4,452	136	326	555	25
Ludlow	4.407	249	840	334	15
Benton	4,349	278	429	754	35
Greenville	4,312	409	590	686	32
Scottsville	4,226	441	466	679	32
	4,220 4.217	452	756	702	33
Grayson		452 222	430	702 490	
Carrollton	3,938	222 ***	430 ***		25
Williamstown	3,925	***	***	523	27
Crittenden	3,815			339	18
Southgate	3,803	392	753	643	34
Crescent Springs	3,801	***	***	923	49
Wilmore	3,686	133	461	264	14
Walton	3,635	628	1,146	808	45
Stanford	3,487	237	308	547	31
Paintsville	3,459	402	458	889	51
Lancaster	3,442	235	726	439	26
West Liberty	3,435	127	283	162	9
Beaver Dam	3,409	226	417	485	29
Russell	3,380	563	408	712	42
Morganfield	3,285	147	277	363	22
Prestonsburg	3,255	501	404	1,308	80
Hodgenville	3,206	74	242	357	22
Providence	3,193	100	286	149	9
Barbourville	3,165	239	495	590	37
Crestview Hills	3,148	***	***	1,555	99
Marion	3,039	123	614	246	16
Wilder	3,035	***	***	967	64
Park Hills	2,970	275	775	120	8
Indian Hills	2,868	***	***	185	13
Dawson Springs	2,764	186	534	198	14
Stanton	2,733	385	422	342	25
Irvine	2,715	98	244	122	9
Hartford	2,672	109	379	277	21
Lakeside Park	2,668	410	624	246	18
Flemingsburg	2,658	44	649	413	31
Brandenburg	2,643	197	362	586	44
Calvert City	2,566	171	199	449	35
Cadiz	2,558	99	149	441	35
Eddyville	2,554	157	111	346	27
Springfield	2,519	94	275	359	29
opinigneiu	۷,519	34	213	559	29

<sup>\*</sup> 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 (2014-2018) (ALL ROADS)

		FATAL CF	ASHES	PEDEST MOTOR VI CRAS	EHICLE	BICY( MOTOR \ CRAS	/EHICLE	MOTOR CRAS		PERCENT OF CRASHES INVOLVING	PERCENT OF CRASHES INVOLVING
CITY POPUI	LATION	NUMBER	RATE*	NUMBER	RATE*	NUMBER	RATE*	NUMBER	RATE*	SPEEDING	ALCOHOL
Louisville	597,337	304	1.02	1,483	5.00	532	1.80	1,129	3.8	3.5	2.4
	295,803	132	0.89	638	4.30	288	1.90	474	3.2	7.3	3.1
Bowling Green	58,067	22	0.76	94	3.20	66	2.30	131	4.5	3.7	2.3
Owensboro	57,265	18	0.63	86	3.00	81	2.80	123	4.3	2.4	2.4
Covington	40,640	11	0.54	130	6.40	53	2.60	60	3.0	3.2	4.3
Hopkinsville	31,577	13	0.82	31	2.00	22	1.40	65	4.1	4.2	3.3
Richmond	31,364	13	0.83	38	2.40	22	1.40	63	4.0	7.7	2.8
Florence	29,951	17	1.14	71	4.70	15	1.00	87	5.8	4.4	2.5
Georgetown	29,098	8	0.55	35	2.40	9	0.60	43	3.0	3.1	2.8
Henderson	28,757	12	0.83	41	2.90	23	1.60	58	4.0	2.8	2.2
Elizabethtown	28,531	12	0.84	29	2.00	11	0.80	72	5.0	3.7	2.5
Nicholasville	28,015	14	1.00	29	2.10	10	0.70	39	2.8	3.8	2.7
Jeffersontown	26,595	6	0.45	26	2.00	9	0.70	25	1.9	2.1	2.3
Frankfort	25,527	10	0.78	33	2.60	9	0.70	40	3.1	3.9	2.8
Paducah	25,024	16	1.28	45	3.60	31	2.50	84	6.7	4.4	2.1
Independence	24,757	2	0.16	13	1.10	6	0.50	28	2.3	11.1	3.8
Radcliff	21,688	10	0.92	26	2.40	8	0.70	56	5.2	3.1	3.4
Ashland	21,684	4	0.37	41	3.80	21	1.90	46	4.2	2.6	2.1
Madisonville	19,591	11	1.12	19	1.90	11	1.10	28	2.9	3.8	1.7
Winchester	18,368	5	0.54	26	2.80	6	0.70	27	2.9	2.8	2.8
Erlanger	18,082	8	0.88	26	2.90	8	0.90	33	3.7	5.3	2.7
Murray	17,741	7	0.79	19	2.10	18	2.00	23	2.6	1.4	2.1
Fort Thomas	16,325	4	0.49	7	0.90	2	0.20	9	1.1	4.3	3.6
Danville	16,218	6	0.74	20	2.50	11	1.40	23	2.8	4.4	2.2
Newport	15,273	4	0.52	68	8.90	24	3.10	34	4.5	3.5	3.1
Shively	15,264	22	2.88	93	12.20	18	2.40	60	7.9	3.4	3.1
Shelbyville	14,045	8	1.14	15	2.10	9	1.30	20	2.8	2.8	3.3
Glasgow	14,028	10	1.43	14	2.00	2	0.30	23	3.3	1.3	2.2
Berea	13,561	9	1.33	13	1.90	4	0.60	26	3.8	4.6	1.7
Bardstown	11,700	8	1.37	10	1.70	12	2.10	26	4.4	2.5	3.3
Shepherdsville	11,222	8	1.43	26	4.60	7	1.20	41	7.3	1.6	2.4
Somerset	11,196	14	2.50	21	3.80	4	0.70	38	6.8	2.9	1.3
Lyndon	11,002	0	0.00	0	0.00	0	0.00	0	0.0	0.0	0.0
Lawrenceburg	10,505	5	0.95	8	1.50	1	0.20	11	2.1	2.9	2.2
Mayfield	10,024	1	0.20	16	3.20	7	1.40	12	2.4	2.3	1.3
Mount Washington	9,117	5	1.10	3	0.70	0	0.00	16	3.5	1.6	2.4
Campbellsville	9,108	2	0.44	17	3.70	2	0.40	23	5.1	1.5	1.5
Maysville	9,011	3	0.67	17	3.80	2	0.40	11	2.4	3.7	3.6
Edgewood	8,575	1	0.23	7	1.60	2	0.50	4	0.9	7.0	1.6
Versailles	8,568	4	0.93	15	3.50	4	0.90	13	3.0	3.0	3.8
Paris	8,553	4	0.94	10	2.30	3	0.70	14	3.3	3.6	2.5
Alexandria	8,477	3 1	0.71	2	0.50	8	1.90	14	3.3	4.7	2.1
Elsmere	8,451		0.24	14	3.30	3	0.70	4	0.9	3.2	2.8
Franklin	8,408	6	1.43	9	2.10	2	0.50	16	3.8	3.9	3.2
Harrodsburg	8,340	6	1.44	10	2.40	0	0.00	9	2.2	3.5	3.6
Fort Mitchell	8,207	1	0.24	10	2.40	1	0.20	11	2.7	5.2	2.2
La Grange	8,082 7,993	3 9	0.74 2.25	11	2.70 2.50	5 6	1.20	10 29	2.5 7.3	2.7	1.7
London Villa Hills		0	0.00	10 1	0.30	1	1.50 0.30	29 3	0.8	1.9	1.4 3.4
	7,489									10.3	
Oak Grove	7,489	0 2	0.00 0.54	0 5	0.00	0 1	0.00 0.30	0	0.0 0.8	0.0 2.9	0.0 2.9
Flatwoods Corbin	7,423 7,304	4	1.10	10	1.30 2.70	2	0.50	19	5.2	3.7	2.9
	7,304 7,218	0	0.00	0	0.00	0	0.00	0	0.0	0.0	0.0
Middletown Russellville	6,960	2	0.00	7	2.00	4	1.10	8	2.3	4.0	3.0
Highland Heights	6,923	6	1.73	11	3.20	3	0.90	8	2.3	6.3	2.5
Pikeville	6,923 6,903	8	2.32	14	3.20 4.10	3	0.90	8 25	2.3 7.2	3.2	2.5 3.1
Mount Sterling	6,895	1	0.29	7	2.00	0	0.90	15	4.4	2.3	2.7
Morehead	6,845	6	1.75	15	4.40	4	1.20	22	6.4	2.3	1.6
Leitchfield	6,699	5	1.75	8	2.40	0	0.00	17	5.1	2.4	2.1
Taylor Mill	6,604	1	0.30	1	0.30	1	0.30	8	2.4	10.9	3.7
Cynthiana	6,402	1	0.30	11	3.40	2	0.60	9	2.4	5.2	2.7
	0.402		0.01	1.1	0.40	2	0.00	Э	۷.٥	0.2	۷.1

TABLE 16. MISCELLANEOUS CRASH DATA FOR CITIES HAVING POPULATION OVER 2,500 (2014-2018) (ALL ROADS)(continued)

		FATAL CI	RASHES	PEDEST MOTOR V CRAS	EHICLE	BICYO MOTOR V CRAS	/EHICLE	MOTOR CRAS		PERCENT OF CRASHES INVOLVING	PERCENT OF CRASHES
CITY F	POPULATION	NUMBER	RATE*	NUMBER	RATE*	NUMBER	RATE*	NUMBER	RATE*	SPEEDING	ALCOHO
Monticello	6,188	1	0.32	6	1.90	5	1.60	8	2.6	3.4	1.
Central City	5,978	2	0.67	6	2.00	2	0.70	12	4.0	2.6	3.
Bellevue	5,955	1	0.34	15	5.00	2	0.70	7	2.4	3.0	4.
Cold Spring	5,912	4	1.35	8	2.70	0	0.00	13	4.4	6.3	2.
Fort Wright	5,723	4	1.40	9	3.10	1	0.30	19	6.6	3.0	2.
Lebanon	5,539	5	1.81	11	4.00	2	0.70	12	4.3	1.3	2.
Union	5,379	0	0.00	0	0.00	0	0.00	0	0.0	0.0	0.
Dayton	5,338	0	0.00	13	4.90	1	0.40	3	1.1	2.2	8.
Williamsburg	5,245	6	2.29	9	3.40	2	0.80	9	3.4	2.7	2.
Crestwood	4,531	0	0.00	0	0.00	0	0.00	0	0.0	0.0	0.
Vine Grove	4,520	1	0.44	3	1.30	2	0.90	3	1.3	6.3	3.
Hazard	4,456	6	2.69	13	5.80	0	0.00	28	12.6	1.7	2.
Columbia	4,452	7	3.14	2	0.90	4	1.80	3	1.3	1.4	2.
Ludlow	4,407	0	0.00	8	3.60	5	2.30	3	1.4	3.0	5.
Benton	4,349	3	1.38	4	1.80	2	0.90	9	4.1	2.8	1.
Greenville	4,312	0	0.00	1	0.50	0	0.00	9	4.2	2.0	2.
Scottsville	4,226	6	2.84	6	2.80	1	0.50	13	6.2	2.4	2.
Grayson	4,217	3	1.42	7	3.30	0	0.00	5	2.4	2.0	1.
Carrollton	3,938	0	0.00	2	1.00	2	1.00	3	1.5	3.1	2.
Williamstown	3,925	2	1.02	2	1.00	0	0.00	8	4.1	8.4	3.
Crittenden	3,815	0	0.00	0	0.00	0	0.00	0	0.0	0.0	0.
Southgate	3,803	0	0.00	6	3.20	2	1.10	8	4.2	5.6	3.
Crescent Sprir	•	0	0.00	0	0.00	0	0.00	0	0.0	0.0	0.
Wilmore	3,686	0	0.00	2	1.10	1	0.50	1	0.5	3.0	2.
Walton	3,635	0	0.00	0	0.00	0	0.00	0	0.0	0.0	0.
Stanford	3,487	2	1.15	4	2.30	0	0.00	6	3.4	1.8	1.
Paintsville	3,459	7	4.05	11	6.40	4	2.30	7	4.0	1.5	0.
Lancaster	3,442	1	0.58	6	3.50	2	1.20	5	2.9	2.5	3.
West Liberty	3,435	0 3	0.00	0	0.00	0 2	0.00	0	0.0	0.0	0.
Beaver Dam	3,409	0	1.76 0.00	2	0.00 1.20	0	1.20 0.00	6	3.5 3.6	1.0 2.4	2. 1.
Russell	3,380	3	1.83	0	0.00	2	1.20	6 2	3.6 1.2	2.4	1. 0.
Morganfield	3,285 3,255	8	4.92	11	6.80	2	1.20	11	1.∠ 6.8	2.5	0. 2.
Prestonsburg		0	0.00	3	1.90	0		3	1.9	3.4	
Hodgenville Providence	3,206 3,193	0	0.00	0	0.00	0	0.00 0.00	2	1.9	4.0	2. 1.
Barbourville	3,193 3,165	3	1.90	6	3.80	2	1.30	8	5.1	3.4	1. 2.
Crestview Hills		0	0.00	0	0.00	0	0.00	0	0.0	0.0	2. 0.
Marion	3,039	1	0.66	2	1.30	0	0.00	5	3.3	4.5	3.
Wilder	3,035	0	0.00	0	0.00	0	0.00	0	0.0	0.0	0.
Park Hills	2,970	1	0.67	2	1.30	0	0.00	2	1.3	5.0	3.
Indian Hills	2,868	0	0.00	0	0.00	0	0.00	0	0.0	0.0	0.
Dawson Sprin		1	0.00	3	2.20	2	1.40	3	2.2	8.1	5.
Stanton	2,733	1	0.72	2	1.50	1	0.70	7	5.1	1.2	1.
Irvine	2,715	1	0.74	1	0.70	0	0.00	3	2.2	6.6	3.
Hartford	2,672	2	1.50	1	0.70	0	0.00	8	6.0	1.8	1.
Lakeside Park		1	0.75	3	2.20	0	0.00	3	2.2	5.7	1.
Flemingsburg	2,658	0	0.00	3	2.30	0	0.00	5	3.8	1.9	2.
Brandenburg	2,643	0	0.00	0	0.00	0	0.00	0	0.0	0.0	0.
Calvert City	2,566	1	0.78	1	0.80	0	0.00	7	5.5	5.6	3.
Cadiz	2,558	0	0.00	0	0.00	0	0.00	0	0.0	0.0	0.
Eddyville	2,554	0	0.00	0	0.00	0	0.00	0	0.0	0.0	0.
Springfield	2,519	1	0.79	3	2.40	2	1.60	5	4.0	1.7	1.

<sup>\*</sup> Crashes per 10,000 population

TABLE 17. CRASH RATES ON IDENTIFIED STREETS BY CITY AND POPULATION CATEGORY (2014-2018)

POPULATION CATEGORY	NUMBER OF CITIES	AVERAGE RATE (C/100 MVM)*	CITY	NUMBER OF CRASHES (2014-2018)	AVERAGE RATE (C/100 MVM)*
OVER 200,000	2	432	Lexington Louisville	15,191 33,489	885 350
20,000-60,000	16	390	Owensboro Richmond Radcliff Ashland Georgetown Frankfort Henderson Paducah Bowling Green Covington Independence Nicholasville Jeffersontown Hopkinsville Florence Elizabethtown	4,694 858 743 1,533 1,265 3,237 2,344 1,812 4,341 5,219 1,995 1,081 969 2,800 5,563 2,350	866 667 660 509 499 420 408 387 381 375 368 357 355 325 306 238
10,000-19,999	16	663	Newport Erlanger Winchester Shepherdsville Shively Shelbyville Fort Thomas Mayfield Glasgow Murray Madisonville Danville Berea Somerset Bardstown Lawrenceburg	2,167 1,705 1,736 1,165 581 931 525 262 735 1,430 1,725 729 878 1,604 1,101 320	1,254 1,172 896 828 754 737 675 618 617 578 517 500 486 475 468 417
5,000-9,999	33	426	Bellevue Edgewood Fort Mitchell Leitchfield Mount Sterling Campbellsville Corbin Mount Washington Lebanon Cynthiana Princeton Fort Wright La Grange Central City Versailles Paris Taylor Mill Franklin Morehead Flatwoods Cold Spring Harrodsburg Dayton Alexandria Maysville Russellville	406 223 783 744 911 1,367 499 666 800 343 732 930 234 615 409 1,084 227 371 934 428 745 364 38 842 816 421	1,333 1,174 952 851 816 718 651 636 615 614 562 545 509 506 498 494 440 435 416 413 404 373 345 314

TABLE 17. CRASH RATES ON IDENTIFIED STREETS BY CITY AND POPULATION CATEGORY (2014-2018)(continued)

POPULATION CATEGORY	NUMBER OF CITIES	AVERAGE RATE (C/100 MVM)*	CITY	NUMBER OF CRASHES (2014-2018)	AVERAGE RATE (C/100 MVM)*
5,000-9,999 (cont	t.) 33	426	Elsmere Pikeville Villa Hills London Highland Heights Williamsburg Monticello	411 1,223 56 1,880 781 523 290	300 294 273 273 251 195 193
2,500-4,999	36	406	Walton Ludlow Park Hills Grayson Southgate Lancaster Flemingsburg Lakeside Park Marion Greenville Dawson Springs Barbourville Scottsville Wilmore Paintsville Carrollton Benton Stanton Beaver Dam Russell Prestonsburg Hartford Brandenburg Columbia Vine Grove Stanford Providence West Liberty Morganfield Springfield Irvine Hodgenville Hazard Calvert City Cadiz Eddyville	628 249 275 452 392 235 44 410 123 409 186 239 441 133 402 222 278 385 226 563 501 109 197 136 285 237 100 127 147 94 98 74 545 171 99 157	1,146 840 775 756 753 726 649 624 614 590 534 495 466 461 458 430 429 422 417 408 404 379 362 326 314 308 286 283 277 275 244 242 228 199 149 111
1,000-2,499	55	310	Cave City Uniontown Jackson Carlisle Mount Vernon Edmonton Morgantown Louisa Munfordville Junction City Clay City Russell Springs Harlan Salyersville Worthington Liberty Albany	374 23 255 54 240 243 117 189 38 39 91 307 414 179 16 172 78	769 642 612 565 555 493 477 472 448 444 430 411 396 393 379 334 320

TABLE 17. CRASH RATES ON IDENTIFIED STREETS BY CITY AND POPULATION CATEGORY (2014-2018)(continued)

PO CA	PULATION TEGORY	NUMBER OF CITIES	AVERAGE RATE (C/100 MVM)*	CITY	NUMBER OF CRASHES (2014-2018)	AVERAGE RATE (C/100 MVM)*
1,0	00-2,499 (cont	.) 55	310	Greensburg Owenton Owingsville Burkesville Clinton Cloverport Loyall Falmouth Dry Ridge Manchester Raceland Lebanon Junction Hardinsburg Warsaw Eminence Fulton Elkton Cumberland Pineville Livermore Sturgis Olive Hill Whitesburg Beattyville Catlettsburg Tompkinsville Nortonville Sebree Earlington Jenkins Vanceburg Anchorage Jamestown Clay South Shore Horse Cave Lewisport Hickman	166 81 108 71 58 58 4 19 45 209 70 39 75 31 17 246 45 68 29 75 51 42 245 47 206 155 105 98 88 30 6 37 140 11 41 11 41 11 41 11 41 41 41 41 41 41	318 312 311 309 304 303 302 296 292 286 282 281 276 265 263 257 252 243 240 213 211 205 201 199 197 196 193 181 180 170 167 153 100 98 73

<sup>\*</sup> Crashes per 100 million vehicle-miles

TABLE 18. TOTAL CRASH RATES BY CITY AND POPULATION CATEGORY (IN DESCENDING ORDER) (2014-2018)(ALL ROADS)

		ANINILIAI			ANNUAL
	NUMBER OF	ANNUAL CRASH RATE		NUMBER OF	CRASH RATE
	CRASHES	(CRASHES PER		CRASHES	(CRASHES PER
CITY	(2014-2018)	1000 POPULATION)	CITY	(2014-2018)	1000 POPULATION)
	TION CATEGORY	NED 200 000	POPLI	LATION CATEGO	DPV 2 500 4 000
Lexington	55,040	37.2	Crestview Hills	1,555	98.8 *
Louisville	109,001	36.5	Prestonsburg	1,308	80.4 *
	TION CATEGORY	20.000-60000	Hazard	1,704	76.5 *
Florence	9,042	60.4 *	Wilder	967	63.7 *
Paducah	6,412	51.2 *	Paintsville	889	51.4 *
Bowling Green	13,844	47.7	Crescent Springs	923	48.6 *
Owensboro Elizabethtown	11,265 5,417	39.3 38.0	Walton	808 586	44.5 44.3
Richmond	5,417 5,795	36.0 37.0	Brandenburg Russell	712	44.3 42.1
Covington	7,293	35.9	Barbourville	590	37.3
Frankfort	4,263	33.4	Crestwood	803	35.4
Ashland	3,555	32.8	Calvert City	449	35.0
Henderson	4,572	31.8	Benton	754	34.7
Jeffersontown Nicholasville	4,209 4,161	31.7 29.7	Cadiz Southgate	441 643	34.5 33.8
Hopkinsville	4,308	27.3	Grayson	702	33.3
Georgetown	3,972	27.3	Scottsville	679	32.1
Radcliff	2,414	22.3	Greenville	686	31.8
Independence	1,797	14.5	Stanford	547	31.4
	TION CATEGORY		Springfield	359	28.5
Somerset	3,944 3,254	70.5 *	Beaver Dam	485	28.5
Shepherdsville Shively	3,254 4,067	58.0 * 53.3 *	Eddyville	346	27.1
Newport	3,856	50.5 *	Williamstown	523 439	26.6 25.5
Bardstown	2,596	44.4	Lancaster Stanton	342	25.5 25.0
Erlanger	3,499	38.7	Carrollton	490	24.9
Glasgow	2,697	38.5	Columbia	555	24.9
Danville	2,614	32.2	Hodgenville	357	22.3
Winchester Mayfield	2,915 1,559	31.7 31.1	Morganfield	363	22.1
Murray	2,727	30.7	Hartford Lakeside Park	277 246	20.7 18.4
Madisonville	3,006	30.7	Crittenden	339	17.8
Shelbyville	2,158	30.7	Marion	246	16.2
Berea	1,968	29.0	Vine Grove	347	15.4
Lawrenceburg	934	17.8	Ludlow	334	15.2
Lyndon Fort Thomas	860 1,250	15.6 15.3	Dawson Springs	198	14.3
POPULA	ATION CATEGORY	′ 5 000-9 999	Wilmore Indian Hills	264 185	14.3 12.9
Fort Wright	2,255	78.8 *	West Liberty	162	9.4
London	3,035	75.9 *	Providence	149	9.3
Pikeville	2,345	67.9 *	Irvine	122	9.0
Morehead Middletown	2,210 2,057	64.6 * 57.0 *	Park Hills	120	8.1
Corbin	1,573	43.1			
Campbellsville	1,922	42.2			
Mount Sterling	1,456	42.2			
Franklin	1,498	35.6			
Cold Spring	1,037	35.1			
Maysville Leitchfield	1,558 1,149	34.6 34.3			
Lebanon	936	33.8			
Monticello	1,029	33.3			
Fort Mitchell	1,346	32.8			
Paris	1,378	32.2			
Versailles	1,355 1,061	31.6 30.7			
Highland Heights Oak Grove	1,122	30.7 30.0			
Williamsburg	779	29.7			
Russellville	1,027	29.5			
Mount Washingto	on 1,333	29.2			
Cynthiana	910	28.4			
Central City	816	27.3			
Princeton Taylor Mill	864 890	27.3 27.0			
La Grange	1,088	27.0 26.9			
Alexandria	1,118	26.4			
Harrodsburg	1,032	24.7			
Union	628	23.4			
Bellevue	673	22.6			
Edgewood	755 365	17.6 13.7			
Dayton Elsmere	537	13.7 12.7			
Flatwoods	421	11.3			
Villa Hills	204	5.4			

<sup>\*</sup> Critical crash rate

TABLE 19. FATAL CRASH RATES BY CITY AND POPULATION CATEGORY (IN DESCENDING ORDER WITH CRITICAL RATES IDENTIFIED)(2014-2018)(ALL ROADS)

	ANINITAL			A N I N I I A I
NUMBER OF	ANNUAL CRASH RATE		NUMBER OF	ANNUAL CRASH RATE
CRASHES	(CRASHES PER		CRASHES	(CRASHES PER
CITY (2014-2018) 10	),00Ò POPULATION)	CITY	(2014-2018) 10,00	Ò POPULATION)
POPULATION CATEGORY OV	ER 200 000	D\DI II	ATION CATEGORY 2,	500-4 999
Louisville 304	1.02	Prestonsburg	ATION CATEGORY 2,	4.92
Lexington 132	0.89	Paintsville	8 7	4.05
POPULATION CATEGORY 20	,000-60000	Columbia	7	3.14
Paducah 16	1.28	Scottsville	6 6	2.84
Florence 17	1.14	Hazard	6	2.69
Nicholasville 14 Radcliff 10	1.00 0.92	Barbourville Morganfield	3 3	1.90 1.83
Elizabethtown 12	0.84	Beaver Dam	3	1.76
Henderson 12	0.83	Hartford	3 2 3 3 2 2	1.50
Richmond 13	0.83	Grayson	3	1.42
Hopkinsville 13	0.82	Benton	3	1.38
Frankfort 10 Bowling Green 22	0.78 0.76	Stanford Williamstown	2	1.15 1.02
Bowling Green 22 Owensboro 18	0.76	Springfield	1	0.79
Georgetown 8	0.55	Calvert City	i	0.78
Covington 11	0.54	Lakeside Park	1	0.75
Jeffersontown 6	0.45	Irvine	1	0.74
Ashland 4	0.37	Stanton	1	0.73
Independence 2 POPULATION CATEGORY 10,	0.16	Dawson Springs	]	0.72
Shively 22	2.88	Marion Lancaster	1 1	0.66 0.58
Somerset 14	2.50	Lancasien	ı	0.00
Shepherdsville 8	1.43			
Glasgow 10	1.43			
Bardstown 8 Berea 9	1.37			
Berea 9 Shelbyville 8	1.33 1.14			
Madisonville 11	1.12			
Lawrenceburg 5	0.95			
	0.88			
Murray 7	0.79			
Danville 6 Winchester 5	0.74 0.54			
Newport 4	0.52			
Fort Thomas 4	0.49			
Mayfield 1	0.20			
POPULATION CATEGORY 5	,000-9,999			
Pikeville 8 Williamsburg 6	2.32 2.29			
London 9	2.25			
London 9 Lebanon 5	1.81			
Morehead 6	1.75			
Highland Heights 6	1.73			
Leitchfield 5 Harrodsburg 6	1.49 1.44			
Harrodsburg 6 Franklin 6	1.44			
Fort Wright 4	1.40			
Cold Spring 4	1.35			
Princeton 4	1.26			
Mount Washington 5 Corbin 4	1.10 1.10			
Corbin 4 Paris 4	0.94			
Versailles 4	0.93			
La Grange 3	0.74			
Alexandria 3	0.71			
Central City 2	0.67			
Maysville 3 Russellville 2	0.67 0.57			
Russellville 2 Flatwoods 2 Campbellsville 2	0.57			
	0.44			
Bellevue 1	0.34			
Monticello 1	0.32			
Cynthiana 1	0.31			
Taylor Mill 1 Mount Sterling 1	0.30 0.29			
Elsmere 1	0.29			
Fort Mitchell 1	0.24			
Edgewood 1	0.23			

