## Analysis of Motorcycle Caused and Motorcycle Victim Crashes CY2010-2014 Data by Dave Brown October 23, 2015

For additional motorcycle information from NHTSA and other sources, see: http://www.safehomealabama.gov/tag/motorcycles/

## Introduction

This report has the objective of presenting a problem identification that was done on motorcycle (MC) crashes with the goal of establishing and improving countermeasures for reducing these crash frequencies and severities in the future. The IMPACT displays are based on a comparison of two subsets, both restricted to multiple-vehicle crashes, and both of which involved one and only one motorcycle in the crash. In the first subset the motorcycle was listed as the cause of the crash; and in the second the other non-MC vehicle was listed as the cause.

The following display gives the frequency distribution for the overall 4,642 crashes by year for the total MC-involved subset of crashes (the combination of the two subsets defined above). The blue line is the average over the five years.



Clearly there was a significant reduction in CMV crashes in years 2013 and 2014 from the high in 2012. However, this was a regression to the mean as represented by the 2010 level. This will be discussed in more detail in light of the overall crash trend below under the Time Factors major heading, attribute C003, Year.

The reason for having MCs involved in both subsets being compared is to minimize other factors that could be influencing the outcomes. It was reasoned that such factors as driver demographics and other factors would be fairly close in both subsets since both involve one motorcycle. However, many of the results were quite surprising, indicating correlations that we unexpected.

## IMPACT Outputs for MC Caused vs. Non-MC Caused Crashes

*Interpretation of IMPACT displays.* The following sections presents a number of IMPACT runs that surface some of the major characteristics of crashes in which CMVHTs were involved as compared to all of the rest of the crash records. For information regarding the interpretation of IMPACT outputs, see:

#### http://www.caps.ua.edu/software/care/

and scroll down to the bottom of the page for the IMPACT tutorial. In the charts the *red bars represented MC-caused crash proportions* while the *blue bars represent the non-MC caused crash proportions*.

**Output pruning.** Most of the output displays in the following sections were "pruned" using an extremely valuable CARE tool that can dynamically change the filter on the subset being viewed to eliminate "noise" from IMPACT and Frequency output displays. In most cases the following were summarily eliminated as not contributing information to the outputs: Unknown, CU is Unknown, CU is Not a Vehicle, Other, Not Applicable. Important to recognize is that even if we did not have these categories, we would still be making inferences from subsets of the total reality of 100% complete and accurate reporting. In those cases where outputs were pruned the result forms an estimate of reality that is, in most cases, is more accurate in the relative distribution sense than if these categories were left in, to say nothing of their distraction from the important results. In situations where more than these were pruned, a note is made under the display.

*Code interpretations.* In some cases a code or an entire variable (attribute) will be preceded by either an E or a P. This indicates that the attribute value (or the entire attribute) is either exclusive to eCrash (E) or to the Paper form (P). If this does not appear then it should be concluded that the attribute or value is coded similarly enough in both modes that it can be considered essentially the same variable, and thus comparable. In some cases where there were very few P responses these were pruned from the output; in other cases where they were felt to be significant they can be combined with the E results to form an overall picture of reality. CU = Causal Unit - the unit and driver indicated by the officer to have the most cause for the crash.

*Summary of output results by general IMPACT category.* The following gives a brief summary of the IMPACT displays that follow:

### • Geographical Attributes

- C001 County (MC-caused over-represented) counties with less than five MC-caused crashes were excluded from consideration in this and the following analyses. The counties with the highest Max Gain are listed at the top, and these correlate well with those with the highest odds ratio. Statistical significance is indicated by the asterisk after the Odds Ratio. Cells with odds rations greater than 2 are given a red background; those with 0.5 or less are given a green background.
- C001 County (non-MC-caused over-represented) the bottom of the IMPACT output listing gives the areas where the MCs are more under-represented, which would also be the areas where the non-MCs (e.g., passenger cars) have their highest overrepresentation. The greatest non-MC over-representation is at the bottom of the table, with Mobile, Jefferson and Tuscaloosa being the worst counties for non-MCs causing MC involved crashes.
- C002 City (MC-caused over-represented) clearly the rural areas of the counties show a pattern of the highest over-representation in MC-caused crashes.
- C002 City (non-MC-caused over-represented) with but few exceptions the counties characterized by urban areas are over-represented in non-MC caused crashes. This is reasonable because of the greater concentration of passenger vehicle in the urban areas.
- C010 Rural or Urban it comes as no surprise after seeing the results above that the rural areas are over-represented in MC-caused crashes, while the urban areas are over-represented in those caused by non-MC vehicles. The reason for this is subject for further study – recognize again that both subsets contain one MC and one non-MC per crash.
- C010 Locale This further confirms that those crashes caused by MCs occur more often in Open Country and Residential area as opposed to those in Shopping or Business areas, which are more often caused by non-MCs.
- C110 Residence Distance Consistent with the above findings, two-vehicle crashes caused by MCs tend to occur more when the MCs are traveling Greater than 25 Miles, and those caused by non-MCs when traveling Less than 25 Miles.

#### • Time Factors

 C003 Year – The combined subset analysis was discussed above showing a total peak in 2012 that has now gone back down to the 2010 level. This analysis shows that the relative fault was more on the non-MC in 2010, and in 2013 and 2014 it was more with the MC. This trend needs to be watched; however, since none of the differences between MC and non-MC caused crashes is significant, this should not be considered as a major factor in decision-making.

- C004 Month it seems reasonable that the number of overall MC crashes would diminish during the winter months (in this case is it quite visible for November, December, January and February. What is not intuitive is the degree to which the number of crashes drop off clearly the total numbers of crashes (independent of cause) is well under half, and some as much as less than a third of the other months. Further analyses of these months compared to the others showed no major cause for this decline during the winter other than the fewer miles driven by motorcycle riders. The dramatic decline is probably leveraged by the fact that those who do venture out in the winter are the more proficient and experienced MC drivers who know how to evade crashes.
- C006 Day of the Week Saturday is the worst day for both MC and non-MC caused crashes, but most pronounced and significantly higher for the MC-caused crashes. This again is probably due to these drivers on average being less experienced casual recreational MC riders leveraged by the lack of experience and skill. The Saturday effect spills over to both Friday and Sunday; Monday is a break even, and non-MC caused crashes are over-represented on Tuesday, Wednesday and Thursday. While these days are not statistically significant, we expect that if they were considered collectively, the F-S-S weekends would be collectively over-represented for MC-caused crashes, and the T-W-Th collective would be significantly over-represented for non-MC caused crashes.
- C008 Time of Day the primary determining factor for time of day for both MC and non-MC caused crashes is the volume of MCs on the road at that time. Very few of the differences are significant. The two that are are quite telling: 5-6 PM is significantly over-represented for MC-caused, while 8-9 PM is significantly overrepresented for non-MC caused. Similar to the day of the week, if we were to collect several hours in which the one or the other is over-represented, we would be able to establish statistically significant patterns. These can best be obtained intuitively by considering the chart. This is further established by the next variable.
- C031 Lighting Conditions The only significant over-representation for MC-caused crashes is Daylight. At the other extreme there is a significant over-representation for non-MC caused crashes where it is dark but there is continuous lighting. For that matter, all of the lit areas tend to be over-represented with non-MC caused crashes indicating that a lack of visibility of motorcycles in these areas could be the cause. These lit areas rarely occur in rural areas, so that is another factor that could be in play, i.e., the density of non-MC vehicles. These results need to be combined with those above and cross-tabulations of the two variables might be able to allow for the dramatically changing dusk and dawn times with the seasons.

#### • Roadway Characteristics

 C011 – Highway Classification – while it was expected from the results above that the non-MC caused crashes would be significantly over-represented in the urban areas, the degree to which the MC-caused are over-represented on Interstates by an odds ratio of 2.549 was not expected. Effectively what this is saying is that any given two-vehicle MC crash on an Interstate roadway would have 2.549 times the chances of being the fault of the MC than the non-MC vehicle. This should be considered in enforcement policies on Interstates, and to a lessor extent on County roads.

- C026 Intersection Related because intersections are more associated with urban roadways, these significant results were expected.
- C028 Mileposted Roads the top of the table shows those roadways that were over-represented in MC-caused crashes, the largest over-representations being on Interstate roadways. The absence of an asterisk on a comparison that has a sample size of less than 20 in either cell does not mean that the difference is not significant it just means that because of the low sample size no test was performed. By excluding all mileposted roadways with less than 11 MC-caused crashes, all of the remaining roadways were able to fit on one page. Thus, the bottom of this table contains those crashes in which the non-MC vehicle was more apt to be the cause, with those that were about equal in causation being in the middle (Odds Ratio = 1.000).
- C407 CU Roadway Curvature and Grade The first four categories show a pattern of grades and curves causing real problems in MCs causing two-vehicle crashes. Right curves are significantly more of a problem that left turns the differences between MC-caused and non-MC caused crashes on left curves is not statistically significant. The major value for non-MC caused over-representation is Straight and Level, i.e., the curve/grade attributed was not involved in the cause, which would be expected in most urban crashes.

#### • Driver Factors

- C015 Primary Contributing Circumstance by excluding those values with number of MC-caused crashes less than 10, the major PCCs can be seen in the one table. The cells at the top show some very strong and significant over-representations for MC-caused crashes virtually all of the items in the top half of the table are quite high and significant over-representations. Working from the bottom of the table up illustrates the converse those crash PCCs that are indicative of non-MC causes. Note that all of the Unseen Object and Failure to Yield categories indicate a visual perception problem on the part of the non-MC driver. While not the fault of the MC, defensive driving on their part should certainly take this into account. This item is probably the most important IMPACT output to be considered in countermeasure development and improvement.
- C017 First Harmful Event while listed as being MC at fault, several of the items at the top of the table might be seen to be the MC avoiding a vehicle that has inadvertently strayed into their path. We are not attempting to rationalize away the fault of the MC riders, only to demonstrate that many crashes are not solely the fault of just one of the vehicles involved. Fault is usually assigned to the vehicle/driver who made the largest error in bringing about the crash. For the non-MC caused crashes, the simple first harmful even of Collision with Vehicle in Traffic is stated, and E Collision with Vehicle in (or from) Other Roadway is also over-represented for the non-MC caused crashes.

- C023 Manner of Crash this output was not pruned since it was felt that the low values and others that are usually pruned might be of use to the reader. Rear-end and sideswipe/angles in the same direction characterize MC-caused crashes, while the non-MC causes are heavy on the side impacts (which are more typical of the urban intersection crashes).
- C105 Left Scene MC-caused crashes are less likely to be hit-and-run than are those caused by non-MC vehicles. The reason for this should be obvious in that it is impossible in a relatively larger number of cases for the MC to leave the scene.
- C107 CU Driver Raw Age At the very early ages (14-15) the MC driver is most apt to be at fault. At 16-19 the non-MC drivers is significant over-resented. Above 10 things get choppy and no real pattern emerges until the 45-63 age group in which the MC riders collectively are significantly over-represented. This is a very interesting results and it should impact the age group toward which MC countermeasures are formulated.
- C600 CU Driver Age Range (five year increments) this collects the same results as given above but in five-year increments so that the collective significant results can be detected easier. The chart give a very good visualization of where the problems are by age group.
- C109 CU Driver Gender while it is expected that males will outnumber females in their MC ridership, the degree here and the difference in the causation is quite interesting. Males outnumber females in causing MC-caused crashes by over 17 to 1. We have no demographics to compare this with to determine if this is above or below expectation. (For example, if males drove MCs 50 times as many miles as females, then this female causation would be much higher than expected.) Comparing not with MC ridership, but with the numbers of male/female drivers involved in MC involved two-vehicle crashes, this has the female driver under-represented by a factor of about 10. The 55.26 and 44.62 percentages are roughly the male-female overall non-MC male-female driver breakdown.
- C122 CU Driver Officer Opinion Alcohol Alcohol was a factor about 70% more than expected for MC-caused causal drivers. While the number of crashes is not reported to be high, the relative values are more important here since it is well known and accepted that alcohol is not under-reported. Many officers will not mark this item positive unless they know they can prove it in court even though that was not the objective of this attribute.
- C123 CU Driver Officer Opinion Drugs The officer opinion here has an even greater problem than with alcohol. In this case the reported results show no significant difference between the MC-caused and non-MC caused subsets.
- C129 CU Vehicle Maneuver it is fairly easy to visualize the top items being largely caused by motorcycles while the bottom items are more often caused by the non-MC vehicle.
- C202 CU Contributing Circumstance (MC Caused) this is more of an elaboration of C015 above, which was produced since C015 is such an important variable to decision-making.

- C202 CU Contributing Circumstance (non-MC Caused) see C202 immediately above.
- C224 CU Estimated Speed at Impact the bar chart is quite explicit crashes caused by non-MCs are typically of much lower speeds than those caused by non-MCs.
- C226 CU Vehicle Damage this is NOT a comparison between the damage to the MC vs the damage to the other vehicle all crashes in both subsets included one MC and one non-MC. Clearly the worst severity in terms of the vehicle were those caused by MCs. This tracks to the severity variables discussed next.

#### • Severity Factors

- C026 Crash Severity this is a very mixed and non-intuitive result. When the MC is at fault fatal crashes and PDOs are significantly higher. When the non-MC is at fault all of the other severity classifications are significantly higher except Non-Incapacitating Injury. So the ones that are higher for the non-MC caused crashes are Incapacitating Injury, and Possible Injury. This is certainly worthy of additional study to try to resolve this apparent disparity. Recall other variables that would impact this, including speed at impact, rural/urban and contributing circumstances. The rural/urban also heavily affects EMS arrival delay, which is almost perfectly correlated to fatality probability, considered next.
- C037 EMS Arrival Delay as indicated above, the rural nature of MC-caused clearly causes them to have longer EMS arrival delays.
- C059 Number Injured (Includes Fatalities) the multiple injury categories are not significant, mostly due to their infrequency of occurrence. The contrast between zero and one, however, is interesting. Crashes caused by MCs are over-represented in noinjuries; those caused by non-MCs are over-represented in one injury.

