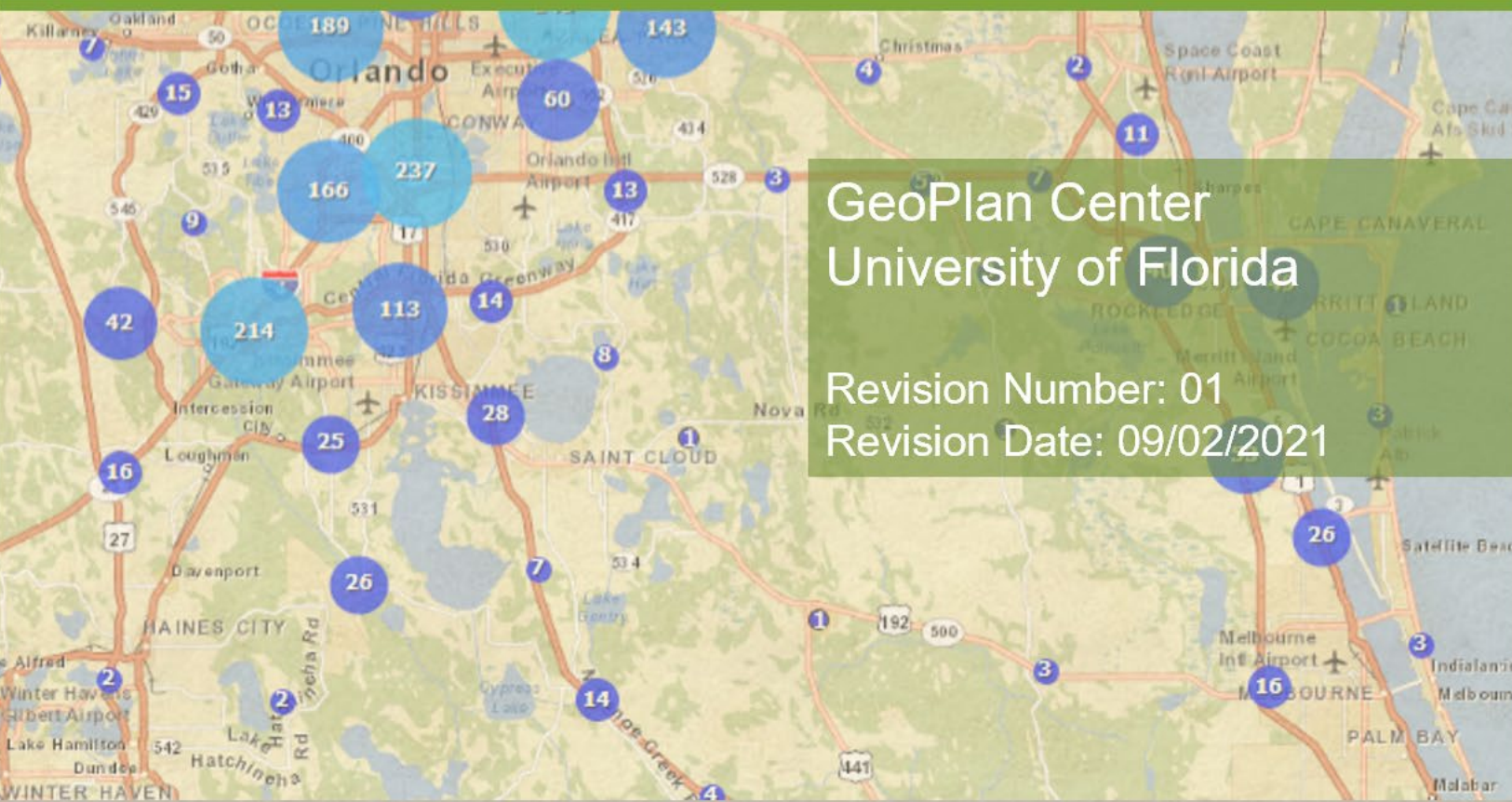


Signal Four Analytics DATA DICTIONARY



GeoPlan Center
University of Florida

Revision Number: 01
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Executive Summary

With technological advancements and rapid development of Geographic Information Systems (GIS) technologies, determining and analyzing crashes based on specific roadway environments is key to effective highway safety studies. Focusing on serious injury and fatal crash statistics using high quality crash data and accurate spatial information is critical for the traffic safety community to analyze crash data. This community may include law enforcement, traffic engineers, transportation sector, planners, research institutions and others. To encourage data accuracy, completeness, integration, and information sharing Signal Four Analytics (S4) integrates crash data through an interactive web-based platform. It not only facilitates online GIS-based mapping analysis of the crash data, but also supports both spatial and non-spatial data download for users. The major data source for S4 is the Florida Department of Highway Safety and Motor Vehicles (FHSMV) for crash data and the Florida Court Clerks Comptrollers (FCCC) for citation data. In addition, S4 maintains some crash data elements that are derived from FHSMV data elements to enhance the crash data.