<sup>\*</sup> Critical crash rate

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

COUNTY   ALL   AGE 16-20	L G								
Elliott 23 3 3 7.7 5.6 Ballard 44 3 5.1 1.5 Lee 18 2 5.0 3.8 Futton 27 2 4.8 1.8 Crittenden 45 3 4.7 1.7 Hickman 16 0 4.7 1.7 Bracken 48 3 4.7 1.8 Carlisle 15 0 4.5 0.0 Nicholas 34 1 4.5 0.6 Menifee 15 1 4.3 1.4 Trimble 37 2 4.3 1.1 Cumberland 23 2 4.3 1.1 Cumberland 23 2 4.3 1.1 Cumberland 23 2 4.2 1.9 McLean 46 1 4.1 0.4 Lyon 47 6 3.5 2.7 Hancock 21 4 3.2 2.4 Gallatin 42 2 3.0 1.1 Robertson 5 0 2.9 0.0 Owsley 6 0 0 2.5 Wolfe 18 1 2.3 0.8  POPULATION CATEGORY 10,000 - 14,999 Lewis 36 2 5.0 1.7 Butler 66 1 4.9 0.3 Eleming 46 6 6 3.9 1.8 Butler 66 6 1 4.9 0.3 Eleming 46 6 6 3.9 1.8 Fleming 46 6 6 3.9 1.8 Fleming 46 6 6 3.9 1.8 Mashington 53 3 3 4.1 1.4 Larue 63 3 4.1 1.4 Larue 63 3 3 4.1 Larue 63 3 3 4.1 1.4 Larue 64 1.4 Larue 65 1.4 Larue 67 1.4 Larue 68 1.4 Larue	3-20								
Elliott 23 3 3 7.7 5.6 Ballard 44 3 5.1 1.5 Lee 18 2 5.0 3.8 Fulton 27 2 4.8 1.8 Crittenden 45 3 4.7 1.7 Bracken 48 3 4.7 1.8 Carlisle 15 0 4.5 0.0 Nicholas 34 1 4.5 0.6 Menifee 15 1 4.3 1.4 Trimble 37 2 4.3 1.1 Cumberland 23 2 4.3 1.1 Cumberland 23 2 4.2 1.9 McLean 46 1 4.1 4.1 0.4 Lyon 47 6 3.5 2.7 Hancock 21 4 3.2 2.4 Gallatin 42 2 3.0 1.1 Robertson 5 0 2.9 0.0 Owsley 6 0 0 2.5 Wolfe 18 1 2.3 0.8  POPULATION CATEGORY 10,000 - 14,999 Lewis 36 2 5.0 1.7 Butler 66 1 4.9 0.3 Butler 66 6 1 3.9 1.8 Butler 66 6 2.5 Butler 66 6 3.3 3 4.1 0.9 Bening 46 6 6 3.9 1.8 Butler 66 6 3.3 3 4.1 0.9 Bening 46 6 6 3.9 1.8 Butler 66 6 3.3 3 4.1 0.9 Butler 66 6 1 3.9 1.8 Butler 66 6 3.3 3 4.1 0.9 Butler 66 6 1 3.9 1.8 Butler 66 6 1 3.9 1.8 Butler 66 6 1 3.9 1.8 Butler 66 6 3.3 3 4.1 0.9 Butler 66 6 1 3.9 1.8 Butler 66 6 3.3 3 4.1 0.9 Butler 66 6 3.3 3 4.1 0.9 Butler 66 6 1 3.9 1.8 Butler 66 6 1 3.9 1.8 Butler 66 1 3.9 1.8 Butler 66 6 3.3 3 4.1 0.9 Butler 66 6 3.3 3 4.1 0.9 Butler 66 6 3.3 3 4.1 0.9 Butler 66 6 1 3.9 1.8 Butler 66 6 3.9 1.7 Butler 66 6 3.3 3 4.1 0.9 Butler 66 6 1 3.9 1.8 Butler 66 1 4.9 2.9 2.9 Butler 66 6 3.9 1.7 Butler 66 6 1 4.9 2.9 2.9 Butler 66 6 3.9 1.7 Butler 66 6 1 4.9 2.9 2.9 Butler 67 4 4 3.3 3 3.9 1.0 Butler 68 5 5 5 2 2.9 9 1.1 Butler 68 6 5 6 6 3.7 1.0 Butler 68 6 7 5 6 8 2.5 Butler 68 6 7 5 6 8 2.5 Butler 68 6 7 5 6 8 2.5 Butler 79 8 8 2.5 Butler 89 8 2.5 Butler 89 8 2.5 Butler 99 8 2.5 Butler 99 8 2.5 Butler 99 8 2	DODI II ATION CATEGODY LINDER 40 000								
Ballard									
Lee         18         2         5.0         3.8           Fulton         27         2         4.8         1.8           Crittenden         45         3         4.7         1.7           Hickman         16         0         4.7         0.0           Bracken         48         3         4.7         1.8           Carlisle         15         0         4.5         0.0           Nicholas         34         1         4.5         0.6           Menifee         15         1         4.3         1.4           Trimble         37         2         4.3         1.4           Cumberland         23         2         4.2         1.9           McLean         46         1         4.1         0.4           Lyon         47         6         3.5         2.7           Livingston         32         2         3.5         1.2           Hancock         21         4         3.2         2.4           Hancock         21         4         3.2         2.4           Gallatin         42         2         3.0         1.1           Robertson									
Fulton 27 2 4.8 1.8 Crittenden 45 3 4.7 1.7 1.7 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8									
Hickman									
Bracken         48         3         4.7         1.8           Carlisle         15         0         4.5         0.0           Nicholas         34         1         4.5         0.6           Menifee         15         1         4.3         1.4           Trimble         37         2         4.3         1.1           Cumberland         23         2         4.2         1.9           McLean         46         1         4.1         0.4           Lyon         47         6         3.5         2.7           Livingston         32         2         3.5         1.2           Hancock         21         4         3.2         2.4           Gallatin         42         2         3.0         1.1           Robertson         5         0         2.9         0.0           Owsley         6         0         2.5         0.0           Wolfe         18         1         2.3         0.8           Lewis         36         2         5.0         1.7           Butler         66         1         4.9         0.3           Owen         43									
Carlisle         15         0         4.5         0.0           Nicholas         34         1         4.5         0.6           Menifee         15         1         4.3         1.4           Trimble         37         2         4.3         1.1           Cumberland         23         2         4.2         1.9           McLean         46         1         4.1         0.4           Lyon         47         6         3.5         2.7           Livingston         32         2         3.5         1.2           Hancock         21         4         3.2         2.4           Gallatin         42         2         3.0         1.1           Robertson         5         0         2.9         0.0           Owsley         6         0         2.5         0.0           Wolfe         18         1         2.3         0.8           Lewis         36         2         5.0         1.7           Butler         66         1         4.9         0.3           Owen         43         3         4.1         0.9           Elewis         36<									
Nicholas									
Menifee         15         1         4.3         1.4           Trimble         37         2         4.3         1.1           Cumberland         23         2         4.2         1.9           McLean         46         1         4.1         0.4           Lyon         47         6         3.5         2.7           Livingston         32         2         3.5         1.2           Hancock         21         4         3.2         2.4           Gallatin         42         2         3.0         1.1           Robertson         5         0         2.9         0.0           Owsley         6         0         2.5         0.0           Wolfe         18         1         2.3         0.8           POPULATION CATEGORY 10,000 - 14,999           Lewis         36         2         5.0         1.7           Butter         66         1         4.9         0.3           Owen         43         3         4.1         1.4           Lewis         36         2         5.0         1.7           Washington         53         3         4.1 </td <td></td>									
Trimble 37 2 4.3 1.1 Cumberland 23 2 4.2 1.9 McLean 46 1 4.1 0.4 Lyon 47 6 3.5 2.7 Livingston 32 2 2 3.5 1.2 Hancock 21 4 3.2 2.4 Gallatin 42 2 3 3.0 1.1 Robertson 5 0 2.9 0.0 Owsley 6 0 2.5 0.0 Wolfe 18 1 2.3 0.8  POPULATION CATEGORY 10,000 - 14,999  Lewis 36 2 5.0 1.7 Butter 66 1 4.9 0.3 Owen 43 3 4.1 1.4 Larue 63 3 4.1 0.9 Fleming 46 6 6 3.9 1.8 Washington 53 3 3 4.1 0.9 Fleming 46 6 6 3.9 1.8 Washington 53 3 3 3.9 1.0 Magoffin 33 3 3.8 1.6 Magoffin 33 3 3.8 1.7 Metcalfe 47 1 3.7 0.4 Trigg 65 6 3.7 1.6 Pendleton 58 9 3.6 2.5 Morgan 27 2 3.4 1.3 Todd 36 4 3.4 1.5 Carroll 67 4 3.3 1.0 Estill 24 3 3 3.2 1.9 Martin 16 1 3.0 1.3 Bath 25 2 2 2.9 1.1 Powell 41 7 2.9 2.3 Clinton 27 5 2.8 2.5 Breathitt 35 4 2.8 2.2 Green 24 4 4 2.8 2.8 Green 24 4 4 2.8 2.3 Monroe 16 00 2.7 0.0 Monroe 16 00 2.7 0.0									
Cumberland         23         2         4.2         1.9           McLean         46         1         4.1         0.4           Lyon         47         6         3.5         2.7           Livingston         32         2         2         3.5         1.2           Hancock         21         4         3.2         2.4           Gallatin         42         2         3.0         1.1           Robertson         5         0         2.9         0.0           Owsley         6         0         2.5         0.0           Wolfe         18         1         2.3         0.8           POPULATION CATEGORY 10,000 - 14,999           Lewis         36         2         5.0         1.7           Butler         66         1         4.9         0.3           Owen         43         3         4.1         1.4           Larue         63         3         4.1         1.4           Larue         63         3         3         1.0           Edmonson         38         4         3.8         1.6           Magoffin         33         3									
McLean         46         1         4.1         0.4           Lyon         47         6         3.5         2.7           Livingston         32         2         3.5         1.2           Hancock         21         4         3.2         2.4           Gallatin         42         2         3.0         1.1           Robertson         5         0         2.9         0.0           Owsley         6         0         2.5         0.0           Wolfe         18         1         2.3         0.8           POPULATION CATEGORY 10,000 - 14,999           Lewis         36         2         5.0         1.7           Butler         66         1         4.9         0.3           Owen         43         3         4.1         1.4           Larue         63         3         4.1         1.4           Larue         63         3         3         4.1         1.9           Fleming         46         6         3.9         1.8           Washington         53         3         3.9         1.0           Edmonson         38         4									
Lyon									
Livingston 32 2 3.5 1.2 Hancock 21 4 3.2 2.4 Gallatin 42 2 3.0 1.1 Robertson 5 0 2.9 0.0 Owsley 6 0 2.5 0.0 Wolfe 18 1 2.3 0.8  POPULATION CATEGORY 10,000 - 14,999  Lewis 36 2 5.0 1.7 Butler 66 1 4.9 0.3 Owen 43 3 4.1 1.4 Larue 63 3 4.1 0.9 Fleming 46 6 3.9 1.8 Washington 53 3 3.9 1.0 Edmonson 38 4 3.8 1.6 Magoffin 33 3 3.8 1.7 Metcalfe 47 1 3.7 0.4 Trigg 65 6 3.7 1.6 Pendleton 58 9 3.6 2.5 Morgan 27 2 3.4 1.3 Todd 36 4 3.4 1.5 Carroll 67 4 3.3 3.2 1.9 Martin 16 1 3.0 1.3 Bath 25 2 2.9 1.1 Powell 41 7 2.9 2.3 Clinton 27 5 2.8 Breathitt 35 4 2.8 Careen 24 4 2.8 Careen 24 4 4 2.8 Careen 25 1 2.7 Careen 26 27 0.0 Careen 27 0.0 Careen 27 0.0 Careen 28 27 0.0 Careen 28 28 2.2 Careen 29 2.3 Careen 24 4 2.8 Careen 24 4 2.8 Careen 24 4 2.8 Careen 24 4 4 2.8 Careen 25 11 2.7 Careen 25 11 2.7 Careen 26 3.5 Careen 26 3.5 Careen 27 0.0 Careen 28 3.5 Careen 28 3.5 Careen 29 3.5 Careen 39 3.5									
Hancock 21 4 3.2 2.4 Gallatin 42 2 3 3.0 1.1 Robertson 5 0 2.9 0.0 Owsley 6 0 2.5 0.0 Wolfe 18 1 2.3 0.8  POPULATION CATEGORY 10,000 - 14,999  Lewis 36 2 5.0 1.7 Butler 66 1 4.9 0.3 Owen 43 3 4.1 1.4 Larue 63 3 4.1 0.9 Fleming 46 6 6 3.9 1.8 Washington 53 3 3 3.9 1.0 Edmonson 38 4 3.8 1.6 Magoffin 33 3 3.8 1.7 Metcalfe 47 1 3.7 0.4 Trigg 65 6 6 3.7 1.6 Pendleton 58 9 3.6 2.5 Morgan 27 2 3.4 1.3 Todd 36 4 3.4 1.5 Carroll 67 4 3.3 1.0 Estill 24 3 3.2 1.9 Martin 16 1 3.0 1.3 Martin 16 1 3.0 1.3 Bath 25 2 2.9 1.1 Powell 41 7 2.9 2.3 Clinton 27 5 2.8 Breathitt 35 4 2.8 Careen 24 4 2.8 Green 24 4 2.8 Monroe 16 0 2.7 0.0 Jackson 25 1 0.00									
Gallatin         42         2         3.0         1.1           Robertson         5         0         2.9         0.0           Owsley         6         0         2.5         0.0           Wolfe         18         1         2.3         0.8           POPULATION CATEGORY 10,000 - 14,999           Lewis         36         2         5.0         1.7           Butler         66         1         4.9         0.3           Owen         43         3         4.1         1.4           Larue         63         3         4.1         0.9           Fleming         46         6         3.9         1.8           Washington         53         3         3.9         1.0           Edmonson         38         4         3.8         1.6           Magoffin         33         3         3.8         1.7           Metcalfe         47         1         3.7         0.4           Trigg         65         6         3.7         1.6           Pendleton         58         9         3.6         2.5           Morgan         27         2         3.4 </td <td></td>									
Robertson         5         0         2.9         0.0           Owsley         6         0         2.5         0.0           Wolfe         18         1         2.3         0.8           POPULATION CATEGORY 10,000 - 14,999           Lewis         36         2         5.0         1.7           Butler         66         1         4.9         0.3           Owen         43         3         4.1         1.4           Larue         63         3         4.1         0.9           Fleming         46         6         3.9         1.8           Washington         53         3         3.9         1.0           Edmonson         38         4         3.8         1.6           Magoffin         33         3         3.9         1.0           Edmonson         38         4         3.8         1.6           Maccalfe         47         1         3.7         0.4           Trigg         65         6         3.7         1.6           Pendleton         58         9         3.6         2.5           Morgan         27         2         3.4 </td <td></td>									
Owsley         6         0         2.5         0.0           Wolfe         18         1         2.3         0.8           POPULATION CATEGORY 10,000 - 14,999           Lewis         36         2         5.0         1.7           Butler         66         1         4.9         0.3           Owen         43         3         4.1         1.4           Larue         63         3         4.1         0.9           Fleming         46         6         3.9         1.8           Washington         53         3         3.9         1.0           Edmonson         38         4         3.8         1.6           Magoffin         33         3         3.9         1.0           Edmonson         38         4         3.8         1.6           Magoffin         33         3         3.8         1.7           Metcalfe         47         1         3.7         0.4           Trigg         65         6         3.7         1.6           Pendleton         58         9         3.6         2.5           Morgan         27         2         3.4 </td <td></td>									
POPULATION CATEGORY 10,000 - 14,999           Lewis         36         2         5.0         1.7           Butler         66         1         4.9         0.3           Owen         43         3         4.1         1.4           Larue         63         3         4.1         0.9           Fleming         46         6         3.9         1.8           Washington         53         3         3.9         1.0           Edmonson         38         4         3.8         1.6           Magoffin         33         3         3.8         1.7           Metcalfe         47         1         3.7         0.4           Trigg         65         6         3.7         1.6           Pendleton         58         9         3.6         2.5           Morgan         27         2         3.4         1.3           Todd         36         4         3.4         1.5           Carroll         67         4         3.3         1.0           Estill         24         3         3.2         1.9           Martin         16         1         3.0									
Lewis       36       2       5.0       1.7         Butler       66       1       4.9       0.3         Owen       43       3       4.1       1.4         Larue       63       3       4.1       0.9         Fleming       46       6       3.9       1.8         Washington       53       3       3.9       1.0         Edmonson       38       4       3.8       1.6         Magoffin       33       3       3.8       1.7         Metcalfe       47       1       3.7       0.4         Trigg       65       6       3.7       1.6         Pendleton       58       9       3.6       2.5         Morgan       27       2       3.4       1.3         Todd       36       4       3.4       1.5         Carroll       67       4       3.3       1.0         Estill       24       3       3.2       1.9         Martin       16       1       3.0       1.3         Bath       25       2       2.9       1.1         Powell       41       7       2.9									
Lewis       36       2       5.0       1.7         Butler       66       1       4.9       0.3         Owen       43       3       4.1       1.4         Larue       63       3       4.1       0.9         Fleming       46       6       3.9       1.8         Washington       53       3       3.9       1.0         Edmonson       38       4       3.8       1.6         Magoffin       33       3       3.8       1.7         Metcalfe       47       1       3.7       0.4         Trigg       65       6       3.7       1.6         Pendleton       58       9       3.6       2.5         Morgan       27       2       3.4       1.3         Todd       36       4       3.4       1.5         Carroll       67       4       3.3       1.0         Estill       24       3       3.2       1.9         Martin       16       1       3.0       1.3         Bath       25       2       2.9       1.1         Powell       41       7       2.9									
Butler       66       1       4.9       0.3         Owen       43       3       4.1       1.4         Larue       63       3       4.1       0.9         Fleming       46       6       3.9       1.8         Washington       53       3       3.9       1.0         Edmonson       38       4       3.8       1.6         Magoffin       33       3       3.8       1.7         Metcalfe       47       1       3.7       0.4         Trigg       65       6       3.7       1.6         Pendleton       58       9       3.6       2.5         Morgan       27       2       3.4       1.3         Todd       36       4       3.4       1.5         Carroll       67       4       3.3       1.0         Estill       24       3       3.2       1.9         Martin       16       1       3.0       1.3         Bath       25       2       2.9       1.1         Powell       41       7       2.9       2.3         Clinton       27       5       2.8									
Owen       43       3       4.1       1.4         Larue       63       3       4.1       0.9         Fleming       46       6       3.9       1.8         Washington       53       3       3.9       1.0         Edmonson       38       4       3.8       1.6         Magoffin       33       3       3.8       1.7         Metcalfe       47       1       3.7       0.4         Trigg       65       6       3.7       1.6         Pendleton       58       9       3.6       2.5         Morgan       27       2       3.4       1.3         Todd       36       4       3.4       1.5         Carroll       67       4       3.3       1.0         Estill       24       3       3.2       1.9         Martin       16       1       3.0       1.3         Bath       25       2       2.9       1.1         Powell       41       7       2.9       2.3         Clinton       27       5       2.8       2.5         Breathitt       35       4       2.8									
Fleming       46       6       3.9       1.8         Washington       53       3       3.9       1.0         Edmonson       38       4       3.8       1.6         Magoffin       33       3       3.8       1.7         Metcalfe       47       1       3.7       0.4         Trigg       65       6       3.7       1.6         Pendleton       58       9       3.6       2.5         Morgan       27       2       3.4       1.3         Todd       36       4       3.4       1.5         Carroll       67       4       3.3       1.0         Estill       24       3       3.2       1.9         Martin       16       1       3.0       1.3         Bath       25       2       2.9       1.1         Powell       41       7       2.9       2.3         Clinton       27       5       2.8       2.5         Breathitt       35       4       2.8       2.2         Green       24       4       2.8       2.3         Monroe       16       0       2.7 <td></td>									
Washington       53       3       3.9       1.0         Edmonson       38       4       3.8       1.6         Magoffin       33       3       3.8       1.7         Metcalfe       47       1       3.7       0.4         Trigg       65       6       3.7       1.6         Pendleton       58       9       3.6       2.5         Morgan       27       2       3.4       1.3         Todd       36       4       3.4       1.5         Carroll       67       4       3.3       1.0         Estill       24       3       3.2       1.9         Martin       16       1       3.0       1.3         Bath       25       2       2.9       1.1         Powell       41       7       2.9       2.3         Clinton       27       5       2.8       2.5         Breathitt       35       4       2.8       2.2         Green       24       4       2.8       2.3         Monroe       16       0       2.7       0.0         Jackson       25       1       2.7 <td></td>									
Edmonson       38       4       3.8       1.6         Magoffin       33       3       3.8       1.7         Metcalfe       47       1       3.7       0.4         Trigg       65       6       3.7       1.6         Pendleton       58       9       3.6       2.5         Morgan       27       2       3.4       1.3         Todd       36       4       3.4       1.5         Carroll       67       4       3.3       1.0         Estill       24       3       3.2       1.9         Martin       16       1       3.0       1.3         Bath       25       2       2.9       1.1         Powell       41       7       2.9       2.3         Clinton       27       5       2.8       2.5         Breathitt       35       4       2.8       2.2         Green       24       4       2.8       2.3         Monroe       16       0       2.7       0.0         Jackson       25       1       2.7       0.5									
Magoffin       33       3       3.8       1.7         Metcalfe       47       1       3.7       0.4         Trigg       65       6       3.7       1.6         Pendleton       58       9       3.6       2.5         Morgan       27       2       3.4       1.3         Todd       36       4       3.4       1.5         Carroll       67       4       3.3       1.0         Estill       24       3       3.2       1.9         Martin       16       1       3.0       1.3         Bath       25       2       2.9       1.1         Powell       41       7       2.9       2.3         Clinton       27       5       2.8       2.5         Breathitt       35       4       2.8       2.2         Green       24       4       2.8       2.3         Monroe       16       0       2.7       0.0         Jackson       25       1       2.7       0.5									
Metcalfe       47       1       3.7       0.4         Trigg       65       6       3.7       1.6         Pendleton       58       9       3.6       2.5         Morgan       27       2       3.4       1.3         Todd       36       4       3.4       1.5         Carroll       67       4       3.3       1.0         Estill       24       3       3.2       1.9         Martin       16       1       3.0       1.3         Bath       25       2       2.9       1.1         Powell       41       7       2.9       2.3         Clinton       27       5       2.8       2.5         Breathitt       35       4       2.8       2.2         Green       24       4       2.8       2.3         Monroe       16       0       2.7       0.0         Jackson       25       1       2.7       0.5									
Trigg       65       6       3.7       1.6         Pendleton       58       9       3.6       2.5         Morgan       27       2       3.4       1.3         Todd       36       4       3.4       1.5         Carroll       67       4       3.3       1.0         Estill       24       3       3.2       1.9         Martin       16       1       3.0       1.3         Bath       25       2       2.9       1.1         Powell       41       7       2.9       2.3         Clinton       27       5       2.8       2.5         Breathitt       35       4       2.8       2.2         Green       24       4       2.8       2.3         Monroe       16       0       2.7       0.0         Jackson       25       1       2.7       0.5									
Pendleton       58       9       3.6       2.5         Morgan       27       2       3.4       1.3         Todd       36       4       3.4       1.5         Carroll       67       4       3.3       1.0         Estill       24       3       3.2       1.9         Martin       16       1       3.0       1.3         Bath       25       2       2.9       1.1         Powell       41       7       2.9       2.3         Clinton       27       5       2.8       2.5         Breathitt       35       4       2.8       2.2         Green       24       4       2.8       2.3         Monroe       16       0       2.7       0.0         Jackson       25       1       2.7       0.5									
Morgan       27       2       3.4       1.3         Todd       36       4       3.4       1.5         Carroll       67       4       3.3       1.0         Estill       24       3       3.2       1.9         Martin       16       1       3.0       1.3         Bath       25       2       2.9       1.1         Powell       41       7       2.9       2.3         Clinton       27       5       2.8       2.5         Breathitt       35       4       2.8       2.2         Green       24       4       2.8       2.3         Monroe       16       0       2.7       0.0         Jackson       25       1       2.7       0.5									
Todd       36       4       3.4       1.5         Carroll       67       4       3.3       1.0         Estill       24       3       3.2       1.9         Martin       16       1       3.0       1.3         Bath       25       2       2.9       1.1         Powell       41       7       2.9       2.3         Clinton       27       5       2.8       2.5         Breathitt       35       4       2.8       2.2         Green       24       4       2.8       2.3         Monroe       16       0       2.7       0.0         Jackson       25       1       2.7       0.5									
Carroll       67       4       3.3       1.0         Estill       24       3       3.2       1.9         Martin       16       1       3.0       1.3         Bath       25       2       2.9       1.1         Powell       41       7       2.9       2.3         Clinton       27       5       2.8       2.5         Breathitt       35       4       2.8       2.2         Green       24       4       2.8       2.3         Monroe       16       0       2.7       0.0         Jackson       25       1       2.7       0.5									
Estill       24       3       3.2       1.9         Martin       16       1       3.0       1.3         Bath       25       2       2.9       1.1         Powell       41       7       2.9       2.3         Clinton       27       5       2.8       2.5         Breathitt       35       4       2.8       2.2         Green       24       4       2.8       2.3         Monroe       16       0       2.7       0.0         Jackson       25       1       2.7       0.5									
Martin       16       1       3.0       1.3         Bath       25       2       2.9       1.1         Powell       41       7       2.9       2.3         Clinton       27       5       2.8       2.5         Breathitt       35       4       2.8       2.2         Green       24       4       2.8       2.3         Monroe       16       0       2.7       0.0         Jackson       25       1       2.7       0.5									
Bath       25       2       2.9       1.1         Powell       41       7       2.9       2.3         Clinton       27       5       2.8       2.5         Breathitt       35       4       2.8       2.2         Green       24       4       2.8       2.3         Monroe       16       0       2.7       0.0         Jackson       25       1       2.7       0.5									
Powell       41       7       2.9       2.3         Clinton       27       5       2.8       2.5         Breathitt       35       4       2.8       2.2         Green       24       4       2.8       2.3         Monroe       16       0       2.7       0.0         Jackson       25       1       2.7       0.5									
Clinton       27       5       2.8       2.5         Breathitt       35       4       2.8       2.2         Green       24       4       2.8       2.3         Monroe       16       0       2.7       0.0         Jackson       25       1       2.7       0.5									
Breathitt       35       4       2.8       2.2         Green       24       4       2.8       2.3         Monroe       16       0       2.7       0.0         Jackson       25       1       2.7       0.5									
Green     24     4     2.8     2.3       Monroe     16     0     2.7     0.0       Jackson     25     1     2.7     0.5									
Jackson 25 1 2.7 0.5									
Caldwell 43 2 2.3 0.4									
Leslie 5 0 2.1 0.0									
Webster 26 4 2.0 1.6									
POPULATION CATEGORY 15,000 - 24,999									
Spencer 77 5 5.4 1.3									
Mason 153 9 5.1 1.3									
Breckinridge 54 6 4.7 2.1									
Marion 107 9 4.5 1.4									
Henry 87 6 4.3 1.6									
Mercer 99 9 4.3 1.5									
Lawrence 46 2 4.2 1.0									
Garrard 77 7 4.0 1.6									
Allen 90 6 4.0 1.1									
Anderson 102 9 4.0 1.3									
Bourbon 122 8 4.0 1.4									
Casey 35 3 3.9 1.5									

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

	NUMBER OF RELATED ( (2014 -	ALCOHOL- CRASHES		CENT OF TOTAL SHES INVOLVING ALCOHOL
COUNTY	ALL	AGE 16-20	ALL	AGE 16-20
		ATECORY 15 000	- 24,999 (continued)	
Letcher	61	5	3.9	1.9
Woodford	170	14	3.8	1.5
Simpson	110	7	3.7	1.2
Union	50	5	3.3	1.3
Ohio	104	10	3.2	1.4
Knott	37	4	3.2	2.4
McCreary	34	5	3.1	2.3
Clay	56 75	4	3.1	1.7
Harrison Russell	75 51	13 4	3.0 2.9	2.2 0.9
Adair	38	5	2.9	1.5
Lincoln	62	4	2.9	0.9
Grant	108	9	2.8	1.0
Johnson	61	4	2.8	0.9
Rowan	109	6	2.7	0.5
Taylor	96	12	2.7	1.2
Wayne	41	4	2.4	1.0
Hart	66	3	2.3	0.6
Rockcastle	52	3	1.9	0.6
	POPULATI	ON CATEGORY 2	5,000 - 49,999	
Meade	133	6	5.9	0.9
Floyd	172	7	4.4	1.1
Nelson	239	18	4.2	1.4
Marshall	149	11	3.7	1.1
Shelby	245 185	15 15	3.6 3.6	1.0
Calloway Grayson	113	6	3.6	0.8 0.8
Montgomery	140	12	3.4	1.3
Scott	279	16	3.4	0.9
Franklin	253	10	3.3	0.8
Graves	152	10	3.3	0.9
Jessamine	252	24	3.2	1.4
Clark	188	8	3.2	0.7
Harlan	70	9	3.1	2.2
Greenup	96 90	9 4	3.1 3.0	1.3 0.6
Logan Boyle	119	6	2.8	0.6
Carter	81	6	2.8	1.0
Perry	103	6	2.8	1.0
Barren	187	12	2.7	0.7
Knox	83	8	2.6	1.2
Muhlenberg	112	11	2.6	1.1
Whitley	136	14	2.6	1.3
Henderson Hopkins	193 167	9 14	2.4 2.4	0.5
Boyd	173	13	2.4	0.9 1.0
Bell	60	4	1.9	0.7
Dile		ON CATEGORY 5		0.4
Pike Christian	279 367	27 24	4.1 3.9	2.1 1.4
Kenton	988	53	3.4	1.4
Campbell	526	26	3.4	0.7
Oldham	200	13	3.3	0.8
Madison	428	48	3.2	1.3
Fayette	2096	145	3.1	1.0
Hardin	452	27	3.0	0.9
Boone	747	62	3.0	1.0
Warren	692	53	2.9	0.8
Bullitt	292	18	2.8	0.8
McCracken Daviess	331 483	22 34	2.8 2.7	0.9 0.7
Jefferson	463 3769	130	2.7	0.7
Laurel	199	9	2.2	0.5
Pulaski	189	10	2.2	0.5
			40	

TABLE 21. CRASHES INVOLVING ALCOHOL BY CITY AND POPULATION CATEGORY(IN ORDER OF DECREASING PERCENTAGES)(2014-2018)

	DING! ENOLIVIAGE				
NUMBER				NUMBER OF	PERCENTAGE
ALCOH	OL- OF CRA			ALCOHOL-	OF CRASHES
CITY RELAT	ED INVO	LVING OHOL	CITY	RELATED CRASHES	INVOLVING ALCOHOL
CHASH	IES ALC	OHOL	CITY	CHASHES	ALCOHOL
POPULATION CATEGO	ORY OVER 200,000		POPL	JLATION CATEGORY	2,500-4,999
Lexington 1,7	725 670	3.1	Dawson Springs	11	5.6
Louisville 2,6	670	2.4	Ludlow	18	5.4
POPULATION CATEGO	JRY 20,000-60,000 315	4.3	Marion Irvine	9 4	3.7 3.3
Covington (Independence	68	4.3 3.8	Park Hills	4	3.3 3.3
Radcliff	82	3.4	Vine Grove	11	3.2
Hopkinsville	141	3.3	Calvert City	14	3.1
	163	2.8	Williamstown	16	3.1
	110	2.8	Southgate	20	3.1
	119 113	2.8 2.7	Lancaster Scottsville	13 19	3.0 2.8
Florence	228	2.7	Wilmore	7	2.7
	136	2.5	Prestonsburg	34	2.6
Owensboro	270	2.4	Hodgenville	9	2.5
Jeffersontown	96	2.3	Greenville	16	2.3
	317	2.3	Barbourville	13	2.2
	100 134	2.2 2.1	Carrollton Flemingsburg	11 9	2.2 2.2
Ashland	73	2.1	Beaver Dam	10	2.2 2.1
POPULATION CATEGO	ORY 10.000-19.999	2.1	Flemingsburg	9	2.2
Fort Thomas	45	3.6	Columbia	11	2.0
Bardstown	85	3.3	Hartford	5	1.8
Shelbyville	72	3.3	Russell	12	1.7
	128 121	3.1 3.1	Springfield	6 12	1.7 1.7
Newport Winchester	82	2.8	Grayson Lakeside Park	4	1.7
Erlanger	94	2.7	Benton	12	1.6
Shepherdsville	78	2.4	Stanford	8	1.5
Lawrenceburg	21	2.2	Stanton	5	1.5
Glasgow	59	2.2	Providence	8 5 2 7	1.3
Danville	58 58	2.2 2.1	Paintsville	1	0.8
Murray Berea	33	1.7			
Madisonville	51	1.7			
Somerset	52	1.3			
Mayfield	20	1.3			
POPULATION CATEG		0.0			
Dayton Bellevue	30 30	8.2 4.5			
Versailles	52	3.8			
Taylor Mill	33	3.7			
Maysville	56	3.6			
Harrodsburg	37	3.6			
Central City	29	3.6			
Villa Hills	7	3.4 3.2			
Franklin Pikeville	48 73	3.∠ 3.1			
Russellville	31	3.0			
Lebanon	27	2.9			
<u>Flatwoods</u>	12	2.9			
Elsmere	15	2.8			
Cynthiana Mount Sterling	25 40	2.7 2.7			
Paris	34	2.5			
Highland Heights	26	2.5			
Mount Washington	32	2.4			
Fort Wright	55	2.4			
Corbin Corbin	34	2.2			
Fort Mitchell Leitchfield	29 24	2.2 2.1			
Williamsburg	16	2.1			
Cold Spring	22	2.1			
Alexandria	23	2.1			
La Grange	19	1.7			
Princeton	15	1.7			
Monticello Morehead	17 36	1.7 1.6			
Edgewood	12	1.6			
Campbellsville	28	1.5			
London	44	1.4			

TABLE 22. SUMMARY OF ALCOHOL CONVICTIONS BY COUNTY (2014 - 2018)