# **Geographical Attributes**

|           |                     |            |                  |                     |                              |              |                    | ated Crash [        | Data - Motor | cycle Cause I   | Multi Vehicl       | e AN                 | _ □      | X   |
|-----------|---------------------|------------|------------------|---------------------|------------------------------|--------------|--------------------|---------------------|--------------|-----------------|--------------------|----------------------|----------|-----|
|           | <u>D</u> ashboard   |            | <u>A</u> nalysis |                     | <u>L</u> ocations            |              |                    |                     |              |                 |                    |                      |          | - 8 |
| <b>6</b>  | 2010-2              | 2014 Alaba | ma Integra       | ated Crash Data     | ~                            | Moto         | rcycle Cause Mul   | ti Vehicle          | ~            | S 1/ 1          | /2010 v 12/31/     | 2014 🗸               | Numt 🕨   | •   |
| Order: N  | Max Gain            | ∨ De       | scending         | ¥ [                 | <ul> <li>Suppress</li> </ul> | Zero-Valu    | ed Rows            |                     |              | Significance: 0 | ver Representation | n <mark>⊻</mark> Thi | reshold: | 2.0 |
| C001: C   | ounty               |            |                  | Subset<br>Frequency | Sut<br>Perc                  |              | Other<br>Frequency | Other<br>Percent    | Odds Ratio   | Max Gain 🔻      | ▲ C001: Cou        | inty                 |          |     |
| B         | Baldwin             |            |                  |                     | 98                           | 5.33         | 107                | 3.97                | 1.342        | 24.973          |                    |                      |          |     |
| S         | 8t Clair            |            |                  |                     | 46                           | 2.50         | 33                 |                     |              | 23.478          |                    |                      |          |     |
|           | Cullman             |            |                  |                     | 47                           | 2.55         | 46                 | -                   | 1.497        | 15.605          |                    |                      |          |     |
|           | ieneva              |            |                  |                     | 25                           | 1.36         | 15                 | -                   | 2.442        | 14.763          |                    |                      |          |     |
|           | Imore               |            |                  |                     | 33                           | 1.79         | 29                 | -                   | 1.667        | 13.208          |                    |                      |          |     |
|           | lebume              |            |                  |                     | 16                           | 0.87         | 5                  | -                   | 4.689        | 12.588          |                    |                      |          |     |
|           | Colbert<br>Shelby   |            | [                |                     | 32<br>69                     | 1.74<br>3.75 | 30                 | -                   | 1.563        | 11.525          |                    |                      |          |     |
|           | Russell             |            |                  |                     | 60                           | 3.26         | 74                 |                     |              | 9.496           |                    |                      |          |     |
|           | ackson              |            |                  |                     | 21                           | 1.14         | 21                 | 0.78                | 1.465        | 6.668           |                    |                      |          |     |
|           | therokee            |            |                  |                     | 10                           | 0.54         | 6                  | -                   | -            | 5.905           |                    |                      |          |     |
|           | lickens             |            |                  |                     | 7                            | 0.38         | 2                  | -                   | 5.128        | 5.635           |                    |                      |          |     |
| C         | hilton              |            |                  |                     | 19                           | 1.03         | 20                 | 0.74                | 1.392        | 5.350           |                    |                      |          |     |
| N         | larengo             |            |                  |                     | 6                            | 0.33         | 2                  | 0.07                | 4.396        | 4.635           |                    |                      |          |     |
| V         | Vinston             |            |                  |                     | 7                            | 0.38         | 4                  | 0.15                | 2.564        | 4.270           |                    |                      |          |     |
| С         | ìrenshaw            |            |                  |                     | 9                            | 0.49         | 7                  | 0.26                | 1.884        | 4.223           |                    |                      |          |     |
| F         | Randolph            |            |                  |                     | 8                            | 0.43         | 7                  | 0.26                | 1.675        | 3.223           |                    |                      |          |     |
| Т         | alladega            |            |                  |                     | 27                           | 1.47         | 35                 | -                   |              | 3.113           |                    |                      |          |     |
|           | lenry               |            |                  |                     | 6                            | 0.33         | 5                  | -                   |              | 2.588           |                    |                      |          |     |
|           | loosa               |            |                  |                     | 5                            | 0.27         | 4                  | -                   | -            | 2.270           |                    |                      |          |     |
|           | Autauga             |            |                  |                     | 21                           | 1.14         | 28                 | -                   | -            | 1.890           |                    |                      |          |     |
|           | <sup>2</sup> ike    |            |                  |                     | 11                           | 0.60         | 14                 | -                   | -            | 1.445           |                    |                      |          |     |
|           | )ale                |            |                  |                     | 18<br>88                     | 4.78         | 25                 | -                   | -            | 0.938           |                    |                      |          |     |
|           | Nontgomery<br>Nacon |            |                  |                     | 6                            | 0.33         | 8                  |                     | -            | 0.540           |                    |                      |          |     |
|           | -                   |            |                  |                     | •                            | 0.55         |                    | 0.50                | 1.000        | 0.540           | Sort by S          | um of Max Gai        | in       |     |
|           | St 🖉                |            |                  |                     |                              |              |                    |                     |              |                 | Display F          | ilter Name           |          |     |
|           |                     |            |                  |                     |                              |              | 2010-2014 Alaba    | ama Integrated Cras | sh Data      |                 |                    |                      |          |     |
|           |                     |            |                  |                     |                              |              | C                  | 001: County         |              |                 |                    |                      |          |     |
|           | 20                  |            |                  |                     |                              |              |                    |                     |              |                 |                    |                      |          | а.  |
|           |                     |            |                  |                     |                              |              |                    |                     |              |                 |                    |                      |          |     |
|           | 15                  |            |                  |                     |                              |              |                    |                     |              |                 |                    |                      |          |     |
| ancy      |                     |            |                  |                     |                              |              |                    |                     |              |                 |                    |                      |          |     |
| Frequency | 10                  |            |                  |                     |                              |              |                    |                     |              |                 |                    |                      |          | E   |
| Œ         |                     |            |                  |                     |                              |              |                    |                     |              |                 |                    |                      |          | E   |
|           | 5                   |            |                  | fire.               |                              |              |                    |                     |              | -               | dan                |                      |          | H   |
|           | 0                   | l b b      | Siller.          | bl b                | and the                      | -            | - Dear             |                     | Dogo 1       |                 |                    | aa 11                |          | E   |
|           | 0                   |            |                  | Jacks               | on                           |              | Coosa              |                     | Escambia     |                 | Morgan             |                      |          |     |
|           |                     |            |                  |                     |                              |              |                    | C001: County        |              |                 | _                  |                      |          |     |

# C001 County (MC caused over-represented; excluding < 5)

| File Dashboard   | 0-2014 Alabama Integ | is <u>I</u> mpact <u>Lo</u> or | _                  | <u>W</u> indow <u>H</u> elp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ehicle                          | ~             | 9 1/ 1/20          | _ 5                     |
|------------------|----------------------|--------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------|--------------------|-------------------------|
| rder: Max Gain   | ✓ Descending         |                                | Suppress Zero-Valu |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                 | <b>!</b>      | Significance: Over |                         |
| 001: County      |                      | Subset<br>Frequency            | Subset<br>Percent  | Other<br>Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Other<br>Percent                | Odds Ratio    | Max Gain 👻 ^       | C001: County            |
| Montgomery       |                      | 88                             | 4.78               | 128                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4.75                            | 1.007         | 0.641              |                         |
| Macon            |                      | 6                              | 0.33               | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.30                            | 1.099         | 0.540              |                         |
| Lawrence         |                      | 7                              | 0.38               | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.37                            | 1.026         | 0.175              |                         |
| Marshall         |                      | 38                             | 2.07               | 56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2.08                            | 0.994         | -0.220             |                         |
| Tallapoosa       |                      | 10                             | 0.54               | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.56                            | 0.977         | -0.237             |                         |
| Barbour          |                      | 7                              | 0.38               | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.41                            | 0.932         | -0.507             |                         |
| Escambia         |                      | 5                              | 0.27               | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.37                            | 0.733         | -1.825             |                         |
| Walker           |                      | 20                             | 1.09               | 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.19                            | 0.916         | -1.840             |                         |
| Covington        |                      | 7                              | 0.38               | 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.48                            | 0.789         | -1.872             |                         |
| Lee              |                      | 58                             | 3.15               | 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3.34                            | 0.944         | -3.424             |                         |
| Chambers         |                      | 11                             | 0.60               | 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.82                            | 0.733         | -4.015             |                         |
| Limestone        |                      | 20                             | 1.09               | 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.34                            | 0.814         | -4.570             |                         |
| Blount           |                      | 13                             | 0.71               | 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.00                            | 0.705         | -5.427             |                         |
| Dallas           |                      | 7                              | 0.38               | 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.70                            | 0.540         | -5.967             |                         |
| Lauderdale       |                      | 26                             | 1.41               | 47                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.74                            | 0.811         | -6.077             |                         |
| Houston          |                      | 58                             | 3.15               | 95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3.52                            | 0.895         | -6.837             |                         |
| Morgan           |                      | 51                             | 2.77               | 85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3.15                            | 0.879         | -7.012             |                         |
| Etowah<br>Coffee |                      | 49<br>19                       | 2.66               | 83                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3.08                            | 0.865         | -7.647             |                         |
| Dekalb           |                      | 19                             | 0.76               | 37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.36                            | 0.663         | -9.665             |                         |
| Madison          |                      | 14                             | 7.93               | 233                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 8.64                            | 0.004         | -11.232            |                         |
| Calhoun          |                      | 54                             | 2.93               | 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3.78                            | 0.776         | -15.614            |                         |
| Tuscaloosa       |                      | 73                             | 3.97               | 132                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5.12                            | 0.775         | -21.184            |                         |
| Jefferson        |                      | 267                            | 14.51              | 424                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 15.73                           | 0.923         | -22.377            |                         |
| Mobile           |                      | 185                            | 10.05              | 328                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 12.17                           | 0.826         | -38.858            | Sort by Sum of Max Gain |
| 0 @ Ø            |                      |                                |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                 |               | •                  |                         |
|                  |                      |                                |                    | 2010-2014 Alabama<br>C001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | a Integrated Crash<br>1: County | Data          |                    | Display Filter Name     |
| 20               |                      |                                |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                 |               |                    |                         |
| 15               |                      |                                |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                 |               |                    |                         |
| 15               |                      |                                |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                 |               |                    |                         |
| ວິພາ<br>10       |                      |                                |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                 |               |                    |                         |
| Leanency         |                      |                                |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                 |               |                    |                         |
| 5-1              | -                    |                                |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -                               |               |                    |                         |
| Ŭ.               | Blue-                |                                | -                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                 |               | Land               |                         |
| 0                |                      |                                |                    | The Party of |                                 | a second lies |                    |                         |

## C001 County (non-MC caused over-represented; excluding < 5)

|     | 2010-                         | 2014 Alabama Integra | ated Crash Data     | ~           | Motor        | cycle Cause Multi Vehic | sle              | ¥ 9        | 1/ 1/2010         | ) v 12/31/2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | V 🚺 Number 🕨 🕜   |
|-----|-------------------------------|----------------------|---------------------|-------------|--------------|-------------------------|------------------|------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
|     | Max Gain                      | ✓ Descending         | <u> </u>            | Suppress Ze | ero-Value    | d Rows                  |                  |            | Significance: Ove | er Representation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ✓ Threshold: 2.0 |
| 02: | City                          |                      | Subset<br>Frequency | Sub<br>Perc | ent          | Other<br>Frequency      | Other<br>Percent | Odds Ratio | Max Gain 🔻 🗖      | C002: City                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |
|     | Rural Baldwin                 |                      |                     | 33          | 2.05         | 23                      | 0.97             | 2.118*     | 17.419            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |
|     | Rural St. Clair               |                      |                     | 17          | 1.05         | 4                       | 0.17             | 6.274      | 14.290            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |
|     | Rural Cullman                 |                      |                     | 22          | 1.36         | 14                      | 0.59             | 2.320      | 12.516            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |
|     | Rural Cleburne                |                      |                     | 13          | 0.81         | 1                       | 0.04             | 19.190     | 12.323            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |
|     | Rural Jefferson               |                      |                     | 49          | 3.04         | 55                      | 2.31             | 1.315      | 11.740            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |
|     | Rural Shelby                  |                      |                     | 23          | 1.43         | 17                      | 0.71             | 1.997      | 11.483            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |
|     | Hoover                        |                      |                     | 26          | 1.61         | 23                      | 0.97             | 1.669      | 10.419            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |
|     | Wetumpka                      |                      |                     | 14          | 0.87         | 7                       | 0.29             | 2.952      | 9.258             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |
|     | Gulf Shores                   |                      |                     | 17          | 1.05         | 12                      | 0.50             | 2.091      | 8.871             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |
|     | Rural Calhoun                 |                      |                     | 25          | 1.55         | 24                      | 1.01             | 1.538      | 8.741             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |
|     | Rural Russell                 |                      |                     | 22          | 1.36         | 20                      | 0.84             | 1.624      | 8.451             | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  |
|     | Rural Jackson                 |                      |                     | 10          | 0.62         | 3                       | 0.13             | 4.920      | 7.968             | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  |
|     | Rural Walker                  |                      |                     | 12          | 0.74         | 6                       | 0.25             | 2.952      | 7.935             | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  |
|     | Daphne                        |                      |                     | 20          | 1.24         | 18                      | 0.76             | 1.640      | 7.806             | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  |
|     | Geneva                        |                      |                     | 9           | 0.56         | 2                       | 0.08             | 6.643      | 7.645             | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  |
|     | Rural Geneva                  |                      |                     | 10          | 0.62         | 4                       | 0.17             | 3.690      | 7.290             | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  |
|     | Rural Talladega               |                      |                     | 13          | 0.81         | 10                      | 0.42             | 1.919      | 6.226             | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  |
|     | Sheffield                     |                      |                     | 8           | 0.50         | 3                       | 0.13             | 3.936      | 5.968             | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  |
|     | Rural Marshall                |                      |                     | 10          | 0.62         | 6                       | 0.25             | 2.460      | 5.935             | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  |
|     | Rural Colbert                 |                      |                     | 8           | 0.50         | 6                       | 0.25             | 1.968      | 3.935             | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  |
|     | Rural Lee                     |                      |                     | 14          | 0.87         | 15<br>21                | 0.63             | 1.378      | 3.838             | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  |
|     | Pelham<br>Dural Autours       |                      |                     | 18<br>7     | 1.12<br>0.43 | 5                       | 0.88             | 1.265      | 3.774             | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  |
|     | Rural Autauga<br>Rural Blount |                      |                     | 10          | 0.43         | 10                      | 0.21             | 1.476      | 3.813             | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  |
|     | Rural Houston                 |                      |                     | 10          | 0.62         | 10                      | 0.42             | 1.476      | 3.226             | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  |
|     | Moody                         |                      |                     | 7           | 0.62         | 6                       | 0.42             | 1.476      | 2.935             | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  |
|     | Rural Lawrence                | [                    |                     | 6           | 0.43         | 5                       | 0.25             | 1.722      | 2.613             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |
|     | Bessemer                      | [                    |                     | 27          | 1.67         | 36                      | 1.51             | 1.107      | 2.612             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |
|     | Rural Elmore                  | [                    |                     | 10          | 0.62         | 11                      | 0.46             | 1.342      | 2.548             | Sort by Sum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | of Max Gain      |
| =   |                               |                      |                     |             | 0.02         |                         | 0.10             |            |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |
| 1   | 1 🗇 🖉                         |                      |                     |             |              |                         |                  |            | [                 | Display Filter Na                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | me               |
|     |                               |                      |                     |             |              | 2010-2014 Alabama       |                  | Data       |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |
|     | 15                            |                      |                     |             |              | C00                     | 2: City          |            |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |
|     | 15                            |                      |                     |             |              |                         |                  |            |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |
|     | 잘 10                          |                      |                     |             |              |                         |                  |            |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |
|     | due                           |                      |                     |             |              |                         |                  |            |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |
|     | Ē 5                           |                      |                     |             |              |                         |                  |            |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |
|     |                               | ta bhaite            |                     | -           |              |                         | In a second      |            |                   | and a state of the |                  |

