

Table 1
The Highest Level View of Traffic Safety Issues in Alabama
Table 1 Specifications for 2020 HSP (GMSS Page 2)

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See the SHA Safety Topics Page for more detailed analysis of any categories in Table 1:
<http://www.safehomealabama.gov/safety-topics/>

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Introduction

Table 1 is the name given to a critical tool in Alabama traffic safety decision-making. It is aptly named in that it is recommended to be the first thing that traffic safety professionals consider then they are allocating budgets at the highest levels. Table 1 presents on one page a comparison of select types of crashes, which have been chosen by traffic safety professionals in Alabama specifically for this purpose. Recent upgrades demonstrate that Table 1 is not a fixed entity, but is one that can and should be changed as new issues emerge.

The information on each line within Table 1 is labeled as *crash categories*. It is important to recognize that these categories are not mutually exclusive – in fact, it would be difficult to find a crash that fell into only one of these categories, while it is easy to imagine crashes that fall into five or more. The categories were originally set up by a group of traffic safety professionals about two decades ago in an attempt to be as comprehensive as possible. These categories have been augmented and combined (some eliminated) over the years to better satisfy the goals of accuracy and optimization.

The major purpose of this document is to provide an understandable working definition of the crash categories of Table 1 so that it is more useful and understandable in the HSP and all other uses to which it might be applied. This has been largely in response to the many questions that come up as to what a particular crash category means. Currently Table 1 is used in the HSP, the SHSP, and most other traffic safety strategic plans (e.g., the Impaired Driving, Restraints, and Traffic Safety Information Systems Strategic Plans). It is included wherever a high-level perspective of traffic safety issues is seen to be of benefit.

This document continues by presenting the narrative description of Table 1 crash categories that will be published for all relevant FY2019 traffic safety documents. This is followed by several appendices that provide the rationale for the various categories, and these are expected to provide a basis for making additional modifications to Table 1 in the future. The following are the general topics for this appendix:

- Appendix A. Table 1 for the FY2020 HSP; now Grants Management Solution Suite (GMSS) Page 2;
- Appendix B. Table 1 for the FY2019 HSP;
- Appendix C. Changes of Position in Table 1 from CY2017 to CY2018;
- Appendix D. Technical Filter Definitions.

This document should serve the purpose of providing all input to the process of (1) understanding and using Table 1 properly, and (2) continuing to revise the definitions, modifying existing items, or the addition of new categories according to changing conditions.

Narrative Description of Categories

The purpose of these narrative descriptions is to give the non-technical user of Table 1 a simple description of each of the items so that they can better be used to make comparisons that are essential to effective resource allocations among the various categories. It is expected that these simple descriptions will become part of that section of the HSP that contains Table 1. More precise technical definitions are given in the appendices.

Unless otherwise indicated, the counts presented in Table 1 are Crashes. Exceptions are crash categories 1 and 19, which are restraint items. These two exceptions count involved persons, and an asterisk (*) is placed on these items for the footnote that describes the reason for the exception (see Table 1 in Appendix B).

The descriptions below are given in terms of the Table 1 item numbers that were used in the FY2019 HSP. A brief rationale will be given for each category so that its use can be placed into a real-world context. *The ordering within Table 1 is by the number of fatalities that were found for each category.* This ordering will change when updates to Table 1 are produced in the future, due to the changes in the categories as well and the changes in the number of fatal crashes counted within each. For a more formal and definitive description, see Appendix D.

There has been no attempt whatsoever to make these categories mutually exclusive. It is fairly easy to imagine crashes that might include five to ten of the categories simultaneously. Users of Table 1 will need to apply their knowledge of traffic crashes to estimate which of the multiple causes might be the primary cause for the fatalities or other severities indicated.

1. Seatbelt Restraint Fault*

This item records those restraint faults (generally non-use, but could be improper use) of restraint that have been found to generally result in an increase in those who are not properly restrained. It covers drivers and all occupants of age 6 and older. Those aged less than 6 are covered in Category 19, Child Restraint Fault.