TABLE 22. SOWI	WAITI OF A	ALCOI IC	L CONV	IC HOIV	3 01 00	01111 (2014 - 2010)	)	A1 001101
						TOTAL	ANNUAL AVEDACE	ALCOHOL
						TOTAL	ANNUAL AVERAGE	CONVICTIONS PER ALCOHOL-
						ALCOHOL CONVICTIONS	ALCOHOL CONVICTIONS	
COLINTY	2014	2015	2016	2017	2018	(FIVE YEARS)**	PER 1,000 LICENSED DRIVERS	RELATED CRASH
COUNTY	2014	2013	2010	2017	2010	(FIVE TEARS)	LICENSED DRIVERS	СКАЗП
Adair	48	47	72	67	54	288	4.6	7.6
Allen	56	54	61	44	53	268	3.9	3.0
Anderson	77	56	78	110	75	396	4.6	3.9
Ballard	39	25	29	14	24	131	4.5	3.0
Barren	167	150	118	144	134	713	4.7	3.8
Bath	33	23	19	16	20	111	2.6	4.4
Bell	141	90	87	79	135	532	6.6	8.9
Boone	457	462	443	348	324	2,034	4.3	2.7
Bourbon	91	76	100	78	98	443	6.4	3.6
Boyd	226	189	191	285	224	1,115	6.9	6.4
Boyle	144	129	86	106	75	540	5.4	4.5
Bracken	11	13	22	11	8	65	2.1	1.4
Breathitt	66	60	68	53	69	316	7.2	9.0
Breckinridge	34	39	31	33	28	165	2.3	3.1
Bullitt	164	138	112	99	80	593	2.0	2.0
Butler	53	49	37	30	18	187	4.2	2.8
Caldwell	40	36	44	41	40	201	4.4	4.7
Calloway	242	164	134	219	155	914	7.5	4.9
Campbell	397	370	375	331	304	1,777	5.6	3.4
Carlisle	11	13	10	8	1	43	2.3	2.9
Carroll	59	57	69	47	27	259	7.4	3.9
Carter	78	75	73	82	88	396	4.2	4.9
Casey	74	54	46	48	27	249	4.7	7.1
Christian	245	214	200	165	170	994	5.0	2.7
Clark	198	167	129	97	85	676	5.3	3.6
Clay	81	78	101	101	91	452	7.4	8.1
Clinton	48	43	29	18	24	162	4.8	6.0
Crittenden	22 20	25 34	29 37	27 47	25 37	128 175	4.3 7.4	2.8 7.6
Cumberland Daviess	448	331	272	216	214	1,481	4.2	3.1
Edmonson	26	331	24	19	28	1,461	2.9	3.4
Elliott	9	6	10	7	16	48	2.2	2.1
Estill	87	65	37	58	46	293	5.9	12.2
Fayette	1,255	929	813	801	699	4,497	4.5	2.1
Fleming	47	59	60	59	46	271	5.3	5.9
Floyd	186	217	208	140	198	949	7.7	5.5
Franklin	233	190	238	196	193	1,050	6.0	4.2
Fulton	47	71	61	96	79	354	17.9	13.1
Gallatin	39	43	49	22	29	182	6.1	4.3
Garrard	36	80	62	72	46	296	4.9	3.8
Grant	84	65	92	51	44	336	3.9	3.1
Graves	144	199	182	149	79	753	5.9	5.0
Grayson	101	141	96	107	80	525	5.7	4.6
Green	18	19	9	17	11	74	1.9	3.1
Greenup	143	138	105	119	124	629	4.8	6.6
Hancock	17	16	13	9	7	62	1.9	3.0
Hardin	468	477	419	376	280	2,020	5.4	4.5
Harlan	140	124	122	119	50	555	6.2	7.9
Harrison	60	56	47	38	31	232	3.6	3.1
Hart	74	62	52	36	33	257	4.2	3.9
Henderson	233	237	205	165	145	985	6.2	5.1
Henry	122	78	63	84	40	387	6.6	4.4
Hickman	14	18	13	17	10	72	4.6	4.5
Hopkins	230	275	210	217	213	1,145	7.1	6.9
Jackson	17	25	24	54	47	167	3.7	6.7
Jefferson	1,363	862	668	744	710	4,347	1.7	1.2
Jessamine	149	157	231	172	165	874	4.9	3.5
Johnson	133	102	95	75 500	81	486	6.3	8.0
Kenton	522	442	529	523	599	2,615	4.7	2.6
Knott	82	101	98	62	81	424	8.7	11.5
Knox	268	187	191	170	191	1,007	9.8	12.1
Larue	33	39 530	33 554	51	40	196	3.8	3.1
Laurel	582	530	554	483	418	2,567	12.4	12.9

TABLE 22. SUMMARY OF ALCOHOL CONVICTIONS BY COUNTY (2014 - 2018) (continued)

							,	ALCOHOL
						TOTAL	ANNUAL AVERAGE	CONVICTIONS
						ALCOHOL	ALCOHOL CONVICTIONS	PER ALCOHOL-
						CONVICTIONS	PER 1,000	RELATED
COUNTY	2014	2015	2016	2017	2018	(FIVE YEARS)**	LICENSED DRIVERS	CRASH
0001111	2017	2010	2010	2017	2010	(FIVE FEATO)	LIGENGED DIVIVENO	OTOTOTT
Lawrence	53	58	59	41	34	245	4.6	5.3
Lee	20	22	14	38	34	128	5.9	7.1
Leslie	13	19	21	12	18	83	2.3	16.6
Letcher	81	44	77	57	63	322	4.3	5.3
Lewis	40	37	40	35	44	196	4.2	5.4
Lincoln	57	81	73	76	79	366	4.3	5.9
Livingston	24	31	36	21	12	124	3.5	3.9
Logan	129	117	106	94	98	544	5.7	6.0
Lyon	83	60	67	63	59	332	11.6	7.1
McCracken	380	403	221	297	286	1,587	6.6	4.8
McCreary	98	96	87	136	97	514	10.1	15.1
McLean	90	105	58	36	41	330	9.7	7.2
Madison	75	105	121	287	229	817	2.7	1.9
Magoffin	67	44	37	82	95	325	7.6	9.8
Marion	108	86	119	50	41	404	6.2	3.8
Marshall	308	316	339	146	124	1,233	10.3	8.3
Martin	152	102	86	54	58	452	13.3	28.3
Mason	25	26	34	67	44	196	3.3	1.3
Meade	88	78	52	50	39	307	3.1	2.3
Menifee	11	8	9	11	4	43	1.9	2.9
Mercer	47	51	70	78	63	309	3.7	3.1
Metcalfe	30	22	33	30	32	147	4.0	3.1
Monroe	35	43	39	51	64	232	6.2	14.5
Montgomery	108	66	73	74	75	396	4.1	2.8
Morgan	20	25	63	19	22	149	3.7	5.5
Muhlenberg	192	152	128	104	103	679	6.2	6.1
Nelson	154	184	174	114	84	710	4.2	3.0
Nicholas	32	43	49	35	26	185	7.3	5.4
Ohio	62	75	129	87	77	430	5.1	4.1
Oldham	234	175	123	126	109	767	3.3	3.8
Owen	17	25	28	23	21	114	2.9	2.7
Owsley	18	10	43	13	20	104	6.9	17.3
Pendleton	25	24	22	25	19	115	2.2	2.0
Perry	85	93	82	78	57	395	4.3	3.8
Pike	162	102	109	103	86	562	2.8	2.0
Powell	69	45	52	57	41	264	6.0	6.4
Pulaski	221	258	211	195	276	1,161	5.1	6.1
Robertson	5	3	2	2	5	17	2.1	3.4
Rockcastle	70	66	62	61	64	323	5.6	6.2
Rowan	124	120	158	111	93	606	8.0	5.6
Russell	47	63	65	65	47	287	4.6	5.6
Scott	194	185	158	165	196	898	4.7	3.2
Shelby	205	211	204	160	192	972	6.1	4.0
Simpson	51	42	55	65	76	289	4.3	2.6
Spencer	54	40	52	62	80	288	4.0	3.7
Taylor	88	81	67	65	55	356	4.0	3.7
Todd	66	58	38	19	51	232	6.0	6.4
Trigg	94	92	87	55	46	374	7.4	5.8
Trimble	23	21	13	17	16	90	2.8	2.4
Union	82	65	38	29	43	257	5.1	5.1
Warren	493	464	443	398	347	2,145	5.3	3.1
Washington	25	26	15	19	24	109	2.6	2.1
Wayne	33	44	46	25	40	188	2.8	4.6
Webster	16	25	47	12	8	108	2.4	4.2
Whitley	191	123	151	168	164	797	6.8	5.9
Wolfe	26	29	35	42	51	183	7.7	10.2
Woodford	176	152	107	120	124	679	7.0	4.0
TOTAL *	16,208	14,443	13,642	12,797	11,962	69,052	4.6	3.4

<sup>\*</sup>Convictions in cases filed in the same calander year.
\*\*There were 25,022 arrests on average from 2014 to 2018.

TABLE 23. ALCOHOL CONVICTION RATES IN DECREASING ORDER (BY COUNTY POPULATION CATEGORIES) (2014 - 2018)

				ALCOHOL
		ANNUAL AVERAGE		CONVICTIONS
		ALCOHOL CONVICTIONS		PER ALCOHOL-
		PER 1,000		RELATED
POPULATION	COUNTY	LICENSED DRIVERS	COUNTY	CRASH
UNDER 10,000	Fulton	17.9 11.6	Owsley Fulton	17.3 13.1
	Lyon McLean	9.7	Wolfe	10.2
	Wolfe	7.7	Cumberland	7.6
	Cumberland	7.4	McLean	7.2
	Nicholas	7.3	Lee	7.1
	Owsley	6.9	Lyon	7.1
	Gallatin	6.1	Nicholas	5.4
	Lee	5.9	Hickman	4.5
	Hickman Ballard	4.6	Gallatin	4.3
	Crittenden	4.5 4.3	Livingston Robertson	3.9 3.4
	Livingston	3.5	Ballard	3.0
	Trimble	2.8	Hancock	3.0
	Carlisle	2.3	Carlisle	2.9
	Elliott	2.2	Menifee	2.9
	Robertson	2.1	Crittenden	2.8
	Bracken	2.1	Trimble	2.4
	Hancock	1.9	Elliott	2.1
	Menifee	1.9	Bracken	1.4
10,000-14,999	Martin	13.3	Martin	28.3
	Magoffin	7.6	Leslie	16.6
	Carroll	7.4	Monroe	14.5
	Trigg Breathitt	7.4 7.2	Estill	12.2 9.8
	Monroe	6.2	Magoffin Breathitt	9.0
	Todd	6.0	Jackson	6.7
	Powell	6.0	Todd	6.4
	Estill	5.9	Powell	6.4
	Fleming	5.3	Clinton	6.0
	Clinton	4.8	Fleming	5.9
	Caldwell	4.4	Trigg	5.8
	Butler Lewis	4.2 4.2	Morgan Lewis	5.5 5.4
	Metcalfe	4.2	Caldwell	4.7
	Larue	3.8	Bath	4.4
	Jackson	3.7	Webster	4.2
	Morgan	3.7	Carroll	3.9
	Owen	2.9	Edmonson	3.4
	Edmonson	2.9	Metcalfe	3.1
	Bath	2.6 2.6	Larue	3.1
	Washington Webster	2.6	Green Butler	3.1 2.8
	Leslie	2.4	Owen	2.7
	Pendleton	2.2	Washington	2.1
	Green	1.9	Pendleton	2.0
15,000-24,999	McCreary	10.1	McCreary	15.1
,,	Knott	8.7	Knott	11.5
	Rowan	8.0	Clay	8.1
	Clay	7.4	Johnson	8.0
	Woodford	7.0	Adair	7.6
	Henry	6.6	Casey	7.1
	Bourbon Johnson	6.4 6.3	Rockcastle Lincoln	6.2
	Marion	6.2	Russell	5.9 5.6
	Rockcastle	5.6	Rowan	5.6
	Ohio	5.1	Lawrence	5.3
	Union	5.1	Letcher	5.3
	Garrard	4.9	Union	5.1
	Casey	4.7	Wayne	4.6
	Anderson	4.6	Henry	4.4
	Adair Lawrence	4.6 4.6	Ohio Woodford	4.1 4.0
	Russell	4.6 4.6	Hart	3.9
		1.0		3.3

TABLE 23. ALCOHOL CONVICTION RATES IN DECREASING ORDER (BY COUNTY POPULATION CATEGORIES) (2014 - 2018) (continued)

ANNUAL AVERAGE   COUNTY   PER ALCOHOL CONVICTIONS   PER 1,000	
COUNTY	HOL
PER 1,000	
POPULATION	
15,000-24,999	TED
(cont'd)         Simpson Lincoln         4.3         Marion Marion           Hart         4.2         Spencer           Taylor         4.0         Taylor           Spencer         4.0         Bourbon           Allen         3.9         Mercer           Grant         3.9         Grant           Mercer         3.7         Harrison           Mason         3.3         Allen           Wayne         2.8         Simpson           Breckinridge         2.3         Mason           25,000 - 49,999         Marshall         10.3         Knox           Knox         9.8         Bell           Floyd         7.7         Marshall           Calloway         7.5         Harlan           Hopkins         7.1         Hopkins           Boyd         6.9         Greenup           Whitley         6.8         Boyd           Harlan         6.2         Whitley           Henderson         6.2         Floyd           Shelby         6.1         Henderson           Franklin         6.0         Graves           Logan         5.7         Carter           Gr	SH
Lincoln	3.9
Hart	3.8
Taylor   Spencer   4.0   Bourbon   Allen   3.9   Mercer   Grant   3.9   Grant   Mercer   3.7   Harrison   Harrison   3.6   Breckinridge   Breckinridge   2.3   Mason   Mason	3.8
Spencer   4.0   Bourbon   Allen   3.9   Mercer   Grant   3.9   Mercer   Grant   Mercer   3.7   Harrison   3.6   Breckinridge   Mason   3.3   Allen   Mason   3.3   Allen   Mason   3.3   Allen   Mason   3.3   Allen   Mason   Mason	3.7
Allen Grant 3.9 Grant Mercer Grant 3.9 Grant Allen Grant 3.9 Grant Harrison 3.6 Breckinridge Mason 3.3 Allen Wayne 2.8 Simpson Breckinridge 2.3 Mason 3.3 Allen Mason 3.3 Mason 3.3 Allen Mason 3.3 Mason 3.3 Mason 3.4 Mason 3.5	3.7
Grant Mercer         3.7 Harrison           Harrison         3.6 Breckinridge           Mason         3.3 Allen           Wayne         2.8 Simpson           Breckinridge         2.3 Mason           25,000 - 49,999         Marshall         10.3 Knox           Floyd         7.7 Marshall           Knox         9.8 Bell           Floyd         7.7 Marshall           Calloway         7.5 Harlan           Hopkins         7.1 Hopkins           Boyd         6.9 Greenup           Whitley         6.8 Boyd           Bell         6.6 Muhlenberg           Harlan         6.2 Logan           Muhlenberg         6.2 Floyd           Henderson         6.2 Floyd           Shelby         6.1 Henderson           Franklin         6.0 Graves           Logan         5.7 Carter           Grayson         5.7 Grayson           Boyle         5.4 Boyle           Clark         5.3 Franklin           Jessamine         4.9 Shelby           Greenup         4.8 Perry           Barren         4.7 Clark           Perry         4.3 Jessamine           Carter         4.2 Scott	3.6
Mercer	3.1
Harrison   3.6   Breckinridge   Mason   3.3   Allen   Wayne   2.8   Simpson   Breckinridge   2.3   Mason   M	3.1
Mason         3.3         Allen           Wayne         2.8         Simpson           Breckinridge         2.3         Mason           25,000 - 49,999         Marshall         10.3         Knox           Knox         9.8         Bell           Floyd         7.7         Marshall           Calloway         7.5         Harlan           Hopkins         7.1         Hopkins           Boyd         6.9         Greenup           Whitley         6.8         Boyd           Bell         6.6         Muhlenberg           Harlan         6.2         Logan           Muhlenberg         6.2         Whitley           Henderson         6.2         Floyd           Shelby         6.1         Henderson           Franklin         6.0         Graves           Graves         5.9         Calloway           Logan         5.7         Carter           Grayson         5.7         Grayson           Boyle         5.4         Boyle           Clark         5.3         Franklin           Jessamine         4.9         Shelby           Greenup         4.8	3.1
Wayne   2.8   Simpson	3.1
Breckinridge   2.3   Mason	3.0
Breckinridge   2.3   Mason	2.6
25,000 - 49,999   Marshall   10.3   Knox   Knox   9.8   Bell   Floyd   7.7   Marshall   Calloway   7.5   Harlan   Hopkins   7.1   Hopkins   Hopkins   6.9   Greenup   Whitley   6.8   Boyd   Bell   6.6   Muhlenberg   Harlan   6.2   Logan   Muhlenberg   6.2   Whitley   Henderson   6.2   Floyd   Shelby   6.1   Henderson   Graves   5.9   Calloway   Logan   5.7   Carter   Grayson   5.7   Grayson   Boyle   5.4   Boyle   Clark   5.3   Franklin   Jessamine   4.9   Shelby   Greenup   4.8   Perry   Barren   4.7   Barren   Scott   4.7   Clark   Perry   4.3   Jessamine   4.9   Shelby   Carter   4.2   Scott   Nelson   Montgomery   4.1   Montgomery   Meade   3.1   Meade   So,000 - OVER   Laurel   McCracken   6.6   Pulaski   Campbell   5.6   McCracken   McCracken   Campbell   5.6   McCracken   McCrack	1.3
Knox	
Knox	12.1
Floyd	8.9
Cailoway	8.3
Hopkins   7.1	7.9
Boyd   6.9   Greenup	6.9
Whitley         6.8         Boyd           Bell         6.6         Muhlenberg           Harlan         6.2         Logan           Muhlenberg         6.2         Whitley           Henderson         6.2         Floyd           Shelby         6.1         Henderson           Franklin         6.0         Graves           Graves         5.9         Calloway           Logan         5.7         Carter           Grayson         5.7         Grayson           Boyle         5.4         Boyle           Clark         5.3         Franklin           Jessamine         4.9         Shelby           Greenup         4.8         Perry           Barren         4.7         Barren           Scott         4.7         Clark           Perry         4.3         Jessamine           Carter         4.2         Scott           Nelson         4.2         Nelson           Montgomery         4.1         Montgomery           Meade         3.1         Meade           50,000 - OVER         Laurel         6.6         Pulaski           Campbell         5.6 <td>6.6</td>	6.6
Bell	6.4
Harlan   6.2   Logan   Muhlenberg   6.2   Whitley   Henderson   6.2   Floyd   Shelby   6.1   Henderson   Graves   6.9   Calloway   Carter   Grayson   5.7   Carter   Grayson   5.7   Grayson   Grayson   5.7   Grayson   Grayson   5.4   Boyle   Clark   5.3   Franklin   Jessamine   4.9   Shelby   Greenup   4.8   Perry   Barren   4.7   Barren   Scott   4.7   Clark   Perry   4.3   Jessamine   Carter   4.2   Scott   Nelson   Montgomery   4.1   Montgomery   Meade   3.1   Meade   So,000 - OVER   Laurel   McCracken   6.6   Pulaski   Campbell   5.6   McCracken   McCracken   Campbell   5.6   McCracken   McCracken   Campbell   5.6   McCracken   M	6.1
Muhlenberg         6.2         Whitley           Henderson         6.2         Floyd           Shelby         6.1         Henderson           Franklin         6.0         Graves           Graves         5.9         Calloway           Logan         5.7         Carter           Grayson         5.7         Grayson           Boyle         5.4         Boyle           Clark         5.3         Franklin           Jessamine         4.9         Shelby           Greenup         4.8         Perry           Barren         4.7         Barren           Scott         4.7         Clark           Perry         4.3         Jessamine           Carter         4.2         Scott           Nelson         4.2         Nelson           Montgomery         4.1         Montgomery           Meade         3.1         Meade           50,000 - OVER         Laurel         6.6         Pulaski           Campbell         5.6         McCracken	
Henderson   6.2   Floyd	6.0
Shelby   6.1   Henderson	5.9
Franklin   6.0   Graves   Graves   5.9   Calloway   Logan   5.7   Carter   Grayson   5.7   Grayson   Boyle   5.4   Boyle   Clark   5.3   Franklin   Jessamine   4.9   Shelby   Greenup   4.8   Perry   Barren   4.7   Barren   Scott   4.7   Clark   Perry   4.3   Jessamine   Carter   4.2   Scott   Nelson   4.2   Nelson   Montgomery   4.1   Montgomery   Meade   3.1   Meade   McCracken   6.6   Pulaski   Campbell   5.6   McCracken   McCracken   Campbell   5.6   McCracken   Carter   Carter   Campbell   5.6   McCracken   Campbell   5.6   McCracken   Campbell   5.6   McCracken   Carter   Carter   Campbell   5.6   McCracken   Campbell   5.6   McCracken   Campbell   5.6   McCracken   Carter   Carter   Campbell   Campbell   Carter   C	5.5
Graves	5.1
Logan   5.7   Carter	5.0
Grayson   5.7   Grayson   Boyle   5.4   Boyle   Clark   5.3   Franklin   Jessamine   4.9   Shelby   Greenup   4.8   Perry   Barren   4.7   Barren   Scott   4.7   Clark   Perry   4.3   Jessamine   Carter   4.2   Scott   Nelson   4.2   Nelson   Montgomery   4.1   Montgomery   Meade   3.1   Meade   McCracken   6.6   Pulaski   Campbell   5.6   McCracken	4.9
Boyle	4.9
Clark         5.3         Franklin           Jessamine         4.9         Shelby           Greenup         4.8         Perry           Barren         4.7         Barren           Scott         4.7         Clark           Perry         4.3         Jessamine           Carter         4.2         Scott           Nelson         4.2         Nelson           Montgomery         4.1         Montgomery           Meade         3.1         Meade           50,000 - OVER         Laurel         12.4         Laurel           McCracken         6.6         Pulaski           Campbell         5.6         McCracken	4.6
Jessamine   4.9   Shelby	4.5
Greenup   4.8   Perry	4.2
Barren   4.7   Barren     Scott   4.7   Clark     Perry   4.3   Jessamine     Carter   4.2   Scott     Nelson   4.2   Nelson     Montgomery   4.1   Montgomery     Meade   3.1   Meade     50,000 - OVER   Laurel     McCracken   6.6   Pulaski     Campbell   5.6   McCracken	4.0
Scott   4.7   Clark	3.8
Perry	3.8
Carter   4.2   Scott	3.6
Nelson Montgomery Meade         4.2 4.1 Montgomery Meade         Nelson Montgomery Meade           50,000 - OVER         Laurel McCracken Campbell         12.4 6.6 Pulaski December         Laurel McCracken December           5.6         McCracken McCracken	3.5
Montgomery Meade         4.1 Montgomery Meade           50,000 - OVER         Laurel McCracken 6.6 Pulaski Campbell         5.6 McCracken	3.2
Meade         3.1         Meade           50,000 - OVER         Laurel McCracken 6.6 Pulaski Campbell         6.6 McCracken McCracken	3.0
50,000 - OVER         Laurel         12.4         Laurel           McCracken         6.6         Pulaski           Campbell         5.6         McCracken	2.8
McCracken 6.6 Pulaski Campbell 5.6 McCracken	2.3
McCracken 6.6 Pulaski Campbell 5.6 McCracken	
Campbell 5.6 McCracken	12.9
·	6.1
11 P	4.8
Hardin 5.4 Hardin	4.5
Warren 5.3 Oldham	3.8
Pulaski 5.1 Campbell	3.4
Christian 5.0 Warren	3.1
Kenton 4.7 Daviess	3.1
Fayette 4.5 Boone	2.7
Boone 4.3 Christian	2.7
Daviess 4.2 Kenton	2.6
Oldham 3.3 Fayette	2.1
Pike 2.8 Bullitt	2.0
Madison 2.7 Pike	2.0
Bullitt 2.0 Madison	1.9
Jefferson 1.7 Jefferson	1.9
Jeneison 1.7 Jeneison	1.2

TABLE 24. PERCENTAGE OF DRIVERS CONVICTED OF DUI FILINGS (BY COUNTY) (2014 - 2018)\*

TABLE 24. PERCENTAGE OF DRIVERS CONVICTED OF DUI FILINGS (BY COUNTY) (2014 - 2018)*  TOTAL DUI TOTAL DUI TOTAL DUI CONVICTIO								
COUNTY	FILED	CONVICTED	NON-CONVICTED	PERCENTAGE**				
0001111	I IEED	CONTROLED	HOR CONVIOLED	TEROENTAGE				
Adair	569	288	89	76.4				
Allen	528	268	39	87.3				
Anderson	736	396	76	83.9				
Ballard	241	131	47	73.6				
Barren	1,578	713	250	74.0				
Bath	231	111	24	82.2				
Bell	1,824	532	284	65.2				
Boone	3,035	2,034	298	87.2				
Bourbon	722	443	60	88.1				
Boyd	1,718	1,115	254	81.4				
Boyle	877	540	76	87.7				
Bracken	99	65	14	82.3				
Breathitt	585	316	50	86.3				
Breckinridge	247	165	30	84.6				
Bullitt	1,465	593	214	73.5				
Butler	347	187	66	73.9				
Caldwell	308	201	38	84.1				
Calloway	1,334	914	181	83.5				
Campbell	2,466	1,777	315	84.9				
Carlisle	2,400	43	20	68.3				
Carroll	605	259	129	66.8				
Carter	899	396	139	74.0				
	420	249	79	74.0 75.9				
Casey Christian	1,700	994	253	79.7 79.7				
Clark	1,700	676	255 89	79.7 88.4				
Clay	999 359	452 162	250	64.4				
Clinton			14	92.0 87.1				
Crittenden	175	128	19					
Cumberland	324	175	35	83.3				
Daviess	3,073	1,481	425	77.7				
Edmonson	235	128	47	73.1				
Elliott	116	48	18	72.7				
Estill	459	293	56	84.0				
Fayette	6,388	4,497	475	90.4				
Fleming	568	271	75	78.3				
Floyd	1,772	949	227	80.7				
Franklin	1,943	1,050	237	81.6				
Fulton	668	354	144	71.1				
Gallatin	386	182	93	66.2				
Garrard	432	296	51	85.3				
Grant	673	336	142	70.3				
Graves	1,601	753	260	74.3				
Grayson	864	525	96	84.5				
Green	160	74	20	78.7				
Greenup	937	629	93	87.1				
Hancock	103	62	10	86.1				
Hardin	3,432	2,020	603	77.0				
Harlan	1,650	555	110	83.5				
Harrison	421	232	46	83.5				
Hart	550	257	105	71.0				
Henderson	1,852	985	192	83.7				
Henry	645	387	88	81.5				
Hickman	150	72	39	64.9				
Hopkins	1,792	1,145	243	82.5				
Jackson	270	167	46	78.4				
Jefferson	10,983	4,347	867	83.4				
Jessamine	1,357	874	102	89.5				
Johnson	877	486	127	79.3				
Kenton	3,929	2,615	451	85.3				
Knott	711	424	91	82.3				
Knox	1,848	1,007	269	78.9				

	OF DRIVERS CONVICTED OF DU TOTAL DUI	TOTAL DUI	TOTAL DUI	CONVICTION
COUNTY	FILED	CONVICTED	NON-CONVICTED	PERCENTAGE
Laurel	3,485	2,567	311	89.2
Lawrence	427	245	51	82.8
Lee	231	128	12	91.4
Leslie	218	83	60	58.0
Letcher	603	322	91	78.0
Lewis	284	196	31	86.3
Lincoln	603	366	81	81.9
Livingston	205	124	29	81.0
Logan	875	544	163	76.9
Lyon	543	332	70	82.6
McCracken	2,612	1,587	418	79.2
McCreary	943	514	163	75.9
McLean	606	330	84	79.7
Madison	1,404	817	200	80.3
Magoffin	574	325	45	87.8
Marion	700	404	94	81.1
Marshall	1,836	1,233	287	81.1
Martin	731	452	93	82.9
Mason	329	196	39	83.4
Meade	449	307	53	85.3
Menifee	68	43	7	86.0
Mercer	489	309	54	85.1
Metcalfe	233	147	33	81.7
Monroe	457	232	46	83.5
Montgomery	684	396	74	84.3
Morgan	310	149	47	76.0
Muhlenberg	1,244	679	85	88.9
Nelson	1,171	710	145	83.0
Nicholas	351	185	33	84.9
Ohio	878	430	160	72.9
Oldham	1,220	767	68	91.9
Owen	242	114	48	70.4
Owsley	190	104	23	81.9
Pendleton	190	115	22	83.9
Perry	1,196	395	135	74.5
Pike	2,220	562 264	289 65	66.0
Powell Pulaski	494 2,230		299	80.2 79.5
Robertson	30	1,161 17	299	89.5
Rockcastle	835	323	151	68.1
Rowan	922	606	72	89.4
Russell	561	287	66	81.3
Scott	1,480	898	167	84.3
Shelby	1,706	972	149	86.7
Simpson	492	289	29	90.9
Spencer	589	288	74	79.6
Taylor	658	356	99	78.2
Todd	360	232	55	80.8
Trigg	624	374	95	79.7
Trimble	191	90	23	79.6
Union	405	257	61	80.8
Warren	4,431	2,145	616	77.7
Washington	209	109	29	79.0
Wayne	441	188	42	81.7
Webster	233	108	36	75.0
Whitley	1,328	797	172	82.2
Wolfe	298	183	23	88.8
Woodford	999	679	64	91.4

TOTAL 125,108
\* Obtained from Administrative Office of the Courts.

69,052

15,385

81.8

<sup>\*\*</sup> Conviction percentage is equal to the number of DUI convictions divided by the sum of DUI convictions and non-convictions. The data apply to DUIs resolved in the calendar year of the arrest. Data does not include pending cases.