## C002 City (MC caused over-represented; total < 10 excluded)

|           | 2010-2                  | 2014 Alabama Integrat | ed Crash Data       | ✓ Motor             | cycle Cause Multi Vehicl | e                | v 9        | 1/ 1/2010          | ∨ 12/31/2014 ∨ 🖡 Number 🕨 🦷       |
|-----------|-------------------------|-----------------------|---------------------|---------------------|--------------------------|------------------|------------|--------------------|-----------------------------------|
|           | lax Gain                | ✓ Descending          | ✓ ✓ S               | Suppress Zero-Value | d Rows                   |                  |            | Significance: Over | r Representation V Threshold: 2.0 |
| 2: Ci     | ty <sub>ue</sub>        |                       | Subset<br>Frequency | Subset<br>Percent   | Other<br>Frequency       | Other<br>Percent | Odds Ratio | Max Gain 👻 ^       | C002: City                        |
| Fa        | airfield                |                       | 4                   | 0.25                | 10                       | 0.42             | 0.590      | -2.774             |                                   |
| Le        | eeds                    |                       | 6                   | 0.37                | 13                       | 0.55             | 0.681      | -2.807             |                                   |
| R         | lural Etowah            |                       | 6                   | 0.37                | 13                       | 0.55             | 0.681      | -2.807             |                                   |
| A         | lbertville              |                       | 14                  | 0.87                | 25                       | 1.05             | 0.827      | -2.936             |                                   |
| S         | miths Station           |                       | 2                   | 0.12                | 8                        | 0.34             | 0.369      | -3.420             |                                   |
| Т         | alladega                |                       | 3                   | 0.19                | 10                       | 0.42             | 0.443      | -3.774             |                                   |
| V         | alley                   |                       | 3                   | 0.19                | 10                       | 0.42             | 0.443      | -3.774             |                                   |
| В         | oaz                     |                       | 2                   | 0.12                | 9                        | 0.38             | 0.328      | -4.097             |                                   |
| Н         | lueytown                |                       | 2                   | 0.12                | 9                        | 0.38             | 0.328      | -4.097             |                                   |
|           | thens                   |                       | 4                   | 0.25                | 12                       | 0.50             | 0.492      | -4.129             |                                   |
|           | iardendale              |                       | 6                   | 0.37                | 15                       | 0.63             | 0.590      | -4.162             |                                   |
|           | russville               |                       | 6                   | 0.37                | 15                       | 0.63             | 0.590      | -4.162             |                                   |
|           | lartselle               |                       | 3                   | 0.19                | 11                       | 0.46             | 0.403      | -4.452             |                                   |
|           | lainsville              |                       | 3                   | 0.19                | 11                       | 0.46             | 0.403      | -4.452             |                                   |
|           | elma                    |                       | 4                   | 0.25                | 13                       | 0.55             | 0.454      | -4.807             |                                   |
|           | lural Mobile            |                       | 40                  | 2.48                | 67                       | 2.81             | 0.881      | -5.389             |                                   |
|           | lorthport               |                       | 11                  | 0.68                | 25                       | 1.05             | 0.649      | -5.936             |                                   |
|           | iadsden                 |                       | 27                  | 1.67                | 49                       | 2.06             | 0.813      | -6.195             |                                   |
|           | lorence                 |                       | 13                  | 0.81                | 29                       | 1.22             | 0.662      | -6.646             |                                   |
|           | oley                    |                       | 6                   | 0.37                | 19                       | 0.80             | 0.466      | -6.871             |                                   |
|           | nterprise               |                       | 16                  | 0.99                | 35                       | 1.47             | 0.675      | -7.711             |                                   |
|           | asper                   |                       | 6                   | 0.37                | 21                       | 0.88             | 0.422      | -8.226             |                                   |
|           | bdford                  |                       | 16                  | 0.99                | 38                       | 1.60             | 0.622      | -9.743             |                                   |
|           | lothan                  |                       | 46                  | 2.85                | 83                       | 3.49             | 0.818      |                    |                                   |
|           | nniston                 |                       | 10                  | 0.62                | 32                       | 1.34             | 0.461      | -11.678            |                                   |
|           | luntsville<br>uscaloosa |                       | 99                  | 6.14<br>2.73        | 89                       | 3.74             | 0.875      | -14.134<br>-16.293 |                                   |
|           | imingham                |                       | 114                 | 7.07                | 197                      | 8.27             | 0.730      | -16.293            |                                   |
|           | Iobile                  |                       | 128                 | 7.94                | 239                      | 10.04            | 0.834      | -33.910            | Cast hu Sum of Mary Calin         |
| 1         |                         |                       | 120                 | /.34                | 233                      | 10.04            | 0.731      |                    | Sort by Sum of Max Gain           |
|           | er 🖉                    |                       |                     |                     |                          |                  |            |                    | Display Filter Name               |
|           |                         |                       |                     |                     | 2010-2014 Alabama Ir     | -                | Data       |                    |                                   |
|           |                         |                       |                     |                     | C002                     | City             |            |                    |                                   |
|           | 15                      |                       |                     |                     |                          |                  |            |                    |                                   |
| 5         | 10                      |                       |                     |                     |                          |                  |            |                    |                                   |
| Frequency |                         |                       |                     |                     |                          |                  |            |                    | 1                                 |
| Fre       | 5                       |                       |                     |                     |                          |                  |            |                    |                                   |
|           | -                       | ta bhallost           |                     | -                   |                          | line and         |            |                    |                                   |

## C002 City (non-MC caused over-represented; total < 10 excluded)

#### **C010 Rural or Urban**



#### C033 Locale



#### C110 CU Driver Residence Distance



## **Time Factors**

#### C003 Year



## C004 Month

|      | ARE 10.1.0.7 -<br><u>File D</u> ashboard |                      |                       |                     |                           | d Crash Data                 | - Motorcycle | e Cause Multi        | Vehicle vs. Mo — 🗖 🗙                                     |
|------|------------------------------------------|----------------------|-----------------------|---------------------|---------------------------|------------------------------|--------------|----------------------|----------------------------------------------------------|
| ¢    |                                          | 14 Alabama Integrate |                       | _                   | cycle Cause Multi Vehi    | cle                          | v 💡          | 1/ 1/2010            | ✓ 12/31/2014 ✓ I Number ► ①                              |
| Orde | er: Natural Order                        | ✓ Ascending          | <ul> <li>✓</li> </ul> | Suppress Zero-Value | d Rows                    |                              | Ę            | Significance: Over F | Representation V Threshold: 2.0                          |
| C004 | 4: Month                                 |                      | Subset<br>Frequency   | Subset<br>Percent   | Other<br>Frequency        | Other Percent                | Odds Ratio   | Max Gain             | C001: County A<br>C002: City                             |
| •    | January                                  |                      |                       | 75 3.99             | 89                        | 3.22                         | 1.238        | 14.421               | C003: Year                                               |
|      | February                                 |                      | 1                     | 04 5.53             | 3 131                     | 4.74                         | 1.166        | 14.833               | C004: Month                                              |
|      | March                                    |                      | 1                     | 70 9.04             | 4 227                     | 8.22                         | 1.100        | 15.489               | C005: Day of Month<br>C006: Day of the Week              |
|      | April                                    |                      | 2                     | 20 11.70            | 284                       | 10.28                        | 1.138        | 26.691               | C007: Week of the Year                                   |
|      | May                                      |                      | 1                     | 85 9.84             | 4 342                     | 12.38                        | 0.795*       | -47.788              | C008: Time of Day                                        |
|      | June                                     |                      | 1                     | 82 9.68             | 3 309                     | 11.19                        | 0.865        | -28.326              | C009: Data Source                                        |
|      | July                                     |                      | 1                     | 83 9.73             | 3 245                     | 8.87                         | 1.097        | 16.237               | C010: Rural or Urban                                     |
|      | August                                   |                      | 1                     | 67 8.88             | 3 278                     | 10.07                        | 0.883        | -22.225              | C011: Highway Classifications<br>C012: Controlled Access |
|      | September                                |                      | 1                     | 99 10.59            | 309                       | 11.19                        | 0.946        | -11.326              | C013: E Highway Side                                     |
|      | October                                  |                      | 2                     | 10 11.17            | 7 289                     | 10.46                        | 1.068        | 13.287               | C014: Distance from Node 1                               |
|      | November                                 |                      | 1                     | 01 5.37             | 7 154                     | 5.58                         | 0.964        | -3.823               | C015: Primary Contributing Circumstance                  |
|      | December                                 |                      |                       | 84 4.47             | 7 105                     | 3.80                         | 1.175        | 12.530               | C016: Primary Contributing Unit Numbe                    |
|      |                                          |                      |                       |                     | 2010-2014 Alabama<br>C004 | Integrated Crash Da<br>Month | ita          |                      |                                                          |
|      | 15<br>10<br>5                            | n                    |                       |                     |                           | ľ                            |              |                      |                                                          |
|      | 0-1-                                     | Fel                  | bruary                | l<br>April          | l<br>June<br>C            | e<br>:004: Month             | August       | October              | December                                                 |

#### C006 Day of the Week



## C008 Time of Day

| ler: | Natural Order 🗸 Ascending                    | V Supp              | oress Zero-Valued F | lows               |                     | 9          | ignificance: Over l | Representation v Threshold: 2.0                                    |
|------|----------------------------------------------|---------------------|---------------------|--------------------|---------------------|------------|---------------------|--------------------------------------------------------------------|
| )8:  | Time of Day                                  | Subset<br>Frequency | Subset<br>Percent   | Other<br>Frequency | Other Percent       | Odds Ratio | Max Gain            | C001: County<br>C002: City                                         |
|      | 12:00 Midnight to 12:59 AM                   | 23                  | 1.22                | 26                 | 0.94                | 1.300      | 5.303               | C003: Year                                                         |
|      | 1:00 AM to 1:59 AM                           | 19                  | 1.01                | 27                 | 0.98                | 1.034      | 0.622               | C004: Month                                                        |
|      | 2:00 AM to 2:59 AM                           | 14                  | 0.74                | 18                 | 0.65                | 1.143      | 1.748               | C005: Day of Month<br>C006: Day of the Week                        |
|      | 3:00 AM to 3:59 AM                           | 10                  | 0.53                | 5                  | 0.18                | 2.938      | 6.597               | C007: Week of the Year                                             |
| -    | 4:00 AM to 4:59 AM                           | 3                   | 0.16                | 19                 | 0.69                | 0.232      | -9.933              | C008: Time of Day                                                  |
| - h  | 5:00 AM to 5:59 AM                           | 11                  | 0.59                | 43                 | 1.56                | 0.376      | -18.269             | C009: Data Source<br>C010: Rural or Urban                          |
| - k  | 6:00 AM to 6:59 AM                           | 27                  | 1.44                | 54                 | 1.96                | 0.735      | -9.756              | C010: Rural of Orban<br>C011: Highway Classifications              |
| - h  | 7:00 AM to 7:59 AM                           | 57                  | 3.03                | 87                 | 3.15                | 0.963      | -2.218              | C012: Controlled Access                                            |
|      | 8:00 AM to 8:59 AM                           | 42                  | 2.23                | 71                 | 2.57                | 0.869      | -6.327              | C013: E Highway Side                                               |
|      | 9:00 AM to 9:59 AM                           | 47                  | 2.50                | 85                 | 3.08                | 0.812      | -10.857             | C014: Distance from Node 1<br>C015: Primary Contributing Circumsta |
|      | 10:00 AM to 10:59 AM<br>11:00 AM to 11:59 AM | 65<br>101           | 3.46                | 111                | 4.02                | 0.860      | -10.554<br>-6.545   | C016: Primary Contributing Unit Numb                               |
|      | 12:00 Noon to 12:59 PM                       | 101                 | 7.66                | 158                | 6.77                | 1.131      |                     | C017: First Harmful Event                                          |
| - k  | 12:00 Noon to 12:59 PM<br>1:00 PM to 1:59 PM | 144                 | 8.40                | 187                | 7.20                | 1.131      | 16.715              | C018: Location First Harmful Event Re                              |
|      | 2:00 PM to 2:59 PM                           | 150                 | 8.03                | 212                | 7.68                | 1.046      | 6.699               | C019: E Most Harmful Event<br>C020: E Distracted Driving           |
|      | 3:00 PM to 3:59 PM                           | 201                 | 10.69               | 212                | 9.67                | 1.1046     | 19.262              | C021: Distance to Fixed Object                                     |
| -    | 4:00 PM to 4:59 PM                           | 163                 | 8.67                | 266                | 9.63                | 0.900      | -18.057             | C022: E Type of Roadway Junction/Fe                                |
| - h  | 5:00 PM to 5:59 PM                           | 224                 | 11.91               | 253                | 9.16                | 1.301*     | 51.791              | C023: E Manner of Crash<br>C024: School Bus Related                |
| - h  | 6:00 PM to 6:59 PM                           | 140                 | 7.45                | 176                | 6.37                | 1.169      | 20.203              | C024: School Bus Related<br>C025: Crash Severity                   |
| - ŀ  | 7:00 PM to 7:59 PM                           | 82                  | 4.36                | 147                | 5.32                | 0.820      | -18.058             | C026: Intersection Related                                         |
| ľ    | 8:00 PM to 8:59 PM                           | 56                  | 2.98                | 158                | 5.72                | 0.521*     | -51.545             | C027: At Intersection                                              |
| Ì    | 9:00 PM to 9:59 PM                           | 61                  | 3.24                | 96                 | 3.48                | 0.934      | -4.344              | C028: Mileposted Route<br>C031: Lighting Conditions                |
| Ì    | 10:00 PM to 10:59 PM                         | 42                  | 2.23                | 60                 | 2.17                | 1.028      | 1.160               | C032: Weather                                                      |
|      | 11:00 PM to 11:59 PM                         | 39                  | 2.07                | 37                 | 1.34                | 1.549      | 13.815              | Sort by Sum of Max Gain                                            |
| 0    | l 🌚 🔎                                        |                     | Display Filter Name |                    |                     |            |                     |                                                                    |
|      |                                              |                     | 2                   | 010-2014 Alabama   | Integrated Crash Da | a          |                     |                                                                    |
|      |                                              |                     |                     | C008: T            | ime of Day          |            |                     |                                                                    |
|      | 15                                           |                     |                     |                    |                     |            |                     |                                                                    |
|      |                                              |                     |                     |                    |                     |            | -                   |                                                                    |
|      | . 10                                         |                     |                     |                    |                     |            |                     |                                                                    |
|      | Leduency                                     |                     |                     |                    | _                   |            |                     |                                                                    |
|      | Lea                                          |                     |                     |                    |                     |            |                     |                                                                    |
|      | 5                                            |                     |                     |                    |                     |            |                     |                                                                    |
|      |                                              |                     |                     |                    |                     |            |                     |                                                                    |
|      |                                              |                     |                     |                    |                     |            |                     |                                                                    |
|      | 0                                            |                     |                     |                    |                     |            |                     |                                                                    |