The purpose of the S4 Data Dictionary is to help users better understand the data that is downloaded to the S4 application to include both published and unpublished data elements and the rationale behind the exclusions, for example elements excluded due to the element being associated with personal identifiable information(PII).

The S4 Data Dictionary First Edition is the result of a 3-month effort by the GeoPlan Center at the University of Florida. Elements are arranged into nine distinct sections: Events, Vehicles, Drivers, Passengers, Non-Motorists, Violations, Pedestrian Typing, Bicyclist Typing and Mapped Crashes. It is anticipated that the update cycle will be annual. The next update of the S4 Data Dictionary is tentatively scheduled for 2022.

Introduction

According to the National Highway Traffic Safety Administration (NHTSA), 37,461 people were killed in 34,436 motor vehicle crashes in 2016. From 2016 to 2019, the U.S. experienced three consecutive declines in roadway deaths. In 2019, an estimated 36,120 people lost their lives to roadway crashes which is a 1.2% decrease from 2018 and a 3.6% decrease from 2017. However, thirty-six thousand deaths in 2019 is still unacceptable, even if it is fewer than in years past. Well documented crash data is critical to help researchers find the patterns and correlations within the data and explain the yearly fluctuations of motor vehicle deaths and injuries, as well as to guide policy makers to develop effective strategies to reduce those deaths and injuries.

Florida's Signal Four Analytics is an interactive, web-based system designed to support the crash mapping and analysis needs of law enforcement, traffic engineering, transportation planning agencies, and research institutions in the State of Florida.

The purpose of this data dictionary is to help S4 users to better understand the data elements downloaded from Signal Four Analytics. Every data element within this data dictionary includes a definition, a set of attribute values, data source, author and comments (if applicable). For an illustrative example, see "Data Dictionary Organization". The data is divided into events, drivers, passengers, non-motorists, vehicles, violations, bicyclist typing, pedestrian typing and mapped crashes. Data elements that are not included in the Signal Four database are grayed out and indicated that they are not included.

S4 Data Processing

Figure 1 shows the data flow in S4. S4 has two major data sources, crash data, and citation data. The raw crash data is every motor vehicle crash (above a State-specified threshold) on police crash reports collected by law enforcement officials either electronically or manually. The data on each crash report is then submitted to a State’s centralized database where it is edited, reported, and analyzed by a wide range of stakeholders. S4 receives the crash report data daily from the Department of Highway Safety and Motor Vehicles(DHSMV). The traffic citation data is daily updated to S4 from Florida Court Clerks Comptrollers (FCCC).

According to various data processing, S4 maintains three types of crash-related data. The first is the mirror data elements directly from DHSMV and FCCC, i.e., driver’s date of birth. The second one is the derived data elements calculated from the mirror data. For instance, the driver’s age is calculated according to the driver’s date of birth at the time of the crash. The last type is S4 developed elements, i.e., crash’s spatial information on a map. Then users can access these data via S4.