2. Speed Involved

This item includes all crashes in which speed was indicated to be a factor, which is generally indicated as “Over Speed Limit.”

3. ID/DUI All Substances

This item includes all crashes in which either alcohol or any other drug was indicated to be involved in the crash.

4. Hit Obstacle on Roadside

This item includes crashes where the vehicle ran off the road and struck an object on the roadside, restricted to obstacles for which the responsible agency would have some capability to either remove or otherwise mitigate the hazard.

5. Pedestrian, Bicycle and School Bus

This filter is obsolete and is in the table now as just a place holder. Its original intention was to be a metric of younger school children involvement, but each of its constituents now has its own category.

6. Fail to Yield or “Ran” (All)

This is a new item that includes all subcategories of Failure to Yield the Right-of-Way and “Ran xxx,” such as “Ran a Stop Sign” or “Ran a Traffic Signal.” The reporting of just one or a small subset of these did not seem to be warranted since the underlying cause of such behavior is the same regardless of where it manifests itself. Since this category has changed considerably from the past, we will give the total specification for it:

- Ran Traffic Signal
- Ran Stop Sign
- Failed to Yield Right-of-Way from/to ...
 - Traffic Signal
 - Stop Sign
 - Yield Sign
 - Making Left or U-Turn
 - Making Right Turn
 - Making Right Turn on Red Signal
 - from Driveway
 - from Parked Position
 - at Uncontrolled Intersection
 - to Pedestrian in Crosswalk
- Failed to Yield the Right-of-Way (stated unqualified)
- Other Failed to Yield

7. Mature – Age > 65 Caused

This item includes all crashes in which the causal driver was of age greater than 65 (i.e., 66 or older).

8. Pedestrian Involved

This item includes all crashes that involved pedestrians in any way, independent of whether or not the pedestrian was the cause of the crash. See comment under Motorcycle Involvement, Category 9.

9. License Status Deficiency of Causal Driver

This item includes all crashes in which the causal driver had one or more of the following driver license status deficiencies: Denied, Expired, Fraudulent, Revoked, and/or Suspended. It serves

as an indicator as to whether the change of license status has a significant effect on the crash expectations of those drivers involved.

10. Wrong Way Items

All crashes where the causal vehicle is in a lane for oncoming traffic; this includes median cross-overs and also lane departures into oncoming traffic on two-lane roads. It also includes violations in no-passing zones, since these offenses would put the causal driver into oncoming traffic lanes.

11. Youth Age 16-20 Caused

This item includes all crashes caused by drivers of age 16-20 inclusive.

12. Motorcycle Involved

This item is for those crashes in which a motorcycle was involved either as the causal or the second unit in the crash.

General comment on vehicle type involvement. Discussions were conducted as to whether categories that involved vehicle types should be those “involved” or those “caused by.” It was determined that countermeasures to these crashes could, and in some cases should, impact vehicles that are not of the category type. Thus, it was felt that *all crashes* in which they were involved should be included, and not just those caused by the (drivers of the) specific vehicle type. This applies to all categories that are defined by a vehicle type, including pedestrians.

13. Aggressive Operation

This code is indicated by officers when there are two or more PCCs that are relevant and thus the indication is that the driver was under some psychological stress to disregard several safety considerations simultaneously.

14. Distracted Driving

Many different things tend to distract drivers, and this item is an attempt to count all of them. These would include distracted by: Passenger; Use of Electronic Communication Device; Use of Other Electronic Device; Fallen Object; Fatigued/Asleep; Insect/Reptile; Other Distraction Inside the Vehicle; and/or Other Distraction Outside the Vehicle. Of these Fatigued/Asleep is redundant with Drowsy Driving (see 16). For purposes of analysis, it is being left in this list to be consistent with the way it is reported on the crash report. It should be noted that Drowsy Driving may include items of fatigue and sleep that are not within the Distracted Driving category. See Category 16, which is a new category added for the most recent upgrade.

15. Drowsy Driving

This item includes any and all indications that the driver or drivers were drowsy or falling asleep.