## **C031 Lighting Conditions**

| -     | ARE 10.1.0.7 - [IMPACT Re<br>ile <u>D</u> ashboard <u>E</u> ilters <u>A</u> nalysis | sults - 2010-20      |                   | na Integrated<br>indow <u>H</u> elp | d Crash Data                      | - Motorcycle                               | Cause Multi                     | Vehicle vs. Mo – 🗖 💌                                  |
|-------|-------------------------------------------------------------------------------------|----------------------|-------------------|-------------------------------------|-----------------------------------|--------------------------------------------|---------------------------------|-------------------------------------------------------|
| ¢?    | 2010-2014 Alabama Integra                                                           | ted Crash Data 🗸 🗸   | Motorcyc          | cle Cause Multi Vehi                | cle                               | v 9                                        | 1/ 1/2010                       | ✓ 12/31/2014 ∨ II Number ► (1)                        |
| Order | r: Max Gain                                                                         | V Suppr              | ess Zero-Valued F | Rows                                |                                   | Si                                         | ignificance: Over F             | Representation V Threshold: 2.0                       |
| C031  | Lighting Conditions                                                                 | Subset<br>Frequency  | Subset<br>Percent | Other<br>Frequency                  | Other Percent                     | Odds Ratio                                 | Max Gain 💌                      | C024: School Bus Related<br>C025: Crash Severity      |
| •     | Daylight                                                                            | 1456                 | 77.53             | 2033                                | 73.61                             | 1.053*                                     | 73.678                          | C026: Intersection Related                            |
|       | Dark - Roadway Lighted                                                              | 17                   | 0.91              | 19                                  | 0.69                              | 1.316                                      | 4.081                           | C027: At Intersection                                 |
|       | Dusk                                                                                | 61                   | 3.25              | 84                                  | 3.04                              | 1.068                                      | 3.885                           | C028: Mileposted Route<br>C031: Lighting Conditions   |
|       | Dark - Roadway Not Lighted                                                          | 156                  | 8.31              | 227                                 | 8.22                              | 1.011                                      | 1.653                           | C032: Weather                                         |
|       | Not Applicable                                                                      | 1                    | 0.05              | 1                                   | 0.04                              | 1.471                                      | 0.320                           | C033: Locale                                          |
|       | E Dark - Unknown Roadway Lighting                                                   | 2                    | 0.11              | 9                                   | 0.33                              | 0.327                                      | -4.119                          | C034: E Police Present at Time of Crash               |
|       | E Dark - Spot Illumination One Side of                                              | 42                   | 2.24              | 68                                  | 2.46                              | 0.908                                      | -4.236                          | C035: Police Notification Delay                       |
|       | E Dark - Continuous Lighting One Sid                                                | 6                    | 0.32              | 19                                  | 0.69                              | 0.464                                      | -6.919                          | C036: Police Arrival Delay<br>C037: EMS Arrival Delay |
|       | Dawn                                                                                | 9                    | 0.48              | 28                                  | 1.01                              | 0.473                                      | -10.038                         | C038: Non-Vehicular Property Damage                   |
|       | E Dark - Spot Illumination Both Sides                                               | 78                   | 4.15              | 154                                 | 5.58                              | 0.745                                      | -26.711                         | C041: Highway Patrol Troops                           |
|       | E Dark - Continuous Lighting Both Sid                                               | 50                   | 2.66              | 118                                 | 4.27                              | 0.623*                                     | -30.233                         | C042: Highway Patrol Poets<br>Sort by Sum of Max Gain |
|       | ∂   &                                                                               |                      | 2                 |                                     | Integrated Crash Dai              | ta                                         |                                 | Display Filter Name                                   |
|       | 100                                                                                 |                      |                   |                                     |                                   |                                            |                                 |                                                       |
|       |                                                                                     |                      |                   |                                     |                                   |                                            |                                 |                                                       |
|       |                                                                                     |                      |                   |                                     |                                   |                                            |                                 |                                                       |
|       |                                                                                     |                      |                   |                                     |                                   |                                            |                                 |                                                       |
|       |                                                                                     |                      |                   |                                     |                                   |                                            |                                 |                                                       |
|       | Solution Solution                                                                   |                      |                   |                                     |                                   |                                            |                                 |                                                       |
|       | a 50                                                                                |                      |                   |                                     |                                   |                                            |                                 |                                                       |
|       | ш — <u>— — — — — — — — — — — — — — — — — —</u>                                      |                      |                   |                                     |                                   |                                            |                                 |                                                       |
|       |                                                                                     |                      |                   |                                     |                                   |                                            |                                 |                                                       |
|       | -                                                                                   |                      |                   |                                     |                                   |                                            |                                 |                                                       |
|       |                                                                                     |                      |                   |                                     |                                   |                                            |                                 |                                                       |
|       | 0 Da                                                                                | rk - Roadway Lighted | Dark - Roadway No | t Lighted E<br>R                    | Dark - Unknown<br>oadway Lighting | E Dark - Continuous L<br>One Side of Roadv | ighting E Dark -<br>vay Both Si | Spot Illumination<br>ides of Roadway                  |
|       |                                                                                     |                      |                   | C031: 1                             | Lighting Conditions               |                                            |                                 |                                                       |

## **Roadway Characteristics**

## **C011 Highway Classification**



#### **C026 Intersection Related**



## C028 Mileposted Roads (< 11 excluded)

| 2010-2014 Alabama I | integrated Crash Data 🛛 🗸 | Motorcyc          | le Cause Multi Vehi | cle           | v 💡        | 72 1/ 1/2010        | ✓ 12/31/2014 ∨ II Number ►      |
|---------------------|---------------------------|-------------------|---------------------|---------------|------------|---------------------|---------------------------------|
| ∵ Max Gain v Descer | nding 🗸 🗸 Suppr           | ess Zero-Valued F | lows                |               | S          | ignificance: Over F | Representation V Threshold: 2.0 |
| : Mileposted Route  | Subset<br>Frequency       | Subset<br>Percent | Other<br>Frequency  | Other Percent | Odds Ratio | Max Gain 🔻          | C028: Mileposted Route          |
| IN0065              | 43                        | 6.39              | 31                  | 2.88          | 2.222*     | 23.647              |                                 |
| IN0059              | 32                        | 4.75              | 18                  | 1.67          | 2.848      | 20.763              |                                 |
| IN0010              | 24                        | 3.57              | 9                   | 0.83          | 4.271      | 18.381              |                                 |
| AL0009              | 20                        | 2.97              | 12                  | 1.11          | 2.670      | 12.508              |                                 |
| IN0020              | 14                        | 2.08              | 6                   | 0.56          | 3.737      | 10.254              |                                 |
| IN0085              | 12                        | 1.78              | 9                   | 0.83          | 2.136      | 6.381               |                                 |
| AL0025              | 27                        | 4.01              | 34                  | 3.15          | 1.272      | 5.774               |                                 |
| AL0035              | 12                        | 1.78              | 12                  | 1.11          | 1.602      | 4.508               |                                 |
| AL0021              | 17                        | 2.53              | 21                  | 1.95          | 1.297      | 3.890               |                                 |
| AL0002              | 34                        | 5.05              | 49                  | 4.55          | 1.111      | 3.409               |                                 |
| AL0067              | 14                        | 2.08              | 17                  | 1.58          | 1.319      | 3.387               |                                 |
| AL0059              | 15                        | 2.23              | 19                  | 1.76          | 1.265      | 3.138               |                                 |
| AL0012              | 16                        | 2.38              | 24                  | 2.23          | 1.068      | 1.017               |                                 |
| AL0069              | 12                        | 1.78              | 18                  | 1.67          | 1.068      | 0.763               |                                 |
| AL0013              | 18                        | 2.67              | 28                  | 2.60          | 1.030      | 0.519               |                                 |
| AL0210              | 16                        | 2.38              | 25                  | 2.32          | 1.025      | 0.392               |                                 |
| AL0007              | 23                        | 3.42              | 37                  | 3.43          | 0.996      | -0.099              |                                 |
| AL0042              | 20                        | 2.97              | 34                  | 3.15          | 0.942      | -1.226              |                                 |
| AL0016              | 34                        | 5.05              | 57                  | 5.29          | 0.955      | -1.585              |                                 |
| AL0014              | 14                        | 2.08              | 25                  | 2.32          | 0.897      | -1.608              |                                 |
| AL0053              | 47                        | 6.98              | 80                  | 7.42          | 0.941      | -2.944              |                                 |
| AL0004              | 27                        | 4.01              | 50                  | 4.64          | 0.865      | -4.215              |                                 |
| AL0006              | 18                        | 2.67              | 37                  | 3.43          | 0.779      | -5.099              |                                 |
| AL0008              | 16                        | 2.38              | 34                  | 3.15          | 0.754      | -5.226              |                                 |
| AL0038              | 12                        | 1.78              | 36                  | 3.34          | 0.534      | -10.475             |                                 |
| AL0075              | 11                        | 1.63              | 36                  | 3.34          | 0.489      | -11.475             |                                 |
| AL0005              | 16                        | 2.38              | 47                  | 4.36          | 0.545      | -13.342             |                                 |
| AL0001              | 72                        | 10.70             | 140                 | 12.99         | 0.824      | -15.403             |                                 |
| AL0003              | 37                        | 5.50              | 88                  | 8.16          | 0.673      | -17.939             | Sort by Sum of Max Gain         |

|       | 2010-2014 Alabama Integra      | ted Crash Data 🗸 🗸  | Motorcyc           | le Cause Multi Vehi | icle                 | v 9        | 1/ 1/2010           | ✓ 12/31/2014 ✓ I Number ► I                                                     |
|-------|--------------------------------|---------------------|--------------------|---------------------|----------------------|------------|---------------------|---------------------------------------------------------------------------------|
| rder: | Max Gain V Descending          | ✓ ✓ Supp            | ress Zero-Valued F | lows                |                      | s          | ignificance: Over F | Representation  V Threshold: 2.0                                                |
| 407:  | CU Roadway Curvature and Grade | Subset<br>Frequency | Subset<br>Percent  | Other<br>Frequency  | Other Percent        | Odds Ratio | Max Gain 🔻          | C330: CU Driver/Non-Motorist Transpor<br>C331: E CU Driver/Non-Motorist Transp  |
|       | Straight with Down Grade       | 199                 | 10.59              | 201                 | 7.29                 | 1.454*     | 62.110              | C401: E CU Involved Road/Bridge                                                 |
|       | E Curve Right and Level        | 75                  | 3.99               | 43                  | 1.56                 | 2.561*     | 45.715              | C402: E CU Road Surface Type                                                    |
|       | E Curve Right and Down Grade   | 45                  | 2.39               | 20                  | 0.72                 | 3.304*     | 31.379              | C403: CU Roadway Condition                                                      |
|       | E Curve Right and Up Grade     | 46                  | 2.45               | 22                  | 0.80                 | 3.070*     | 31.017              | C404: E CU Environmental Contributing<br>C405: CU Contributing Material in Road |
|       | Straight with Up Grade         | 161                 | 8.57               | 208                 | 7.54                 | 1.137      | 19.343              | C406: CU Contributing Material Source                                           |
|       | Straight at Hillcrest          | 41                  | 2.18               | 38                  | 1.38                 | 1.584      | 15.120              | C407: CU Roadway Curvature and Gra                                              |
|       | E Curve Left and Down Grade    | 22                  | 1.17               | 17                  | 0.62                 | 1.900      | 10.422              | C408: CU Vision Obscured By                                                     |
|       | E Curve Left and Up Grade      | 13                  | 0.69               | 11                  | 0.40                 | 1.735      | 5.509               | C409: CU Traffic Control<br>C410: CU Traffic Control Functioning                |
|       | P Curve with Up Grade*         | 5                   | 0.27               | 2                   | 0.07                 | 3.671      | 3.638               | C411: CU Opposing Lane Separation                                               |
|       | P Curve with Down Grade*       | 5                   | 0.27               | 3                   | 0.11                 | 2.447      | 2.957               | C412: CU Trafficway Lanes                                                       |
|       | E Curve Right at Hillcrest     | 5                   | 0.27               | 6                   | 0.22                 | 1.224      | 0.914               | C413: E CU Turn Lanes                                                           |
|       | E Curve Left at Hillcrest      | 1                   | 0.05               | 1                   | 0.04                 | 1.468      | 0.319               | C414: CU One-Way Street                                                         |
|       | P Curve and Level*             | 5                   | 0.27               | 13                  | 0.47                 | 0.565      | -3.854              | C415: CU Workzone Related<br>C416: E CU Workzone Type                           |
|       | E Curve Left and Level         | 18                  | 0.96               | 38                  | 1.38                 | 0.696      | -7.880              | C417: E CU Workers Present                                                      |
|       | Not Applicable                 | 18                  | 0.96               | 44                  | 1.59                 | 0.601      | -11.966             | C418: E CU Law Enforcement Present                                              |
|       | Straight and Level             | 1220                | 64.93              | 2091                | 75.79                | 0.857*     | -204.063            | C450: CU CMV Indicator<br>Sort by Sum of Max Gain                               |
| 0     | i 🕼 🖉                          |                     |                    |                     |                      |            |                     | Display Filter Name                                                             |
|       |                                |                     | 2                  | 010-2014 Alabama    | Integrated Crash Dat | a          |                     |                                                                                 |
|       |                                |                     |                    |                     | Curvature and Grad   |            |                     |                                                                                 |
|       | 100                            |                     |                    |                     |                      |            |                     |                                                                                 |
|       | 100                            |                     |                    |                     |                      |            |                     |                                                                                 |
|       | -                              |                     |                    |                     |                      |            |                     |                                                                                 |
|       | _                              |                     |                    |                     |                      |            |                     |                                                                                 |
|       |                                |                     |                    |                     |                      |            |                     |                                                                                 |
|       | /                              |                     |                    |                     |                      |            |                     |                                                                                 |
|       | G E0                           |                     |                    |                     |                      |            |                     |                                                                                 |
|       | Хиальна 50 —                   |                     |                    |                     |                      |            |                     |                                                                                 |
|       | -                              |                     |                    |                     |                      |            |                     |                                                                                 |
|       | -                              |                     |                    |                     |                      |            |                     |                                                                                 |
|       |                                |                     |                    |                     |                      |            |                     |                                                                                 |
|       |                                |                     |                    |                     |                      |            |                     |                                                                                 |
|       |                                |                     |                    |                     |                      |            |                     |                                                                                 |