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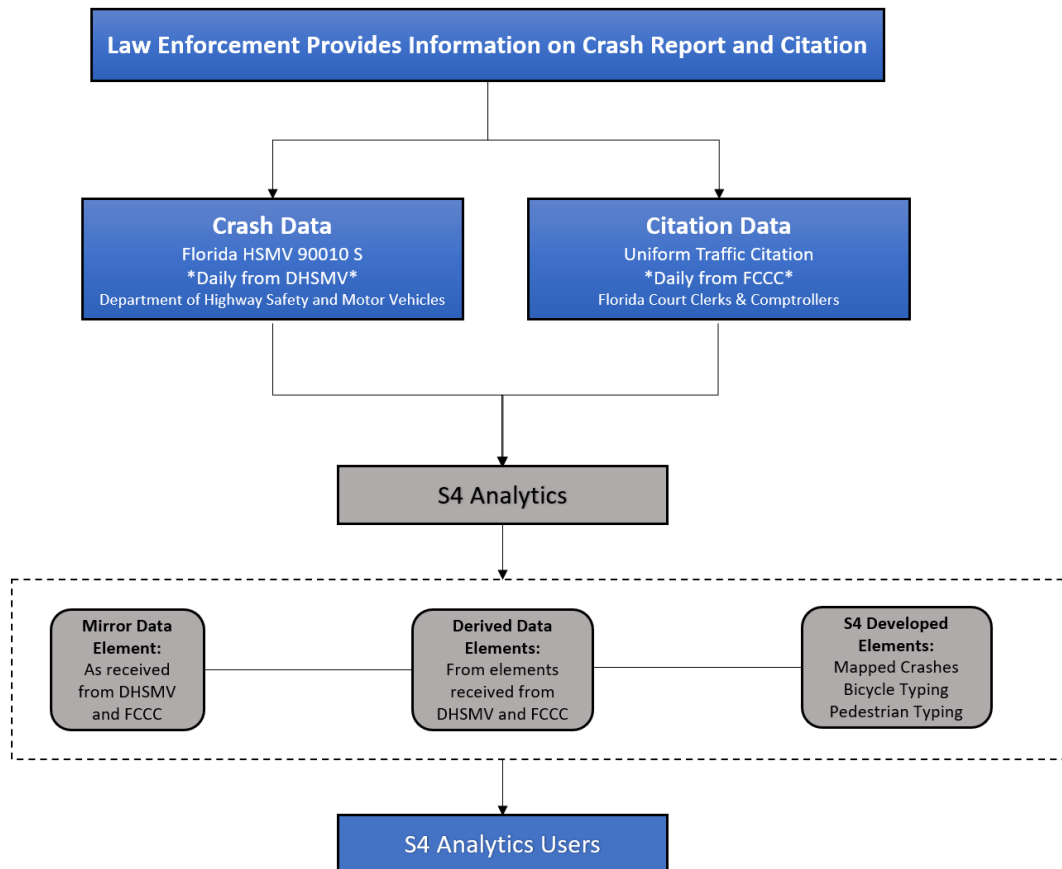


Figure 1. Diagram of S4 Data Flow

Data Dictionary Organization

The entity relationship diagram shows a high-level view of the different entities recorded in a crash event and how they interact with one another. The highlighted entities are those included in the S4 data dictionary. Each entity will contain data elements that are related to the entity.

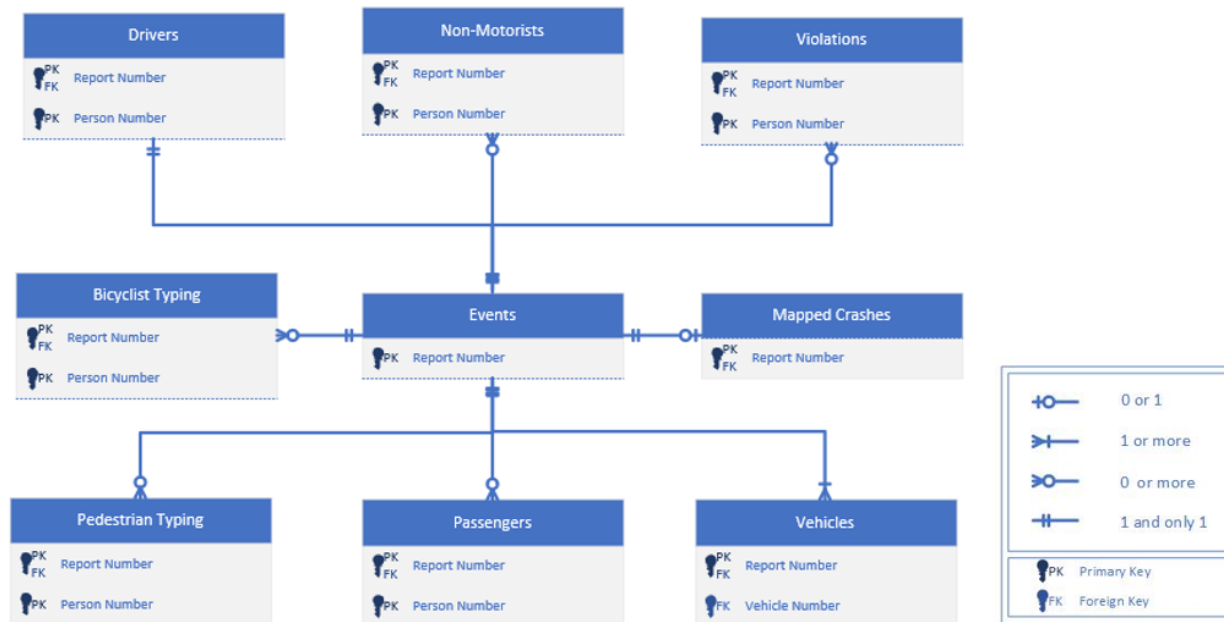


Figure 2. Sample ER Diagram

Each entity in the data dictionary is described below:

Events

Contains information about the crash event (i.e., date, time, harmful events, etc.). This is the "parent file" of the database.