16. Large Truck Involved

Generally, this covers all trucks larger than the typical pickup truck. The attempt here is to concentrate on the size of the truck as opposed to its function or whether it is a CMV or not (some will be; others are not). For specific details, see the filter below. See comment under Motorcycle Involvement, Category 9.

17. Utility Pole

There are many roadside obstacles that are struck by vehicles that run off the road. These are broken out since utility poles are obstacles that are of special interest to utility companies, and they can be moved or otherwise “protected.”

18. Workzone Related

There are about ten locations within a workzone in which a crash can be specified to have been located. This item includes any or all of them. The workzone does not need to be a cause of the crash in any way; the crash just needs to be located in or adjacent to the workzone.

19. Vehicle Defects (All)

This includes all reportable vehicle defects, namely: Brakes, Steering, Tire Blowout/Separation, Improper Tread Depth, Wheels, Wipers, Windows/Windshield, Mirrors, Trailer Hitch/Coupling, Power Train, Fuel System, Exhaust, Headlights, Tail Lights, Turn Signal, Suspension, Cruise Control, Body/Doors, and Other, Paper Report Archive that are no longer reported in eCrash include: Tires, Lights, Restraint System, and Cargo.

20. Vision Obscured

This covers the following situations in which vision might be obscured by something in the roadway or its environment.

C408: CU Vision Obscured By

- 2 Trees/Crops
- 3 Buildings
- 4 Embankment
- 5 Sign/Billboard
- 6 E Lights/Glare (Roadside)
- 7 Hillcrest
- 8 Curve in Road

Rationale: the vision obstructions listed are those that can be addressed by engineering types of countermeasures and thus exclude items of a temporary nature, such as obstructions caused by weather conditions. Roadway related obstructions are also included.

21. Bicycle (Pedalcycle) Involved

This is all crashes in which a pedalcycle (mostly bicycles) were involved independent of who caused the crashes. See comment under Motorcycle Involvement, Category 9.

22. Railroad Train Involved

This counts the number of crashes in which a railroad train was involved independent of who may have caused the crashes. See comment under Motorcycle Involvement, Category 9.

23. Child Restraint Fault*

This includes the child passengers aged 5 or younger who were not properly restrained.

24. Contributing Roadway Defects

Any crash where a roadway defect was noted as a Contributing Circumstance in any of the following: C015, C202 or C542 (PCC, CUCC and V2 Contributing Circumstance is equal to either:

- 1 E Roadway/Sign/Signal Defect; or
- 2 P Roadway Defect

25. School Bus Involved

This is the number of crashes that involved a school bus independent of the causal unit. See comment under Motorcycle Involvement, Category 9.

APPENDIX

The following are the general topics for the appendixes:

- Appendix A. Table 1 for the FY2019 HSP (now GMSS Page 2)
- Appendix B. Table 1 for the FY2018 HSP
- Appendix C. Changes of Position in Table 1 from CY2016 to CY2017
- Appendix D. Technical Filter Definitions

Appendix A. Table 1 for the FY2020 HSP (GMSS** Page 2)