## C407 CU Roadway Curvature and Grade

## **Driver Factors**

| CARE 10.1.0.7 - [IMPACT Re                                       | esults - 2010-2               | 2014 Alaban                | na Integrate                | d Crash Data             | - Motorcycle | e Cause Multi       | Vehicle AND 🗕 🗖 🗙                       |
|------------------------------------------------------------------|-------------------------------|----------------------------|-----------------------------|--------------------------|--------------|---------------------|-----------------------------------------|
| <u> F</u> ile <u>D</u> ashboard <u>F</u> ilters <u>A</u> nalysis | <u>I</u> mpact <u>L</u> ocati | ons <u>T</u> ools <u>V</u> | <u>/</u> indow <u>H</u> elp |                          |              |                     | _ & >                                   |
| 2010-2014 Alabama Integra                                        | ted Crash Data                | Motorcy                    | rcle Cause Multi Veh        | icle                     | ▼            | 1/ 1/2010           | ✓ 12/31/2014 ✓ Number ► ①               |
| Order: Max Gain v Descending                                     | V Sup                         | press Zero-Valued          | Rows                        |                          | 4            | Significance: Over  | Representation V Threshold: 2.0         |
| C015: Primary Contributing Circumstance                          | Subset<br>Frequency           | Subset<br>Percent          | Other<br>Frequency          | Other Percent            | Odds Ratio   | Max Gain 👻          | C015: Primary Contributing Circumstance |
| Followed too Close                                               | 366                           | 21.58                      | 190                         | 8.17                     | 2.641*       | 227.402             |                                         |
| Misjudge Stopping Distance                                       | 228                           | 13.44                      | 158                         | 6.80                     | 1.978*       | 112.745             | 1                                       |
| Improper Passing                                                 | 123                           | 7.25                       | 15                          | 0.65                     | 11.241       | 112.058             | 1                                       |
| E Aggressive Operation                                           | 133                           | 7.84                       | 30                          | 1.29                     | 6.078*       | 111.116             | 1                                       |
| Over Speed Limit                                                 | 102                           | 6.01                       | 10                          | 0.43                     | 13.983       | 94.705              | 1                                       |
| E Swerved to Avoid Vehicle                                       | 47                            | 2.77                       | 15                          | 0.65                     | 4.295        | 36.058              | 1                                       |
| Driving too Fast for Conditions                                  | 36                            | 2.12                       | 3                           | 0.13                     | 16.450       | 33.812              | 1                                       |
| Traveling Wrong Way/Wrong Side                                   | 42                            | 2.48                       | 24                          | 1.03                     | 2.399*       | 24.493              | 1                                       |
| Defective Equipment                                              | 31                            | 1.83                       | 12                          | 0.52                     | 3.541        | 22.246              | 1                                       |
| E Other Distraction Outside the Vehicle                          | 47 62                         | 2.77                       | 36                          | 1.55                     | 1.790*       | 20.739              | 1                                       |
| P Driver Not in Control                                          | 27                            | 3.66                       | 12                          | 0.52                     | 3.084        | 18.246              | 1                                       |
| E Crossed Centerline                                             | 36                            | 2.12                       | 25                          | 1.08                     | 1.974*       | 17.763              | 1                                       |
| E Ran Traffic Signal                                             | 40                            | 2.12                       | 34                          | 1.00                     | 1.574        | 15.198              | 1                                       |
| E Over Correcting/Over Steering                                  | 14                            | 0.83                       | 4                           | 0.17                     | 4.798        | 11.082              | 1                                       |
| E Other Improper Action                                          | 39                            | 2.30                       | 39                          | 1.68                     | 1.371        | 10.551              | 1                                       |
| E Ran Stop Sign                                                  | 22                            | 1.30                       | 16                          | 0.69                     | 1.885        | 10.329              | 1                                       |
| Failure to Obey Signs/Signals/Officer                            | 10                            | 0.59                       | 13                          | 0.56                     | 1.055        | 0.517               | 1                                       |
| Vision Obstructed                                                | 11                            | 0.65                       | 22                          | 0.95                     | 0.685        | -5.048              | 1                                       |
| E Other Failed to Yield                                          | 16                            | 0.94                       | 50                          | 2.15                     | 0.439        | -20.473             | 1                                       |
| Improper Lane Change/Use                                         | 60                            | 3.54                       | 121                         | 5.20                     | 0.680*       | -28.265             | 1                                       |
| Made Improper Turn                                               | 26                            | 1.53                       | 79                          | 3.40                     | 0.451*       | -31.628             | 1                                       |
| E Failed to Yield Right-of-Way from Tr                           | 13                            | 0.77                       | 64                          | 2.75                     | 0.278        | -33.686             | 1                                       |
| E Failed to Yield Right-of-Way from Dr                           | 28                            | 1.65                       | 161                         | 6.92                     | 0.238*       | -89.443             | 1                                       |
| Unseen Object/Person/Vehicle                                     | 56                            | 3.30                       | 257                         | 11.05                    | 0.299*       | -131.472            | 1                                       |
| E Failed to Yield Right-of-Way from St                           | 44                            | 2.59                       | 364                         | 15.66                    | 0.166*       | -221.524            | 1                                       |
| E Failed to Yield Right-of-Way Making                            | 37                            | 2.18                       | 473                         | 20.34                    | 0.107*       | -308.036            | Sort by Sum of Max Gain                 |
| 📋 🕼 📽 💋                                                          |                               |                            |                             |                          |              |                     | Display Filter Name                     |
|                                                                  |                               |                            |                             | Integrated Crash Dat     |              |                     |                                         |
|                                                                  |                               |                            | CU15: Primary Con           | tributing Circumstanc    | e            |                     |                                         |
| 30                                                               |                               |                            |                             |                          |              |                     |                                         |
| > 00                                                             |                               |                            |                             |                          |              |                     |                                         |
| 20<br>Hearbart 10                                                |                               |                            |                             |                          |              |                     |                                         |
| ي<br>10                                                          |                               |                            |                             |                          |              |                     |                                         |
|                                                                  |                               |                            | _                           |                          |              | _                   |                                         |
| 0                                                                |                               |                            |                             |                          | The second   |                     |                                         |
|                                                                  | Over Speed Limit              | E Other D<br>Outside t     | istraction<br>he Vehicle    | E Over Correcting/Over S | teering E O  | her Failed to Yield | Unseen Object/Person/Vehicle            |
|                                                                  |                               |                            | C015: Primar                | y Contributing Circum    | stance       |                     |                                         |

## C017 First Harmful Event

| CARE 10.1.0.7 - [IMPACT Res                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ults - 2010-2                  | 014 Alabam                 | na Integrate        | d Crash Data          | - Motorcycle | e Cause Multi        |                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------|---------------------|-----------------------|--------------|----------------------|---------------------------------|
| <u>File</u> <u>Dashboard</u> <u>Filters</u> <u>Analysis</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <u>I</u> mpact <u>L</u> ocatio | ons <u>T</u> ools <u>W</u> | indow <u>H</u> elp  |                       |              |                      |                                 |
| 2010-2014 Alabama Integrate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ed Crash Data 🗸 🗸              | Motorcy                    | cle Cause Multi Veh | icle                  | ¥ 💡          | 1/ 1/2010            | ✓ 12/31/2014 ✓ Number ► ①       |
| rder: Max Gain V Descending                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Y Supp                         | ress Zero-Valued F         | Rows                |                       | 5            | Significance: Over l | Representation V Threshold: 2.0 |
| 017: First Harmful Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Subset<br>Frequency            | Subset<br>Percent          | Other<br>Frequency  | Other Percent         | Odds Ratio   | Max Gain 🔻           | C017: First Harmful Event       |
| Overtum/Rollover                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 38                             | 2.05                       | 14                  | 0.51                  | 4.013        | 28.530               |                                 |
| E Evasive Action (Swerve/Brake)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 42                             | 2.27                       | 23                  | 0.84                  | 2.700*       | 26.443               |                                 |
| Collision with Parked Motor Vehicle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 48                             | 2.59                       | 43                  | 1.57                  | 1.650*       | 18.915               |                                 |
| E Fell/Jumped from Motor Vehicle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 17                             | 0.92                       | 3                   | 0.11                  | 8.378        | 14.971               |                                 |
| E Crossed Centerline                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 24                             | 1.29                       | 18                  | 0.66                  | 1.971        | 11.825               |                                 |
| Collision with Other Fixed Object                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 9                              | 0.49                       | 1                   | 0.04                  | 13.306       | 8.324                |                                 |
| E Vehicle Defect/Component Failure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5                              | 0.27                       | 1                   | 0.04                  | 7.392        | 4.324                | 1                               |
| E Collision with Curb/Island/Raised M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5                              | 0.27                       | 1                   | 0.04                  | 7.392        | 4.324                | 1                               |
| Collision with Ditch<br>E Collision with Other Non-Fixed Object                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3                              | 0.16                       | 1                   | 0.04                  | 4.435        | 2.324                |                                 |
| E Collision with Other Non-Fixed Object<br>E Collision with Animal: Deer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2                              | 0.38                       | / 0                 | 0.26                  | 0.000        | 2.265                | 1                               |
| Collision with Railway Vehicle/Train                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2                              | 0.11                       | 1                   | 0.00                  | 2.957        | 1.324                |                                 |
| E Ran Off Road Right                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4                              | 0.22                       | 6                   | 0.04                  | 0.986        | -0.058               |                                 |
| Collision with Non-Motorist: Pedalcycle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1                              | 0.05                       | 2                   | 0.07                  | 0.500        | -0.353               |                                 |
| E Ran Off Road Left                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2                              | 0.11                       | 4                   | 0.15                  | 0.739        | -0.706               |                                 |
| Cargo/Equipment Loss or Shift                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1                              | 0.05                       | 7                   | 0.26                  | 0.211        | -3.735               |                                 |
| E Non-Contact Vehicle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                              | 0.16                       | 20                  | 0.73                  | 0.222        | -10.528              |                                 |
| Collision with Vehicle in Traffic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1600                           | 86.30                      | 2431                | 88.69                 | 0.973*       | -44.317              |                                 |
| E Collision with Vehicle in (or from) Ot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 41                             | 2.21                       | 135                 | 4.93                  | 0.449*       | -50.313              | Sort by Sum of Max Gain         |
| 1 let 🖉                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                |                            |                     |                       |              |                      | Display Filter Name             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                | 2                          | 010-2014 Alabama    | Integrated Crash Da   | ta           |                      |                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                |                            |                     | Harmful Event         |              |                      |                                 |
| 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                |                            |                     |                       |              |                      |                                 |
| 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                |                            |                     |                       |              |                      |                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                |                            |                     |                       |              |                      |                                 |
| _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                |                            |                     |                       |              |                      |                                 |
| _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                |                            |                     |                       |              |                      |                                 |
| · -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                |                            |                     |                       |              |                      |                                 |
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| Led                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                |                            |                     |                       |              |                      |                                 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                |                            | 0017                | : First Harmful Event |              |                      |                                 |

## C023 Manner of Crash

| CA       | CARE 10.1.0.7 - [IMPACT Results - 2010-2014 Alabama Integrated Crash Data - Motorcycle Cause Multi Vehicle vs. Mo — 🗖 💌                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                               |                            |                             |                      |             |                      |                                                                         |  |  |  |  |
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| 🖡 Ei     | ile <u>D</u> ashboard <u>F</u> ilters <u>A</u> nalysis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u>I</u> mpact <u>L</u> ocati | ons <u>T</u> ools <u>V</u> | <u>V</u> indow <u>H</u> elp |                      |             |                      | _ 8 :                                                                   |  |  |  |  |
| <b>*</b> | 2010-2014 Alabama Integrat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ed Crash Data 🛛 🗸             | / Motorcj                  | ycle Cause Multi Vehi       | icle                 | - v 9       | 1/ 1/2010            | ✓ 12/31/2014 ✓ I Number ► I                                             |  |  |  |  |
| Order    | : Max Gain 🗸 Descending                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | V V Supp                      | oress Zero-Valued          | Rows                        |                      | S           | Significance: Over I | Representation V Threshold: 2.0                                         |  |  |  |  |
| C023     | Subset         Subset         Other         Other         Other Percent         Odds Ratio         Max Gain         C017: First Harmful Event           Vacco         Percent         Percent         Other Percent         Odds Ratio         Max Gain         C017: First Harmful Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                               |                            |                             |                      |             |                      |                                                                         |  |  |  |  |
| •        | Rear End (front to rear)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 776                           | 41.28                      | 703                         | 25.45                | 1.622*      | 297.492              | C019: E Most Harmful Event                                              |  |  |  |  |
|          | Sideswipe - Same Direction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 199                           | 10.59                      | 153                         | 5.54                 | 1.911*      | 94.858               | C020: E Distracted Driving                                              |  |  |  |  |
|          | Angle (front to side) Same Direction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 80                            | 4.26                       | 70                          | 2.53                 | 1.679*      | 32.353               | C021: Distance to Fixed Object<br>C022: E Type of Roadway Junction/Feat |  |  |  |  |
|          | Head-On (front to front only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 78                            | 4.15                       | 90                          | 3.26                 | 1.273       | 16.740               | C023: E Manner of Crash                                                 |  |  |  |  |
|          | Sideswipe - Opposite Direction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 42                            | 2.23                       | 42                          | 1.52                 | 1.469       | 13.412               | C024: School Bus Related                                                |  |  |  |  |
|          | Unknown                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                             | 0.05                       | 2                           | 0.07                 | 0.735       | -0.361               | C025: Crash Severity                                                    |  |  |  |  |
|          | Other                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 45                            | 2.39                       | 79                          | 2.86                 | 0.837       | -8.773               | C026: Intersection Related                                              |  |  |  |  |
|          | Record from Paper System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 148                           | 7.87                       | 233                         | 8.44                 | 0.933       | -10.595              | C027: At Intersection<br>C028: Mileposted Route                         |  |  |  |  |
|          | Single Vehicle Crash (all types)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 11                            | 0.59                       | 33                          | 1.19                 | 0.490       | -11.462              | C028. Mileposted Route<br>C031: Lighting Conditions                     |  |  |  |  |
|          | Non-Collision                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8                             | 0.43                       | 38                          | 1.38                 | 0.309       | -17.865              | C032: Weather                                                           |  |  |  |  |
|          | Angle Oncoming (frontal)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 61                            | 3.24                       | 122                         | 4.42                 | 0.735       | -22.041              | C033: Locale                                                            |  |  |  |  |
|          | Angle (front to side) Opposite Direction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 70                            | 3.72                       | 191                         | 6.92                 | 0.538*      | -60.007              | C034: E Police Present at Time of Crash                                 |  |  |  |  |
|          | Side Impact (angled)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 193                           | 10.27                      | 395                         | 14.30                | 0.718*      | -75.863              | C035: Police Notification Delay                                         |  |  |  |  |
|          | Side Impact (90 degrees)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 168                           | 8.94                       | 592                         | 21.43                | 0.417*      | -234.954             | C036: Police Arrival Delay                                              |  |  |  |  |
|          | ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                               |                            |                             | I. I.                |             |                      | Sort by Sum of Max Gain                                                 |  |  |  |  |
|          | ) @ <i>\$</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                               |                            |                             |                      |             |                      | Display Filter Name                                                     |  |  |  |  |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |                            | 2010-2014 Alabama           | Integrated Crash Dat | a           |                      |                                                                         |  |  |  |  |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |                            | C023: E Ma                  | nner of Crash        |             |                      |                                                                         |  |  |  |  |
|          | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                               |                            |                             |                      |             |                      |                                                                         |  |  |  |  |
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|          | 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                               |                            |                             |                      |             |                      |                                                                         |  |  |  |  |
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|          | Leduency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                               |                            |                             |                      |             |                      |                                                                         |  |  |  |  |
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|          | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                               |                            |                             |                      |             |                      |                                                                         |  |  |  |  |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |                            |                             |                      |             |                      |                                                                         |  |  |  |  |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |                            |                             |                      |             |                      |                                                                         |  |  |  |  |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |                            |                             |                      |             |                      |                                                                         |  |  |  |  |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |                            |                             |                      |             |                      |                                                                         |  |  |  |  |
|          | - 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Side                          | eswipe - Opposi            |                             |                      | Non-Collisi | on                   | r                                                                       |  |  |  |  |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |                            | C023: I                     | E Manner of Crash    |             |                      |                                                                         |  |  |  |  |