Vehicles

Contains information about each vehicle involved in the crash.

Drivers

Contains information about each driver involved in the crash (demographic and causal).

Passengers

Contains information about each passenger involved in the crash (demographic and causal).

Non-Motorists

Contains information about each non-motorist involved in the crash (demographic and causal).

Violations

Contains information about citations issued to drivers or non-motorists involved in crashes (limited to the first eight citations issues per party).

Bicyclist Typing

Contains detail typing of bicycle crashes based on the federal detailed typing standard called Pedestrian Bicyclist Crash Analysis Tool (PBCAT).

Pedestrian Typing

Contains detail typing of pedestrian crashes based on the federal detailed typing standard called Pedestrian Bicyclist Crash Analysis Tool (PBCAT).

Mapped Crashes

Contains crash geographical location and additional information on mapping author, agency and coordinates.

Table Relationship

The relationship between event table and vehicle table is one to many, which means there are one or more vehicles involved in an event. The relationship between event table and driver table is one to many, which means there are one or more drivers involved in an event. The relationship between event table and passenger table is one to zero or many, which means there are zero or more passengers involved in an event. The relationship between events table and non-motorists table is one to zero or many, which means there are zero or more non-motorists involved in an event. The relationship between events table and violation table is one to zero or many, which means there are zero or more violations involved in an event. The relationship between event table and PBCAT table is one to zero or many, which means there are zero or more pedestrians or bicyclists involved in an event. The relationship between event table and mapped crash table is one to zero or one, depending on if the event is mapped or not.

Sample Page of Data Dictionary

Group+Element Number. Data Element Name

Definition:

The definition of the element.

Attributes:

Code	Code Description
1	Attribute one
2	Attribute two

Data Source: Data Source for this element.

Author: Author for this element.

Comments:

A comment about for this element.

Group + Element Number. Data Element Name

The group is one or two letters representing the table the data element belongs to.

The data element numbering system is consistent with the FHSMV data dictionary.

The data element name is the name of the data element.

A period separates the element number from the element name.

An example is E1. Report Number.

A comparison of data element element between FLHSMV and S4 is attached as an appendix.

Definition

The definition for the data element.

Attributes

A list of values associated with the data element. Not all data elements have predefined value sets.

Data Source

The data provider of the data element.

Author

The author of the data element.

Comments

Comments are provided to describe additions, changes, clarifications, or data validity constraint that defines the relationship between data elements.

Event Data Elements

E1. Report Number

Definition:

8 character Florida Department of Highway Safety and Motor Vehicles-assigned report ID.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

No Comments

E2. Crash Year

Definition:

Crash year (yyyy).

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

Year consists of finite-length characters of the form: yyyy.

yyyy - a four-digit numeral that represents the year.

E3. Crash Date and Time

Definition:

Crash date (mm/dd/yyyy) and military time.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

Date and Time consist of finite-length characters of the form: (mm/dd/yyyy).

mm- a two-digit numeral that represents the month.

dd- a two-digit numeral that represents the day.

yyyy - a four-digit numeral that represents the year.

E4. Report Date and Time

Definition:

Report date (mm/dd/yyyy) and military time.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

Date and Time consist of finite-length characters of the form: (mm/dd/yyyy).

mm- a two-digit numeral that represents the month.

dd- a two-digit numeral that represents the day.

yyyy - a four-digit numeral that represents the year.

E5. Investigating Agency Report Number

Definition:

Report number referencing the crash applied by the investigating agency.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

This is not to be confused with the DHSMV crash report #.

The Agency Report number is specific case number designated by the Agency.

E6. Form Type

Definition:

The type of the crash report form.

Attributes:

Code	Code Description
L	Long Form

S Short Form
U Update

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

No Comments

E7. Total Number of Vehicles

Definition:

Count of all vehicles involved in the crash.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

No Comments

E8. Total Number of Persons

Definition:

Count of all persons involved in the crash (drivers, passengers, and non-motorists).