TABLE 25. DUI CONVICTION RATES BY COUNTY AND POPULATION CATEGORY (IN DESCENDING ORDER) (2014 - 2018)

(IN DESCENDING	GORDER) (2014 - 201	18)			
	AVERAGE				
	CONVICTION		TOTAL		
POPULATION CATEGORY	PERCENTAGE	COUNTY	ARRES	STS CONVICT	IONS PERCENTAGE*
UNDER 10,000	80.0	Lee	231	128	91.4
.,		Robertson	30	17	89.5
		Wolfe	298	183	88.8
		Crittenden	175	128	87.1
		Hancock	103	62	86.1
		Menifee	68	43	86.0
		Nicholas	351	185	84.9
		Cumberland	324	175	83.3
		Lyon	543	332	82.6
		Bracken	99	65	82.3
		Owsley	190	104	81.9
		Livingston	205	124	81.0
		McLean	606	330	79.7
		Trimble	191	90	79.6
		Ballard	241	131	73.6
		Elliott	116	48	72.7
		Fulton	668	354	71.1
		Carlisle	86	43	68.3
		Gallatin	386	182	66.2
		Hickman	150	72	64.9
			.00	. –	00
10,000-14,999	79.1	Clinton	359	162	92.0
10,000-14,999	19.1				
		Magoffin	574	325	87.8
		Lewis	284	196	86.3
		Breathitt	585	316	86.3
		Caldwell	308	201	84.1
		Estill	459	293	84.0
		Pendleton	190	115	83.9
		Monroe	457	232	83.5
		Martin	731	452	82.9
		Bath	231	111	82.2
		Metcalfe	233	147	81.7
		Todd	360	232	80.8
		Powell	494	264	80.2
		Trigg	624	374	79.7
		Washington	209	109	79.0
		Green	160	74	78.7
		Jackson	270	167	78.4
		Fleming	568	271	78.3
		· ·	310	149	76.0
		Morgan			
		Webster	233	108	75.0
		Butler	347	187	73.9
		Edmonson	235	128	73.1
		Larue	394	196	73.1
		Owen	242	114	70.4
		Carroll	605	259	66.8
		Leslie	218	83	58.0
		2000	2.0	00	00.0
15,000-24,999	80.5	Woodford	999	679	91.4
13,000-24,999	00.5		492	289	
		Simpson			90.9
		Rowan	922	606	89.4
		Bourbon	722	443	88.1
		Allen	528	268	87.3
		Garrard	432	296	85.3
		Mercer	489	309	85.1
		Breckinridge	247	165	84.6
		Anderson	736	396	83.9
		Harrison	421	232	
					83.5
		Mason	329	196	83.4
		Lawrence	427	245	82.8
		Knott	711	424	82.3
		Lincoln	603	366	81.9
		Wayne	441	188	81.7
		-			

TABLE 25. DUI CONVICTION RATES BY COUNTY AND POPULATION CATEGORY (IN DESCENDING ORDER) (2014 - 2018) (continued)

(	<u>3 ORDER) (2014 - 201</u> AVERAGE	-, (			
	CONVICTION		TOTAL DUI	TOTAL DUI	CONVICTION
POPULATION CATEGORY	PERCENTAGE	COUNTY	ARRESTS	CONVICTIONS	PERCENTAGE*
15,000-24,999		Henry	645	387	81.5
(continued)		Russell	561	287	81.3
		Marion	700	404	81.1
		Union	405	257	80.8
		Spencer	589	288	79.6
		Johnson	877	486	79.3
		Taylor	658	356	78.2
		Letcher	603	322	78.0
		Adair	569	288	76.4
		McCreary	943	514	75.9
		Casey	420	249	75.9
		Ohio	878	430	72.9
		Hart	550	257	71.0
		Grant	673	336	70.3
		Rockcastle	835	323	68.1
		Clay	999	452	64.4
		0.4,		.02	•
25,000-49,999	81.8	Jessamine	1,357	874	89.5
	01.0	Muhlenberg	1,244	679	88.9
		Clark	1,075	676	88.4
		Boyle	877	540	87.7
		Greenup	937	629	87.1
		Shelby	1,706	972	86.7
		Meade	449	307	85.3
			864		
		Grayson		525	84.5
		Scott	1,480	898	84.3
		Montgomery	684	396	84.3
		Henderson	1,852	985	83.7
		Calloway	1,334	914	83.5
		Harlan	1,650	555	83.5
		Nelson	1,171	710	83.0
		Hopkins	1,792	1,145	82.5
		Whitley	1,328	797	82.2
		Franklin	1,943	1,050	81.6
		Boyd	1,718	1,115	81.4
		Marshall	1,836	1,233	81.1
		Floyd	1,772	949	80.7
		Knox	1,848	1,007	78.9
		Logan	875	544	76.9
		Perry	1,196	395	74.5
		Graves	1,601	753	74.3
		Barren	1,578	713	74.0
		Carter	899	396	74.0
		Bell	1,824	532	65.2
			.,:		
50,000 - OVER	81.4	Oldham	1,220	767	91.9
,	<del>-</del> ···	Fayette	6,388	4,497	90.4
		Laurel	3,485	2,567	89.2
		Boone	3,035	2,034	87.2
		Kenton	3,929	2,615	85.3
		Campbell	2,466	1,777	84.9
		Jefferson	10,983	4,347	83.4
			,		
		Madison	1,404	817	80.3
		Christian	1,700	994	79.7
		Pulaski	2,230	1,161	79.5
		McCracken	2,612	1,587	79.2
		Daviess	3,073	1,481	77.7
		Warren	4,431	2,145	77.7
		Hardin	3,432	2,020	77.0
		Bullitt	1,465	593	73.5
		Pike	2,220	562	66.0

<sup>\*</sup>Refer to Table 24 for conviction rate calculation.

COUNTY			2016	2017		TOTAL RECKLESS DRIVING CONVICTIONS (FIVE YEARS)	ANNUAL AVERAGE RECKLESS DRIVING CONVICTIONS PER 1,000 LICENSED DRIVERS
		2015			2018		
	2014						
Adair Allen	7 8	13 7	13 1	13 11	14 14	60 41	1.0 0.6
Anderson	28	21	28	31	24	132	1.5
Ballard	5	11	13	5	8	42	1.4
Barren	42	39	50	39	17	187	1.2
Bath	7	3	1	3 9	9	23 49	0.5
Bell Boone	13 39	14 41	4 36	39	49	204	0.6 0.4
Bourbon	19	16	13	6	9	63	0.9
Boyd	25	25	15	28	23	116	0.7
Boyle	37	33	38	16	12	136	1.4
Bracken	1	2	6	7	5	21	0.7
Breathitt Breckinridge	16 5	5 1	8 2	4 9	5 5	38 22	0.9 0.3
Bullitt	65	61	35	30	36	227	0.8
Butler	3	2	4	3	3	15	0.3
Caldwell	8	10	19	28	14	79	1.7
Calloway	15	23	18	16	8	80	0.7
Campbell	33	25	23	28	16	125	0.4
Carlisle Carroll	1 12	2 4	1 5	2 6	0 8	6 35	0.3 1.0
Carter	10	26	15	19	8	78	0.8
Casey	6	1	10	3	10	30	0.6
Christian	50	48	37	45	42	222	1.1
Clark	13	15	9	9	9	55	0.4
Clay	9 7	13 3	12	9 7	10	53 25	0.9
Clinton Crittenden	2	4	5 3	7	3 6	22	0.7 0.7
Cumberland	8	11	11	15	8	53	2.2
Daviess	40	54	47	63	66	270	0.8
Edmonson	7	3	3	6	7	26	0.6
Elliott	3	1	6	2	1	13	0.6
Estill Fayette	1 111	2 84	1 89	1 95	1 88	6 467	0.1 0.5
Fleming	0	10	9	19	10	48	0.9
Floyd	14	27	24	29	28	122	1.0
Franklin	19	50	54	47	47	217	1.2
Fulton	56	8	7	6	7	84	4.2
Gallatin	5	6	14	20	8	53	1.8
Garrard Grant	6 16	14 16	12 9	7 7	12 13	51 61	0.8 0.7
Graves	21	61	51	32	26	191	1.5
Grayson	28	33	33	46	19	159	1.7
Green	31	4	3	4	5	47	1.2
Greenup	1	10	18	9	12	50	0.4
Hancock	10	2 78	8 74	2 72	7 77	29	0.9
Hardin Harlan	2 74	76 21	74 14	72 14	11	303 134	0.8 1.5
Harrison	26	7	9	6	8	56	0.9
Hart	12	10	9	19	14	64	1.1
Henderson	10	52	56	38	16	172	1.1
Henry	43	19	13	15	9	99	1.7
Hickman	17 2	0 28	2 28	1 29	2 27	22 114	1.4 0.7
Hopkins Jackson	42	3	6	9	4	64	1.4
Jefferson	3	218	254	364	238	1,077	0.4
Jessamine	209	17	29	16	12	283	1.6
Johnson	22	8	11	19	16	76	1.0
Kenton	19	76	69	70	72	306	0.5
Knott	70 3	1 36	2 12	1 6	3 8	77 65	1.6
Knov		აი	12	Ö	ď	co	0.6
Knox Larue	24	9	7	14	12	66	1.3

TABLE 26. SUMMARY OF RECKLESS DRIVING CONVICTIONS BY COUNTY (2014 - 2018) (continued)

COUNTY	2014	2015	2016	2017	2018	RECKLESS DRIVING CONVICTIONS (FIVE YEARS)	RECKLESS DRIVING CONVICTIONS PER 1,000 LICENSED DRIVERS
				_	_		
Lawrence	29	15	14	7	5	70	1.3
Lee Leslie	9	4 3	2 3	3 1	8 4	26 13	1.2 0.4
Letcher	1	7	1	5	6	20	0.4
Lewis	4	5	3	4	3	19	0.3
Lincoln	2	20	12	22	8	64	0.8
Livingston	18	9	13	6	6	52	1.5
Logan	13	25	26	29	27	120	1.3
Lyon	18	64	52	64	21	219	7.7
McCracken	39	39	34	35	15	162	0.7
McCreary	39	13	8	10	8	78	1.5
McLean	8	4	4	4	2	22	0.6
Madison	3	37	30	15	25	110	0.4
Magoffin	28	3	1	8	5	45	1.1
Marion	5	28	22	20	18	93	1.4
Marshall	18	14	17	10	10	69	0.6
Martin Mason	10 9	11 14	9 16	5 5	2 18	37 62	1.1 1.0
Meade	15	28	33	25	14	115	1.0
Menifee	27	1	3	3	14	35	1.5
Mercer	3	11	14	11	13	52	0.6
Metcalfe	10	6	3	6	8	33	0.9
Monroe	14	5	1	4	1	25	0.7
Montgomery	5	16	14	15	7	57	0.6
Morgan	17	3	3	2	1	26	0.6
Muhlenberg	4	34	38	33	20	129	1.2
Nelson	25	36	38	36	18	153	0.9
Nicholas	35	10	7	7	3	62	2.5
Ohio	2	4	4	5	4	19	0.2
Oldham	4	12	8	7	8	39	0.2
Owen	7	5	2	2	2	18	0.5
Owsley	2	1	4	5	5	17	1.1
Pendleton	3 7	2 8	8 27	10 27	9 25	32 94	0.6 1.0
Perry Pike	5	29	19	25	14	92	0.5
Powell	28	6	9	5	1	49	1.1
Pulaski	12	14	22	20	20	88	0.4
Robertson	8	1	1	1	0	11	1.4
Rockcastle	2	9	10	7	6	34	0.6
Rowan	15	19	19	18	11	82	1.1
Russell	16	7	8	10	4	45	0.7
Scott	7	23	30	24	16	100	0.5
Shelby	28	34	34	21	32	149	0.9
Simpson	40	28	28	19	44	159	2.4
Spencer	25	14	9	5	8	61	0.8
Taylor	4	16	18	14	13	65	0.7
Todd	12 10	10 59	17 37	10 27	18 19	67 152	1.7 3.0
Trigg		3	4	1	19	34	
Trimble Union	25 2	3 17	19	13	7	58	1.1 1.2
Warren	9	65	80	60	65	279	0.7
Washington	74	9	9	12	11	115	2.7
Wayne	6	9	15	9	11	50	0.7
Webster	5	9	14	10	7	45	1.0
Whitley	13	25	32	20	25	115	1.0
Wolfe	16	1	3	0	1	21	0.9
Woodford	4	18	10	14	13	59	0.6
TOTAL	2,250	2,380	2,361	2,345	1,962	11,298	0.8

TABLE 27. PERCENTAGE OF CRASHES INVOLVING DRUGS BY COUNTY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES) (2014-2018)(ALL ROADS)

(IN ORDER OF DECREASING PERCENTAGES) (2014-2018)(ALL ROADS)						
COUNTY	NUMBER OF CRASHES	PERCENT OF TOTAL CRASHES	COUNTY	NUMBER OF CRASHES	PERCENT OF TOTAL CRASHES	
	ION CATEGORY UNDE	R 10,000		ON CATEGORY 15,000		
Elliott Lee	10 10	3.4 2.8 2.5 2.3	Clay Knott	94 52 67	5.2 4.5	
Owsley	6	2.5	Letcher	67	4.2	
Nicholás Crittenden	17 20	2.3	McCreary Johnson	45 72	4.1	
Wolfe	16	2.1 2.1 2.0	Adair	72 35	2.7	
Menifee Robertson	7	2.0 1.8	Casey Anderson	22 50	3.3 2.7 2.5 1.9	
Ballard	3 16	1.8	Rockcastle	46	1.7	
Fulton	10	1.8 1.8 1.8	Lincoln	36	1.7	
Carlisle Cumberland	6 10	1.8 1.8	Spencer Ohio	25 50	1.7 1.6	
Lyon McLean	23 19	1.8 1.7	Lawrence	18	1.6	
McLean Trimble	19 14	1.7 1.6	Russell Mason	28 47	1.6 1.6	
Hickman	5	1.5	Rowan	59	1.5	
Livingston Gallatin	14 13	1.6 1.5 1.5 0.9	Mercer Grant	29 47	1.3 1.2	
Hancock	6	0.9 0.8	Marion	28	1.5 1.3 1.2 1.2 1.2	
Bracken	8 ION CATEGORY 10,000	0.8	Union Hart	18 30	1.2 1.1	
Magoffin	47	5.4	Harrison	28	1.1	
Breathitt Estill	49 27	3.9 3.6	Bourbon Allen	34 25	1.1 1.1	
Leslie	7	3.0	Simpson	28	0.9	
Martin	15 19	2.8 2.7	Garrard	17	0.9	
Lewis Fleming	24	20	Wayne Taylor	16 31	0.9 0.9 0.9 0.9 0.8	
Monroe	11	1.9 1.8 1.8 1.7	Henry	16	0.8	
Trigg Owen	31 19	1.8 1.8	Woodford Breckinridge	34 4	0.8 0.3	
Larue	26	1.7	POPULĀTI	ON CATEGORY 25,000	0-50,000	
Clinton Jackson	16 16	1.7 1.7	Floyd Harlan	213 115	5.4 5.1	
Morgan	12 18	1.5	Knox	134	4.3	
Webster Pendleton	18 23	1.4 1.4	Bell Perry	113 126	3.6 3.4	
Carroll	23 27	1.4 1.3 1.2 1.2 1.0 0.9	Whitley	123	2.3	
Powell Bath	17 10	1.2 1.2	Muhlenberg Montgomery	80 78	1.9 1.9 1.8	
Butler	16	1.2	Graves	83	1.8	
Todd Caldwell	11 18	1.0	Carter Franklin	48 120	1.7 1.6	
Edmonson	9	0.9 0.7	Boyd	117	1.6	
Washington Green	10 6 9	0.7	Ješsamine Grayson	118	1.5 1.4	
Metcalfe	9	0.7 0.7	Marshall	43 57	1.4	
			Greenup Calloway	42 60	1.3 1.2	
			Barren	76	1.1	
			Hopkins Boyle	81 47	1.1 1.1	
			Shelby	70	1.0	
			Nelson Clark	56 59	1.0 1.0	
			Henderson	83	1.0	
			Meade Scott	20 63	0.9 0.8	
			Logan	24	0.8	
			POPULATI	ION CATEGORY OVER		
			Pike Laurel	340 170	5.0 1.9	
			Madison	186	1.4	
			Kenton Campbell	381 206	1.3 1.3	
			Hardin	157	1.1	
			Daviess Christian	198 92	1.1 1.0	
			McCracken	120	1.0	
			Pulaski Bullitt	90 86	1.0 0.8	
			Warren	196	0.8	
			Fayette Boone	523 207	0.8 0.8	
			Oldham	46	0.8	
		61	Jefferson	1,042	0.7	

TABLE 28. PERCENTAGE OF CRASHES INVOLVING DRUGS BY CITY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES)(2014-2018)

		PERCENTAGE		NUMBER	PERCENTAGE
	OF DRUG-	OF CRASHES		OF DRUG-	OF CRASHES
	RELATED	INVOLVING		RELATED	INVOLVING
CITY	CRASHES	DRUGS	CITY	CRASHES	DRUGS
•		_			
POPULATION	CATEGORY OVER 2	00.000	POPU	LATION CATEGORY	2.500-4.999
Lexington	421	0.8	Barbourville	27	4.6
Louisville	762	0.7	Hazard	60	3.5
POPUI ATION	CATEGORY 20,000-	60 000	Providence	5	3.4
Nicholasville	68	1.6	Park Hills	4	3.3
Covington	115	1.6	Irvine	4	3.3
Frankfort	66	1.5	Prestonsburg		3.0
Radcliff	33	1.4	Marion	39	2.4
Ashland	51	1.4	Ludlow	6	2.4
Richmond	73	1.3		8	
			Southgate	15	2.3
Independence	23 46	1.3	Lancaster	8	1.8
Hopkinsville		1.1	Scottsville	12	1.8
Henderson	51	1.1	Stanford	10	1.8
Owensboro	111	1.0	Vine Grove	6	1.7
Florence	80	0.9	Paintsville	15	1.7
Paducah .	54	0.8	<u>M</u> organf <u>i</u> eld	6	1.7
Elizabethtown	39	0.7	Beaver Dam	8	1.6
Georgetown	26	0.7	Greenville	11	1.6
Bowling Green	81	0.6	Flemingsburg	6	1.5
Jeffersontown	20	0.5	Hartford	4 7	1.4
POPULATION	I CATEGORY 10,000-	19,999	Carrollton	7	1.4
Lawrenceburg	22	2.4	Calvert City	6	1.3
Fort Thomas	<del>2</del> 7	2.2	Columbia	7	1.3
Shively	54	1.3	Hodgenville	3	8.0
Glasgów	32	1.2	Stanton	2	0.6
Newport	45	1.2	Benton	2 4	0.5
Erlanger	37	1.1	Williamstown	2	0.4
Somerset	42	1.1	Lakeside Park	1	0.4
Madisonville	3 <u>1</u>	1.0	Wilmore		0.4
Mayfield	15	1.0		1	0.4
Bardstown	23	0.9			
Berea	18	0.9			
Winchester	25	0.9			
Danville	20	0.8			
Shelbyville	20 16	0.6 0.7			
	21	0.7			
Shepherdsville					
Murray	17	0.6			
	N CATEGORY 5,000-				
Dayton	15	4.1			
Pikeville	68	2.9			
Bellevue	17	2.5			
Central City	17	2.1			
Corbin	33	2.1			
Williamsburg	14	1.8			
Taylor Mill	16	1.8			
Cynthiana	13	1.4			
Leitchfield	15	1.3			
London	38	1.3			
Cold Spring	12	1.2			
Harrodsburg	12	1.2			
Mount Sterling	17	1.2			
Flatwoods	5	1.2			
Lebanon	11	1.2			
Maysville	19	1.2			
Fort Wright	25	1.1			
Versailles	13	1.0			
Versallies Villa Hills	2	1.0			
Highland Heights	10	0.9			
Franklin	13	0.9			
Morehead	19	0.9			
Russellville	9	0.9			
Princeton	8	0.9			
Paris	11	0.8			
Campbellsville	16	0.8			
Edgewood	5	0.7			
La Grange	6	0.6			
Monticello	<u>6</u>	0.6			
Fort Mitchell	7	0.5			
Elsmere	1	0.2			
Mount Washington	2	0.2			
Alexandria	1	0.1			

TABLE 29. SAFETY BELT USAGE BY COUNTY AND POPULATION CATEGORY (IN DESCENDING ORDER) (OBSERVED SURVEY BY ADD OF ALL FRONT SEAT OCCUPANTS IN 2007)

		PERCENT SEAT BELT		PERCENT SEAT BELT
COUNTY		USAGE*	COUNTY	USAGE*
	POPULATION CATEGORY UNDER 10,000			PULATION CATEGORY 15,000-24,999 (CONT'D)
Lyon		82.9	Mercer	60.6
Trimble*		77.1	Simpson	60.0
Hancock		73.6	Harrison	59.9
Gallatin		71.3	Russell	58.7
Livingston		71.1	Anderson	57.7
Carlisle		67.0	Rowan	54.6
Elliott		64.1	Allen	54.0
Fulton		62.9	Mason	53.5
McLean		60.3	Taylor	53.3
Wolfe		59.4	Garrard	52.5
Crittenden*		58.2	McCreary	51.3
Bracken		53.9	Letcher	51.2
Hickman		53.5	Breckinridge	50.3
Robertson		53.3	Wayne*	47.0
Lee		51.9	Casey	45.6
Nicholas*		50.6	Adair*	43.8
Menifee		48.9	Marion	43.1
Ballard		48.4	Hart*	40.4
Cumberland		46.5		POPULATION CATEGORY 25,000-50,000
Metcalfe		42.4	Shelby	80.0
Owsley		41.1	Whitley	74.0
	POPULATION CATEGORY 10,000-14,999		Henderson	71.8
Caldwell		70.8	Franklin	71.3
Carroll		70.7	Bell*	70.7
Pendleton		68.5	Hopkins	70.5
Webster		66.3	Laurel	69.2
Powell		64.6	Greenup	67.6
Jackson		64.5	Clark	67.6
Trigg		64.0	Boyd	66.9
Todd		63.8	Graves	66.7
Edmonson		63.7	Knox	66.5
Magoffin		59.7	Harlan	66.3
Leslie*		59.4	Jessamine	65.9
Larue		58.2	Calloway	65.0
Morgan*		57.9	Muhlenberg	61.8
Owen		57.7	Carter	61.1
Butler		57.3	Scott	60.8
Lewis		56.5	Marshall*	60.7
Martin		55.4	Boyle	60.7
Breathitt		53.8	Logan	60.4
Estill		53.1	Nelson	60.1
Clinton		49.4	Floyd	59.9
Green		48.1	Barren	57.9
Washington		46.5	Perry	56.6
Fleming		46.5	Meade	47.3
Bath		42.0	Montgomery	47.1
Monroe		40.1		POPULATION CATEGORY OVER 50,000
	POPULATION CATEGORY 15,000-24,999		Oldham	83.0
Rockcastle		76.9	Jefferson	81.1
Union		76.3	Bullitt	80.6
Henry		70.8	Boone	77.8
Woodford		70.6	Kenton	77.5
Spencer*		70.0	Campbell	75.8
Grant		69.5	Fayette	75.0
Ohio*		69.0	Daviess	70.9
Johnson		68.4	Madison	69.4
Grayson		64.7	Hardin	66.2
Knott		64.5	Christian	65.8
Clay		64.2	McCracken	65.1
				62.0
Lawrence*		63.2	Warren	63.0
		62.9	vvarren Pike*	62.3

See page 21 for 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.

\* Usage rate based on an annual seat belt study conducted by the Area Development Districts throughout the state.

TABLE 30. SAFETY BELT USAGE BY COUNTY POPULATION CATEGORY
(2007 OBSERVATIONAL DATA) (AREA DEVELOPMENT DISTRICTS)\*

(2007 OBSERVATIONAL DATA) (AREA DEVELOFINENT DISTRICTS)							
PERCENT USAGE							
POPULATION CATEGORY							
UNDER 10,000 - 15,000 - 25,000- OVER							
10,000	14,999	24,999	49,999	50,000			
59.0	57.5	59.1	64.3	71.2			

<sup>\*2009</sup> Statewide observational data resulted in a rate of 80 percent

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

	NOT WE SAFET		WEAI SAFET	_	PERCENT
TYPE OF INJURY	NUMBER	PERCENT	NUMBER	PERCENT	REDUCTION
Fatal	1,125	5.62	976	0.09	98
Incapacitating	2,006	10.02	6,801	0.63	94
Non-Incapacitating	3,296	16.47	34,135	3.18	81
Possible Injury	3,349	16.73	59,989	5.59	67
Fatal or Incapacitating	3,131	15.64	7,777	0.73	95

<sup>\*</sup> Based on 2014 through 2018 crash data. Total sample size for not wearing a safety belt was 20,016 compared to 1,072,622 for wearing a safety belt.

TABLE 32. USAGE AND EFFECTIVENESS OF CHILD SAFETY SEATS (CHILDREN AGE THREE AND UNDER) (2014 - 2018)

			F	RESTRAINT US	ED
VARIABLE	CATEGORY	NONE	SAFETY BELT	CHILD SEAT	ANY RESTRAINT
Number With Given Injury	Fatal Incapacitating Non-Incapacitating Possible Injury None Detected	1 7 28 40 117	1 11 44 243 3,302	20 43 397 1,567 24,113	21 54 441 1,810 27,415
Percent With Given Injury	Fatal Incapacitating Non-Incapacitating Possible Injury None Detected	0.52 3.63 14.51 20.73 60.62	0.03 0.31 1.22 6.75 91.70	0.08 0.16 1.52 5.99 92.25	0.07 0.18 1.48 6.09 92.18
Percent Usage By Seat Position	Front Rear All Positions	3.57 0.67 0.85	27.83 15.13 15.93	68.60 84.20 83.22	96.43 99.33 99.15
Percent With Given Injury By					
Seat Position (Front)	Fatal Incapacitating Non-Incapacitating Possible Injury None Detected	0.00 3.92 8.82 10.78 26.47	0.00 0.25 2.14 4.53 43.02	0.05 0.00 1.12 4.08 44.74	0.04 0.07 1.42 4.21 44.25
(Rear)	Fatal Incapacitating Non-Incapacitating Possible Injury None Detected	0.35 1.06 6.69 10.21 31.69	0.02 0.14 0.42 3.22 45.99	0.05 0.12 1.05 4.15 64.88	0.05 0.12 0.95 4.01 62.01
YEAR	2014 2015 2016 2017 2018	86 86 80 78 56	1,538 1,789 1,664 1,290 950	7,125 7,980 8,376 7,447 6,844	8,663 9,769 10,040 8,737 7,794

TABLE 33. PERCENTAGE OF CRASHES INVOLVING UNSAFE SPEED BY COUNTY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES) (2014-2018)

	CATEGORY (IN ORDE		G PERCENTAG	iES) (2014-2018)	
COUNTY	NUMBER OF CRASHES	PERCENT OF TOTAL CRASHES	COUNTY	NUMBER OF CRASHES	PERCENT OF TOTAL CRASHES
				<del></del>	
POPULA Bracken	ATION CATEGORY UNI 101	<b>DER 10,000</b> 9.9	POPULATI Simpson	ON CATEGORY 15,00	0 <b>-24,999</b> 8.6
Carlisle	29 24 90	8.8	Grant	255 306	7.9
Hickman Lvon	24 90	7.1 6.8	Woodford Union	306 101	6.8 6.6
Lívingston	59	6.4	Bourbon	201	6.5
Elliotť Robertson	19 11	6.4 6.4	Rockcastle Henry	174 129	6.4 6.4
Trimble	55	6.4	Spencer	87	6.1
Wolfe Owsley	48 15	6.3 6.2 5.7	Hart Mason	168 177	5.9 5.9
Hancock	38	5.7	Wayne	99	5.9
Crittenden McLean	51 60	5.4 5.4	Garrard Harrison	110 133	5.7 5.4
Nicholas	40 42	5.3	Mercer Ohio	122 1 <u>65</u>	5.3
Ballard Gallatin	61	4.6 4.3	McCreary	57 57	5.2 5.2 5.0
Lee Cumberland	15 13	5.4 5.3 4.8 4.3 4.2 2.4 2.1	Breckinridge Rowan	57 195	5.0 4.9
Fulton	12	2.1	Clav	87	4.8
Menifee	7 ATION CATEGORY 10,0	2.0	Anderson Letcher	122 73	4.7 4.6
Butler	129	9.5	Taylor	146	4.1
Edmonson Todd	84 76	8.4 7.1	Adair Lincoln	49 68	3.8 3.2
Caldwell Trigg	130 121	6.9 6.8	Johnson Allen	71 73	3.2
Morgan	54	6.8	Lawrence	31	3.2 3.2 3.2 2.8 2.4
Larue Jackson	98 56	6.4 6.1	Knott Marion	28 57	2.4 2.4
Owen Washington	61 80	5.9 5.9	Russell	38 15	2.4 2.2 1.7
Carroll	104	5.1	Casey POPULATI	ON CATEGORY 25.00	0-50,000
Pendleton Magoffin	82 43	5.0 4.9	Carter Knox	192 197	6.7 6.3
Lewis	34 11	4.9 4.7 4.6	Graves	278	6.0
Leslie Breathitt	58	4.6	Whitley Jessamine	307 436	5.8 5.6
Webster Metcalfe	53 52	4.1 4.1	Marshall Boyle	226 224	5.5 5.4
Estill	52 28	3.8	Hopkins	372	5.3
Monroe Green	21 28	3.6 3.2	Scott Franklin	410 377	5.0 4.9
Fleming Martin	37 14	3.8 3.6 3.2 3.2 2.6	Shelby Bell	323 140	4.7 4.5
Bath	22	2.5	Meade	96	4.3
Powell Clinton	36 21	2.5 2.2	Clark Logan	246 123	4.2 4.1
· · · · · · · · · · · · · · · · · · ·			Floyd	160	4.1
			Montgomery Muhlenberg	157 161 215	3.9 3.8 3.8
			Nelson Barren	215 238	3.8 3.5
			Henderson	262	3.3
			Boyd Grayson	249 106	3.3 3.3 3.2 2.9
			Calloway Harlan	165 65	3.2
			Greenup	92	2.9 2.9 2.1
			Perry POPULATI	77 ON CATEGORY OVEI	2.1 <b>R 50,000</b>
			Madison	1.008	7.5
			Fayette Boone	5,018 1,472	7.3 6.0
			Kenton	1,618 519	5.6
			Christian Pike	372	5.5 5.5
			McCracken Hardin	643 782	5.4 5.3
			Pulaski	453	5.2
			Oldham Warren	311 1,055	5.1 4.5
			Campbell	,690 361	4.5 4.0
			Laurėl Dayiess	626	3.5
		66	Jefferson Bullitt	5,398 310	3.4 3.0
		00	Danit	310	0.0

TABLE 34. PERCENTAGE OF CRASHES INVOLVING UNSAFE SPEED BY CITY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES)(2014-2018)

CITY	NUMBER OF CRASHES (2014-2018)	PERCENT OF TOTAL CRASHES	CITY	NUMBER OF CRASHES (2014-2018)	PERCENT OF TOTAL CRASHES
DODI II ATI	ION CATEGORY OVER 2			LATION CATEGORY 2,	
Lexington	4,012	7.3	Williamstown	44	8.4
Louisville	3.838	3.5	Dawson Springs	16	8.1
	TION CATEGORY 20,000	-60000	Irvine	8	6.6
Independence Richmond	199 447	11.1 7.7	Vine Grove Lakeside Park	22 14	6.3 5.7
Florence	402	7.7 4.4	Calvert City	25	5.7 5.6
Paducah	280	4.4	Southgate	36	5.6
Hopkinsville	179	4.2	Park Hills	6	5.0
Frankfort Nicholasville	167 158	3.9 3.8	Marion Providence	11 6	4.5 4.0
Elizabethtown	199	3.7	Barbourville	20	3.4
Bowling Green	510	3.7	Hodgenville	12	3.4
Covington	232	3.2	Carrollton	15	3.1
Georgetown Radcliff	125 75	3.1 3.1	Wilmore Ludlow	8 10	3.0 3.0
Henderson	127	2.8	Benton	21	2.8
Ashland	93	2.6	Morganfield	9	2.5
Owensboro	274	2.4	Prestonsburg	33	2.5
Jeffersontown POPLILAT	87 TON CATEGORY 10,000	2.1 -19 999	Lancaster	11 16	2.5 2.4
Erlanger	187	5.3	Scottsville Grayson	16	2.4 2.0
Berea	91	4.6	Greenville	14	2.0
Danville Fort Thomas	114 54	4.4 4.3	Flemingsburg	8	1.9
Madisonville	114	4.3 3.8	Stanford Hartford	10 5	1.8 1.8
Newport	136	3.5	Hazard	29	1.7
Shively	138	3.4	Springfield	6	1.7
Lawrenceburg	27 116	2.9 2.9	Paintsville	13	1.5
Somerset Shelbyville	60	2.8	Columbia Stanton	8 4	1.4 1.2
Winchester	81	2.8	Staritori	7	1.2
Bardstown	64	2.5			
Mayfield Shepherdsville	36 52	2.3 1.6			
Murray	38	1.4			
Glasgow	36	1.3			
Taylor Mill	TION CATEGORY 5,000- 97	-9,999 10.9			
Villa Hills	21	10.3			
Edgewood	53	7.0			
Highland Heights	67 65	6.3 6.3			
Cold Spring Princeton	50	5.8			
Cynthiana	47	5.2			
Fort Mitchell	70	5.2			
Alexandria Russellville	53 41	4.7 4.0			
Franklin	58	3.9			
Maysville	57	3.7			
Corbin Paris	58 50	3.7 3.6			
Harrodsburg	36	3.6 3.5			
Monticello	35	3.4			
Elsmere	17	3.2			
Pikeville Versailles	76 41	3.2 3.0			
Bellevue	20	3.0			
Fort Wright	68	3.0			
Flatwoods La Grange	12 29	2.9 2.7			
Williamsburg	29 21	2.7 2.7			
Central City	21	2.6			
Morehead Mount Starling	52	2.4			
Mount Sterling Dayton	33 8	2.3 2.2			
London	59	1.9			
Mount Washington	n 21	1.6			
Campbellsville Leitchfield	28 16	1.5 1.4			
Lebanon	12	1.3			