#### C105 Left Scene



# C107 CU Driver Raw Age

| CA       | RE 10.1.0.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | - [IMPACT Re                     | sults - 2010-                | 2014 Alaba         | ma Integrated               | d Crash Dat        | a - Motorcy      | cle Cause Mult     | ti Vehicle Al     | ND — 1       | ×     |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------|--------------------|-----------------------------|--------------------|------------------|--------------------|-------------------|--------------|-------|
| 💀 Ei     | ile <u>D</u> ashboard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>F</u> ilters <u>A</u> nalysis | <u>I</u> mpact <u>L</u> ocat | ions <u>T</u> ools | <u>W</u> indow <u>H</u> elp |                    |                  |                    |                   |              | _ @ × |
| <b>*</b> | 2010-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -2014 Alabama Integra            | ted Crash Data               | ✓ Motor            | cycle Cause Multi Vehi      | icle               | ¥ 9              | 1/ 1/2010          | ∨ 12/31/2014      | V Number     | ► © 🧕 |
| Order:   | : Max Gain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ✓ Descending                     | Y Sup                        | press Zero-Value   | d Rows                      |                    |                  | Significance: Over | Representation    | ✓ Threshold: | 2.0 🖨 |
| C107:    | CU Driver Raw A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ge                               | Subset<br>Frequency          | Subset<br>Percent  | Other<br>Frequency          | Other<br>Percent   | Odds Ratio       | Max Gain           | C107: CU Dri      | iver Raw Age |       |
| •        | 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  | 10                           | 0.56               | 0                           | 0.00               | 0.000            | 10.000             |                   |              |       |
|          | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  | 17                           | 0.95               | 5                           | 0.20               | 4.830            | 13.480             |                   |              |       |
|          | 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  | 9                            | 0.50               | 55                          | 2.16               | 0.232            | -29.716            |                   |              |       |
|          | 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  | 23<br>37                     | 1.28<br>2.06       | 93                          | 3.02<br>3.65       | 0.424*<br>0.565* | -31.202<br>-28.465 |                   |              |       |
|          | 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  | 48                           | 2.00               | 87                          | 3.41               | 0.383            | -13.241            |                   |              |       |
|          | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  | 53                           | 2.07               | 64                          | 2.51               | 1.176            | 7.949              |                   |              |       |
|          | 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  | 60                           | 3.34               | 76                          | 2.98               | 1.122            | 6.502              |                   |              |       |
|          | 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  | 69                           | 3.84               | 75                          | 2.94               | 1.307            | 16.206             |                   |              |       |
|          | 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  | 38                           | 2.12               | 58                          | 2.27               | 0.931            | -2.827             |                   |              |       |
|          | 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  | 41                           | 2.28               | 75                          | 2.94               | 0.777            | -11.794            |                   |              |       |
|          | 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  | 46                           | 2.56               | 62                          | 2.43               | 1.054            | 2.357              |                   |              |       |
|          | 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  | 44                           | 2.45               | 62                          | 2.43               | 1.008            | 0.357              |                   |              |       |
|          | 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  | 28                           | 1.56               | 55                          | 2.16               | 0.723            | -10.716            |                   |              |       |
|          | 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  | 34                           | 2.45               | 37                          | 1.45               | 1.689*<br>1.380  | 9.363              |                   |              |       |
|          | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  | 34                           | 1.05               | 50                          | 1.37               | 0.994            | -0.196             |                   |              |       |
|          | 31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  | 36                           | 2.01               | 39                          | 1.53               | 1.311            | 8.547              |                   |              |       |
|          | 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  | 42                           | 2.34               | 34                          | 1.33               | 1.755*           | 18.067             |                   |              |       |
|          | 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  | 43                           | 2.40               | 43                          | 1.69               | 1.421            | 12.731             |                   |              |       |
|          | 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  | 28                           | 1.56               | 45                          | 1.76               | 0.884            | -3.676             |                   |              |       |
|          | 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  | 33                           | 1.84               | 33                          | 1.29               | 1.421            | 9.771 🗸            | Sort by Sum       | of Max Gain  |       |
| 0        | è 🛯 🗞 🖉                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                  |                              |                    |                             |                    |                  |                    | Display Filter Na | ame          |       |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                  |                              |                    | 2010-2014 Alabama           | Integrated Crash I | Data             |                    |                   |              |       |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                  |                              |                    | C107: CU D                  | )river Raw Age     |                  |                    |                   |              |       |
|          | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                  | -                            |                    |                             |                    |                  |                    |                   |              | _     |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                  |                              |                    |                             |                    |                  |                    |                   |              | _     |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                  |                              |                    |                             |                    |                  |                    |                   |              | _     |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                  |                              |                    |                             |                    |                  |                    |                   |              |       |
|          | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                  |                              | 11                 |                             |                    | 1                |                    |                   |              |       |
|          | Countries Countr |                                  |                              | all.               | II.                         |                    |                  |                    |                   |              |       |
|          | ш — —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                  |                              | i hunu.            | 406066                      |                    |                  |                    | 1                 |              |       |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                  |                              |                    |                             |                    | 016060           | 10.6.1             |                   | 1.1.         |       |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                  |                              |                    |                             |                    |                  |                    |                   |              | 14    |
|          | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                  |                              |                    |                             |                    |                  |                    |                   |              |       |
|          | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                  |                              | 33                 |                             |                    | 53               |                    |                   | 73           |       |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                  |                              |                    | C107                        | CU Driver Raw A    | ge               |                    |                   |              |       |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                  |                              |                    |                             |                    |                  |                    |                   |              |       |

| COD         CUDITVER for Reson         Subett         Subett         Other Percent         Percent         Other         Percent <th>Iter         Max Gain         Descending           00:00         Driver Age Range           11 to 15 Years           16 to 20 Years           21 to 25 Years           26 to 30 Years           31 to 35 Years           36 to 40 Years           41 to 45 Years           46 to 50 Years           51 to 55 Years</th> <th>Subset<br/>Frequency<br/>32<br/>32<br/>32<br/>32<br/>32<br/>32<br/>32<br/>32<br/>32<br/>32<br/>32<br/>32<br/>32</th> <th>Subset<br/>Percent<br/>1.78<br/>9.44<br/>14.11<br/>10.28<br/>10.11<br/>8.94<br/>8.22</th> <th>Cother<br/>Frequency<br/>6<br/>376<br/>346<br/>239<br/>194<br/>196</th> <th>Other Percent<br/>0.24<br/>14.75<br/>13.57<br/>9.37<br/>7.61</th> <th>Odds Ratio<br/>7.556<br/>0.641*<br/>1.040<br/>1.097<br/>1.329*</th> <th>Max Gain<br/>27.765<br/>-95.412<br/>9.765<br/>16.294</th> <th></th> <th></th> | Iter         Max Gain         Descending           00:00         Driver Age Range           11 to 15 Years           16 to 20 Years           21 to 25 Years           26 to 30 Years           31 to 35 Years           36 to 40 Years           41 to 45 Years           46 to 50 Years           51 to 55 Years | Subset<br>Frequency<br>32<br>32<br>32<br>32<br>32<br>32<br>32<br>32<br>32<br>32<br>32<br>32<br>32                                                                                                            | Subset<br>Percent<br>1.78<br>9.44<br>14.11<br>10.28<br>10.11<br>8.94<br>8.22 | Cother<br>Frequency<br>6<br>376<br>346<br>239<br>194<br>196 | Other Percent<br>0.24<br>14.75<br>13.57<br>9.37<br>7.61 | Odds Ratio<br>7.556<br>0.641*<br>1.040<br>1.097<br>1.329* | Max Gain<br>27.765<br>-95.412<br>9.765<br>16.294 |                       |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------|-----------------------|-------|
| Too:         Frequency         Frequency         Other Precent         Odds Halo         Ite call           110         5150         32         178         6         024         756         27756           150         2010         758         27756         27756         27756           110         150         2010         758         1047         95.61           210         25 to 30 Yosm         136         1028         228         93.7         11.04         9.756           310.35 Years         182         1011         194         7.61         1.322*         45.059           310.35 Years         188         1028         228         9.37         1.164         228-77           410.64 Years         148         8.22         200         7.84         1.164         6.723           510.50 Years         142         7.86         142         5.57         1.417         4.156           510.05 Years         142         7.86         142         5.57         1.417         4.156           510.50 Years         10         0.56         101         3.8         0.140         4.138           710.07 Years         2         0.11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 11 to 15 Years           16 to 20 Years           21 to 25 Years           26 to 30 Years           31 to 35 Years           36 to 40 Years           41 to 45 Years           46 to 50 Years           51 to 55 Years                                                                                             | Frequency           32           170           254           185           182           181           182           181           181           182           183           184           185           185 | Percent 1.78 9.44 14.11 10.28 10.11 8.94 8.22                                | Frequency<br>6<br>376<br>346<br>239<br>194<br>196           | 0.24<br>14.75<br>13.57<br>9.37<br>7.61                  | 7.556<br>0.641*<br>1.040<br>1.097<br>1.329*               | 27.765<br>-95.412<br>9.765<br>16.294             | C600: CU Driver Age F | Range |
| 16 to 20 Years       170       9.44       376       14.75       0.641       -95.412         21 to 25 Years       264       14.11       346       13.57       1.040       9.765         26 to 30 Years       185       10.22       239       9.37       1.087       16.224         31 to 35 Years       182       1011       194       7.61       1.329       45.069         36 to 40 Years       161       8.94       195       7.69       1.104       6.224         41 to 55 Years       162       1011       194       7.61       1.329       45.069         36 to 40 Years       161       8.94       195       7.69       1.104       6.224         41 to 55 Years       162       181       7.10       1.445       57.225       51 to 55 Years       162       1.11       194       57.22       146       5.73       1.639       71.941       1.16       1.16       1.16       1.16       1.16       1.16       1.16       1.16       1.16       1.14       1.16       1.16       1.16       1.16       1.16       1.16       1.16       1.16       1.16       1.16       1.16       1.16       1.16       1.16       1.16       1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 16 to 20 Years           21 to 25 Years           26 to 30 Years           31 to 35 Years           36 to 40 Years           41 to 45 Years           46 to 50 Years           51 to 55 Years                                                                                                                      | 170<br>254<br>185<br>182<br>161<br>148<br>185<br>185                                                                                                                                                         | 9.44<br>14.11<br>10.28<br>10.11<br>8.94<br>8.22                              | 376<br>346<br>239<br>194<br>196                             | 14.75<br>13.57<br>9.37<br>7.61                          | 0.641*<br>1.040<br>1.097<br>1.329*                        | -95.412<br>9.765<br>16.294                       |                       |       |
| 21 to 25 Years       254       14 11       346       13.57       1.049       9.78         25 to 30 Years       185       10.28       239       9.37       11.97       15.294         31 to 35 Years       182       10.11       194       7.61       1.329       45.081         35 to 40 Years       181       8.4       156       7.68       1.164       22.647         41 to 45 Years       148       8.22       200       7.84       1.048       6.824         45 to 50 Years       185       10.28       181       7.70       1.447       57.25         51 to 55 Years       175       5.72       1.417       41.765       61 to 65 Years       2.421         56 to 00 Years       142       7.89       1.142       5.057       2.412         56 to 00 Years       142       7.89       1.142       1.95       0.555       2.98.82         71 to 75 Years       10       0.56       101       3.98       0.140       61.284       1.75       1.85       0.555       2.98.82       1.75       1.85       0.555       2.98.82       1.95       1.95       1.95       1.95       1.95       1.95       1.95       1.95       1.95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 21 to 25 Years           26 to 30 Years           31 to 35 Years           36 to 40 Years           41 to 45 Years           46 to 50 Years           51 to 55 Years                                                                                                                                               | 254<br>185<br>182<br>161<br>148<br>185<br>175                                                                                                                                                                | 14.11<br>10.28<br>10.11<br>8.94<br>8.22                                      | 346<br>239<br>194<br>196                                    | 13.57<br>9.37<br>7.61                                   | 1.040<br>1.097<br>1.329*                                  | 9.765<br>16.294                                  |                       |       |
| 26 to 30 Years       185       10.22       239       9.37       1.097       16.284         31 to 35 Years       182       10.11       194       7.61       1.323*       45.059         36 to 40 Years       161       8.94       196       7.68       1.164       22.647         41 to 45 Years       161       8.94       196       7.68       1.164       52.624         45 to 50 Years       185       10.28       181       7.10       1.448*       57.255         51 to 55 Years       172       9.72       146       5.73       1.171*       1.165         56 to 0 Years       182       2.29       116       4.55       0.635*       -2.982         51 to 55 Years       10       0.55       101       3.925       0.119       51.58         31 to 85 Years       2       0.11       4.7       1.84       0.060       31.176         51 to 55 Years       2       0.11       4.7       1.84       0.060       31.176         51 to 55 Years       2       0.11       4.7       1.84       0.060       31.176         51 to 55 Years       2       0.11       4.7       1.84       0.060       31.176 <td>26 to 30 Years           31 to 35 Years           36 to 40 Years           41 to 45 Years           46 to 50 Years           51 to 55 Years</td> <td>185<br/>182<br/>161<br/>148<br/>185<br/>175</td> <td>10.28<br/>10.11<br/>8.94<br/>8.22</td> <td>239<br/>194<br/>196</td> <td>9.37<br/>7.61</td> <td>1.097<br/>1.329*</td> <td>16.294</td> <td></td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 26 to 30 Years           31 to 35 Years           36 to 40 Years           41 to 45 Years           46 to 50 Years           51 to 55 Years                                                                                                                                                                        | 185<br>182<br>161<br>148<br>185<br>175                                                                                                                                                                       | 10.28<br>10.11<br>8.94<br>8.22                                               | 239<br>194<br>196                                           | 9.37<br>7.61                                            | 1.097<br>1.329*                                           | 16.294                                           |                       |       |
| 31 to 35 Yeers       182       10.11       194       7.61       1.329       45.089         36 to 40 Yeers       161       8.94       196       7.59       1.164       22.647         41 to 45 Yeers       148       8.22       200       7.84       1.048       6.824         46 to 50 Yeers       115       10.22       110       1.447       67.23       1.688       71.941         56 to 60 Yeers       142       7.89       142       5.57       1.417       41.762         66 to 60 Yeers       162       2.88       116       5.53       12.88       71.941         56 to 60 Yeers       152       2.88       116       5.57       1.417       41.763         66 to 70ers       162       2.88       101       3.96       0.140       61.294         76 to 80 Yeers       2       0.11       47       1.84       0.060       31.101         91 to 85 Yeers       2       0.11       47       1.84       0.060       31.101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 31 to 35 Years           36 to 40 Years           41 to 45 Years           46 to 50 Years           51 to 55 Years                                                                                                                                                                                                 | 182<br>161<br>148<br>185<br>175                                                                                                                                                                              | 10.11<br>8.94<br>8.22                                                        | 194<br>196                                                  | 7.61                                                    | 1.329*                                                    |                                                  |                       |       |
| 36 to 40 Years       161       8.34       196       7.58       1.164       22.647         41 to 45 Years       188       8.22       200       7.84       1.148       6.824         46 to 50 Years       185       10.28       181       7.10       1.448       57.235         51 to 55 Years       175       9.72       146       5.57       1.117       41.765         51 to 55 Years       142       7.89       142       5.57       1.417       41.765         61 to 55 Years       52       2.88       116       4.55       0.635       -2.982         71 to 75 Years       52       2.88       116       4.55       0.635       -2.982         71 to 75 Years       10       0.56       101       3.96       0.140       61.24         76 to 0 Years       7       0.39       83       3.25       0.119       -51.588         31 to 85 Years       2       0.11       4.7       1.84       0.060       -31.179         31 to 85 Years       2       0.11       4.7       1.84       0.020       -31.179         31 to 85 Years       2       0.11       4.7       1.84       0.020       -1.14 <t< td=""><td>36 to 40 Years<br/>41 to 45 Years<br/>46 to 50 Years<br/>51 to 55 Years</td><td>161<br/>148<br/>185<br/>175</td><td>8.94<br/>8.22</td><td>196</td><td></td><td></td><td>45.059</td><td></td><td></td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 36 to 40 Years<br>41 to 45 Years<br>46 to 50 Years<br>51 to 55 Years                                                                                                                                                                                                                                               | 161<br>148<br>185<br>175                                                                                                                                                                                     | 8.94<br>8.22                                                                 | 196                                                         |                                                         |                                                           | 45.059                                           |                       |       |
| 41 to 45 Years       148       8.22       200       7.94       1.048       6.824         45 to 50 Years       185       10.28       181       7.10       1.448       57.255         51 to 55 Years       175       9.72       146       5.57       1.639       7.1341         61 to 65 Years       95       5.28       138       5.41       0.975       2.412         66 to 70 Years       52       2.89       116       4.55       0.6357       -2.982         71 to 75 Years       10       0.56       101       3.96       0.140       -61.284         81 to 85 Years       2       0.11       4.7       1.96       -51.587       -2.982         10 to 55 Years       2       0.11       4.7       1.96       -51.587         11 to 75 Years       2       0.11       4.7       1.96       -51.787         81 to 85 Years       2       0.11       4.7       1.96       -51.787         81 to 85 Years       2       0.11       4.7       1.96       -51.787         Colspan="2">Display Filter Name         Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan= "2"         O for 0 for 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 41 to 45 Years<br>46 to 50 Years<br>51 to 55 Years                                                                                                                                                                                                                                                                 | 148<br>185<br>175                                                                                                                                                                                            | 8.22                                                                         |                                                             | 7.69                                                    |                                                           |                                                  |                       |       |
| 46 to 50 Years       186       1022       181       7.0       1.445       57.25         51 to 55 Years       175       9.72       146       5.73       1.585       71.941         56 to 60 Years       142       7.89       142       5.57       1.417       41.765         61 to 55 Years       95       5.28       138       5.41       0.975       2.412         56 to 07 Years       10       0.56       101       3.96       0.140       -61.244         71 to 75 Years       10       0.56       101       3.96       0.140       -61.244         76 to 80 Years       7       0.39       8.3       3.25       0.118       -51.886         31 to 85 Years       2       0.11       4.7       1.84       0.060       -31.776         18 to 85 Years       2       0.11       4.7       1.84       0.600       -31.776         19 to 91 to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 46 to 50 Years<br>51 to 55 Years                                                                                                                                                                                                                                                                                   | 185<br>175                                                                                                                                                                                                   |                                                                              | 200                                                         |                                                         | 1.164                                                     | 22.647                                           |                       |       |
| 51 to 55 Years       175       9.72       146       5.73       1.698       71.941         56 to 60 Years       142       7.89       142       5.57       1.417       41.765         61 to 65 Years       52       2.88       118       5.41       0.975       -2.412         66 to 70 Years       52       2.88       116       4.55       0.635       -2.988         71 to 75 Years       10       0.56       101       3.56       0.635       -2.988         31 to 85 Years       7       0.33       83       3.25       0.119       -51.588         31 to 85 Years       2       0.11       47       1.84       0.060       -31.176         Stor by Sum of Max Gain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 51 to 55 Years                                                                                                                                                                                                                                                                                                     | 175                                                                                                                                                                                                          | 10.28                                                                        |                                                             | 7.84                                                    | 1.048                                                     | 6.824                                            |                       |       |
| 56 to 60 Years       142       7.89       142       5.57       1.117       41.765         61 to 65 Years       95       5.28       138       5.41       0.975       2.412         66 to 70 Years       52       2.89       116       4.55       0.635'       2.9.82         71 to 75 Years       10       0.56       101       3.96       0.140       461244         81 to 85 Years       2       0.11       47       1.84       0.060       31.17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                    | [                                                                                                                                                                                                            |                                                                              | 181                                                         | 7.10                                                    | 1.448*                                                    | 57.235                                           |                       |       |
| 61 to 65 Years         96         5.28         138         5.41         0.97         1.242           66 to 70 Years         52         2.89         116         4.55         0.635*         -2.982           71 to 75 Years         10         0.56         101         3.96         0.140         -61.294           76 to 80 Years         7         0.39         83         3.25         0.119         -51.588           81 to 85 Years         2         0.11         4.7         1.84         0.060         -31.176                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                    | 142                                                                                                                                                                                                          | 9.72                                                                         | 146                                                         | 5.73                                                    | 1.698*                                                    | 71.941                                           |                       |       |
| 66 to 70 Years         52         2.89         116         4.55         0.635         2.9.82           71 to 75 Years         10         0.56         101         3.96         0.140         -61.294           76 to 80 Years         2         0.11         4.7         1.84         0.060         -31.176           81 to 85 Years         2         0.11         4.7         1.84         0.060         -31.176                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                              |                                                                              |                                                             |                                                         |                                                           |                                                  |                       |       |
| 71 to 75 Years       10       0.56       101       3.96       0.140       -61.294         76 to 80 Years       7       0.38       83       3.25       0.119       -51.588         81 to 85 Years       2       0.11       47       1.84       0.060       -31.76         Control State                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                              |                                                                              |                                                             |                                                         |                                                           |                                                  |                       |       |