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

No Comments

E9. Total Number of Narratives (Not Included)

Definition:

Number of Narratives included in crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

This data element is not included in the Signal Four database.

E10. County Code

Definition:

Florida Department of Highway Safety and Motor Vehicles code which identifies county in which crash occurred.

Attributes:

Code	Code Description
1-67	Valid
68	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

The code consists of 2 digits(See Appendix: County Code).

E11. City Code

Definition:

Florida Department of Highway Safety and Motor Vehicles code which identifies, when used in conjunction with the County Code, the city in which the crash occurred.

Attributes:

Code	Code Description
0	Unknown
1-99	Valid

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

The code consists of 2 digits(See Appendix: City Code).

E12. County Name

Definition:

County name as written on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

The attribute value is text.

E13. City Name

Definition:

City name as written on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

The attribute value is text.

E14. Rural or Urban

Definition:

Check if the traffic crash occurred inside the corporate limits of the city.

Attributes:

Code	Code Description
1	Rural
2	Urban

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

No Comments

E15. Notified Time

Definition:

Date and time notified (mm/dd/yyyy) and military time.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

Date and Time consist of finite-length characters of the form: (mm/dd/yyyy).

mm- a two-digit numeral that represents the month.

dd- a two-digit numeral that represents the day.

yyyy - a four-digit numeral that represents the year.

E16. Dispatched Time

Definition:

Date and time dispatched to scene (mm/dd/yyyy) and military time.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

Date and Time consist of finite-length characters of the form: (mm/dd/yyyy).

mm- a two-digit numeral that represents the month.

dd- a two-digit numeral that represents the day.

yyyy - a four-digit numeral that represents the year.

E17. Arrived Time

Definition:

Date and time arrive to scene (mm/dd/yyyy) and military time.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

Date and Time consist of finite-length characters of the form: (mm/dd/yyyy).

mm- a two-digit numeral that represents the month.

dd- a two-digit numeral that represents the day.

yyyy - a four-digit numeral that represents the year.

E18. Cleared Time

Definition:

Date and time cleared scene (mm/dd/yyyy) and military time.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

Date and Time consist of finite-length characters of the form: (mm/dd/yyyy).

mm- a two-digit numeral that represents the month.

dd- a two-digit numeral that represents the day.

yyyy - a four-digit numeral that represents the year.

E19. Completed Flag

Definition:

Indicates whether or not the crash investigation is complete.

Attributes:

Code	Code Description
N	No
Y	Yes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

No Comments

E20. Reason Not Completed (Not Included)

Definition:

Why report not complete. This has text when "Completed Flag =1"; none otherwise.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

The attribute value is text.

This data element is not included in the Signal Four database.

E21. Notified By

Definition:

This data element identifies that Law Enforcement is completing the traffic crash report and will notify Florida Department of Highway Safety and Motor Vehicles. (This will always be Law Enforcement).

Attributes:

Code	Code Description
1	Motorist
2	Law Enforcement

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

No Comments

E22. On Street, Road, Highway

Definition:

Indicates name of street, road or highway where the traffic crash occurred.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

The attribute value is text.

Listed with the highest class of trafficway first.

E23. Street Address Number

Definition:

The house or lot address number where crash occurred, excluding the street name .

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

The attribute value is text.

This is required if crash occurred in parking lot, up to 10 alpha numeric characters.

E24. Latitude

Definition:

Latitude where crash occurred (DD.DDDDDDD).

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

Latitude consists of a decimal number with two digits to the left of the decimal and 6 digits to the right of the decimal point (DD.DDDDDDD). Example: 29.066303.

Valid values for Florida will be positive and between 24.544110 and 31.000750

E25. Longitude

Definition:

Longitude where crash occurred (DD.DDDDDDD).

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

Latitude consists of a decimal number with two digits to the left of the decimal and 6 digits to the right of the decimal point (DD.DDDDDDD). Example: -82.177298.

Valid values for Florida will be negative and between -87.634930 and -80.031350

E26. Feet from Intersection

Definition:

Feet from mid-point of intersection(or Milepost if From Milepost indicated in stead of From Intersection Of).

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

Since E27 is not included in the Signal Four database, this element does not include Milepost information.

E27. Miles from Intersection (Not Included)

Definition:

Miles from mid-point of intersection(or Milepost if From Milepost indicated in stead of From Intersection Of).