								CDEEDING
						TOTAL	ANNUAL AVERAGE	SPEEDING CONVICTIONS
						SPEEDING	SPEEDING CONVICTIONS	PER SPEED-
- COLINTY	0044	0045	0040	0047	0040	CONVICTIONS	PER 1,000	RELATED
COUNTY Adair	2014 222	2015 245	2016 243	2017 245	2018 177	(FIVE YEARS) 1,132	LICENSED DRIVERS 18.2	23.1
Allen	94	100	113	71	129	507	7.4	6.9
Anderson	644	631	507	638	366	2,786	32.6	22.8
Ballard	76	48	36	69	43	272	9.3	6.5
Barren Bath	320 101	323 81	438 83	521 69	397 120	1,999 454	13.3 10.7	8.4 20.6
Bell	445	524	578	540	445	2,532	31.6	18.1
Boone	1,001	1,177	1,332	1,515	1,251	6,276	13.4	4.3
Bourbon	331	384	442	319	541	2,017	28.9	10.0
Boyd	687	1,186	1,166	978	992	5,009	31.0	20.1
Boyle Bracken	170 100	62 162	49 305	84 193	110 310	475 1,070	4.8 34.4	2.1 10.6
Breathitt	55	97	172	35	64	423	9.6	7.3
Breckinridge	137	104	97	154	68	560	7.8	9.8
Bullitt	1,006	596	439	639	541	3,221	10.8	10.4
Butler	125	84	74	42	89	414	9.3	3.2
Caldwell Calloway	172 226	242 225	410 249	404 174	202 163	1,430 1,037	31.2 8.5	11.0 6.3
Campbell	1,368	1,069	1,476	1,313	973	6,199	19.5	9.0
Carlisle	102	49	35	18	20	224	12.0	7.7
Carroll	206	175	209	214	171	975	27.9	9.4
Carter	336	390	324	180	390	1,620 294	17.3	8.4
Casey Christian	60 917	53 893	49 645	98 587	34 418	3,460	5.5 17.3	19.6 6.7
Clark	165	165	116	106	168	720	5.6	2.9
Clay	187	221	252	239	288	1,187	19.5	13.6
Clinton	44	30	37	28	24	163	4.8	7.8
Crittenden	54 56	59	165	87	116	481 478	16.2	9.4
Cumberland Daviess	1,784	115 1,652	91 1,343	120 1,161	96 1,273	7,213	20.1 20.4	36.8 11.5
Edmonson	64	120	71	47	21	323	7.3	3.8
Elliott	8	23	18	22	22	93	4.3	4.9
Estill	79	34	46	38	54	251	5.1	9.0
Fayette Fleming	2,903 0	3,681 355	4,121 230	5,278 157	5,575 91	21,558 833	21.7 16.2	4.3 22.5
Floyd	301	208	240	124	100	973	7.9	6.1
Franklin	182	1,039	1,336	1,103	1,566	5,226	29.6	13.9
Fulton	833	143	73	59	27	1,135	57.4	94.6
Gallatin	107	464	725	419	629	2,344	78.4	38.4
Garrard Grant	433 110	114 337	105 549	118 495	441 677	1,211 2,168	20.0 25.0	11.0 7.1
Graves	542	401	291	333	252	1,819	14.2	6.5
Grayson	365	291	393	387	377	1,813	19.6	17.1
Green	391	44	52	34	37	558	14.1	19.9
Greenup	36 450	120	98 80	82	125	461 579	3.5	5.0
Hancock Hardin	152 72	98 1,992	1,808	68 1,878	181 1,964	7,714	17.7 20.5	15.2 9.9
Harlan	2,089	196	203	217	169	2,874	32.1	44.2
Harrison	194	122	132	118	73	639	9.8	4.8
Hart	129	98	139	129	172	667	10.9	4.0
Henderson	121	1,261	1,181	1,450	801	4,814	30.1	18.4
Henry Hickman	1,512 711	752 37	854 40	637 23	431 18	4,186 829	71.9 53.0	32.4 34.5
Hopkins	74	782	711	722	604	2,893	18.1	7.8
Jackson	1,153	12	47	88	35	1,335	29.6	23.8
Jefferson	14	4,361	4,047	3,546	4,454	16,422	6.3	3.0
Jessamine Johnson	5,869 516	642 111	686 104	808 55	929 105	8,934 891	49.7 11.5	20.5 12.5
Kenton	96	1,476	1,194	1,074	1,595	5,435	9.7	3.4
Knott	1,438	50	12	5	46	1,551	31.8	55.4
Knox	59	220	185	221	285	970	9.4	4.9
Larue	239	147	276	270	379	1,311	25.1	13.4
Laurel Lawrence	73 607	747 98	881 112	711 151	765 270	3,177 1,238	15.3 23.3	8.8 39.9
	001	50	114	101	210	1,200	23.3	33.3

								SPEEDING
						TOTAL SPEEDING	ANNUAL AVERAGE SPEEDING CONVICTIONS	CONVICTIONS PER SPEED-
						CONVICTIONS	PER 1,000	RELATED
COUNTY	2014	2015	2016	2017	2018	(FIVE YEARS)	LICENSED DRIVERS	CRASH
Lee	57	14	12	13	13	109	5.0	7.3
Leslie	16	35	38	18	77	184	5.1	16.7
Letcher	18	146	62	59	91	376	5.0	5.2
Lewis	67	76	63	60	47	313	6.7	9.2
Lincoln	78	108	106	187	215	694	8.2	10.2
Livingston	146	165	202	196	83	792	22.5	13.4
Logan	161 370	366	321 278	261 258	233 271	1,342	14.0 51.1	10.9
Lyon McCracken	252	283 623	276 506	256 450	362	1,460 2,193	9.1	16.2 3.4
McCreary	791	120	178	159	105	1,353	26.7	23.7
McLean	40	76	109	73	123	421	12.3	7.0
Madison	61	860	583	1,046	1,664	4,214	14.1	4.2
Magoffin	1,234	14	12	7	14	1,281	30.1	29.8
Marion	20	83	81	47	82	313	4.8	5.5
Marshall	71	414	772	461	501	2,219	18.5	9.8
Martin	671	10	15	12	9	717	21.1	51.2
Mason	1	591	440	402	227	1,661	27.7	9.4
Meade	459	440	214	233	106	1,452	14.5	15.1
Menifee	347	8	9	4	9	377	16.3	53.9
Mercer	13	361	255	309	219	1,157	14.0	9.5
Metcalfe	392	114	141	134	109	890	24.4	17.1
Monroe	112	13	18	30	19	192	5.1	9.1
Montgomery	20	174	130	41	78	443	4.6	2.8
Morgan	137	267	322	105	174	1,005	24.7	18.6
Muhlenberg Nelson	340 369	499 720	260 804	348 591	253 523	1,700 3,007	15.4 17.7	10.6 14.0
Nicholas	571	24	46	68	88	3,007 797	31.7	19.9
Ohio	44	554	420	446	498	1,962	23.4	11.9
Oldham	937	675	876	921	596	4,005	17.2	12.9
Owen	527	197	164	72	107	1,067	27.1	17.5
Owsley	88	1	3	3	3	98	6.5	6.5
Pendleton	0	98	106	83	132	419	8.0	5.1
Perry	113	67	45	67	84	376	4.1	4.9
Pike	96	121	101	123	136	577	2.9	1.6
Powell	240	77	72	83	168	640	14.5	17.8
Pulaski	117	1,091	1,063	813	942	4,026	17.7	8.9
Robertson	1,183	4	1	2	3	1,193	148.0	108.5
Rockcastle	2	282	317	257	301	1,159	20.3	6.7
Rowan	282	359	244	159	171	1,215	16.0	6.2
Russell Scott	206 83	65 488	112 515	83 654	70 351	536 2,091	8.5	14.1 5.1
Shelby	811	886	848	654 573	555	3,673	11.0 23.1	11.4
Simpson	1,257	259	151	105	248	2,020	30.1	7.9
Spencer	145	149	363	454	328	1,439	19.8	16.5
Taylor	122	79	69	102	92	464	5.2	3.2
Todd	133	144	199	93	123	692	17.9	9.1
Trigg	178	263	215	221	177	1,054	20.8	8.7
Trimble	288	56	92	45	36	517	16.3	9.4
Union	57	134	62	129	134	516	10.3	5.1
Warren	138	1,572	1,556	1,342	1,219	5,827	14.3	5.5
Washington	1,478	89	50	55	42	1,714	40.5	21.4
Wayne	52	55	103	136	145	491	7.4	5.0
Webster	19	139	151	58	39	406	8.9	7.7
Whitley	56	120	290	262	158	886	7.6	2.9
Wolfe	105	376	310	388	398	1,577	66.6	32.9
Woodford	344	883	698	1,184	932	4,041	41.8	13.2
TOTAL*	48,578	47,605	47,688	46,193	47,132	237,196	15.7	7.3

 $<sup>^{\</sup>star}$   $\,$  Does not include speeding convictions where county was not specified.

TABLE 36. SPEEDING CONVICTION RATES IN DECREASING ORDER (BY COUNTY POPULATION CATEGORIES) (2014 - 2018)

POPULATION CATEGORY	COUNTY	ANNUAL AVERAGE SPEEDING CONVICTIONS PER 1,000 LICENSED DRIVERS	COUNTY	SPEEDING CONVICTIONS PER SPEED- RELATED CRASH
UNDER 10,000	Robertson	148.0	Robertson	108.5
,	Gallatin	78.4	Fulton	94.6
	Wolfe	66.6	Menifee	53.9
	Fulton	57.4	Gallatin	38.4
	Hickman	53.0	Cumberland	36.8
	Lyon	51.1	Hickman	34.5
	Bracken	34.4	Wolfe	32.9
	Nicholas	31.7	Nicholas	19.9
	Metcalfe	24.4	Metcalfe	17.1
	Livingston	22.5	Lyon	16.2
	Cumberland	20.1	Hancock	15.2
	Hancock	17.7	Livingston	13.4
	Trimble	16.3	Bracken	10.6
	Menifee	16.3	Crittenden	9.4
	Crittenden	16.2	Trimble	9.4
	McLean	12.3	Carlisle	7.7
	Carlisle	12.0	Lee	7.3
	Ballard	9.3	McLean	7.0
	Owsley	6.5	Owsley	6.5
	Lee	5.0	Ballard	6.5
	Elliott	4.3	Elliott	4.9
10,000-14,999	Washington	40.5	Martin	51.2
10,000 11,000	Caldwell	31.2	Magoffin	29.8
	Magoffin	30.1	Jackson	23.8
	Jackson	29.6	Fleming	22.5
	Carroll	27.9	Washington	21.4
	Owen	27.1	Bath	20.6
	Larue	25.1	Green	19.9
	Morgan	24.7	Morgan	18.6
	Martin	21.1	Powell	17.8
	Trigg	20.8	Owen	17.5
	Todd	17.9	Leslie	16.7
	Fleming	16.2	Larue	13.4
	Powell	14.5	Caldwell	11.0
	Green	14.1	Carroll	9.4
	Bath	10.7	Lewis	9.2
	Breathitt	9.6	Monroe	9.1
	Butler	9.3	Todd	9.1
	Webster	8.9	Estill	9.0
	Pendleton	8.0	Trigg	8.7
	Edmonson	7.3	Clinton	7.8
	Lewis	6.7	Webster	7.7
	Monroe	5.1	Breathitt	7.3
	Estill	5.1	Pendleton	5.1
	Leslie	5.1	Edmonson	3.8
	Clinton	4.8	Butler	3.2
15,000 - 24,999	Henry	71.9	Knott	55.4
	Woodford	41.8	Lawrence	39.9
	Anderson	32.6	Henry	32.4
	Knott	31.8	McCreary	23.7
	Simpson	30.1	Adair	23.1
	Bourbon	28.9	Anderson	22.8
	Mason	27.7	Casey	19.6
	McCreary	26.7	Grayson	17.1
	Grant	25.0	Spencer	16.5
	Ohio	23.4	Russell	14.1
	Lawrence	23.3	Clay	13.6
	Rockcastle	20.3	Woodford	13.2
	Garrard	20.0	Johnson	12.5

TABLE 36. SPEEDING CONVICTION RATES IN DECREASING ORDER (BY COUNTY POPULATION CATEGORIES) (2014 - 2018) (continued)

		ANNUAL AVERAGE SPEEDING CONVICTIONS		SPEEDING CONVICTIONS PER SPEED-
POPULATION CATEGORY	COUNTY	PER 1,000 LICENSED DRIVERS	COUNTY	RELATED CRASH
15,000 - 24,999	Spencer	19.8	Ohio	11.9
(cont'd)	Grayson	19.6	Garrard	11.0
,	Clay	19.5	Lincoln	10.2
	Adair	18.2	Bourbon	10.0
	Rowan	16.0	Breckinridge	9.8
	Mercer	14.0	Mercer	9.5
	Johnson	11.5	Mason	9.4
	Hart	10.9	Simpson	7.9
	Union	10.3	Grant	7.1
	Harrison	9.8	Allen	6.9
	Russell	8.5	Rockcastle	6.7
	Lincoln	8.2	Rowan	6.2
	Breckinridge	7.8	Marion	5.5
	Allen	7.4	Letcher	5.2
	Wayne	7.4	Union	5.1
	Casey	5.5	Wayne	5.0
	Taylor	5.2	Harrison	4.8
	Letcher	5.0	Hart	4.0
	Marion	4.8	Taylor	3.2
25,000 - 49,999	Jessamine	49.7	Harlan	44.2
23,000 - 49,999	Harlan	32.1	Jessamine	20.5
	Bell	31.6	Boyd	20.1
	Boyd	31.0	Henderson	18.4
	Henderson	30.1	Bell	18.1
	Franklin	29.6	Meade	15.1
			Nelson	
	Shelby	23.1		14.0
	Marshall	18.5	Franklin	13.9
	Hopkins	18.1	Shelby	11.4
	Nelson	17.7	Logan	10.9
	Carter	17.3	Muhlenberg	10.6
	Muhlenberg	15.4	Marshall	9.8
	Laurel	15.3	Laurel	8.8
	Meade	14.5	Carter	8.4
	Graves	14.2	Barren	8.4
	Logan	14.0	Hopkins	7.8
	Barren	13.3	Graves	6.5
	Scott	11.0	Calloway	6.3
	Knox	9.4	Floyd	6.1
	Calloway	8.5	Scott	5.1
	Floyd	7.9	Greenup	5.0
	Whitley	7.6	Knox	4.9
	Clark	5.6	Perry	4.9
	Boyle	4.8	Clark	2.9
	Montgomery	4.6	Whitley	2.9
	Perry Greenup	4.1 3.5	Montgomery Boyle	2.8 2.1
	•		,	
50,000 - OVER	Fayette	21.7	Oldham	12.9
	Hardin	20.5	Daviess	11.5
	Daviess	20.4	Bullitt	10.4
	Campbell	19.5	Hardin	9.9
	Pulaski	17.7	Campbell	9.0
	Christian	17.3	Pulaski	8.9
	Oldham	17.2	Christian	6.7
	Warren	14.3	Warren	5.5
	Madison	14.1	Fayette	4.3
	Boone	13.4	Boone	4.3
	Bullitt	10.8	Madison	4.2
	Kenton	9.7	McCracken	3.4
	McCracken	9.1	Kenton	3.4
	Jefferson	6.3	Jefferson	3.0
	Pike	2.9	Pike	1.6

TABLE 37. MOVING SPEED DATA FOR VARIOUS HIGHWAY TYPES (CARS)

	85 <sup>th</sup> PERCENTIL	E SPEED (MPH)
HIGHWAY TYPE AND SPEED LIMIT	BEFORE	AFTER
Rural		
Interstate		
65 mph before / 70 mph After	74.6	75.9
Parkway		
Parkway Four Lane		
65 mph before / 70 mph After	73.5	75.5
	. 5.5	
Parkway		
Two Lane		
55 mph	67.5	67.7
Farm Laws (UC Davidse)		
Four Lane (US Routes) Non-Interstate or Parkway		
55 mph	63.9	65.3
	00.0	00.0
Four Lane (KY Routes)		
Non-Interstate or Parkway		
55 mph	65.7	65.6
Total		
Two Lane Full Width Shoulder		
55 mph	65.2	65.7
oo ilipii	00.2	00.1

TABLE 38. MOVING SPEED DATA FOR VARIOUS HIGHWAY TYPES (TRUCKS)

	85 <sup>th</sup> PERCENTIL	E SPEED (MPH)
HIGHWAY TYPE AND SPEED LIMIT	BEFORE	AFTER
Rural		
Interstate		
65 mph before / 70 mph After	69.8	70.4
Dorkway		
Parkway Four Lane		
65 mph before / 70 mph After	69.5	70.7
oo mpii bololo / / o mpii / moi	00.0	70.7
Parkway		
Two Lane		
55 mph	64.4	64.2
Four Lane (US Routes)		
Non-Interstate or Parkway	62.6	63.1
55 mph	02.0	03.1
Four Lane (KY Routes)		
Non-Interstate or Parkway		
55 mph	62.7	61.7
·		
Two Lane		
Full Width Shoulder		
55 mph	62.4	61.8

TABLE 39. CRASH TREND ANALYSIS (2014 - 2018)

			ber in ı Year		4-Year Average		2018 Percent
Crash Statistic	2014	2015	2016	2017 2	014 - 2017	2018	Change*
Total Crashes Fatal Crashes	127,326 612	136,338 694	140,547 763	136,979 721	135,298 698	134,285 664	-0.7 -4.9
Fatalities Injury Crashes	672 22,958	761 23,803	834 25,004	782 23,961	762 23,932	724 22,846	-5.0 -4.5
Injury Grasnes Injuries	34,221	35,542	37,347	35,999	35,777	33,914	-5.2
Fatal and Injury Crashes	23,570	24,497	25,767	24,682	24,629	23,510	-4.5
Licensed Drivers (Millions)	3.19	3.20	3.20	3.22	3.20	3.29	2.7
Registered Vehicles (Millions)	3.83	3.86	3.89	3.92	3.88	4.01	3.4
Total Vehicle Miles (Billions)	47.972	48.761	49.196	48.085	48.503	49.547	2.2
Total Crash/100 MVM Fatal Crash/100 MVM	265 1.28	280 1.42	286 1.55	285 1.50	279 1.44	271 1.34	-2.9 -6.9
Fatalities/100 MVM	1.40	1.56	1.70	1.63	1.57	1.46	-6.9
Injuries/100 MVM	71	73	76	75	74	68	-7.5
Speed Related Crashes	7,004	6,841	6,821	6,227	6,723	6,377	-5.1
Speed Related Injury Crashes	1,846	1,878	1,979	1,719	1,856	1,701	-8.4
Speed Related Fatal Crashes	108	131	113	122	119	100	-16.0
Speed Convictions	48,578	47,605	47,688	46,193	47,516	47,132	-0.8
Alcohol Related Crashes	4,295	4,217	4,192	3,901	4,151	3,580	-13.8
Alcohol Related Injury Crashes	1,432	1,418	1,363	1,263	1,369	1,137	-16.9
Alcohol Related Fatal Crashes	143	162	160	137	151	113	-25.2
Alcohol Related Fatalities DUI Filings	156 27,472	175 26,008	171 25,048	154 24,148	164 25,669	124 22,432	-24.4 -12.6
DUI Convictions	16,208	14,443	13,642	12,797	14,273	11,962	-16.2
DUI Conviction Rate (Percent)**	85.7	83.7	80.8	78.8	82.2	79.1	-3.8
Number DUI Filings/Alcohol Related Fatality	176	149	146	157	157	181	15.2
Drug Related Crashes	1,558	1,838	1,771	1,844	1,753	1,488	-15.1
Drug Related Injury Crashes	571	678	698	750	674	976	44.8
Drug Related Fatal Crashes	191	233	266	239	232	251	8.2
Pedestrian Related Crashes	1,053	1,096	1,094	1,099	1,086	1,012	-6.8
Pedestrian Related Injury Crashes	841	857	818	810	832	759	-8.8
Pedestrian Related Fatal Crashes	58	68	84	85	74	77	4.1
Bicycle/Motor Vehicle Related Crashes	462	405	410	410	422	342	-19.0
Bicycle Related Injury Crashes	312	276	255	270	278	233	-16.2
Bicycle Related Fatal Crashes	3	7	9	7	7	10	42.9
Motorcycle Related Crashes	1,658	1,727	1,785	1,624	1,699	1,464	-13.8
Motorcycle Related Injury Crashes	1,269	1,272	1,377	1,146	1,266	1,106	-12.6
Motorcycle Related Fatal Crashes	74	86	105	86	88	84	-4.5
School Bus Crashes	564	852	750	570	684	461	-32.6
School Bus Injury Crashes	107	103	85	60	89	50	-43.8
School Bus Fatal Crashes	3	3	3	0	2	1	-50.0
Truck Crashes	8,664	9,196	9,380	9,137	9,094	9,898	8.8
Truck Injury Crashes	1,261	1,396	1,352	1,323	1,333	1,411	5.9
Truck Fatal Crashes	67	90	93	75	81	94	16.0
Train Crashes	55	47	42	41	46	39	-15.2
Train Injury Crashes	13	17	11	14	14	8	-42.9
Train Fatal Crashes	5	3	2	3	3	2	-33.3

<sup>\*</sup> Percent change from 2014-2017 average to 2018. 
\*\* Conviction rate excludes pending cases.

	PEDESTI CRASH		BICYCI CRASHI		MOTORO CRAS		SCHOOL CRASE		TRUC CRASH	
	NUMBER*	RATE**	NUMBER*	RATE**	NUMBER*	RATE**	NUMBER*	RATE**	NUMBER*	RATE**
Adair	7	0.8	5	0.5	10	1.1	2	0.2	111	11.9
Allen	14	1.4	1	0.1	33	3.3	3	0.3	209	20.9
Anderson	9	0.8	2	0.2	34	3.2	13	1.2	170	15.9
Ballard	4	1.0	1	0.2	15	3.6	2	0.5	168	40.7
Barren	27	1.3	4	0.2	87	4.1	10	0.5	563	26.7
Bath	1	0.2	1	0.2	16	2.8	11	1.9	91	15.7
Bell	28	2.0	20	1.4	48	3.3	29	2.0	209	14.6
Boone	146	2.5	41	0.7	309	5.2	313	5.3	2859	48.1
Bourbon	18	1.8	4	0.4	56	5.6	14	1.4	224	22.4
Boyd	61	2.5	29	1.2	109	4.4	27	1.1	454	18.3
Boyle	26	1.8	14	1.0	52	3.7	18	1.3	258	18.1
Bracken	1	0.2	1	0.2	20	4.7	6	1.4	99	23.3
Breathitt	14	2.0	1	0.1	22	3.2	9	1.3	51	7.3
Breckinridge	5	0.5	2	0.2	24	2.4	5	0.5	106	10.6
Bullitt	66	1.8	16	0.4	168	4.5	50	1.3	1255	33.8
Butler	3	0.5	0	0.0	23	3.6	3	0.5	128	20.2
Caldwell	15	2.3	6	0.9	36	5.5	5	0.8	199	30.7
Calloway	30	1.6	25	1.3	72	3.9	15	0.8	310	16.7
Campbell	162	3.6	59	1.3	167	3.7	45	1.0	851	18.8
Carlisle	0	0.0	2	0.8	11	4.3	1	0.4	47	18.4
Carroll	8	1.5	2	0.4	18	3.3	4	0.7	387	71.6
Carter	14	1.0	1	0.1	38	2.7	5	0.4	257	18.5
Casey	3	0.4	0	0.0	12	1.5	1	0.1	87	10.9
Christian	59	1.6	31	0.8	168	4.5	37	1.0	791	21.4
Clark	39	2.2	9	0.5	79	4.4	56	3.1	400	22.5
Clay	19	1.7	3	0.3	42	3.9	18	1.7	100	9.2
Clinton	1	0.2	0	0.0	12	2.3	0	0.0	64	12.5
Crittenden	4	0.9	0	0.0	32	6.9	1	0.2	91	19.5
Cumberland	4	1.2	1	0.3	17	5.0	1	0.3	46	13.4
Daviess	119	2.5	112	2.3	228	4.7	105	2.2	977	20.2
Edmonson	1	0.2	0	0.0	13	2.1	6	1.0	80	13.2
Elliott	1	0.3	0	0.0	9	2.3	0	0.0	18	4.6
Estill	8	1.1	2	0.3	13	1.8	4	0.5	30	4.1
Fayette	775	5.2	352	2.4	572	3.9	206	1.4	3730	25.2
Fleming	7	1.0	0	0.0	14	2.0	8	1.1	90	12.5
Floyd	37	1.9	3	0.2	52	2.6	46	2.3	224	11.4
Franklin	50	2.0	12	0.5	81	3.3	33	1.3	496	20.1
Fulton	2	0.6	1	0.3	7	2.1	1	0.3	66	19.4
Gallatin	4	0.9	2	0.5	29	6.8	5	1.2	393	91.5
Garrard	12	1.4	5	0.6	21	2.5	8	0.9	136	16.1
Grant	16	1.3	1	0.1	67	5.4	13	1.1	371	30.1
Graves	30	1.6	10	0.5	76	4.1	12	0.6	391	21.1
Grayson	16	1.2	1	0.1	60	4.7	8	0.6	281	21.8
Green	7	1.2	1	0.2	10	1.8	7	1.2	81	14.4
Greenup	13	0.7	3	0.2	37	2.0	13	0.7	160	8.7
Hancock	4	0.9	1	0.2	13	3.0	3	0.7	99	23.1
Hardin	90	1.7	29	0.5	272	5.2	74	1.4	1413	26.8
Harlan	26	1.8	5	0.3	44	3.0	16	1.1	144	9.8
Harrison	15	1.6	5	0.5	43	4.6	9	1.0	130	13.8
Hart	7	0.8	1	0.1	26	2.9	3	0.3	628	69.0
Henderson	55	2.4	27	1.2	105	4.5	27	1.2	598	25.9
Henry	8	1.0	1	0.1	26	3.4	4	0.5	434	56.3
Hickman	1	0.4	0	0.0	14	5.7	0	0.0	42	17.1
Hopkins	35	1.5	14	0.6	88	3.8	14	0.6	479	20.4
Jackson	7	1.0	0	0.0	19	2.8	0	0.0	55	8.2
Jefferson	2081	5.6	692	1.9	1522	4.1	1239	3.3	10249	27.7
Jessamine	41	1.7	15	0.6	80	3.3	47	1.9	470	19.3
Johnson	26	2.2	5	0.4	26	2.2	7	0.6	106	9.1
Kenton	296	3.7	100	1.3	269	3.4	142	1.8	2616	32.8
Knott	4	0.5	0	0.0	27	3.3	11	1.3	77	9.4

TABLE 40. NUMBER OF CRASHES AND RATES BY CRASH TYPE FOR EACH COUNTY (continued)

	PEDESTI CRASH		BICYCL CRASHI		MOTORO CRAS		SCHOOL CRASH		TRUC CRASH	
	NUMBER*	RATE**	NUMBER*	RATE**	NUMBER*	RATE**	NUMBER*	RATE**	NUMBER*	RATE**
Knox	21	1.3	10	0.6	46	2.9	17	1.1	205	12.9
Larue	5	0.7	1	0.1	19	2.7	3	0.4	176	24.8
Laurel	36	1.2	13	0.4	123	4.2	28	1.0	805	27.4
Lawrence	5	0.6	1	0.1	30	3.8	6	0.8	89	11.2
Lee	3	0.8	0	0.0	3	0.8	7	1.8	23	5.8
Leslie Letcher	3 16	0.5 1.3	0	0.0	4 39	0.7 3.2	1 11	0.2 0.9	23 138	4.1 11.3
Lewis	3	0.4	0	0.0	9	1.3	11	1.6	81	11.7
Lincoln	14	1.1	1	0.1	34	2.7	8	0.6	124	10.0
Livingston	5	1.1	2	0.4	27	5.7	4	0.8	91	19.1
Logan	10	0.7	13	1.0	39	2.9	8	0.6	277	20.6
Lyon	3	0.7	1	0.2	31	7.5	2	0.5	242	58.2
McCracken	88	2.7	43	1.3	207	6.3	39	1.2	830	25.3
McCreary	11	1.2	1	0.1	19	2.1	6	0.7	66	7.2
McLean	6	1.3	1	0.2	15	3.1	7	1.5	150	31.5
Madison	89	2.1	35	0.8	176	4.2	54	1.3	1053	25.4
Magoffin	4	0.6	0	0.0	12	1.8	7	1.1	51	7.7
Marion	17	1.7	3	0.3	48	4.8	6	0.6	166	16.8
Marshall	11	0.7	5 0	0.3	72	4.6	7	0.4 0.9	448 44	28.5
Martin Mason	5 22	0.8 2.5	4	0.0 0.5	6 25	0.9 2.9	6 9	1.0	207	6.8 23.7
Meade	5	0.3	1	0.3	43	3.0	3	0.2	118	8.3
Menifee	0	0.0	0	0.0	12	3.8	0	0.0	22	7.0
Mercer	15	1.4	1	0.1	27	2.5	13	1.2	150	14.1
Metcalfe	3	0.6	2	0.4	22	4.4	3	0.6	134	26.5
Monroe	1	0.2	1	0.2	7	1.3	2	0.4	52	9.5
Montgomery	21	1.6	2	0.2	39	2.9	40	3.0	301	22.7
Morgan	2	0.3	0	0.0	11	1.6	9	1.3	50	7.2
Muhlenberg	15	1.0	3	0.2	69	4.4	14	0.9	341	21.7
Nelson	20	0.9	15	0.7	78	3.6	15	0.7	442	20.4
Nicholas	2	0.6	0	0.0	10	2.8	2	0.6	54	15.1
Ohio	14	1.2	3	0.3	51	4.3	6	0.5	313	26.3
Oldham	30	1.0	19	0.6	62	2.1	49	1.6	714	23.7
Owen Owsley	3 3	0.6 1.3	0	0.0	22 10	4.1 4.2	11 2	2.0 0.8	76 21	14.0 8.8
Pendleton	8	1.1	2	0.3	43	5.8	6	0.8	110	14.8
Perry	20	1.4	1	0.1	55	3.8	16	1.1	223	15.5
Pike	51	1.6	6	0.2	107	3.3	27	0.8	463	14.2
Powell	6	1.0	1	0.2	41	6.5	5	0.8	98	15.5
Pulaski	37	1.2	11	0.3	120	3.8	35	1.1	543	17.2
Robertson	0	0.0	0	0.0	4	3.5	0	0.0	5	4.4
Rockcastle	11	1.3	2	0.2	48	5.6	4	0.5	570	66.8
Rowan	23	2.0	7	0.6	63	5.4	12	1.0	269	23.1
Russell	6	0.7	0	0.0	27	3.1	8	0.9	141	16.1
Scott	62	2.6	12	0.5	105	4.5	34	1.4	843	35.7
Shelby	30	1.4	12	0.6	90	4.3	33	1.6	617	29.3
Simpson	12	1.4	2	0.2 0.0	39	4.5	12	1.4	497	57.4
Spencer	8 22	0.9 1.8	0 6	0.0	34 52	4.0 4.2	8 10	0.9 0.8	92 188	10.8 15.3
Taylor Todd	2	0.3	2	0.3	26	4.2	10	0.8	119	19.1
Trigg	7	1.0	2	0.3	44	6.1	0	0.2	186	25.9
Trimble	6	1.4	1	0.2	25	5.7	3	0.7	73	16.6
Union	4	0.5	4	0.5	26	3.5	8	1.1	112	14.9
Warren	133	2.3	86	1.5	262	4.6	71	1.2	1400	24.6
Washington	5	0.9	2	0.3	18	3.1	9	1.5	159	27.1
Wayne	9	0.9	5	0.5	19	1.8	9	0.9	123	11.8
Webster	2	0.3	1	0.1	20	2.9	8	1.2	145	21.3
Whitley	36	2.0	5	0.3	106	5.9	28	1.6	440	24.7
Wolfe	7	1.9	2	0.5	14	3.8	2	0.5	52	14.1
Woodford	26	2.1	11	0.9	57	4.6	23	1.8	421	33.8

<sup>\*</sup> Five-Year (2014-2018) Total.