Table 1: Top Fatality Causes; Alabama CY2018 Data

| Crash Type (Causal Driver) | Fatal Number | Fatal % | Injuries | Injury % | PDO No. | PDO % | Total |
|-------------------------------------|--------------|---------|----------|----------|---------|--------|--------|
| 1. Seat Belt Restraint Fault* | 372 | 3.67% | 4,073 | 40.14% | 5,703 | 56.20% | 10,148 |
| 2. Speed Involved | 199 | 1.94% | 3,259 | 31.85% | 6,774 | 66.20% | 10,232 |
| 3. ID/DUI All Substances | 169 | 3.05% | 2,135 | 38.59% | 3,228 | 58.35% | 5,532 |
| 4. Hit Obstacle on Roadside | 124 | 1.87% | 2,126 | 32.14% | 4,365 | 65.99% | 6,615 |
| 5. Pedestrian, Bicycle, School Bus | 117 | 7.04% | 939 | 56.53% | 605 | 36.42% | 1,661 |
| 6. Fail to Yield or "Ran ..." (All) | 114 | 0.37% | 7,676 | 24.92% | 23,010 | 74.71% | 30,800 |
| 7. Mature (65 or Older) Causal | 112 | 0.75% | 3,249 | 21.76% | 11,567 | 77.49% | 14,928 |
| 8. Pedestrian Involved | 106 | 13.97% | 621 | 81.82% | 32 | 4.22% | 759 |
| 9. License Deficiency Causal Driver | 103 | 1.59% | 2,018 | 31.22% | 4,342 | 67.18% | 6,463 |
| 10. Wrong Way Items | 99 | 2.10% | 1,042 | 22.06% | 3,582 | 75.84% | 4,723 |
| 11. Youth (16-20) Causal Driver | 86 | 0.37% | 5,110 | 21.91% | 18,129 | 77.72% | 23,325 |
| 12. Motorcycle Involved | 76 | 4.93% | 1,065 | 69.02% | 402 | 26.05% | 1,543 |
| 13. Aggressive Operation | 70 | 2.44% | 856 | 29.89% | 1,938 | 67.67% | 2,864 |
| 14. Distracted Driving | 43 | 0.29% | 3,208 | 21.93% | 11,380 | 77.78% | 14,631 |
| 15. Drowsy Driving | 38 | 1.05% | 1,383 | 38.04% | 2,215 | 60.92% | 3,636 |
| 16. Large Truck Involved | 36 | 0.52% | 1,432 | 20.49% | 5,521 | 79.00% | 6,989 |
| 17. Utility Pole | 29 | 1.15% | 877 | 34.90% | 1,607 | 63.95% | 2,513 |
| 18. Workzone Related | 27 | 0.72% | 770 | 20.50% | 2,959 | 78.78% | 3,756 |
| 19. Vehicle Defects – All | 12 | 0.36% | 690 | 20.70% | 2,631 | 78.94% | 3,333 |
| 20. Vision Obscured | 10 | 0.84% | 320 | 26.87% | 861 | 72.29% | 1,191 |
| 21. Bicycle | 9 | 3.53% | 206 | 80.78% | 40 | 15.69% | 255 |
| 22. Railroad Trains | 4 | 7.69% | 23 | 44.23% | 25 | 48.08% | 52 |
| 23. Child Restraint Fault* | 4 | 0.84% | 207 | 43.49% | 265 | 55.67% | 476 |
| 24. Roadway Defects – All | 3 | 2.34% | 28 | 21.88% | 97 | 75.78% | 128 |
| 25. School Bus Involved | 2 | 0.31% | 112 | 17.31% | 533 | 82.38% | 647 |

* All categories list the number of crashes except for the “Restraint Deficient” and “Child Restraint Deficient” categories. The restraint categories cannot accurately be measured by number of crashes so they list number of unrestrained persons for each severity classification.