## C600 CU Driver Age Range – five year intervals

#### C109 CU Driver Gender



#### C122 CU Driver Officer Opinion Alcohol



#### C123 CU Driver Officer Opinion Drugs



## C129 CU Vehicle Maneuver

| Order: Max<br>C129:CU | 2010-2014 Alabama Integrate<br>ax Gain v Descending                                                                                                          |                | Motorcyc                                                                                                    | indow <u>H</u> elp<br>cle Cause Multi Vehi | de                                      |             |                 |                               |  |  |  |  |  |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------|-------------|-----------------|-------------------------------|--|--|--|--|--|
| C129: CU              | ax Gain V Descending                                                                                                                                         |                |                                                                                                             |                                            |                                         | V V         | 1/ 1/2010       | v 12/31/2014 ∨ 👔 Number 🕨 🚯 🔮 |  |  |  |  |  |
|                       | Vehicle Maneuvers                                                                                                                                            |                | Order: Max Gain v Descending v Suppress Zero-Valued Rows Significance: Over Representation v Threshold: 2.0 |                                            |                                         |             |                 |                               |  |  |  |  |  |
| ► Mov                 | 129: CU Vehicle Maneuvers         Subset         Subset         Other         Percent         Odds Ratio         Max Gain         C129: CU Vehicle Maneuvers |                |                                                                                                             |                                            |                                         |             |                 |                               |  |  |  |  |  |
|                       | vement Essentially Straight                                                                                                                                  | 1075           | 58.81                                                                                                       | 811                                        | 32.18                                   | 1.827*      | 486.703         |                               |  |  |  |  |  |
| EO                    | Overtaking/Passing                                                                                                                                           | 156            | 8.53                                                                                                        | 20                                         | 0.79                                    | 10.753*     | 141.492         |                               |  |  |  |  |  |
| EN                    | Vegotiating a Curve                                                                                                                                          | 98             | 5.36                                                                                                        | 20                                         | 0.79                                    | 6.755*      | 83.492          |                               |  |  |  |  |  |
| Slov                  | wing/Stopping                                                                                                                                                | 165            | 9.03                                                                                                        | 119                                        | 4.72                                    | 1.911*      | 78.678          |                               |  |  |  |  |  |
| P P                   | Pass on Left                                                                                                                                                 | 6              | 0.33                                                                                                        | 2                                          | 0.08                                    | 4.136       | 4.549           |                               |  |  |  |  |  |
| PW                    | Wrong Side of Road                                                                                                                                           | 7              | 0.38                                                                                                        | 4                                          | 0.16                                    | 2.412       | 4.098           |                               |  |  |  |  |  |
| Stop                  | opped in Traffic                                                                                                                                             | 6              | 0.33                                                                                                        | 14                                         | 0.56                                    | 0.591       | -4.156          |                               |  |  |  |  |  |
| Mak                   | king U-Tum                                                                                                                                                   | 8              | 0.44                                                                                                        | 36                                         | 1.43                                    | 0.306       | -18.114         |                               |  |  |  |  |  |
| Tur                   | ming Right                                                                                                                                                   | 78             | 4.27                                                                                                        | 141                                        | 5.60                                    | 0.763       | -24.281         |                               |  |  |  |  |  |
| EO                    | Changing Lanes                                                                                                                                               | 68             | 3.72                                                                                                        | 129                                        | 5.12                                    | 0.727       | -25.576         |                               |  |  |  |  |  |
| EB                    | Entering Main Road                                                                                                                                           | 41             | 2.24                                                                                                        | 202                                        | 8.02                                    | 0.280*      | -105.530        |                               |  |  |  |  |  |
| Tur                   | ming Left                                                                                                                                                    | 120            | 6.56                                                                                                        | 1002                                       | 39.76                                   | 0.165*      | -606.848        | Sort by Sum of Max Gain       |  |  |  |  |  |
|                       | St 9                                                                                                                                                         |                |                                                                                                             |                                            |                                         |             |                 | Display Filter Name           |  |  |  |  |  |
|                       |                                                                                                                                                              |                | 2                                                                                                           |                                            | Integrated Crash Dat<br>hicle Maneuvers | а           |                 |                               |  |  |  |  |  |
|                       | 60                                                                                                                                                           |                |                                                                                                             |                                            |                                         |             |                 |                               |  |  |  |  |  |
|                       | 00                                                                                                                                                           |                |                                                                                                             |                                            |                                         |             |                 |                               |  |  |  |  |  |
|                       |                                                                                                                                                              |                |                                                                                                             |                                            |                                         |             |                 |                               |  |  |  |  |  |
|                       |                                                                                                                                                              |                |                                                                                                             |                                            |                                         |             |                 |                               |  |  |  |  |  |
|                       | 40                                                                                                                                                           |                |                                                                                                             |                                            |                                         |             |                 |                               |  |  |  |  |  |
| >                     |                                                                                                                                                              |                |                                                                                                             |                                            |                                         |             |                 |                               |  |  |  |  |  |
| Frequency             |                                                                                                                                                              |                |                                                                                                             |                                            |                                         |             |                 |                               |  |  |  |  |  |
| Lee                   |                                                                                                                                                              |                |                                                                                                             |                                            |                                         |             |                 |                               |  |  |  |  |  |
| 4                     | 20                                                                                                                                                           |                |                                                                                                             |                                            |                                         |             |                 |                               |  |  |  |  |  |
|                       |                                                                                                                                                              |                |                                                                                                             |                                            |                                         |             |                 |                               |  |  |  |  |  |
|                       |                                                                                                                                                              |                |                                                                                                             |                                            |                                         |             |                 |                               |  |  |  |  |  |
|                       |                                                                                                                                                              |                |                                                                                                             |                                            |                                         |             |                 |                               |  |  |  |  |  |
|                       | 0                                                                                                                                                            |                |                                                                                                             |                                            |                                         |             |                 |                               |  |  |  |  |  |
|                       |                                                                                                                                                              | king/Passing S | lowing/Stopping                                                                                             | P Wrong Side                               | e of Road Ma                            | king U-Turn | E Changing Lane | s Turning Left                |  |  |  |  |  |
|                       |                                                                                                                                                              |                |                                                                                                             | C129: CU                                   | Vehicle Maneuvers                       |             |                 |                               |  |  |  |  |  |

#### 🛱 CARE 10.1.0.7 - [IMPACT Results - 2010-2014 Alabama Integrated Crash Data - Motorcycle Cause Multi Vehicle AND ... **X** \_ \_ 8 × 🛃 Eile Dashboard Eilters Analysis Impact Locations Tools Window Help S. 2010-2014 Alabama Integrated Crash Data Motorcycle Cause Multi Vehicle ✓ ♥ 1/ 1/2010 √ 12/31/2014 🖡 Number 🕨 💮 🌒 Order: Max Gain ✓ Descending ✓ Suppress Zero-Valued Rows ~ Significance: Over Representation C202: CU Contributing Circumstance Subset Frequency Other Frequency Other Percent Subset Percent Max Gain 🔻 🔷 Odds Ratio 288 20.04 153 7.43 2.698\* 181.271 13.50 Misjudge Stopping Distance 194 120 5.83 2.318\* 110.291 112 7.79 10 0.49 16.056 105.024 Over Speed Limit Improper Passing 96 6.68 11 0.53 12.511 88.327 E Aggressive Operation 93 6.47 23 1.12 5.796\* 76.956 E Swerved to Avoid Vehicle 47 3.27 10 0.49 6.738 40.024 Driving too Fast for Conditions 40 2.78 4 0.19 14.335 37.210 Defective Equipment 29 2.02 12 0.58 3 4 6 4 20.629 Traveling Wrong Way/Wrong Side 30 2.09 20 0.97 2.150\* 16.049 E Other Distraction Outside the Vehi. 41 2.85 37 1.80 1.589 15.190 E Ran Traffic Signal 35 2.44 29 1.41 1.730 14.770 E Crossed Centerline 36 2.51 32 1.55 1.613 13.678 DUI 40 2.78 38 1.509 13.492 1.84 E Other Improper Action 33 2.30 28 1.36 1.690 13.468 E Over Correcting/Over Steering 12 0.84 4 0.19 4.301 9,210 E Ran Stop Sign 18 1.25 14 0.68 1.843 8.234 Sort by Sum of Max Gain 📋 🕼 | 🌚 💋 Display Filter Name 2010-2014 Alabama Integrated Crash Data C202: CU Contributing Circumstance 30 20 Frequency 10 0 E Over Correcting/Over Steering E Failed to Yield Right-of-Way from Yield Sign E Other Distraction Outside the Vehicle E Other Distraction Inside the Vehicle Unseen Object/Person/Vehicle E Aggress C202: CU Contributing Circumstance