 $<sup>\</sup>ensuremath{^{**}}$  Rates are annual crashes per 10,000 population.

TABLE 41. PEDESTRIAN CRASH RATES BY COUNTY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES) (2014-2018)(ALL ROADS)

		ANNUAL CRASH RATE	10)(112110112		ANNUAL CRASH RATE
COUNTY	NUMBER OF CRASHES	(CRASHES PER 10,000 POP.)	COUNTY	NUMBER OF CRASHES	(CRASHES PER 10,000 POP.)
	TION CATEGORY U			ON CATEGORY 15,0	
Wolfe Trimble McLean Owsley Cumberland Livingston Ballard Crittenden Hancock Gallatin Lee Lyon Fulton Nicholas Hickman Elliott Bracken Menifee Carlisle Robertson	TION CATEGORY ION	1.9 1.4 1.3 1.3 1.2 1.1 1.0 0.9 0.9 0.9 0.8 0.7 0.6 0.4 0.3 0.2 0.0 0.0	Mason Johnson Woodford Rowan Bourbon Taylor Marion Clay Harrison Garrard Mercer Allen Letcher Rockcastle Grant Ohio McCreary Lincoln Henry Wayne Spencer Hart Anderson Russell Lawrence Breckinridge Knott Union Casey POPULATIC Scott Boyd Henderson Clark Franklin Whitley Bell Floyd Boyle Harlan Jessamine Graves Montgomery Calloway Hopkins Shelby Perry Knox Barren Grayson Muhlenberg Carter Nelson Marshall Logan Greenup Meade	ON CATEGORY 15,00 226 2266 223 18 227 195 122 15 14 16 11 14 8 9 8 7 7 9 6 5 5 4 4 3 ON CATEGORY   ON CATEGORY  2,071 10 13 5 00 CATEGORY  2,071 10 13 5 00 CATEGORY  2,071 10 13 5 00 CATEGORY  2,071 10 13 13 14 14 14 15 15 16 16 17 17 18 18 19 11 18 18 18 19 18 18 18 18 18 18 18 18 18 18 18 18 18	2.5 2.2 1.0 1.8 1.7 1.6 1.4 1.4 1.3 1.3 1.3 1.2 1.1 1.0 0.9 0.8 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
			Oldham	30	1.0

TABLE 42. PEDESTRIAN CRASH RATES BY CITY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES)(2014-2018)

	ANNUAL			ANNUAL
NUMBER OF			JMBER OF	CRASH RATE
CRASHES (2014)				(CRASHES PER
CITY (2014-2018)	10,000 POPULATION)	CITY (2	2014-2018) 10,00	0 POPULATION)
POPULATION CATEGORY	OVER 200 000	ΡΟΡΙ ΙΙ ΔΤΙ	ON CATEGORY 2,	500-4 999
Louisville 1,483	5.0	Prestonsburg	11	6.8
Lexington 638	4.3	Paintsville	11	6.4
POPULATION CATEGOR	Y 20 000-60000	Hazard	13	5.8
Covington 130		Barbourville	6	3.8
Florence 71	4.7	Ludlow	8	3.6
Ashland 41	3.8	Lancaster	6	3.5
Paducah 45	3.6	Grayson	6 7	3.3
Bowling Green 94		Southgate	6	3.2
Owensboro 86		Scottsville	663343334223	2.8
Henderson 41	2.9	Springfield	š	2.4
Frankfort 33		Flemingsburg	3	2.3
Georgetown 35	2.4	Stanford	4	2.3
Richmond 38		Lakeside Park	3	2.2
Radcliff 26		Dawson Springs	3	2.2
Nicholasville 29	2.1	Hodgenville	3	1.9
Elizabethtown 29	2.0	Benton	4	1.8
Hopkinsville 31	2.0	Stanton	2	1.5
Jeffersontown 26		Marion	2	1.3
Independence 13	1.1	Vine Grove	3	1.3
POPULATION CATEGORY	Y 10,000-19,999	Russell		1.2
Shively 93	12.2	Wilmore	2 2 2 2 2	1.1
Newport 68	8.9	Williamstown	2	1.0
Shepherdsville 26	4.6	Carrollton	2	1.0
Somerset 21	3.8	Columbia	2	0.9
Mayfield 16		Calvert City	ī	0.8
Erlanger 26	2.9	Hartford	i	0.7
Winchester 26	2.8	Irvine	i	0.7
Danville 20			•	
Murray 19	2.1			
Shelbýville 15				
Glasgow 14	2.0			
Berea 13	1.9			
Madisonville 19	1.9			
Bardstown 10				
Lawrenceburg 8	1.5			
Fort Thomas 7	0.9			
POPULATION CATEGOR	RY 5,000-9,999			
Bellevue 15	5.0			
Dayton 13	4.9			
Morehead 15				
Pikeville 14				
Lebanon 11				
Maysville 17	3.8			
Princeton 12	3.8			
Campbellsville 17				
Versailles 15				
Williamsburg 9	3.4			
Cynthiana 11	3.4 3.3			
Elsmere 14				
Highland Heights 11 Fort Wright 9				
Fort Wright 9 Cold Spring 8	3.1 2.7			
Corbin 6				
Harrodsburg 10 Leitchfield 8				
Fort Mitchell 10				
Paris 10	2.4 2.3			
Franklin 9	2.3 2.1			
Franklin 9 Mount Sterling 7	2.1			
Central City 6	2.0 2.0			
Russellville 7	2.0 2.0			
Monticello 6	2.0 1.9			
Edgewood 7	1.6			
Flatwoods 5	1.0			
Mount Washington 3	0.7			
Alexandria 2	0.7			
Villa Hills 1	0.5			
Taylor Mill 1				
rayior iviiii	0.3			

	LUNLASING FLI	10ENTAGES) (2014-20	10)		
	NUMBER OF	CRASH RATE (CRASHES		NUMBER OF	CRASH RATE (CRASHES
COUNTY	CRASHES	PER 10,000 POP.)	COUNTY	CRASHES	PER 10,000 POP.)
	TION CATEGORY U			ON CATEGORY 15,0	
Carlisle Gallatin	2 2 2 2	0.8 0.5	Woodford Garrard	1157465455554333222221	0.9 0.6
Wolfe	2	0.5	Rowan	7	0.6
Livingston Cumberland	<u>2</u> 1	0.4 0.3	Union Taylor	4 6	0.5 0.5
Fulton	j	0.3	Adair	5	0.5
Bracken Trimble	1	0.2 0.2 0.2 0.2 0.2	Mason Wayne	4 5	0.6 0.5 0.5 0.5 0.5 0.5
Ballard	1	0.2	Harrison	5	0.5
Hancock McLean	1	0.2 0.2	Johnson Bourbon	5 4	0.4 0.4
Lyon	1	0.2 0.2	Ohio	3	0.4 0.3 0.3 0.2 0.2 0.2 0.2
Elliott Nicholas	0 0 0 0	0.0 0.0	Clay Marion	3	0.3 0.3
Crittenden	Ŏ	0.0	Breckinridge	2	0.2
Menifee Lee	0	0.0 0.0	Simpson Anderson	2	0.2 0.2
Hickman		0.0	Rockcastle	2	0.2
Owsley Robertson	0	0.0 0.0	Mercer McCreary	1	0.1 0.1
POPULA <sup>*</sup>	TION CATEGORY 1	1 <b>0,000-14,999</b> 0.9	Hart <sup>*</sup> Allen	1	0.1 0.1
Caldwell Metcalfe	6222222221	0.4	Grant	ł	0.1
Carroll Estill	2	0.4 0.3	Lincoln	1	0.1 0.1
Trigg Pendleton	2	0.3	Henry Lawrence	i	0.1
Pendleton Todd	2	0.3 0.3	Spencer Russell	0 0	0.0 0.0
Washington	2	0.3	Casey	0	0.0
Monroe Green	1	0.2 0.2	Knott* Letcher	0 0	0.0 0.0
Bath	1	0.2 0.2	POPULATION	ON CATEGORY 25.0	00-50,000
Powell Webster	1	0.2 0.1	Bell Calloway	20 25	1.4 1.3
Larue	j	0.1	Boyd	29	1.3 1.2 1.2 1.0
Breathitt Butler	1 0	0.1 0.0	Henderson Logan	27 13	1.2 1.0
Edmonson	Ŏ	0.0	Bovle	14	1.0
Morgan Magoffin	0 0 0 0	0.0 0.0	Nelson Hopkins	15 14	0.7 0.6
Magoffin Leslie	Ŏ	0.0	Shelby Jessamine	12 15	0.6 0.6 0.6 0.6
Jackson Lewis	0	0.0 0.0	Jessamine Knox	15 10	0.6 0.6
Owen	Ó	0.0	Scott	12	0.5
Fleming Clinton	0	0.0 0.0	Graves Franklin	10 12	0.5 0.5
Martin	Ŏ	0.0	Clark	9	0.5
			Whitley Marshall	5 5	0.3 0.3
			Harlan	5	0.3
			Muhlenberg Greenup	3	0.2 0.2
			Floyd <sup>'</sup> Barren	10 12 9 5 5 5 5 3 3 3 4 2	0.2
			Montgomery	2	0.5 0.5 0.3 0.3 0.2 0.2 0.2 0.2 0.2
			Perry Meade	1	0.1 0.1
			Carter	į	0.1 0.1
			Grayson POPULATION	1 ON CATEGORY OVE	0.1 ER 50.000
			Fayette	352	2.4 2.3
			Daviess Jefferson	112 692	2.3 1 9
			Warren	86	1.5
			Kenton Campbell	100 59	1.9 1.5 1.3 1.3 0.8 0.8 0.7
			McCracken	43	1.3
			Christian Madison	31 35	0.8 0.8
			Boone	41	0.7
			Oldham Hardin	19 29	0.6 0.5
			Bullitt	16	0.5 0.4
		79	Laurel Pulaski	13 11	0.4 0.3
		79	Pike	6	0.3 0.2

TABLE 44. BICYCLE CRASH RATES BY CITY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES)(2014-2018)

NUMBER OF CRASHES	ANNUAL CRASH RATE (CRASHES PER		NUMBER OF CRASHES	ANNUAL CRASH RATE (CRASHES PER
CITY (2014-2018)	10,000 POPULATION)	CITY	(2014-2018) 10,0	000 POPULATION)
POPULATION CATEGORY Lexington 288 Louisville 532 POPULATION CATEGORY Owensboro 81	1.9 1.8 Y 20,000-60000 2.8	Paintsville Ludlow Columbia Springfield	ILATION CATEGORY 4 5 4 2	2.3 2.3 1.8 1.6
Covington 53 Paducah 31 Bowling Green 66 Ashland 21 Henderson 23 Hopkinsville 22	2.6 2.5 2.3 1.9 1.6 1.4	Dawson Springs Barbourville Beaver Dam Prestonsburg Lancaster Morganfield	2 2 2 2 2 2 2	1.4 1.3 1.2 1.2 1.2 1.2
Richmond 22 Florence 15 Elizabethtown 11 Nicholasville 10 Frankfort 9 Radcliff 8	1.4 1.0 0.8 0.7 0.7 0.7	Southgate Carrollton Benton Vine Grove Stanton Scottsville	2 2 2 2 2 2 1 1	1.1 1.0 0.9 0.9 0.7 0.5
Jeffersontown 9 Georgetown 9 Independence 6 POPULATION CATEGOR' Newport 24	0.5 ( 10,000-19,999 3.1			
Shively 18 Bardstown 12 Murray 18 Mayfield 7 Danville 11 Shelbyville 9	2.1 2.0 1.4 1.4			
Shepherdsville 7 Madisonville 11 Erlanger 8 Somerset 4 Winchester 6	1.2 1.1 0.9 0.7 0.7			
Berea 4 Glasgow 2 Lawrenceburg 1 Fort Thomas 2 POPULATION CATEGOR	0.3 0.2 0.2			
Alexandria 8 Monticello 5 London 6 Princeton 4 Morehead 4	1.9 1.6 1.5 1.3 1.2			
La Grange 5 Russellville 4 Versailles 4 Pikeville 3 Highland Heights 3 Williamsburg 2	0.9			
Central City 2 Bellevue 2 Elsmere 3 Paris 3 Lebanon 2	0.7 0.7 0.7 0.7 0.7			
Cynthiana 2 Franklin 2 Edgewood 2 Corbin 2 Campbellsville 2 Dayton 1 Maysville 2	0.5 0.5 0.5 0.4 0.4 0.4			
Flatwoods 1 Villa Hills 1 Fort Wright 1 Taylor Mill 1 Fort Mitchell 1	0.3 0.3 0.3 0.3 0.2			

COUNTY         NUMBER OF CRASHES         (CRASHES PER 10,000 POP.)         COUNTY         NUMBER OF CRASHES         (CRASHES PER 10,000 POP.)           POPULATION CATEGORY UNDER 10,000         POPULATION CATEGORY 15,000-24,999           Lyon         31         7.5         Rockcastle         48         5.6           Crittenden         32         6.9         Bourboon         56         5.6           Gallatin         29         6.8         Grant         67         5.4           Livingston         27         5.7         Rowan         63         5.4           Trimble         25         5.7         Marion         48         4.8           Hickman         14         5.7         Woodford         57         4.6           Cumberland         17         5.0         Harrison         43         4.6           Bracken         20         4.7         Simpson         39         4.5           Carlisle         11         4.3         Ohio         51         4.3           Owsley         10         4.2         Taylor         52         4.2           Wolfe         14         3.8         Spencer         34         4.0		<u> </u>	1021171020) (2011/20	10)		
COUNTY         CRASHES         PER 10,000 POP.)         COUNTY         CRASHES         PER 10,000 POP.           POPULATION CATEGORY 15,000-24,999           Lyon         31         7.5         Rockcastle         48         5.6           Crittenden         32         6.9         Bourbon         56         5.6           Gallatin         29         6.8         Grant         67         5.4           Livingston         27         5.7         Rowan         63         5.4           Trimble         25         5.7         Marion         48         4.8           Hickman         14         5.7         Woodford         57         4.6           Cumberland         17         5.0         Harrison         43         4.6           Bracken         20         4.7         Simpson         39         4.5           Carlisle         11         4.3         Ohio         51         4.3           Owsley         10         4.2         Taylor         52         4.2           Wolfe         14         3.8         Spencer         34         4.0           Menifee         12         3.8         Clay		NI IMBER OF	CRASH RATE		NUMBER OF	CRASH RATE
Lyon       31       7.5       Rockcastle       48       5.6         Crittenden       32       6.9       Bourbon       56       5.6         Gallatin       29       6.8       Grant       67       5.4         Livingston       27       5.7       Rowan       63       5.4         Trimble       25       5.7       Marion       48       4.8         Hickman       14       5.7       Woodford       57       4.6         Cumberland       17       5.0       Harrison       43       4.6         Bracken       20       4.7       Simpson       39       4.5         Carlisle       11       4.3       Ohio       51       4.3         Owsley       10       4.2       Taylor       52       4.2         Wolfe       14       3.8       Spencer       34       4.0         Menifee       12       3.8       Clay       42       3.9         Ballard       15       3.6       Lawrence       30       3.8         Robertson       4       3.5       Union       26       3.4         Hancock       13       3.0       Allen	COUNTY	CRASHES	PER 10,000 POP.)	COUNTY	CRASHES	PER 10,000 POP.)
Crittenden         32         6.9         Bourbon         56         5.6           Gallatin         29         6.8         Grant         67         5.4           Livingston         27         5.7         Rowan         63         5.4           Trimble         25         5.7         Marion         48         4.8           Hickman         14         5.7         Woodford         57         4.6           Cumberland         17         5.0         Harrison         43         4.6           Bracken         20         4.7         Simpson         39         4.5           Carlisle         11         4.3         Ohio         51         4.3           Owsley         10         4.2         Taylor         52         4.2           Wolfe         14         3.8         Spencer         34         4.0           Menifee         12         3.8         Clay         42         3.9           Ballard         15         3.6         Lawrence         30         3.8           Robertson         4         3.5         Union         26         3.5           Hancock         13         3.0	POPULA	ATION CATEGORY (	JNDER 10,000	POPULATION	ON CATEGORY 15,0	00-24,999
Morgan 11 1.6 Graves 76 4.1  Monroe 77 1.3 Calloway 72 3.9  Lewis 9 1.3 Hopkins 88 3.8  Martin 6 0.9 Perry 55 3.8  Leslie 4 0.7 Boyle 52 3.7  Nelson 78 3.6  Jessamine 80 3.3  Franklin 81 3.3  Bell 48 3.3  Harlan 44 3.0  Knox 46 2.9  Montgomery 39 2.9  Carter 38 2.7  Floyd 52 2.6  Greenup 37 2.0  POPULATION CATEGORY OVER 50,000  McCracken 207 6.3  Boone 309 5.2  Hardin 272 5.2  Daviess 228 4.7  Warren 262 4.6  Christian 168 4.5  Bullitt 168 4.5  Bullitt 168 4.5  Laurel 123 4.2  Madison 176 4.2	POPULA Lyon Crittenden Gallatin Livingston Trimble Hickman Cumberland Bracken Carlisle Owsley Wolfe Menifee Ballard Robertson McLean Hancock Nicholas Elliott Fulton Lee POPULA Powell Trigg Pendleton Caldwell Metcalfe Todd Owen Butler Carroll Breathitt Washington Webster Jackson Bath Larue Clinton Edmonson Fleming Estill Magoffin Green Morgan Monroe Lewis Martin	CRASHES  ATION CATEGORY U 31 32 29 27 25 14 17 20 11 10 14 12 15 13 10 9 7 3 ATION CATEGORY 1 44 43 36 22 23 18 22 23 18 22 23 18 22 19 16 19 16 19 12 13 14 13 12 10 17	CRASH RATE (CRASHES PER 10,000 POP.)  JNDER 10,000  7.5 6.9 6.8 5.7 5.7 5.0 4.7 4.3 4.2 3.8 3.6 3.5 3.1 3.0 2.8 2.3 2.1 0.8 6.5 6.1 5.5 4.4 4.2 4.1 3.6 3.3 3.2 3.1 2.9 2.8 2.8 2.7 2.3 2.1 2.0 1.8 1.8 1.8 1.8 1.6 1.3	POPULATION Rockcastle Bourbon Grant Rowan Marion Woodford Harrison Simpson Ohio Taylor Spencer Clay Lawrence Union Henry Allen Knott Anderson Letcher Russell Hart Mason Lincoln Mercer Garrard Breckinridge Johnson McCreary Wayne Casey Adair POPULATION Whitley Grayson Marshall Scott Henderson Clark Boyd Muhlenberg Shelby Barren Graves Calloway Hopkins Perry Boyle Nelson Jessamine Franklin Bell Harlan Meade Knox Montgomery Logan Carter Floyd Greenup POPULATION McCracken Boone Hardin Daviess Warren Christian Bullitt Laurel Madison Jefferson	CRASHES  ON CATEGORY 15,0  48  56 67 63 48 57 43 39 51 52 34 42 306 26 233 27 34 39 27 26 25 34 27 21 24 26 19 19 12 10 ON CATEGORY 25,0 105 79 109 69 90 87 76 72 88 55 78 80 81 44 43 46 39 39 38 52 78 80 81 44 43 46 39 39 38 52 78 ON CATEGORY OVE 207 309 272 228 262 168 168 11522	CRASHES PER 10,000 POP.)  100-24,999  5.6 5.4 4.6 4.5 3.8 4.0 3.8 5.4 4.0 3.8 3.3 3.2 2.1 2.9 2.7 2.5 2.4 2.1 1.5 1.1 5.7 4.6 4.5 4.4 4.4 4.1 3.8 3.8 3.7 6.3 3.3 3.0 3.9 2.9 2.7 6.0 6.2 2.7 6.2 6.2 6.2 6.2 6.2 6.3 6.2 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3
Fayette 572 3.9 Pulaski 120 3.8 Campbell 167 3.7 Kenton 269 3.4				Campbell Kenton	167 269	3.4
81 Pike 107 3.3 Oldham 62 2.1			81	Pike Oldham	107	3.3 2.1

TABLE 46. MOTORCYCLE CRASH RATES BY CITY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES)(2014-2018)

	ANNUAL			ANNUAL
NUMBER OF	CRASH RATE		NUMBER OF	CRASH RATE
CRASHES (2214 2212)	(CRASHES PER	OITV	CRASHES	(CRASHES PER
CITY (2014-2018)	10,000 POPULATION)	CITY	(2014-2018) 10	,000 POPULATION)
POPULATION CATEGORY	OVER 200 000	POPUI	LATION CATEGORY	′ 2 500-4 999
Louisville 1,129	3.8	Hazard	28	12.6
Lexington 474	3.2	Prestonsburg	11	6.8
POPULATION CATEGORY	20 000-60000	Scottsville	13	6.2
Paducah 84	6.7	Hartford	8	6.0
Florence 87	5.8	Calvert City	8 7	5.5
Radcliff 56	5.2	Stanton	7	5.1
Elizabethtown 72	5.0	Barbourville	8	5.1
Bowling Green 131	4.5	Greenville	9	4.2
Owensboro 123	4.3	Southgate	9 8 9 8 5 7 5 6	4.2
Ashland 46	4.2	Benton	9	4.1
Hopkinsville 65	4.1	Williamstown	8	4.1
Henderson 58	4.0	Springfield	5	4.0
Richmond 63	4.0	Paintsville	7	4.0
Frankfort 40	3.1	Flemingsburg	5	3.8
Covington 60	3.0	Russell	6	3.6
Georgetown 43	3.0	Beaver Dam	6	3.5
Nicholasville 39	2.8	Stanford	6	3.4
Independence 28	2.3	Marion	5	3.3
Jeffersontown 25	1.9	Lancaster	5	2.9
POPULATION CATEGORY	10,000-19,999	Grayson	655533333322332	2.9
Shively 60	7.9	Lakeside Park	3	2.2
Shepherdsville 41	7.3	Dawson Springs	3	2.2
Somerset 38	6.8	Irvine	3	2.2
Newport 34	4.5	Hodgenville	3	1.9
Bardstown 26	4.4	Carrollton	3	1.5
Berea 26	3.8	Ludlow	3	1.4
Erlanger 33	3.7	Providence	2	1.3
Glasgow 23	3.3	Park Hills	2	1.3
Winchester 27	2.9	Columbia	3	1.3
Madisonville 28	2.9	Vine Grove	3	1.3
Shelbyville 20	2.8	Morganfield	2	1.2
Danville 23	2.8			
Murray 23	2.6			
Mayfield 12	2.4			
Lawrenceburg 11	2.1			
Fort Thomas 9	1.1			
POPULATION CATEGORY	7 5,000-9,999			
London 29	7.3			
Pikeville 25	7.2			
Fort Wright 19	6.6			
Morehead 22	6.4			
Corbin 19	5.2			
Campbellsville 23	5.1			
Leitchfield 17	5.1			
Mount Sterling 15	4.4			
Cold Spring 13	4.4			
Lebanon 12	4.3			
Princeton 13 Central City 12	4.1			
	4.0			
Franklin 16 Mount Washington 16	3.8 3.5			
Williamsburg 9	3.5 3.4			
Alexandria 14	3.4 3.3			
Paris 14	3.3 3.3			
Versailles 13	3.3 3.0			
Cynthiana 9	3.0 2.8			
Fort Mitchell	2.6 2.7			
Monticello 8	2.7 2.6			
La Grange 10	2.6 2.5			
Bellevue 7	2.4			
Taylor Mill 8	2.4			
Maysville 11	2.4			
Highland Heights 8	2.4			
Russellville 8	2.3 2.3			
Harrodsburg 9	2.3			
Dayton 3	1.1			
Elsmere 4	0.9			
Edgewood 4	0.9			
Villa Hills 3	0.8			
Flatwoods 3	0.8			

TABLE 47. SCHOOL BUS CRASH RATES BY COUNTY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES) (2014-2018)

		ANNUAL CRASH RATE	,	AU MARER OF	ANNUAL CRASH RATE
COUNTY	NUMBER OF CRASHES	CRASH RATE (CRASHES PER 10,000 POP.)	COUNTY	NUMBER OF CRASHES	(CRASHES PER 10,000 POP.)
	ATION CATEGORY U			ON CATEGORY 15,	
Lee McLean Bracken Gallatin Livingston Owsley Hancock Trimble Nicholas Lyon Ballard Wolfe Carlisle Cumberland Fulton Crittenden Menifee Hickman Elliott Robertson POPULA Owen Bath Lewis Washington Morgan Breathitt Green Webster Magoffin Fleming Edmonson Martin Caldwell Pendleton Carroll Metcalfe Butler Estill Larue Monroe Todd Leslie Trigg Jackson Clinton	77 654233222211110000 CATEGORY 111111111111111111111111111111111111	1.8 1.5 1.4 1.2 0.8 0.7 0.7 0.6 0.5 0.5 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Clark Montgomery Floyd Bell Jessamine Shelby Whitley Scott Franklin Boyle Henderson Boyd Perry Knox Harlan Muhlenberg Calloway Greenup Nelson Graves Grayson Logan Hopkins Barren Carter Marshall Meade	23 18 113 113 113 113 114 115 115 115 115 115 115 115 115 115	3.1 3.0 2.3 2.9 1.6 1.4 1.3 1.3 1.1 1.1 1.1 0.8 0.7 0.6 0.6 0.6 0.5 0.4 0.2

TABLE 48. SCHOOL BUS CRASH RATES BY CITY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES)(2014-2018)

NUMBER (	ANNU	JAL		NILIMBED OF	ANNUAL
NUMBER (				NUMBER OF	CRASH RATE
CRASHI CITY (2014-201			CITY	CRASHES	(CRASHES PER
CITY (2014-201	18) 10,000 POPULATION	OIN)	CITY	(2014-2018)	10,000 POPULATION)
POPULATION CATEGO	RY OVER 200.000		POPU	LATION CATEGO	ORY 2,500-4,999
	36	3.1	Prestonsburg	13	8.0
Lexington 1	72	1.2	Flemingsburg	4	3.0
POPULATION CATEGO	ORY 20,000-60000		Vine Grove	6	2.7
Florence	65	4.3	Springfield	3	2.4
	30	2.4	Stanton	3	2.2
	58	2.0	Hazard _	3 3 5 3	2.2
	28	2.0	Lakeside Park	3	2.2
Jeffersontown	27	2.0	Carrollton	3	1.5
Paducah	22	1.8	Hartford	2	1.5
Richmond Frankfort	29 22	1.8 1.7	Dawson Springs Providence	2	1.4 1.3
Radcliff	17	1.6	Barbourville	2	1.3
	22	1.5	Paintsville	2	1.2
Covington	29	1.4	Lancaster	2	1.2
Henderson	20	1.4	Russell	2	1.2
Elizabethtown	18	1.3	Morganfield	2	1.2
Hopkinsville	19	1.2	Beaver Dam	2	1.2
Bowling Green	30	1.0	Williamstown	32222222222222	1.0
Ashland	6	0.6	Greenville	2	0.9
POPULATION CATEGO			Park Hills	1	0.9
	42	5.5	Stanford	1	0.6
Somerset	20	3.6	Wilmore	1	0.5
	28	3.0	Scottsville	1	0.5
	14	2.0	Grayson	1	0.5
Shepherdsville Bardstown	10 9	1.8 1.5			
	11	1.4			
	12	1.3			
	11	1.2			
Lawrenceburg	6	1.1			
Newport	6	0.8			
Glasgow	5	0.7			
Berea	5 5 5	0.7			
Fort Thomas		0.6			
Madisonville	4	0.4			
Mayfield POPULATION CATEG	2	0.4			
		0.0			
Versailles	14 12	3.3			
Alexandria Mount Sterling	9	2.8 2.6			
Corbin	9	2.5			
	10	2.3			
London	9	2.3			
Harrodsburg	9	2.2			
Villa Hills	8	2.1			
Pikeville	7	2.0			
Franklin	8 8	1.9			
Paris	8	1.9			
Cynthiana	6	1.9			
Maysville Fort Wright	8 5	1.8			
Fort Wright Williamsburg	5 4	1.7 1.5			
Monticello	4	1.3			
Campbellsville	5	1.3			
Central City	3	1.0			
La Grange	4	1.0			
Taylor Mill	3	0.9			
Morehead	3	0.9			
Mount Washington	4	0.9			
Dayton	2 2	0.7			
Lebanon	2	0.7			
Leitchfield	2	0.6			
Princeton	2 2 2	0.6			
Highland Heights	2	0.6			
Russellville Elsmere	2	0.6 0.5			
Flatwoods	2	0.5			
Fort Mitchell	1	0.5			
	•	V. <b>L</b>			