** Grants Management Solution Suite

Appendix B. Table 1 for the FY2019 HSP

Table 1: Top Fatality Causes Alabama CY2017 Data

| Crash Category | Fatal | Fatal % | Injuries | Injury % | PDO | PDO % | Total |
|--------------------------------|-------|---------|----------|----------|--------|--------|--------|
| 1. Seat Belt Restraint Fault* | 409 | 3.98% | 4,112 | 40.06% | 5,744 | 55.96% | 10,265 |
| 2. Hit Obstacle on Roadside | 214 | 3.26% | 2,082 | 31.69% | 4,274 | 65.05% | 6,570 |
| 3. ID/DUI All Substances | 178 | 3.22% | 2,101 | 37.96% | 3,256 | 58.83% | 5,535 |
| 4. Speed Involved | 122 | 4.78% | 1,172 | 45.94% | 1,257 | 49.27% | 2,551 |
| 5. Pedest, Bicycle, School Bus | 119 | 7.06% | 951 | 56.44% | 615 | 36.50% | 1,685 |
| 6. Pedestrian Involved | 112 | 14.47% | 628 | 81.14% | 34 | 4.39% | 774 |
| 7. Mature (65 or Older) Causal | 97 | 0.66% | 3,297 | 22.57% | 11,212 | 76.76% | 14,606 |
| 8. License Deficiency Causal | 93 | 1.43% | 2,129 | 32.71% | 4,287 | 65.86% | 6,509 |
| 9. Large Truck Involved | 87 | 0.95% | 1,862 | 20.40% | 7,179 | 78.65% | 9,128 |
| 10. Fail to Yield or Ran (All) | 82 | 0.27% | 7,670 | 25.25% | 22,630 | 74.48% | 30,382 |
| 11. Youth (16-20) Causal Drvr | 81 | 0.35% | 5,080 | 21.84% | 18,095 | 77.81% | 23,256 |
| 12. Aggressive Operation | 81 | 3.03% | 829 | 30.97% | 1,767 | 66.01% | 2,677 |
| 13. Wrong Way Items | 79 | 1.66% | 1,081 | 22.66% | 3,611 | 75.69% | 4,771 |
| 14. Motorcycle Involved | 72 | 4.62% | 1,034 | 66.37% | 452 | 29.01% | 1,558 |
| 15. Distracted Driving | 55 | 0.38% | 3,243 | 22.28% | 11,258 | 77.34% | 14,556 |
| 16. Drowsy Driving | 40 | 1.27% | 1234 | 39.27% | 1,868 | 59.45% | 3,142 |
| 17. Utility Pole | 34 | 1.39% | 836 | 34.16% | 1,577 | 64.45% | 2,447 |
| 18. Vehicle Defects – All | 33 | 0.79% | 983 | 23.50% | 3,167 | 75.71% | 4,183 |
| 19. Work Zone Related | 25 | 0.80% | 643 | 20.70% | 2,439 | 78.50% | 3,107 |
| 20. Vision Obscured | 14 | 1.18% | 340 | 28.57% | 836 | 70.25% | 1,190 |
| 21. Child Restraint Fault* | 12 | 0.45% | 362 | 13.69% | 2,271 | 85.86% | 2,645 |
| 22. Bicycle | 6 | 2.25% | 201 | 75.28% | 60 | 22.47% | 267 |
| 23. Railroad Trains | 4 | 8.70% | 17 | 36.96% | 25 | 54.35% | 46 |
| 24. School Bus Involved | 1 | 0.16% | 121 | 19.30% | 505 | 80.54% | 627 |
| 25. Roadway Defects – All | 0 | 0.00% | 20 | 16.26% | 103 | 83.74% | 123 |

* All categories list number of crashes except for the “Restraint Deficient” and “Child Restraint Deficient” categories. The restraint categories cannot accurately be measured by number of crashes so they list number of unrestrained persons for each severity classification.

Appendix C. Changes of Position in Table 1 from CY2017 to CY2018 Data

| CY2017 | CY2018 | Crash Categories |
|--------|--------|------------------------------------|
| 1 | 1 | Seat Belt Restraint Fault* |
| 4 | 2 | Speed Involved |
| 3 | 3 | ID/DUI All Substances |
| 2 | 4 | Hit Obstacle on Roadside |
| 5 | 5 | Pedestrian, Bicycle, School Bus |
| 10 | 6 | Fail to Yield or “Ran ...” (All) |
| 7 | 7 | Mature (65 or Older) Causal Driver |
| 6 | 8 | Pedestrian Involved |
| 8 | 9 | License Deficiency Causal Driver |
| 13 | 10 | Wrong Way Items |
| 11 | 11 | Youth (16-20) Causal Driver |
| 14 | 12 | Motorcycle Involved |
| 12 | 13 | Aggressive Operation |
| 15 | 14 | Distracted Driving |
| 16 | 15 | Drowsy Driving |
| 9 | 16 | Large Truck Involved |
| 17 | 17 | Utility Pole |
| 19 | 18 | Work Zone Related |
| 18 | 19 | Vehicle Defects – All |
| 20 | 20 | Vision Obscured |
| 22 | 21 | Bicycle |
| 23 | 22 | Railroad Trains |
| 21 | 23 | Child Restraint Fault* |
| 25 | 24 | Roadway Defects – All |
| 24 | 25 | School Bus Involved |

Appendix D. Filter Technical Definitions

Unless otherwise indicated, the counts will be Crashes for each of the attribute values, and the filter will be in the Crash Dataset. Exceptions are Items 1 and 19, restraint items.