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

This data element is not included in the Signal Four database.

E28. Direction from Intersection

Definition:

Which direction from the intersection.

Attributes:

Code	Code Description
E	East
N	North
S	South
W	West

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

No Comments

E29. From Intersection of

Definition:

Intersection at which crash occurred.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

The attribute value is text.

E30. Milepost Number

Definition:

Milepost from which crash location was measured as written on the crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

The attribute value is text.

Milepost is the approximate distance in miles (or miles and tenths) from the beginning of a section/subsection of highway.

E31. Road System Identifier

Definition:

This classification is used to identify the primary road system on which the traffic crash occurred.

Attributes:

Code	Code Description
1	Interstate
2	U.S.
3	State
4	County
5	Local
6	Turnpike/Toll
7	Forest Road
8	Private Roadway
9	Parking Lot
77	Other (Narrative may contain clarifying information)

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

Use the highest road system classification assigned to a particular street, road or highway.

E32. Type of Shoulder

Definition:

This classification is used to identify the type of roadway shoulder in the area of the traffic crash.

Attributes:

Code	Code Description
1	Paved
2	Unpaved
3	Curb

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

No Comments

E33. Type of Intersection

Definition:

An intersection consists of two or more roadways that intersect at the same level.

Attributes:

Code	Code Description
1	Not at Intersection
2	Four-Way Intersection
3	T-Intersection
4	Y-Intersection
5	Traffic Circle
6	Roundabout
7	Five-Point, or More
77	Other (Narrative may contain clarifying information)

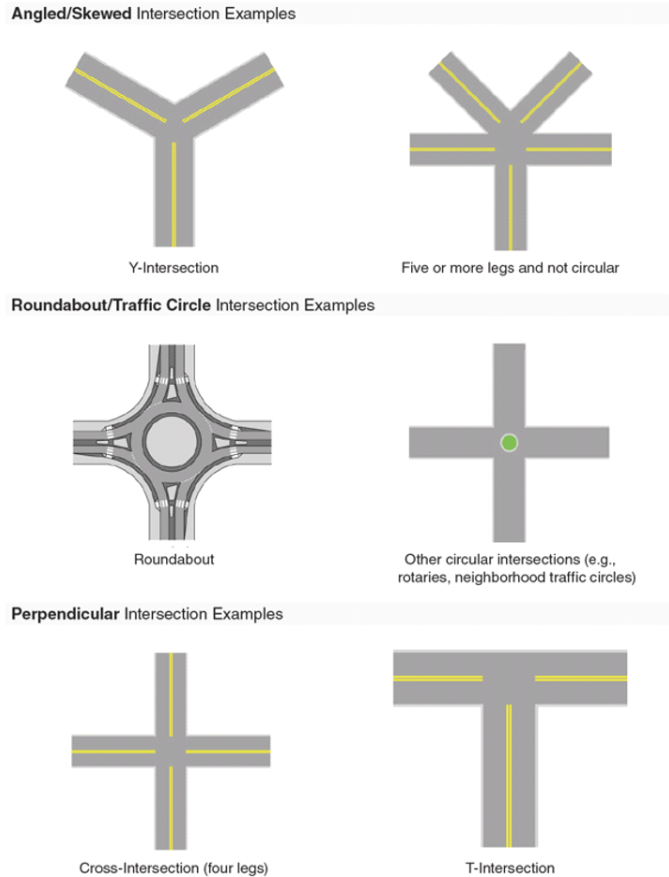
Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

See "Figure E33: Overall Intersection Geometry Examples" for examples of overall intersection geometry.

Figure E33: Overall Intersection Geometry Examples



Source: MMUCC Guideline Model Minimum Uniform Crash Criteria Fifth Edition (2017)

E34. Photos Taken

Definition:

To identify if any photos was taken in the scene.

Attributes:

Code	Code Description
N	No
Y	Yes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

No Comments

E35. Light Condition

Definition:

This classification is used to identify the lighting condition at the time of the traffic crash.

Attributes:

Code	Code Description
1	Daylight
2	Dusk
3	Dawn
4	Dark-Lighted
5	Dark-Not Lighted
6	Dark-Unknown Lighting
77	Other (Narrative may contain clarifying information)
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

No Comments

E36. Weather Condition

Definition:

This classification is used to identify the weather conditions at the time of the traffic crash.