	20112/101113   21	ANNUAL	,		ANNUAL
	NUMBER OF	CRASH RATE (CRASHES		NUMBER OF	CRASH RATE (CRASHES
COUNTY	CRASHES	PER 10,000 POP.)	COUNTY	CRASHES	PER 10,000 POP.)
POPULA	POPULATION CATEGORY UNDER 10,000			ON CATEGORY 15,0	000-24,999
Gallatin	393 242 168	91.5	Hart	628	69.0
Lyon Ballard	242 168	58.2 40.7	Rockcastle Simpson	570 497	66.8 57.4
McLean	150	31.5	Henry Woodford	434	56.3
Bracken Hancock	99 99	23.3 23.1	Grant	421 371	33.8 30.1
Crittenden	99 99 91 66	19.5	Ohio	313	30.1 26.3
Fulton Livingston Carlisle	91	19.4 19.1	Mason Rowan	207 269	23.7 23.1
Carlišle Hickman	47 42 73	18.4 17.1	Bourbon Allen	224 209	22.4 20.9
Trimble	73	16.6	Marion	166	16.8
Nicholas Wolfe	54 52 46 21 22 23 18	15.1 14.1	Russell Garrard	141 136	16.1 16.1
Cumberland	46	13.4 8.8	Anderson	170	15.9 15.3
Owsley Menifee	21 22	8.8 7.0	Taylor Union	188 112	15.3 14.9
Lee	23	5.8	Mercer	150	14.1
Elliott Robertson	18 5	4.6 4.4	Harrison Adair	130 111	13.8 11.9
POPULA	TION CATEGORY 1	0,000-14,999	Wavne	123	11.8
Carroll Caldwell	387 199 159	71.6 30.7	Letćher Lawrence	138 89	11.3 11.2
Washington Metcalfe	159 134	27.1 26.5	Casev	87	10.9 10.8
Trigg	186	25.9	Spencer Breckinridge	106	10.6
Larue Webster	176 145	24.8 21.3	Lincoln Knott	124 77	10.0
Butler	128	20.2	Clay	100	9.4 9.2
Todd Bath	1 <u>1</u> 9 91	19.1 15.7	Johnson McCreary	106 66	9.1 7.2
Powell	91 98 110	15.5 14.8	POPULATI	66 ON CATEGORY 25,0 843	000- <b>50,000</b> 35.7
Pendleton Green	81	14.4	Shelby Marshall	617	29.3
Owen Edmonson	76 80	14.0 13.2	Marshall Barren	448 563	28.5 26.7
Fleming	90	12.5 12.5 11.7	Henderson	598	25.9
Clinton Lewis	64 81	12.5 11.7	Whitley Montgomery	440 301	24.7 22.7 22.5
Monroe	81 52 55 51 51	9.5	Clark	400	22.5 21.8
Jackson Magoffin	55 51	9.5 8.2 7.7	Grayson Muhlenberg	281 341 391	21.8 21.7 21.1
Breathitt Morgan	51 50	7.3 7.2	Graves	391 277	21.1 20.6
Martin	44	6.8	Logan Nelson	442	20.4
Leslie Estill	44 23 30	4.1 4.1	Hopkins Franklin	479 496	20.4 20.1
Louii	00	7.1	Jessamine	470	19.3
			Carter Boyd	257 454	18.5 18.3
			Boyle	258	18.1 16.7
			Calloway Perry	310 223	15.5
			Bell * Knox	209 205	14.6 12.9
			Floyd	224	11.4
			Harlan Greenup	144 160	9.8 8.7
			Meade <sup>'</sup>	118 ON CATEGORY OV	8.3
			Boone		48.1
			Bullitt Kenton	2,859 1,255 2,616	33.8 32.8
			Jefferson	10,249	27.7
			Laurel Hardin	805 1,413	27.4 26.8
			Madison	1,053	25.4
			McCracken Fayette	<sup>*</sup> 830 3,730	25.3 25.2
			Warren Oldham	1,400 714	24 6
			Christian	791	23.7 21.4
			Daviess Campbell	977 851	20.2 18.8
		85	Pulaski Pike	543 463	17.2 14.2
			LIVA	403	14.4

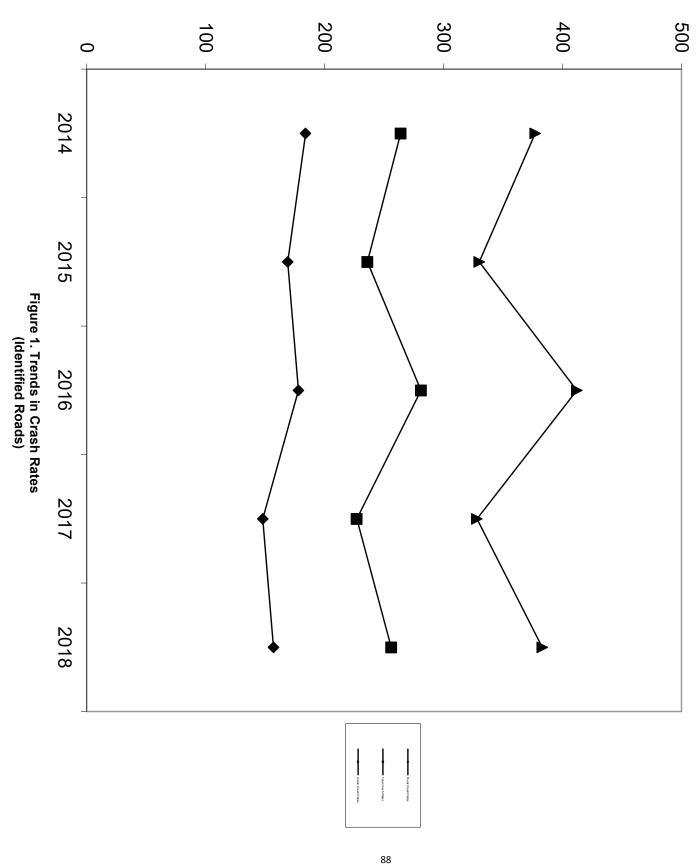
TABLE 50. MOTOR VEHICLE-TRAIN CRASH RATES BY COUNTY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES) (2014 - 2018)

COUNTY	NUMBER OF CRASHES	ANNUAL CRASH RATE (CRASHES PER 10,000 POP.)	COUNTY	NUMBER OF CRASHES	ANNUAL CRASH RATE (CRASHES PER 10,000 POP.)
CCCIVII	OTOTOTILO	10,0001 01 .)			,
	ATION CATEGORY UN	•		ON CATEGORY 15,000	, , ,
Carlisle Bracken	1		Anderson Woodford	1	0.09 0.08
Hancock	1		Taylor	0	0.00
Metcalfe	Ċ		Johnson	0	0.00
Marion	Ö		Rowan	0	0.00
Livingston	Ö		Clay	0	0.00
Crittenden	C	0.00	Wayne	0	0.00
Trimble	C	0.00	Breckinridge	0	0.00
Gallatin	C		Bourbon	0	0.00
Lyon	C		Allen	0	0.00
Ballard	C		Mason	0	0.00
Lee	C		Harrison	0	0.00
Elliott Wolfe	C		Adair Russell	0	0.00 0.00
Nicholas	C		Spencer	0	0.00
Cumberland	C		Garrard	0	0.00
Fulton	C		Casey	0	0.00
Menifee	C		Union	0	0.00
Hickman	C			ATION CATEGORY 25,	
Owsley	C	0.00	Hopkins	9	0.38
Robertson	C		Shelby	6	0.29
	ATION CATEGORY 10		Clark	3	0.17
Webster	5		Floyd	3	0.15
Lewis	4		Barren	3	0.14
Carroll	1		Bell	2	0.14
Breathitt Pendleton	1		Henderson Muhlenberg	3 2	0.13 0.13
Estill	C		Knox	1	0.13
Fleming	C		Greenup	1	0.05
Trigg	C		Laurel	1	0.03
Larue	C	0.00	Boyd	0	0.00
Morgan	C	0.00	Franklin	0	0.00
Jackson	C		Jessamine	0	0.00
Martin	C		Scott	0	0.00
Caldwell	C		Nelson	0	0.00
McCreary	C		Calloway	0	0.00
Butler	C		Graves	0	0.00
Powell Todd	0		Whitley McCracken	0	0.00 0.00
Edmonson	(		Harlan	0	0.00
Washington	C		Perry	0	0.00
Bath	(		Meade	0	0.00
Leslie	Č		Boyle	0	0.00
Green	C		Carter	0	0.00
Monroe	C	0.00	Logan	0	0.00
Owen	C		Montgomery	0	0.00
Clinton	C			ATION CATEGORY 50,0	
	ATION CATEGORY 15		Oldham	13	0.43
Mercer	14		Christian	10	0.27
Magoffin	6		Daviess	11	0.23
Grant	7 4		Warren Pulaski	12 6	0.21
Hart Grayson	5		Pilaski	6	0.19 0.18
Rockcastle	3		Hardin	8	0.16
McLean	3		Kenton	11	0.13
Lincoln	4		Jefferson	45	0.12
Henry	2		Campbell	3	0.07
Ohio	3		Boone	3	0.05
Knott	2		Marshall	2	0.05
Simpson	2		Fayette	4	0.03
Letcher	2		Bullitt	1	0.03
Lawrence	1	0.13	Madison	0	0.00

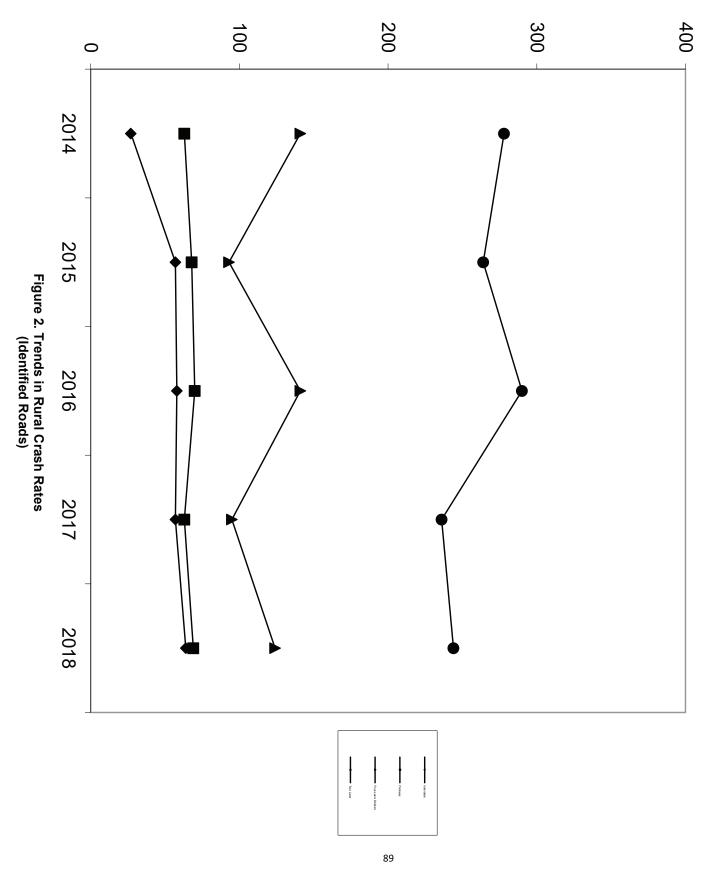
TABLE 51. CRASHES INVOLVING VEHICLE DEFECT BEFORE AND AFTER REPEAL OF VEHICLE INSPECTION LAW

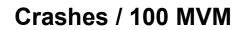
OF VEHICLE INOT ECHICIVETY	NUMBER OF CRASHES INVOLVING	PERCENT OF ALL CRASHES INVOLVING
TIME PERIOD	VEHICLE DEFECTS	VEHICLE DEFECTS
October 1976 - May 1978 (20 Months Before Repeal of Law)	14,440	5.86
June 1978 - December 1979 (19 Months After Repeal of Law)	16,527	7.09
1980-1984	46,397	7.43
1985-1989	46,552	6.64
1990-1994	40,393	6.09
1995-1999	33,655	5.27
2000	7,834	4.98
2001	7,325	4.79
2002	7,338	4.77
2003	6,882	4.47
2004	6,811	4.33
2005	7,050	4.61
2006	6,656	4.36
2007 2008	6,671 6,106	4.37 4.21
2009	6,269	4.24
2010	6,246	4.15
2011	7,886	5.25
2012	8,030	6.43
2013	7,623	6.18
2014	7,831	5.18
2015	8,450	5.24
2016	8,334	5.04
2017	8,213	6.00
2018	7,694	5.73

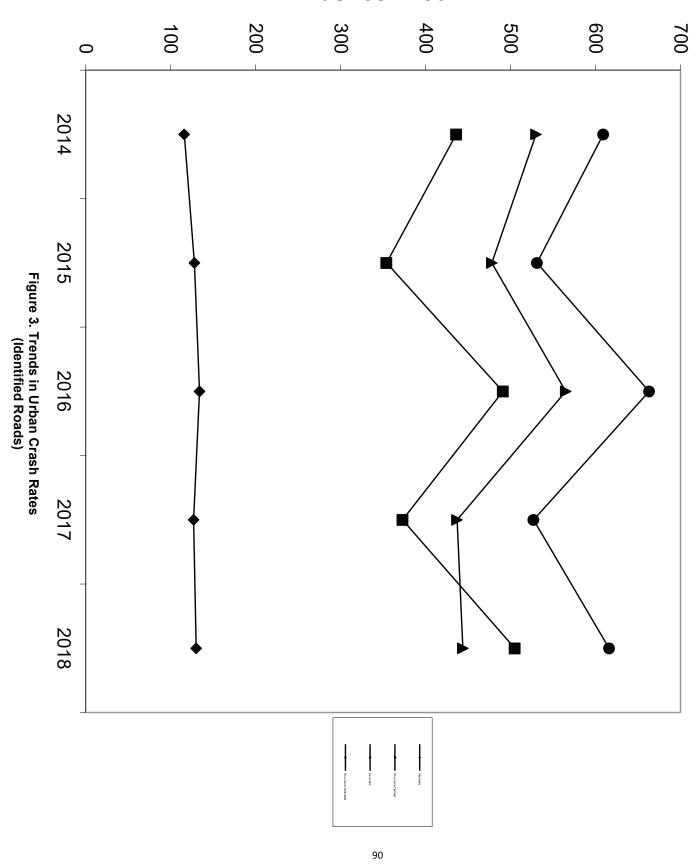
## Crashes / 100 MVM



## Crashes / 100 MVM







## 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 minor arterials followed by urban principal arterials (non-interstate or freeway). The lowest overall rates are for rural principal arterials (interstate) followed by other rural principal arterials and urban principal arterials (interstate and other freeway). Injury crash rates for the various categories are ordered similar to overall crash rates. However, the ordering for the fatal crash rates is very different. The highest fatal crash rates are for rural collectors and rural local roadways. Urban principal arterials (interstate and other freeway) have the lowest fatal crash rate with several other urban classifications, as well as rural interstates.

Statewide crash rates by administrative classification are listed in Table A-2. The rate for the primary system is lowest and the rate for the unclassified system is the highest. Rates for the secondary and rural secondary systems are between those two levels.

The benefits of providing a median and increasing the median width are shown in Table A-3. 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 more when comparing a highway that 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-4. 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-5. Each county was given a terrain classification as flat, rolling, or mountainous since a classification was not available for each road segment. Considering the entire system, the rates are similar for all terrain classifications within each federal-aid system.

Rates by rural-urban designation are shown in Table A-6. The lowest rate is for rural areas

The relationship between crash rate and traffic volume (average annual daily traffic) for various federal-aid highway classifications is illustrated in Table A-7. The rate for the federal-aid primary and federal-aid urban generally increased with increasing volume. There was no specific trend in rates on federal-aid secondary and non-federal aid roads with volume.

The percentage of crashes occurring during wet, snow, or icy pavement conditions or during darkness by rural or urban highway type classification is given in Table A-8. The overall percentage of crashes occurring during wet pavement conditions is 22 percent on rural roadways and 16 percent on urban roadways.

There are large variations in the percentage of crashes occurring on the various highway types during snow or icy conditions. This five-year statewide percentage would change depending on the amount of snowfall any given year. The percentage on rural roads (5.1 percent) is substantially higher than that on urban roads (2.7 percent).

The highest percentages of ice or snow crashes are on interstates and parkways with the highest being 9.3 percent on rural interstate.

There are also large variations in the percentage of crashes occurring during darkness. The overall percentage is higher on rural roads (31 percent) than urban roads (23 percent). The highest percentage is on rural parkways, followed by rural interstates.

TABLE A-1. STATEWIDE CRASH RATES BY FUNCTIONAL CLASSIFICATION (2014 - 2018)

		AVERAGE		CF	RASH RATES	
	FUNCTIONAL	TOTAL	AVERAGE	(CRASH	ES PER 100 M\	√M)
LOCATION	CLASSIFICATION	MILEAGE	AADT	ALL	INJURY	FATAL
Rural	Principal Arterial, Interstate	635	33,920	59	10	0.5
	Principal Arterial, Other Freeway	1,693	8,220	106	21	1.3
	Minor Arterial	2,330	4,043	213	42	2.1
	Major Collector	5,798	1,820	295	62	3.3
	Minor Collector	9,285	617	315	71	3.2
	Local System	4,775	320	296	65	3.2
Urban	Principal Arterial, Interstate	216	75,689	127	20	0.4
	Principal Arterial, Other Freeway	72	31,538	156	24	0.7
	Other Principal Arterial	629	19,410	501	81	1.5
	Minor Arterial	1,299	10,689	527	83	1.3
	Collector	1,072	4,366	465	67	1.2
	Local System	200	1,285	546	71	2.4

TABLE A-2. STATEWIDE CRASH RATES BY ADMINISTRATIVE CLASSIFICATION (2014 - 2018)

		AVERAGE		
ADMINISTRATIVE	TOTAL	TOTAL	AVERAGE	CRASH RATES
CLASSIFICATION	CRASHES	MILEAGE	AADT	(CRASHES PER 100 MVM)
				·
Primary	*	*	*	*
Secondary	*	*	*	*
Rural Secondary	*	*	*	*
Unclassified	*	*	*	*

<sup>\*</sup> Data not collected

TABLE A-3. STATEWIDE CRASH RATES BY MEDIAN TYPE (RURAL ROADS WITH FOUR OR MORE LANES (2014 - 2018))

·			
	AVERAGE		
TOTAL	TOTAL	AVERAGE	CRASH RATES
CRASHES	MILEAGE	AADT	(CRASHES PER 100 MVM)
17,867	893	14,007	78
348	25	10,113	77
23,951	789	24,838	67
	17,867 348	TOTAL TOTAL CRASHES MILEAGE  17,867 893  348 25	TOTAL TOTAL AVERAGE AADT  17,867 893 14,007  348 25 10,113

TABLE A-4. STATEWIDE CRASH RATES BY ACCESS CONTROL (2014 - 2018)

		AVERAGE		
	TOTAL	TOTAL	AVERAGE	CRASH RATES
ACCESS CONTROL	CRASHES	MILEAGE	AADT	(CRASHES PER 100 MVM)
Full Control	73,628	1,395	32,269	90
Partial Control	49,508	1,064	10,226	249
No Control	396,735	25,741	2,208	382

TABLE A-5. STATEWIDE CRASH RATES FOR RURAL HIGHWAYS BY FEDERAL-AID SYSTEM AND TERRAIN (2014 - 2018)

	\ '	- /		
	(CRA	(SHES/100MVM)		
FEDERAL-AID SYSTEM	FLAT	ROLLING	MOUNTAINOUS	
Interstate	103	67	71	
Federal-Aid Primary	150	144	127	
Federal-Aid Secondary	255	292	242	
Non Federal-Aid	257	346	263	
All	214	181	166	

TABLE A-6. STATEWIDE CRASH RATES BY RURAL-URBAN DESIGNATION (2014 - 2018)

		AVERAGE		
	TOTAL	TOTAL	AVERAGE	CRASH RATES
AREA TYPE	CRASHES	MILEAGE	AADT	(CRASHES PER 100 MVM)
Rural	188,170	24,705	2,555	163
Small Urban Area	332,298	3,520	14,122	366
Urbanized Area	*	*	*	*

<sup>\*</sup> Data not collected

TABLE A-7. RELATIONSHIP BETWEEN CRASH RATE AND TRAFFIC VOLUME (2014 - 2018)

	CRASH RATES (CRASHES PER 100 MVM)					
VOLUME RANGE	FEDERAL-AID	FEDERAL-AID	FEDERAL-AID	NON-FEDERAL		
(AADT)	PRIMARY	URBAN	SECONDARY	AID		
0-999	385	1,180	321	326		
1,000-2,499	289	590	299	492		
2,500-4,999	182	523	279	303		
5,000-9,999	186	552	279	342		
10,000-19,999	190	557	334	453		
20,000-29,999	379	587	345	807		
30,000-39,999	480	650	**	**		
40,000 or more	242	568	293	319		

<sup>\*\*</sup> No data in this volume range.

TABLE A-8. PERCENTAGE OF CRASHES OCCURING DURING WET OR SNOW OR ICE PAVEMENT CONDITIONS OR DURING DARKNESS BY RURAL AND URBAN HIGHWAY TYPE CLASSIFICATION

	PERCENT OF ALL CRASHES					
LOCATION	HIGHWAY TYPE	WET	SNOW OR ICE	DARKNESS		
Rural	One-Lane	20	3.2	11		
	Two-Lane	22	4.8	30		
	Three-Lane	18	2.3	34		
	Four-Lane Divided	18	4.1	31		
	(Non-Interstate or Park	way)				
	Four-Lane Undivide	18	6.0	30		
	Interstate	28	9.2	36		
	Parkway	21	9.8	43		
	All Rural	22	5.4	31		
Urban	Two-Lane	16	3.1	23		
	Three-Lane	14	2.4	23		
	Four-Lane Divided	14	2.0	22		
	(Non-Interstate or Park		0.0	00		
	Four-Lane Undivide	17	2.0	22		
	Interstate	16	4.7	29		
	Parkway	19	5.8	33		
	All Urban	15	2.8	23		

## APPENDIX B

CRASH DATA FOR THREE-YEAR PERIOD (2015-2017)

TABLE B-1. STATEWIDE RURAL CRASH RATES BY HIGHWAY TYPE CLASSIFICATION (2016-2018)

	<del>-</del>				RASHES RATES SHES PER 100 MVM)	
HIGHWAY TYPE	MILEAGE*	AADT	ALL	INJURY	FATAL	
One-Lane	15	700	836	87	0.0	
Two-Lane	22,948	1,320	257	54	2.7	
Three-Lane	31	6,700	283	45	1.8	
Four-Lane Divided (Non-Interstate or Par	624 kwav)	9,630	120	24	1.3	
Four-Lane Undivided	17	14,210	156	29	0.8	
Interstate	651	34,090	60	10	0.5	
Parkway	480	10,150	67	13	1.0	
All	24,765	2,580	161	33	1.7	

<sup>\*</sup> Average for the three years.

TABLE B-2. STATEWIDE URBAN CRASH RATES BY HIGHWAY TYPE CLASSIFICATION (2016-2018)

		CRASHES RATES (CRASHES PER 100 MVM)			
HIGHWAY TYPE	TOTAL MILEAGE*	AADT	ALL	INJURY	FATAL
Two-Lane	2,149	5,800	482	75	1.4
Three-Lane	47	10,220	742	99	1.1
Four-Lane Divided (Non-Interstate or Par	816 kway)	18,470	456	73	1.5
Four-Lane Undivided	147	21,200	601	92	1.6
Interstate	214	77,000	131	20	0.5
Parkway	29	14,340	134	25	1.1
All **	3,465	14,400	375	58	1.1

<sup>\*</sup> Average for the three years.

<sup>\*\*</sup> Includes small number of one-, five-, and six-lane highways.

TABLE B-3. STATEWIDE CRASH RATES FOR "SPOTS" BY HIGHWAY TYPE CLASSIFICATION (2016-2018)

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	96 85,481 644 7,886 ) 404 14,536 3,595 112,642	50 76,492 103 2,080 56 2,171 1,600 82,551	0.26 0.48 2.45 3.52 5.19 12.44 3.70 0.94	2.51 0.77 0.85 0.36 0.47 0.18 0.20 0.48
Urban	Two-Lane Three-Lane Four-Lane Divided Four-Lane Undivided Interstate Parkway All Urban**	65,790 3,903 75,318 20,555 23,564 601 204,719	7,163 157 2,721 491 714 95 11,550	2.12 3.73 6.74 7.74 28.11 5.23 5.26	1.45 2.23 1.37 1.80 0.39 0.40 1.12

TABLE B-4. STATEWIDE AVERAGE AND CRITICAL NUMBERS OF CRASHES FOR "SPOTS" AND ONE-MILE SECTIONS BY HIGHWAY TYPE CLASSIFICATION (2016-2018)

				CRASHE	S PER
RURAL		CRASHES PER SPOT*		ONE MILE SECTION	
OR			CRITICAL		CRITICAL
URBAN	HIGHWAY TYPE	AVERAGE	NUMBER	AVERAGE	NUMBER
Rural	One-Lane	1.92	6	6.40	13
riarar	Two-Lane	1.12	4	3.73	9
	Three-Lane	6.23	13	20.77	33
	Four-Lane Divided	3.79	9	12.64	22
	(Non-Interstate or Parkway)	3.70	· ·	.2.0 .	
	Four-Lane Undivided	7.27	15	24.24	37
	Interstate	6.70	14	22.32	35
	Parkway	2.25	7	7.49	15
	All Rural	1.36	5	4.55	11
Urban	Two-Lane	9.18	17	30.62	45
	Three-Lane	24.91	38	83.04	107
	Four-Lane Divided	27.68	42	92.27	118
	Four-Lane Undivided	41.88	59	139.59	171
	Interstate	33.02	48	110.06	138
	Parkway	6.32	13	21.07	33
	All Urban**	17.72	29	59.08	79

<sup>\*</sup> 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.

<sup>\*</sup> 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 (2016-2018)

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	96 85,481 644 7,886 ) 404 14,536 3,595 112,642	150 229,477 310 6,240 167 6,513 4,800 247,653	0.26 0.48 2.45 3.52 5.19 12.44 3.70 0.94	0.84 0.26 0.28 0.12 0.16 0.06 0.07 0.16
Urban	Two-Lane Three-Lane Four-Lane Divided Four-Lane Undivided Interstate Parkway All Urban**	65,790 3,903 75,318 20,555 23,564 601 204,719	21,489 470 8,163 1,473 2,141 285 34,651	2.12 3.73 6.74 7.74 28.11 5.23 5.26	0.48 0.74 0.46 0.60 0.13 0.13

TABLE B-6. STATEWIDE AVERAGE AND CRITICAL NUMBERS OF CRASHES FOR 0.1 MILE "SPOTS" AND ONE-MILE SECTIONS BY HIGHWAY TYPE CLASSIFICATION (2016-2018)

RURAL		CRASHES F	PER SPOT*	CRASHI ONE MILE	ES 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	0.64 0.37 2.08 1.26 2.42 2.23 0.75 0.45	3 2 6 5 7 7 3 3	6.40 3.73 20.77 12.64 24.24 22.32 7.49 4.55	13 9 33 22 37 35 15
Urban	Two-Lane Three-Lane Four-Lane Divided Four-Lane Undivided Interstate Parkway All Urban**	3.06 8.30 9.23 13.96 11.01 2.11 5.91	8 16 18 24 20 6 13	30.62 83.04 92.27 139.59 110.06 21.07 59.08	45 107 118 171 138 33 79

<sup>\*</sup> 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.