1. **Seatbelt Restraint Fault***

Person Dataset: passenger is age 6 or older and is not properly restrained.

P323: Person Safety Equipment = any of the following

- 1 None Used - Motor Vehicle Occupant

2. **Speed Involved**

Primary Contributing Circumstance OR CU Contributing Circumstance
Over Speed Limit

3. **ID/DUI All Substances**

Use standard: DUI Alcohol or Drugs

4. **Hit Obstacle on Roadside**

C017: First Harmful Event

- 42 Collision with Tree
- 43 Collision with Utility Pole
- 44 Collision with Light Pole (Breakaway)
- 45 Collision with Light Pole (Non-Breakaway)
- 48 E Collision with Other Post/Pole/Support
- 49 Collision with Fence
- 50 Collision with Mailbox
- 52 Collision with Other Fixed Object

5. **Pedestrian, Bicycle, School Bus**

This is a placeholder for an obsolete category that is no longer applicable.

6. **Fail to Yield or “Ran” (All)**

Primary Contributing Circumstance OR CU Contributing Circumstance

- 3 E Ran Traffic Signal
- 4 E Ran Stop Sign
- 27 E Failed to Yield Right-of-Way from Traffic Signal
- 28 E Failed to Yield Right-of-Way from Stop Sign
- 29 E Failed to Yield Right-of-Way from Yield Sign
- 30 E Failed to Yield Right-of-Way Making Left or U-Turn
- 31 E Failed to Yield Right-of-Way Making Right Turn
- 32 E Failed to Yield Right-of-Way Making Right Turn on Red Signal

- 33 E Failed to Yield Right-of-Way from Driveway
- 34 E Failed to Yield Right-of-Way from Parked Position
- 35 E Failed to Yield Right-of-Way at Uncontrolled Intersection
- 36 E Failed to Yield Right-of-Way to Pedestrian in Crosswalk
- 37 Failed to Yield the Right-of-Way
- 38 E Other Failed to Yield

7. Mature – Age > 65 Caused
CU Driver Age > 65

8. Pedestrian Involved
Number of Pedestrians > 0

9. License Status Deficiency
C114: CU Driver License Status

- 3 Denied
- 4 Expired
- 5 Fraudulent
- 7 Revoked
- 8 Suspended

10. Wrong Way Items
C015 or C202 = 10 or 11 or 12 or 21

11. Youth Age 16-20 Caused
15 < CU Driver Age < 21

12. Motorcycle Involved
Causal Unit (CU) Type OR Vehicle 2 (V2) Type
Motorcycle

13. Aggressive Operation
C015 or C202 = 2

14. Distracted Driving
C015: Primary Contrib Circ OR CU Contrib Circ OR C020 E Distracted Driving Opinion

- 39 1 E Distracted by Passenger
- 40 2 E Distracted by Use of Electronic Communication Device
- 41 3 E Distracted by Use of Other Electronic Device
- 42 4 E Distracted by Fallen Object
- 43 5 E Fatigued/Asleep
- 44 6 E Distracted by Insect/Reptile
- 45 7 E Other Distraction Inside the Vehicle
- 46 8 E Other Distraction Outside the Vehicle

15. Drowsy Driving

Any asleep or fatigued options

C015=43

C020=5

C121=5 or 11 or 12

C202=43

C521=5 or 11 or 12

C542=43

16. Large Truck Involved

C101: Causal Unit (CU) Type OR Unit 2 Type:

- 7 E Single-Unit Truck (2-Axle/6-Tire)
- 8 E Single-Unit Truck (3 Axles or Less)
- 9 E Truck (6 or 7) with Trailer
- 10 E Truck Tractor Only (Bobtail)
- 11 E Tractor/Semi-Trailer
- 12 E Tractor/Doubles
- 13 E Tractor/Triples
- 15 E Other Heavy Truck (Cannot Classify)
- 17 E Mobile Home Transport