#### C202 CU Contributing Circumstances (MC caused; < 5 excluded)

# C202 CU Contributing Circumstances (MC caused; < 5 excluded)

|                                                                                                                                                                                                                         | <u>I</u> mpact <u>L</u> ocati | ons <u>T</u> ools | <u>W</u> indow <u>H</u> elp           |                  | a - wiotorcy |                    |                      | - 8                           |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------|---------------------------------------|------------------|--------------|--------------------|----------------------|-------------------------------|--|--|--|
| 2010-2014 Alabama Integra<br>Order: Max Gain v Descending                                                                                                                                                               |                               | Motoro            | cycle Cause Multi Vehio<br>I Rows     | de               | × 9          | Significance: Over | •                    | Number ► ① ● Threshold: 2.0 ÷ |  |  |  |
| 202: CU Contributing Circumstance                                                                                                                                                                                       | Subset<br>Frequency           | Subset<br>Percent | Other<br>Frequency                    | Other<br>Percent | Odds Ratio   | Max Gain 👻 ^       | C202: CU Cor         | tributing Circumstance        |  |  |  |
| E Ran Stop Sign                                                                                                                                                                                                         | 18                            | 1.25              | 14                                    | 0.68             | 1.843        | 8.234              |                      |                               |  |  |  |
| E Other - No Improper Driving                                                                                                                                                                                           | 10                            | 0.70              | 3                                     | 0.15             | 4.778        | 7.907              |                      |                               |  |  |  |
| Improper Lane Change/Use                                                                                                                                                                                                | 54                            | 3.76              | 72                                    | 3.50             | 1.075        | 3.775              |                      |                               |  |  |  |
| P Driver Not in Control                                                                                                                                                                                                 | 7                             | 0.49              | 7                                     | 0.34             | 1.434        | 2.117              |                      |                               |  |  |  |
| E Failed to Yield Right-of-Way from Y                                                                                                                                                                                   | 5                             | 0.35              | 17                                    | 0.83             | 0.422        | -6.859             |                      |                               |  |  |  |
| E Failed to Yield Right-of-Way Makin                                                                                                                                                                                    | 5                             | 0.35              | 17                                    | 0.83             | 0.422        | -6.859             |                      |                               |  |  |  |
| Failed to Yield the Right-of-Way                                                                                                                                                                                        | 5                             | 0.35              | 17                                    | 0.83             | 0.422        | -6.859             |                      |                               |  |  |  |
| Vision Obstructed                                                                                                                                                                                                       | 15                            | 1.04              | 37                                    | 1.80             | 0.581        | -10.810            |                      |                               |  |  |  |
| E Other Failed to Yield                                                                                                                                                                                                 | 16                            | 1.11              | 42                                    | 2.04             | 0.546        | -13.298            |                      |                               |  |  |  |
| E Other Distraction Inside the Vehicle                                                                                                                                                                                  | 5                             | 0.35              | 27                                    | 1.31             | 0.265        | -13.834            |                      |                               |  |  |  |
| E Failed to Yield Right-of-Way from T                                                                                                                                                                                   | 13                            | 0.90              | 61                                    | 2.96             | 0.306        | -29.552            |                      |                               |  |  |  |
| Made Improper Turn                                                                                                                                                                                                      | 15                            | 1.04              | 67                                    | 3.25             | 0.321        | -31.737            |                      |                               |  |  |  |
| E Failed to Yield Right-of-Way from                                                                                                                                                                                     | 21                            | 1.46              | 120                                   | 5.83             | 0.251*       | -62.709            |                      |                               |  |  |  |
| E Failed to Yield Right-of-Way from S                                                                                                                                                                                   | 37                            | 2.57              | 284                                   | 13.79            | 0.187*       | -161.111           |                      |                               |  |  |  |
| Unseen Object/Person/Vehicle                                                                                                                                                                                            | 50                            | 3.48              | 340                                   | 16.50            | 0.211*       | -187.175           |                      |                               |  |  |  |
| E Failed to Yield Right-of-Way Makin                                                                                                                                                                                    | 35                            | 2.44              | 375                                   | 18.20            | 0.134*       | -226.590 🗸         | Sort by Sum o        | f Max Gain                    |  |  |  |
| ] @   & <i> </i> #                                                                                                                                                                                                      |                               |                   | 2010-2014 Alabama<br>C202: CU Contrib | -                |              |                    | ] Display Filter Nar | ne                            |  |  |  |
| 20                                                                                                                                                                                                                      |                               |                   |                                       |                  |              |                    |                      |                               |  |  |  |
|                                                                                                                                                                                                                         | ļ.                            | ushi              |                                       |                  | 0            |                    |                      |                               |  |  |  |
| E Aggressive Operation E Other Distraction E Over Correcting/Over E Failed to Yield E Other Distraction Unseen<br>Outside the Vehicle Steering Right-of-Way Inside the Vehicle Object/Person/Vehicle<br>from Yield Sign |                               |                   |                                       |                  |              |                    |                      |                               |  |  |  |

| P     | 2010-2014 Alabama Integ      | rated Crash Data ∨  | Motorcyc          | de Cause Multi Veh | icle                 | v 9              | 1/ 1/2010           | ✓ 12/31/2014 ✓ I Number ► I        |
|-------|------------------------------|---------------------|-------------------|--------------------|----------------------|------------------|---------------------|------------------------------------|
| Ordei | r: Max Gain 🗸 Descending     | V Suppr             | ess Zero-Valued F | Rows               |                      | s                | ignificance: Over F | Representation v Threshold: 2.0    |
| 224   | CU Estimated Speed at Impact | Subset<br>Frequency | Subset<br>Percent | Other<br>Frequency | Other Percent        | Odds Ratio       | Max Gain            | C224: CU Estimated Speed at Impact |
|       | 0 MPH                        | 4                   | 0.33              | 13                 | 0.76                 | 0.430            | -5.303              |                                    |
|       | 1 to 5 MPH                   | 93                  | 7.64              | 479                | 28.14                | 0.271*           | -249.786            |                                    |
|       | 6 to 10 MPH                  | 107                 | 8.78              | 385                | 22.62                | 0.388*           | -168.517            |                                    |
|       | 11 to 15 MPH                 | 94                  | 7.72              | 227                | 13.34                | 0.579*           | -68.448             |                                    |
|       | 16 to 20 MPH                 | 96                  | 7.88              | 155                | 9.11                 | 0.865            | -14.922             |                                    |
|       | 21 to 25 MPH                 | 69                  | 5.67              | 98                 | 5.76                 | 0.984            | -1.132              |                                    |
|       | 26 to 30 MPH                 | 93                  | 7.64              | 64                 | 3.76                 | 2.031*           | 47.200              |                                    |
|       | 31 to 35 MPH                 | 108                 | 8.87              | 62                 | 3.64                 | 2.434*           | 63.631              |                                    |
|       | 36 to 40 MPH                 | 84                  | 6.90              | 41                 | 2.41                 | 2.863*           | 54.659              |                                    |
|       | 41 to 45 MPH<br>46 to 50 MPH | 126                 | 10.34<br>6.32     | 54<br>28           | 3.17<br>1.65         | 3.261*<br>3.843* | 87.356<br>56.962    |                                    |
|       | 51 to 55 MPH                 | 76                  | 6.24              | 20                 | 1.65                 | 3.662*           | 55.247              |                                    |
|       | 56 to 60 MPH                 | 46                  | 3.78              | 19                 | 1.12                 | 3.383            | 32.403              |                                    |
|       | 61 to 65 MPH                 | 30                  | 2.46              | 22                 | 1.29                 | 1.906*           | 14.256              |                                    |
|       | 66 to 70 MPH                 | 34                  | 2.79              | 13                 | 0.76                 | 3.655            | 24.697              |                                    |
|       | 71 to 75 MPH                 | 13                  | 1.07              | 1                  | 0.06                 | 18.166           | 12.284              |                                    |
|       | 76 to 80 MPH                 | 25                  | 2.05              | 3                  | 0.18                 | 11.645           | 22.853              |                                    |
|       | 81 to 85 MPH                 | 4                   | 0.33              | 2                  | 0.12                 | 2.795            | 2.569               |                                    |
|       | 86 to 90 MPH                 | 11                  | 0.90              | 0                  | 0.00                 | 0.000            | 11.000              |                                    |
|       | 91 to 95 MPH                 | 2                   | 0.16              | 0                  | 0.00                 | 0.000            | 2.000               |                                    |
|       | 96 to 100 MPH                | 14                  | 1.15              | 2                  | 0.12                 | 9.782            | 12.569              |                                    |
|       | Over 100 MPH                 | 12                  | 0.99              | 2                  | 0.12                 | 8.384            | 10.569              | Sort by Sum of Max Gain            |
| C     | ) 🕸 🖉                        |                     |                   |                    |                      |                  |                     | Display Filter Name                |
|       |                              |                     | 2                 | 010-2014 Alabama   | Integrated Crash Dat | а                |                     |                                    |
|       |                              |                     |                   | C224: CU Estima    | ted Speed at Impact  |                  |                     |                                    |
|       | 40                           |                     |                   |                    |                      |                  |                     |                                    |
|       |                              |                     |                   |                    |                      |                  |                     |                                    |
|       |                              |                     |                   |                    |                      |                  |                     |                                    |
|       | è – •                        | -                   |                   |                    |                      |                  |                     |                                    |
|       | Cuene 20                     |                     |                   |                    |                      |                  |                     |                                    |
|       | £                            |                     |                   |                    |                      |                  |                     |                                    |
|       |                              |                     | -                 |                    |                      |                  |                     |                                    |
|       |                              |                     |                   |                    |                      |                  |                     |                                    |

## C224 CU Estimated Speed at Impact

### C226 CU Vehicle Damage



## **Severity Factors**

## **C026 Crash Severity**



## **C037 EMS Arrival Delay**

|      |                                       |          |                                        | 10-2014 Alabar                             |                                                      | d Crash Data                        | - Motorcycle | e Cause Multi      | i Vehicle AN      | ID — 🗖       |       |
|------|---------------------------------------|----------|----------------------------------------|--------------------------------------------|------------------------------------------------------|-------------------------------------|--------------|--------------------|-------------------|--------------|-------|
| E E  |                                       |          | Integrated Crash Data                  | Locations <u>T</u> ools <u>\</u><br>Motors | <u>V</u> indow <u>H</u> elp<br>ycle Cause Multi Vehi | de                                  | v 💡          | 1/ 1/2010          | ✓ 12/31/2014      | Number       | _ 8 × |
|      | ; Max Gain                            | ✓ Descer |                                        | Suppress Zero-Valued                       | -<br>                                                |                                     |              | Significance: Over |                   |              |       |
|      |                                       | V Descei |                                        |                                            |                                                      |                                     | E            | Significance: Over |                   | ✓ Threshold: | 2.0 🜲 |
| C037 | EMS Arrival Delay                     |          | Subset<br>Frequency                    | Subset<br>Percent                          | Other<br>Frequency                                   | Other Percent                       | Odds Ratio   | Max Gain           | C037: EMS Ar      | rival Delay  |       |
| •    | 0 to 5 minutes                        |          |                                        | 327 29.07                                  | 625                                                  | 35.65                               | 0.815*       | -74.098            |                   |              |       |
|      | 6 to 10 minutes                       |          |                                        | 366 32.53                                  | 624                                                  | 35.60                               | 0.914        | -34.456            |                   |              |       |
|      | 11 to 15 minutes                      |          | · · · · ·                              | 193 17.16                                  | 252                                                  | 14.38                               | 1.193        | 31.277             |                   |              |       |
|      | 16 to 20 minutes                      |          | ······································ | 100 8.89                                   | 100                                                  | 5.70                                | 1.558*       | 35.824             |                   |              |       |
|      | 21 to 30 minutes                      |          |                                        | 75 6.67                                    | 73                                                   | 4.16                                | 1.601*       | 28.152             |                   |              |       |
|      | 31 to 45 minutes                      |          |                                        | 23 2.04                                    | 17                                                   | 0.97                                | 2.108        | 12.090             |                   |              |       |
|      | 46 to 60 minutes                      |          |                                        | 9 0.80                                     | 3                                                    | 0.17                                | 4.675        | 7.075              |                   |              |       |
|      | 61 to 90 minutes                      |          |                                        | 4 0.36                                     | 6                                                    | 0.34                                | 1.039        | 0.149              |                   |              |       |
|      | 121 to 180 minutes                    |          |                                        | 3 0.27                                     | 2                                                    | 0.11                                | 2.337        | 1.716              |                   |              |       |
|      | Over 180 minutes                      |          |                                        | 25 2.22                                    | 50                                                   | 2.85                                | 0.779        | -7.088             | Sort by Sum       | of Max Gain  |       |
| 0    | ) 😪 🖉                                 |          |                                        |                                            |                                                      |                                     |              |                    | Display Filter Na | me           |       |
|      |                                       |          |                                        |                                            | 2010-2014 Alabama                                    | Integrated Crash Da                 | ita          |                    |                   |              |       |
|      |                                       |          |                                        |                                            | C037: EMS                                            | Arrival Delay                       |              |                    |                   |              |       |
|      | 10                                    | _        |                                        |                                            |                                                      |                                     |              |                    |                   |              | _     |
|      | 40                                    |          |                                        |                                            |                                                      |                                     |              |                    |                   |              | _     |
|      |                                       |          |                                        |                                            |                                                      |                                     |              |                    |                   |              | _     |
|      | _                                     |          |                                        |                                            |                                                      |                                     |              |                    |                   |              |       |
|      | 8                                     |          |                                        |                                            |                                                      |                                     |              |                    |                   |              |       |
|      | <u> </u>                              |          |                                        |                                            |                                                      |                                     |              |                    |                   |              |       |
|      | 7000000000000000000000000000000000000 |          |                                        |                                            |                                                      |                                     |              |                    |                   |              |       |
|      |                                       |          |                                        |                                            |                                                      |                                     |              |                    |                   |              |       |
|      | -                                     |          |                                        |                                            |                                                      |                                     |              |                    |                   |              |       |
|      | -                                     |          |                                        |                                            |                                                      |                                     |              |                    |                   |              |       |
|      | 0                                     |          | 6 to 10 minutes                        | 16 to 20                                   | minutes                                              | 31 to 45 minute                     | 0 61+        | 90 minutes         | Over 180          | minutos      |       |
|      |                                       |          | o to To minutes                        | 5 101020                                   |                                                      | 31 to 45 minute<br>MS Arrival Delay | -5 0110      | 50 minutes         | Over 160          | minutes      |       |
|      |                                       |          |                                        |                                            | C037: E                                              | INS Arrival Delay                   |              |                    |                   |              |       |

#### B CARE 10.1.0.7 - [IMPACT Results - 2010-2014 Alabama Integrated Crash Data - Motorcycle Cause Multi Vehicle vs. Mo... \_ 8 × File Dashboard <u>Filters Analysis Impact Locations Tools Window Help</u> 5 2010-2014 Alabama Integrated Crash Data Motorcycle Cause Multi Vehicle S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S 12/31/2014 🖡 Number 🕨 🚯 🌒 Order: Natural Order ✓ Suppress Zero-Valued Rows $\mathbf{v}$ Descending Significance Over Representation Threshold: 2.0 ÷ d (Includes Fatalities) Subset C053: Number of Persons Recorded Other Frequency Subset Percent Other Percent Odds Ratio Max Gain Frequency C054: Number of Motorists Recorded 743 39.52 991 35.88 1.101\* 68.460 C055: Number of Non-Motorists Record C056: Number of Pedestrians -77.193 937 49.84 0.924\* 1 Injury 1490 53.95 C057: Number of Pedacyclists 161 8.56 239 8.65 0.990 -1.679 2 Injuries C058: Number Injured (Non-Fatal) 3 Injuries 30 1.60 33 1.19 1.336 7.538 4 Injuries 4 0.21 6 0.22 0.979 -0.084 C060: Number Killed C080: CMV Involved 5 Injuries 4 0.21 2 0.07 2.938 2.639 C101: Causal Unit (CU) Type Sort by Sum of Max Gain 6 Injuries 0.05 0.04 1.469 0.319 1 1 📋 🕼 | 🆦 🖉 Display Filter Name 2010-2014 Alabama Integrated Crash Data C059: Number Injured (Includes Fatalities) 60 40 Frequ 20 0 No Injuries 1 Injury 3 Injuries 5 Injuries 2 Injuries 4 Injuries 6 Injuries C059: Number Injured (Includes Fatalities)

#### **C059** Number of Injured (Includes Fatalities)

9 cases caused by motorcycles had two fatalities

4 cases caused by non-MCs had two fatalities

For additional motorcycle information from NHTSA and other sources, see: <u>http://www.safehomealabama.gov/tag/motorcycles/</u>