<sup>\*</sup> 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)(2016-2018)

AND THILE-LANE HIGHWATO (THILE-TEART ETHOD)(2010-2010)									
	CRITICAL CRASH RATE (C/MV) BY HIGHWAY TYPE								
AADT	ONE-LANE	TWO-LANE	THREE-LANE						
100 500 1,000 2,500 5,000 7,500 10,000 15,000 20,000	12.54 4.94 3.55 2.45 1.94 1.72 1.60 1.45	8.80 2.95 1.97 1.24 0.91 0.78 0.70 0.61 0.56	8.97 3.04 2.04 1.29 0.95 0.82 0.74 0.65 0.59						

TABLE B-8. CRITICAL CRASH RATES FOR 0.1 MILE "SPOTS" ON RURAL FOUR-LANE HIGHWAYS, INTERSTATES, AND PARKWAYS (THREE-YEAR PERIOD)(2016-2018)

INTERSTATES, AND PARKWAYS (THREE-YEAR PERIOD)(2016-2018)								
	CRITICAL CRASH RATE (C/MV) BY HIGHWAY TYPE							
	FOUR-LANE DIVIDED (NON-INTERSTATE	FOUR-LANE						
AADT	AND PARKWAY)	UNDIVIDED	INTERSTATE	PARKWAY				
500	2.24	2.47	1.83	1.90				
1,000	1.43	1.60	1.12	1.18				
2,500 5,000	0.84 0.59	0.97 0.69	0.62 0.42	0.66 0.45				
10,000	0.44	0.52	0.30	0.32				
15,000	0.37	0.44	0.25	0.27				
20,000	0.33	0.40	0.22	0.24				
30,000 40,000	0.29 0.27	0.35 0.33	0.19 0.17	0.20 0.18				
50,000	0.27	0.31	0.17	0.16				

TABLE B-9. CRITICAL CRASH RATES FOR 0.1 MILE "SPOTS" ON URBAN TWO-LANE AND THREE-LANE HIGHWAYS (THREE-YEAR PERIOD)(2016-2018)

	2 2 442 7 442 1 1 1 1 2 2 442 7 1 3 1 1 1 1 1 2 1 2 4 1 1 2 1 1 2 1 3 1 3 1 3 1 3 1 3 1 3 1 3								
	CRITICAL CRASH RATE (C/MV) BY HIGHWAY TYPE								
AADT	TWO-LANE THREE-LANE								
AADT	TWO LANE THILE LANE								
500	3.81 4.65								
1,000	2.64 3.31								
2,500	1.74 2.26								
5,000	1.33 1.78								
7,500	1.16 1.57								
10,000	1.06 1.46								
15,000	0.95 1.32								
20,000 30,000	0.88 1.24								
	0.81 1.14								
40,000	0.76 1.09								

TABLE B-10. CRITICAL CRASH RATES FOR 0.1 MILE "SPOTS" ON URBAN FOUR-LANE HIGHWAYS, INTERSTATES, AND PARKWAYS (THREE-YEAR PERIOD)(2016-2018)

= = 6,7 = 6 ( = 7,2 = 2,3 = 2,3 = 2,3 = 2,3 = 3,7 = 3,								
	CRITICAL CRASH RATE (C/MV) BY HIGHWAY TYPE							
	FOUR-LANE DIVIDED	311 <b>111</b>						
	(NON-INTERSTATE	FOUR-LANE						
AADT	AND PARKWAY)	UNDIVIDED	INTERSTATE	PARKWAY				
1,000	2.59	2.96	1.47	1.47				
5,000	1.30	1.54	0.62	0.62				
10,000	1.03	1.25	0.46	0.46				
15,000	0.92	1.12	0.39	0.39				
20,000	0.86	1.05	0.35	0.35				
30,000	0.78	0.96	0.31	0.31				
40,000	0.74	0.91	0.28	0.28				
50,000	0.71	0.88	0.26	0.26				
60,000	0.68	0.85	0.25	0.25				
70,000	0.67	0.83	0.24	0.24				
80,000	0.65	0.82	0.23	0.23				
90,000	0.64	0.81	0.23	0.23				
100,000	0.63	0.80	0.22	0.22				

# APPENDIX C CRITICAL "NUMBERS OF CRASHES" TABLES

TABLE C-1. CRITICAL NUMBERS OF CRASH RATES ON RURAL HIGHWAYS BY HIGHWAY TYPE AND SECTION LENGTH (2014-2018)

				OF CRASHES LENGTH (MIL	_		
HIGHWAY TYPE	10	15	20				
One-Lane	7	13	22	46	84	120	155
Two-Lane	7	13	22	47	84	120	156
Three-Lane	23	49	88	201	382	560	736
Four-Lane Divided (Non-Interstate and Park	16 (way)	33	58	130	244	356	466
Four-Lane Undivided	24	50	91	206	392	575	756
Interstate	25	52	95	217	413	606	797
Parkway	11	22	38	82	152	220	287

TABLE C-2. CRITICAL NUMBERS OF CRASH RATES ON URBAN HIGHWAYS BY HIGHWAY TYPE AND SECTION LENGTH (2014-2018)

		(======================================	,			
				OF CRASHES LENGTH (MI		
HIGHWAY TYPE	0.4	1	2	5	8	10
Two-Lane	33	70	129	299	464	573
Three-Lane	71	159	301	713	1,119	1,388
(Non-Interstate and Parl	kway)					
Four-Lane Divided	78	176	333	792	1,244	1,543
Four-Lane Undivided	116	266	509	1,222	1,926	2,393
Interstate	92	210	400	955	1,502	1,864
Parkway	23	47	85	194	299	368

### APPENDIX D

# CRITICAL CRASH RATE TABLES FOR HIGHWAY SECTIONS

TABLE D-1. CRITICAL CRASH RATES FOR RURAL ONE-LANE SECTIONS (FIVE-YEAR PERIOD)(2014-2018)

	CF		H RATE (C/10 ECTION LENG	,	THE
AADT	0.5	1	2	5	10
100	3,301	2,404	1,825	1,352	1,127
200	2,404	1,825	1,445	1,127	974
300	2,036	1,584	1,284	1,031	908
400	1,825	1,445	1,190	974	869
500	1,686	1,352	1,127	936	842
700	1,507	1,232	1,046	886	808
1,000	1,352	1,127	974	842	777
1,500	1,210	1,031	908	801	748
2,000	1,127	974	869	777	732
2,500	1,072	936	842	761	720
3,000	1,031	908	823	748	712

TABLE D-2. CRITICAL CRASH RATES FOR RURAL TWO-LANE SECTIONS (FIVE-YEAR PERIOD)(2014-2018)

	CF		H RATE (C/100 ECTION LENG	,	HE	
AADT	0.5	1	2	5	10	20
100	2,192	1,513	1,090	754	599	495
300	1,243	918	707	533	450	393
500	990	754	599	469	406	363
1,000	754	599	495	406	363	333
1,500	656	533	450	379	344	320
2,000	599	495	424	363	333	312
3,000	533	450	393	344	320	303
4,000	495	424	375	333	312	297
5,000	469	406	363	325	307	294
7,000	435	383	347	315	300	289
8,000	424	375	341	312	297	287
9,000	414	368	337	309	295	286
10,000	406	363	333	307	294	284

TABLE D-3. CRITICAL CRASH RATES FOR RURAL THREE-LANE SECTIONS (FIVE-YEAR PERIOD)(2014-2018)

			_0.0)						
	(	CRITICAL CRASH RATE (C/100 MVM) FOR THE							
		GIVEN SECTION LENGTH (MILES)							
AADT	0.5	1	2	3	5				
100	2,255	1,563	1,131	954	786				
300	1,287	954	738	647	559				
500	1,028	786	627	559	493				
1,000	786	627	519	473	428				
1,500	685	559	473	437	400				
2,000	627	519	446	415	384				
3,000	559	473	415	389	364				
4,000	519	446	396	374	353				
5,000	493	428	384	364	345				
6,000	473	415	374	357	339				
7,000	458	405	367	351	335				
8,000	446	396	362	346	331				
9,000	437	389	357	342	328				
10,000	428	384	353	339	326				

TABLE D-4. CRITICAL CRASH RATES FOR RURAL FOUR-LANE DIVIDED SECTIONS (NON-INTERSTATE AND PARKWAY) (FIVE-YEAR PERIOD)(2014-2018)

		, ,		, ,	,
	CR		H RATE (C/100 CTION LENG	) MVM) FOR T	HE
AADT	0.5	1	2	5	10
500	643	467	354	261	217
1,000	467	354	279	217	187
2,500	326	261	217	180	161
5,000	261	217	187	161	149
7,500	233	198	174	153	143
10,000	217	187	166	149	140
15,000	198	174	157	143	136
20,000	187	166	152	140	133
30,000	174	157	146	136	131
40,000	166	152	142	133	129
50,000	161	149	140	132	128

TABLE D-5. CRITICAL CRASH RATES FOR RURAL FOUR-LANE UNDIVIDED SECTIONS (FIVE-YEAR PERIOD)(2014-2018)

OLOTIONO (TVE TEATT ETHOD)(2014 2010)						
	CR	ITICAL CRASI	H RATE (C/100	) MVM) FOR T	HE	
		GIVEN SE	CTION LENG	ΓH (MILES)		
AADT	0.5	1	2	5	10	
500	687	503	384	286	239	
1,000	503	384	305	239	208	
2,500	355	286	239	200	180	
5,000	286	239	208	180	167	
7,500	257	219	194	172	161	
10,000	239	208	186	167	157	
20,000	208	186	171	157	151	
30,000	194	176	164	153	148	
40,000	186	171	160	151	146	
50,000	180	167	157	149	145	

TABLE D-6. CRITICAL CRASH RATES FOR RURAL INTERSTATE SECTIONS (FIVE-YEAR PERIOD)(2014-2018)

CRITICAL CRASH RATE (C/100 MVM) FOR THE GIVEN SECTION LENGTH (MILES)						
AADT	0.5	1	2	5	10	20
500	461	320	232	162	130	108
1,000	320	232	176	130	108	93
2,500	211	162	130	102	89	80
5,000	162	130	108	89	80	74
7,500	141	116	98	83	76	71
10,000	130	108	93	80	74	69
20,000	108	93	83	74	69	66
30,000	98	86	78	71	67	65
40,000	93	83	75	69	66	64
50,000	89	80	74	68	65	63

TABLE D-7. CRITICAL CRASH RATES FOR RURAL PARKWAY SECTIONS (FIVE-YEAR PERIOD)(2014-2018)

	CR	CRITICAL CRASH RATE (C/100 MVM) FOR THE GIVEN SECTION LENGTH (MILES)					
AADT	0.5	1	2	5	10	20	
400	551	380	274	190	151	125	
700	407	291	217	157	129	110	
1,000	341	249	190	141	118	102	
1,500	282	211	165	127	108	96	
2,000	249	190	151	118	102	92	
3,000	211	165	134	108	96	87	
4,000	190	151	125	102	92	84	
5,000	176	141	118	99	89	82	
7,000	157	129	110	93	85	80	
10,000	141	118	102	89	82	77	
20,000	118	102	92	82	77	74	
40,000	102	92	84	77	74	72	

TABLE D-8. CRITICAL CRASH RATES FOR URBAN TWO-LANE SECTIONS (FIVE-YEAR PERIOD)(2014-2018)

OLOTIONO (TIVE TEATT ETHOD)(2014 2010)							
	CRITICAL CRASH RATE (C/100 MVM) FOR THE GIVEN SECTION LENGTH (MILES)						
AADT	0.5	1	2	5	10		
500	1,446	1,143	941	769	685		
1,000	1,143	941	803	685	627		
2,500	891	769	685	613	577		
5,000	769	685	627	577	551		
7,500	716	649	602	561	540		
10,000	685	627	587	551	534		
15,000	649	602	569	540	526		
20,000	627	587	558	534	521		
30,000	602	569	546	526	515		
40,000	587	558	539	521	512		
50,000	577	551	534	518	510		

TABLE D-9. CRITICAL CRASH RATES FOR URBAN THREE-LANE SECTIONS (FIVE-YEAR PERIOD)(2014-2018)

020110110 (1112 121111 21102)(2011 2010)							
	CRITICAL CRASH RATE (C/100 MVM) FOR THE GIVEN SECTION LENGTH (MILES)						
AADT	0.5	1	2	5	10		
500	1,804	1,455	1,220	1,019	921		
1,000	1,455	1,220	1,060	921	853		
2,500	1,162	1,019	921	835	793		
5,000	1,019	921	853	793	763		
7,500	958	878	823	774	750		
10,000	921	853	805	763	742		
15,000	878	823	784	750	732		
20,000	853	805	771	742	727		
30,000	823	784	756	732	720		
40,000	805	771	748	727	716		
50,000	793	763	742	723	714		

TABLE D-10. CRITICAL CRASH RATES FOR URBAN FOUR-LANE DIVIDED SECTIONS (NON-INTERSTATE AND PARKWAY) (FIVE-YEAR PERIOD)(2014-2018)

		, ,		, ,	,			
	CR	CRITICAL CRASH RATE (C/100 MVM) FOR THE GIVEN SECTION LENGTH (MILES)						
AADT	0.5	1	2	5	10			
1,000	1,047	856	726	615	560			
2,500	808	693	615	546	512			
5,000	693	615	560	512	488			
10,000	615	560	522	488	472			
15,000	580	536	505	478	464			
20,000	560	522	495	472	460			
25,000	546	512	488	468	457			
30,000	536	505	483	464	455			
40,000	522	495	477	460	452			
50,000	512	488	472	457	450			
60,000	505	483	468	455	448			

TABLE D-11. CRITICAL CRASH RATES FOR URBAN FOUR-LANE UNDIVIDED SECTIONS (FIVE-YEAR PERIOD)(2014-2018)

020110110 (1112 12:1111 2:1105)(2011 2010)						
	CRITICAL CRASH RATE (C/100 MVM) FOR THE GIVEN SECTION LENGTH (MILES)					
AADT	0.5	1	2	5	10	
1,000	1,298	1,079	930	801	738	
2,500	1,025	893	801	722	683	
5,000	893	801	738	683	655	
10,000	801	738	694	655	636	
15,000	762	710	674	643	627	
20,000	738	694	663	636	622	
25,000	722	683	655	631	618	
30,000	710	674	649	627	616	
40,000	694	663	641	622	612	
50,000	683	655	636	618	610	
60,000	674	649	631	616	608	

TABLE D-12. CRITICAL CRASH RATES FOR URBAN INTERSTATE SECTIONS (FIVE-YEAR PERIOD)(2014-2018)

SECTIONS (TVE-TEATT ETHOD)(2014-2010)						
	CR		H RATE (C/100 CTION LENG	) MVM) FOR T TH (MILES)	HE	
AADT	0.5	1	2	5	10	
1,000	486	370	293	229	198	
5,000	274	229	198	171	158	
10,000	229	198	177	158	149	
20,000	198	177	162	149	143	
30,000	185	168	156	145	140	
40,000	177	162	152	143	138	
50,000	171	158	149	141	137	
60,000	168	156	147	140	136	
70,000	164	153	146	139	136	
80,000	162	152	145	138	135	
90,000	160	150	144	138	135	
100,000	158	149	143	137	134	

TABLE D-13. CRITICAL CRASH RATES FOR URBAN PARKWAY SECTIONS (FIVE-YEAR PERIOD)(2014-2018)

CRITICAL CRASH RATE (C/100 MVM) FOR THE GIVEN SECTION LENGTH (MILES)						
AADT	0.5	1	2	5	10	20
500	647	470	356	263	218	188
1,000	470	356	281	218	188	168
2,500	328	263	218	181	163	150
5,000	263	218	188	163	150	141
7,500	235	200	175	154	144	137
10,000	218	188	168	150	141	135
15,000	200	175	159	144	137	132
20,000	188	168	153	141	135	130
30,000	175	159	147	137	132	128
40,000	168	153	143	135	130	127
90,000	151	142	135	130	127	125
50,000	163	150	141	133	129	126

### 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)(2014-2018)

AND THILE EARL HIGHWATO (THE TEATT EHIOD)(2014 2010)							
	CRITICAL CRASH RATE (C/MV) BY HIGHWAY TYPE						
AADT	ONE-LANE	TWO-LANE	THREE-LANE				
100 500 1,000 2,500 5,000 7,500 10,000 15,000 20,000	12.86 6.11 4.75 3.63 3.09 2.86 2.72 2.56 2.47	8.89 3.73 2.76 1.97 1.60 1.45 1.35 1.25 1.18	9.11 3.86 2.86 2.05 1.68 1.51 1.42 1.31 1.24				

TABLE E-2. CRITICAL CRASH RATES FOR "SPOTS" ON RURAL FOUR-LANE HIGHWAYS, INTERSTATES, AND PARKWAYS (FIVE-YEAR PERIOD)(2014-2018)

AND PARKWAYS (FIVE-YEAR PERIOD)(2014-2016)								
	CRITICAL CRASH RATE (C/MV) BY HIGHWAY TYPE							
	FOUR-LANE DIVIDED (NON-INTERSTATE	FOUR-LANE						
AADT	AND PARKWAY)	UNDIVIDED	INTERSTATE	PARKWAY				
500 1,000 2,500 5,000 10,000	2.53 1.78 1.19 0.93 0.75	2.65 1.88 1.27 0.99 0.81	1.87 1.26 0.80 0.60 0.46	1.95 1.33 0.85 0.64 0.50				
15,000 20,000 30,000 40,000 50,000	0.67 0.63 0.58 0.55 0.53	0.73 0.68 0.63 0.60 0.58	0.41 0.37 0.34 0.31 0.30	0.44 0.40 0.36 0.34 0.33				

TABLE E-3. CRITICAL CRASH RATES FOR "SPOTS" ON URBAN
TWO-LANE AND THREE-LANE HIGHWAYS (FIVE-YEAR PERIOD)(2014-2018)

	1110 2 112 1112 2 1112 1113 11111 (1112 2 1112 113 111 2 1110 2 1112 2 1112 113 111 2 113 113						
	CRITICAL CRASH RATE (C/MV)						
	BY H	IIGHWAY TYPE					
AADT	TWO-LANE	THREE-LANE					
500	5.29	6.50					
1,000	4.06	5.09					
2,500	3.04	3.91					
5,000	2.56	3.35					
7,500	2.35	3.11					
10,000	2.23	2.96					
15,000	2.09	2.80					
20,000	2.00	2.70					
30,000	1.90	2.58					
40,000	1.84	2.51					

TABLE E-4. CRITICAL CRASH RATES FOR "SPOTS" ON URBAN FOUR-LANE HIGHWAYS, INTERSTATES, AND PARKWAYS (FIVE-YEAR PERIOD)(2014-2018)

7(1017	IIIIIIIII TEMINE	3)(2011 2010)						
	CRITICAL CRASH RATE (C/MV)							
	BY HIGHWAY TYPE							
	FOUR-LANE DIVIDED							
	(NON-INTERSTATE	FOUR-LANE						
AADT	AND PARKWAY)	UNDIVIDED	INTERSTATE	PARKWAY				
1,000	3.75	4.58	1.83	1.78				
5,000	2.33	2.96	0.96	0.93				
10,000	2.01	2.60	0.78	0.75				
15,000	1.88	2.44	0.70	0.67				
20,000	1.80	2.35	0.66	0.63				
30,000	1.71	2.24	0.60	0.58				
40,000	1.65	2.18	0.57	0.55				
50,000	1.61	2.13	0.55	0.53				
60,000	1.59	2.10	0.54	0.51				
70,000	1.56	2.08	0.52	0.50				
80,000	1.55	2.06	0.51	0.49				
90,000	1.53	2.04	0.51	0.48				
100,000	1.52	2.03	0.50	0.48				

### APPENDIX F

TOTAL CRASH RATES FOR CITIES INCLUDED IN 2000 CENSUS

TABLE F-1. CRASHES AND CRASH RATES FOR ALL CITIES LISTED IN THE 2010 CENSUS (2014-2018)

	NUMBER OF		ANNUAL CRASHES PER 1000			NUMBER OF	CRASHES
CITY	POPULATION	CRASHES	POPULATION	CITY	POPULATION	CRASHES	PER 1000 POPULATION
Adairville	852	34	8	California	130	*	
Albany	2,033	223	22	Calvert City	2,566	449	38
Alexandria	8,477	1,118	26	Camargo	1,081	98	18
Allen	193	92	95	Cambridge	175	*	"
Anchorage	2,348	106	9	Campbellsburg	813	111	2
Annville	470	*	*	Campbellsville	9,108	1,922	4:
Arlington	324	22	14	Campton	441	133	6
Ashland	21,684	3,555	33	Caneyville	608	58	1!
Auburn	1,340	133	20	Carlisle	2,010	177	18
Audubon Park	1,473	14	2	Carrollton	3,938	490	2!
Augusta	1,190	97	16	Carrsville	50	*	2.
Bancroft	494	3	1	Catlettsburg	1,856	586	60
Barbourmeade	1,218	15	3	Cave City	2,240	413	37
Barbourville	3,165	590	37	Centertown	423	16	
Bardstown	11,700	2,596	44	Central City	5,978	816	2
Bardwell	723	18	5	Clarkson	875	106	2
Barlow	675	31	9	Clay	1,181	27	۷.
Beattyville	1,307	133	20	Clay City	1,077	*	•
Beaver Dam	3,409	485	29	Clinton	1,388	*	
Bedford	599	126	42	Cloverport	1,152	39	-
Beechwood Village	1,324	35	5	Cold Spring	5,912	1,037	3!
Bellefonte	888	49	11	Cold Spring		1,037	3:
Bellemeade	865	49 *	*		862		0.1
Bellevue	5,955	673		Columbia	4,452	555 *	28
Bellewood	321	2	23	Columbus	170		4.
Benham	500	3	1 1	Concord	35	2	1
Benton	4,349	754	35	Corbin Corinth	7,304	1,573	4:
Berea			35 29		232	111	90
	13,561 264	1,968 4		Corydon	720	47	10
Berry			3	Covington	40,640	7,293	30
Blaine	47	7	30	Crab Orchard	841	35	
Blandville	95			Creekside	323		
Bloomfield	838	52	12	Crescent Springs	3,801	923	49
Blue Ridge Manor	767	153	40	Crestview	475	8	
Bonnieville	255	95	75	Crestview Hills	3,148	1,555	99
Booneville	81	64	158	Crestwood	4,531	803	35
Bowling Green	58,067	13,844	48	Crittenden	3,815	339	18
Bradfordsville	294	8	5	Crofton	749	59 *	16
Brandenburg	2,643	586	44	Crossgate	225		
Bremen	197	73	74	Cumberland	2,237	138	12
Briarwood	435	4	2	Cynthiana	6,402	910	28
Brodhead	1,211	64	11	Danville	16,218	2,614	32
Broeck Point	325	*	*	Dawson Springs	2,764	198	14
Bromley	763	33	9	Dayton	5,338	365	14
Brooksville	642	54	17	Dixon	786	85	22
Brownsboro Farm	648	*	*	Douglass Hills	5,549	*	
Brownsville	836	166	40	Dover	252	19	15
Burgin 	965	33	7	Drakesboro	515	83	32
Burkesville	1,521	125	16	Druid Hills	308	*	
Burnside	611	403	132	Dry Ridge	2,191	689	6
Butler	612	43	14	Earlington	1,413	137	19
Cadiz	2,558	441	35	Eddyville	2,554	346	27
Calhoun	763	82	22	Edgewood	8,575	755	18

<sup>\*</sup> Data Not Available

TABLE F-1. CRASHES AND CRASH RATES FOR ALL CITIES LISTED IN THE 2010 CENSUS (2014-2018)(continued)

	NUMBER OF		ANNUAL CRASHES			NUMBER OF	CRASHES
CITY	POPULATION	CRASHES	PER 1000 POPULATION	CITY	POPULATION	CRASHES	PER 1000 POPULATION
Edmonton	1,595	270	34	Hardin	615	82	27
Ekron	135	77	114	Hardinsburg	2,343	199	17
Elizabethtown	28,531	5,417	38	Harlan	1,745	568	65
Elkhorn City	982	118	24	Harrodsburg	8,340	1,032	25
Elkton	2,062	145	14	Hartford	2,672	277	21
Elsmere	8,451	537	13	Hawesville	945	122	26
Eminence	2,498	138	11	Hazard	4,456	1,704	77
Erlanger	18,082	3,499	39	Hazel	410	35	17
Eubank	319	50	31	Hebron Estates	930		
Evarts	962	81	17	Henderson	28,757	4,572	32
Ewing	264	38	29	Hickman	2,395	25	2
Fairfield	113	7	12	Hickory Hill	114	*	*
Fairview	286	15	11	Highland Heights	6,923	1,061	31
Falmouth	2,169	207	19	Hills And Dales	154	*	*
Ferguson	924	119	26	Hillview	6,119	*	*
Fincastle	838	*	*	Hindman	777	237	61
Flatwoods	7,423	421	11	Hiseville	240	12	10
Fleming-neon	759	*	*	Hodgenville	3,206	357	22
Flemingsburg	2,658	413	31	Hollow Creek	991	*	*
Florence	29,951	9,042	60	Hollyvilla	537	*	*
Fordsville	524	66	25	Hopkinsville	31,577	4,308	27
Forest Hills	444	121	55	Horse Cave	2,311	78	7
Fort Mitchell	8,207	1,346	33	Houston Acres	507	1	0
Fort Thomas	16,325	1,250	15	Hunters Hollow	286	*	*
Fort Wright	5,723	2,255	79	Hurstbourne	4,420	*	*
Foster	65	*	*	Hurstbourne Acres	1,811	*	*
Fountain Run	217	11	10	Hustonville	405	25	12
Fox Chase	528	*	*	Hyden	365	37	20
Frankfort	25,527	4,263	33	Independence	24,757	1,797	15
Franklin	8,408	1,498	36	Indian Hills	2,868	185	13
Fredonia	401	47	23	Indian Hills Ch. Sec.	1,005	*	*
Frenchburg	486	99	41	Inez	717	119	33
Fulton	2,445	241	20	Irvine	2,715	122	9
Gamaliel	376	13	7	Irvington	1,181	65	11
Georgetown	29,098	3,972	27	Island	458	44	19
Germantown	154	17	22	Jackson	2,231	530	48
Ghent	323	50	31	Jamestown	1,794	127	14
Glasgow	14,028	2,697	39	Jeffersontown	26,595	4,209	32
Glencoe	360	51	28	Jeffersonville	1,506	296	39
Glenview	653	*	*	Jenkins	2,203	*	*
Glenview Hills	353	*	*	Junction City	2,241	95	9
Glenview Manor	191	*	*	Kenton Vale	110	*	*
Goose Creek	294	*	*	Kevil	376	65	35
Grand Rivers	382	54	28	Kingsley	381	3	2
Gratz	78	6	15	Kuttawa	649	146	45
Grayson	4,217	702	33	La Grange	8,082	1,088	27
Green Spring	768	*	*	Lafayette	165	3	4
Greensburg	2,163	241	22	Lakeside Park	2,668	246	18
Greenup	1,188	216	36	Lakeview Heights	252	*	*
Greenville	4,312	686	32	Lancaster	3,442	439	26
Guthrie	1,419	77	11	Langdon Place	874	*	*
Hanson	742	91	25	Lawrenceburg	10,505	934	18

<sup>\*</sup> Data Not Available

TABLE F-1. CRASHES AND CRASH RATES FOR ALL CITIES LISTED IN THE 2010 CENSUS (2014-2018)(continued)

	NUMBER OF		ANNUAL CRASHES			NUMBER OF	CRASHES
CITY	POPULATION	CRASHES	PER 1000 POPULATION	CITY	POPULATION	CRASHES	PER 1000 POPULATION
Lebanon	5,539	936	34	Murray Hill	619	*	*
Lebanon Junction	1,813	174	19	Nebo	236	20	17
Leitchfield	6,699	1,149	34	New Castle	912	63	14
Lewisburg	810	52	13	New Haven	855	37	9
Lewisport	1,670	62	7	Newport	15,273	3,856	51
Lexington	295,803	55,040	37	Nicholasville	28,015	4,161	30
Liberty	2,168	185	17	Norbourne Estates	441	1	1
Lincolnshire	148	*	*	Northfield	1,020	453	89
Livermore	1,365	345	51	Nortonville	1,204	116	19
Livingston	226	87	77	Norwood	372	*	*
London	7,993	3,035	76	Oak Grove	7,489	1,122	30
Loretto	713	68	19	Oakland	225	27	24
Louisa	2,467	394	32	Old Brownboro Place		*	*
Louisville	597,337	109,001	37	Olive Hill	1,599	137	17
Loyall	1,461	43	6	Orcharh Grass Hills	1,058	*	*
Ludlow	4,407	334	15	Owensboro	57,265	11,265	39
Lynch	747	11	3	Owenton	1,327	161	24
Lyndon	11,002	860	16	Owingsville	1,530	291	38
Lynnview	914	14	3	Paducah	25,024	6,412	51
Mackville	222	7	6	Paintsville	3,459	889	51
Madisonville	19,591	3,006	31	Paris	8,553	1,378	32
Manchester	1,255	350	56	Park City	537	79	29
Manor Creek	1,255	*	*	Park Hills	2,970	120	8
Marion	3,039	246	16	Park Lake	2,970	120	•
Martin	634	217	69	Parkway Village	650	*	*
Maryhill Estates	177	*	*	Pembroke	869	57	10
Mayfield	10,024	1,559	31	Perryville	751	32	13 9
Maysville	9,011	1,558	35	Pewee Valley	1,456		33
Mchenry	388	1,556	14	•	893	240 98	
Mckee	800	125	31	Phelps Pikeville			22 68
Mcroberts	784		3		6,903	2,345	
		11	*	Pineville	1,732	379	44
Meadowbrook Farm Melbourne	163			Pioneer Village	1,130		
Mentor	401	27	14	Pippa Passes	533	38	14
	193	5	5	Plantation	832	40	10
Middletown	7,218	2,057	57	Pleasureville	834	29	7
Midway	1,641	189	23	Plum Springs	453	*	·
Millersburg	792	65	16	Poplar Hills	377		•
Milton	574	116	40	Powderly	745	122	33
Monterey	138	2,373	3,439	Prestonsburg	3,255	1,308	80
Monticello	6,188	1,029	33	Prestonville	161	28	35
Moorland	431	124	58	Princeton	6,329	864	27
Morehead	6,845	2,210	65	Prospect	2,788	*	*
Morganfield	3,285	363	22	Providence	3,193	149	9
Morgantown	2,394	342	29	Raceland	2,424	117	10
Mortons Gap	863	92	21	Radcliff	21,688	2,414	22
Mount Olivet	299	30	20	Ravenna	605	21	7
Mount Sterling	6,895	1,456	42	Raywick	157	*	*
Mount Vernon	2,477	600	48	Richlawn	435	*	*
Mount Washington	9,117	1,333	29	Richmond	31,364	5,795	37
Muldraugh	947	173	37	River Bluff	452	*	*
Munfordville	1,615	368	46	Riverwood	446	737	331
Murray	17,741	2,727	31	Rochester	152	4	5

<sup>\*</sup> Data Not Available

TABLE F-1. CRASHES AND CRASH RATES FOR ALL CITIES LISTED IN THE 2010 CENSUS (2014-2018)(continued)

	NUMBER OF		ANNUAL CRASHES			NUMBER OF	CRASHES
		CRASHES	PER 1000			CRASHES	PER 1000
CITY	POPULATION		POPULATION	CITY	POPULATION		POPULATION
Rockport	266	26	20	Upton	683	45	13
Rolling Fields	646	*	*	Vanceburg	1,518	102	13
Rolling Hills	959	131	27	Versailles	8,568	1,355	32
Russell	3,380	712	42	Vicco	334	69	41
Russell Springs	2,441	681	56	Villa Hills	7,489	204	5
Russellville	6,960	1,027	30	Vine Grove	4,520	347	15
Ryland Heights	279	*	*	Wallins Creek	156	*	*
Sacramento	468	46	20	Walton	3,635	808	45
Sadieville	303	42	28	Warfield	269	34	25
Salem	752	28	7	Warsaw	1,615	143	18
Salt Lick	303	51	34	Water Valley	279	16	12
Salyersville	1,883	289	31	Waterson Park	1,542	*	*
Sanders	238	7	6	Waverly	308	24	16
Sandy Hook	675	61	18	Wayland	426	29	14
Sardis	103	9	18	Wellington	565	12	4
Science Hill	693	107	31	West Buechel	1,230	*	*
Scottsville	4,226	679	32	West Liberty	3,435	162	9
Sebree	1,603	85	11	West Point	797	150	38
Seneca Gardens	696	3	1	Westwood	4,746	*	*
Sharpsburg	323	25	16	Wheatcroft	160	15	19
Shelbyville	14,045	2,158	31	Wheelwright	780	21	5
Shepherdsville	11,222	3,254	58	White Plains	884	33	8
Shively	15,264	4,067	53	Whitesburg	2,139	342	32
Silver Grove	1,102	4,007	16	Whitesville	552	90	33
Simpsonville	2,484	355	29	Whitley City	1,170	224	38
Slaughters	2,404	10	9	Wickliffe	688	95	28
Smithfield	106	61	115	Wilder	3,035	967	64
Smithland	301	65	43	Wildwood	261	4	3
Smiths Grove	714	107	30	Williamsburg	5,245		30
Somerset	11,196	3,944	71	Williamstown		779 523	
Sonora	513	115	45	Willisburg	3,925 282		27 103
South Carrollton	184	45	49	Wilmore		145	
South Carrollon South Shore		45 *	*		3,686	264	14
	1,122			Winchester	18,368	2,915	32
Southgate	3,803 231	643 46	34	Winding Falls	657		
Sparta		40 *	40	Windy Hills	2,385	12	1
Spring Mill	342	*	*	Wingo	632	74 *	23
Spring Valley	400			Woodburg	117		
Springfield	2,519	359	29	Woodburn	355	36	20
Stamping Ground	643	36	11	Woodland Hills	696	7	2
Stanford	3,487	547	31	Woodlawn	229	4	4
Stanton	2,733	342	25 *	Woodlawn Park	942	81	17
Strathmoor Manor	337			Worthington	1,609	33	4
Sturgis	1,898	83	9	Worthington Hills	973		*
Sycamore	70			Worthville	185	11	12
Taylor Mill	6,604	890	27	Wurtland	995	104	21
Taylorsville	763	225	59				
Ten Broeck	128	*	*				
Thornhill	146	*	*				
Tompkinsville	2,402	136	11				
Trenton	384	17	9				
Union	5,379	628	23				
Uniontown	1,002	63	13				

<sup>\*</sup> Data Not Available