17. Utility Pole

C201: CU Vehicle First Harmful Event Location

- 43 Collision with Utility Pole

18. Workzone Related

C415: CU Workzone Related = any of the following

- 2 E Outside of the Workzone Warning Signs
- 3 E Between Warning Signs and Work Area
- 4 E In Termination Area of Workzone
- 5 E On Temporary Detour
- 6 E At Lane Shift Transition in Activity Area
- 7 E Involving Workers/Equipmt in Activity Area
- 8 E Involving Roadway Conditions in Activity Area
- 9 E Not Involving Workers/Conditions in Activity Area
- 10 E Other Workzone Area
- 14 P In/Related to Workzone*

C416: E CU Workzone Type

- 1 Other Type of Workzone
- 2 Intermittent or Moving Vehicle
- 3 Work on Shoulder or Median

- 4 Lane Shift/Crossover
 - 5 Lane Closure
 - 6 Routine Maintenance
 - 7 Major Construction Project
- C409: CU Traffic Control Device
- 1 E Workzone Signs

19. Vehicle Defects (All)

C222: CU Contributing Vehicle Defect = any of the following:

- 2 Brakes
- 3 Steering
- 4 E Tire Blowout/Separation
- 5 E Improper Tread Depth
- 6 Wheels
- 7 E Wipers
- 8 Windows/Windshield
- 9 E Mirrors
- 10 Trailer Hitch/Coupling
- 11 Power Train
- 12 Fuel System
- 13 Exhaust
- 14 E Headlights
- 15 E Tail Lights
- 16 Turn Signal
- 17 Suspension
- 18 E Cruise Control
- 19 E Body/Doors
- 20 Other
- 25 P Tires*
- 26 P Lights*
- 27 P Restraint System
- 28 P Cargo

20. Vision Obscured

C408: CU Vision Obscured By

- 2 Trees/Crops
- 3 Buildings
- 4 Embankment
- 5 Sign/Billboard
- 6 E Lights/Glare (Roadside)
- 7 Hillcrest
- 8 Curve in Road

Rationale: the vision obstructions listed are those that can be addressed by engineering types of countermeasures and thus exclude items of a temporary nature, such as obstructions caused by weather conditions. Permanent roadway related obstructions are also included.

21. Bicycle (Pedalcycle) Involved

C057: Number of Pedacyclists (note mis-spelling, omitted l) = GT 1
(1=No Pedacyclists Involved)

22. Railroad Train Involved

C061: Number of Railroad Trains = any of the following

- 2 1 Train Involved
- 3 2 or More Trains Involved

23. Child Restraint Fault*

Person Dataset: passenger is age 5 or younger and is not properly restrained.

P323: Person Safety Equipment = any one of the following:

- 1 None Used - Motor Vehicle Occupant
- 2 Shoulder and Lap Belt Used
- 3 Lap Belt Only Used
- 4 Shoulder Belt Only Used
- 8 E Forward Facing Child Safety Seat Used Improperly
- 9 E Rear Facing Child Safety Seat Used Improperly
- 10 E Child Booster Seat Used Improperly
- 12 E Child in Arms of Restrained Adult
- 13 E Child in Arms of Unrestrained Adult

24. Roadway Defects Contributed

C015: Primary Contributing Circumstance

- 1 E Roadway/Sign/Signal Defect
- 2 P Roadway Defect

C0202: CU Contributing Circumstance

- 1 E Roadway/Sign/Signal Defect
- 2 P Roadway Defect

C542: V2 Contributing Circumstance

- 1 E Roadway/Sign/Signal Defect
- 2 P Roadway Defect

25. School Bus Involved

C024: School Bus Related = any of the following

- 2 E Yes - School Bus Directly Involved
- 3 E Yes - School Bus Indirectly Involved
- 5 P Yes - School Bus Involved*

See the SHA Safety Topics Page for more detailed analysis of any categories in Table 1:
<http://www.safehomealabama.gov/safety-topics/>