Attributes:

Code	Code Description
1	Clear
2	Cloudy
3	Rain
4	Fog, Smog, Smoke
5	Sleet, Hail, Freezing Rain
6	Blowing Sand, Soil, Dirt
7	Severe Crosswinds
77	Other (Narrative may contain clarifying information)

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

No Comments

E37. Road Surface Condition

Definition:

This classification is used to identify the surface condition of the street, road or highway at the time of the traffic crash.

Attributes:

Code	Code Description
1	Dry
2	Wet
4	Ice/Frost
5	Oil
6	Mud, Dirt, Gravel
7	Sand
8	Water (Standing/Moving)
77	Other Explain in Narrative
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

No Comments

E38. School Bus Related Code

Definition:

This classification is used to identify school bus involvement in a traffic crash.

Attributes:

Code	Code Description
1	No
2	Yes, School Bus Directly Involved
3	Yes, School Bus Indirectly Involved

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

No Comments

E39. Type of Impact

Definition:

This classification is used to identify the manner in which two motor vehicles in transport initially came together without regard to direction or force.

Attributes:

Code	Code Description
1	Front to Rear
2	Front to Front
3	Angle
4	Sideswipe, Same Direction
5	Sideswipe, Opposite Direction
6	Rear to Side

7	Rear to Rear
77	Other (Narrative may contain clarifying information)
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

This data element refers only to traffic crashes where the first harmful event involves a collision between two motor vehicles in transport.

E40. First Harmful Event

Definition:

This classification is used to identify the first injury or damage-producing event that characterizes the traffic crash type.

Attributes:

Code	Code Description
(1-9)	Non-Collision
(10-18)	Collision Non-Fixed Object
(19-39)	Collision with Fixed Object
1	Overturn/Rollover
2	Fire/Explosion
3	Immersion
4	Jackknife
5	Cargo/Equipment Loss or Shift
6	Fell/Jumped From Motor Vehicle
7	Thrown or Falling Object
8	Ran Into Water/Canal
9	Other Non-Collision
10	Pedestrian
11	Pedalcycle
12	Railway Vehicle (train, engine)
13	Animal
14	Motor Vehicle in Transport
15	Parked Motor Vehicle
16	Work Zone/Maintenance Equipment
17	Struck by Falling, Shifting Cargo
17	Struck by Falling, Shifting Cargo
18	Other Non-Fixed Object
18	Other Non-Fixed Object
19	Impact Attenuator/Crash Cushion
20	Bridge Overhead Structure
21	Bridge Pier or Support
22	Bridge Rail
23	Culvert
24	Curb
25	Ditch
26	Embankment

27	Guardrail Face
28	Guardrail End
29	Cable Barrier
30	Concrete Traffic Barrier
31	Other Traffic Barrier
32	Tree (standing)
33	Utility Pole/Light Support
34	Traffic Sign Support
35	Traffic Signal Support
36	Other Post, Pole or Support
37	Fence
38	Mailbox
39	Other Fixed Object (wall, building,tunnel, etc.)

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

No Comments

E41. Location

Definition:

This classification is used to identify the location of the first harmful event as it relates to its position within or outside the trafficway.

Attributes:

Code	Code Description
1	On roadway
2	Off roadway
3	Shoulder
4	Median
6	Gore
7	Separator
8	In Parking Lane or Zone
9	Outside Right-of-Way
10	Roadside
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

No Comments

E42. Interchange Flag

Definition:

This classification is used to identify whether the first event occurred within an

interchange.

Attributes:

Code	Code Description
N	No
Y	Yes
[blank]	Unknown

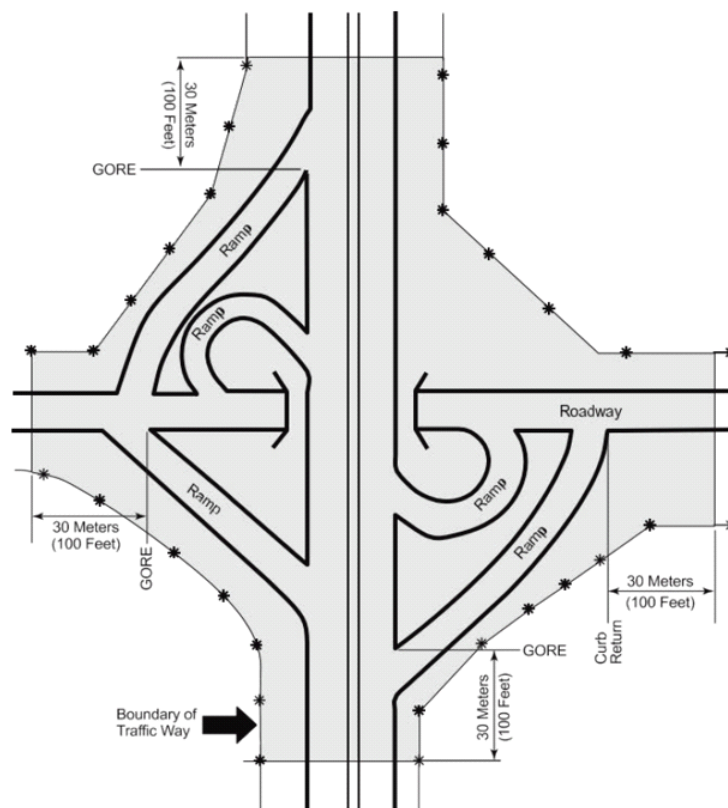
Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

See “Figure E42. Diagram of an Interchange”.

Figure E42. Diagram of an Interchange



Source: ANSI D16.2-2007 Manual on Classification of Motor Vehicle Traffic Accidents, Seventh Edition

E43. Junction Flag

Definition:

It identifies the crash’s location with respect to presence in a junction or proximity to components typically in junction or interchange areas.

Attributes:

Code	Code Description
1	Non-Junction
2	Intersection
3	Intersection-Related
4	Driveway/Alley Access Related
5	Railway Grade Crossing
14	Entrance/Exit Ramp
15	Crossover-Related
16	Shared-Use Path or Trail
17	Acceleration/Deceleration Lane
18	Through Roadway
77	Other (Narrative may contain clarifying information)
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

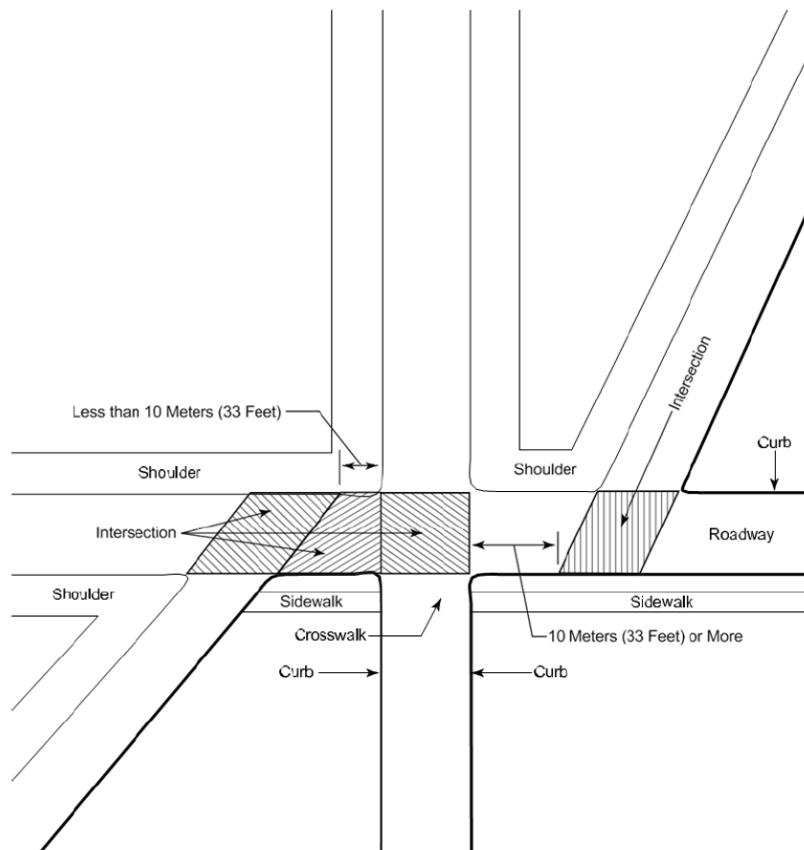
Author: Florida Law Enforcement Agency

Comments:

The coding of this data element is based on the location of the first harmful event of the crash.

See “Figure E42. Diagram of an Interchange” and “Figure E43. Diagram of an Intersection”.

Figure E43. Diagram of an Intersection



Source: ANSI D16.2-2007 Manual on Classification of Motor Vehicle Traffic Accidents, Seventh Edition

E44/E45/E46. Road Circumstances 1/2/3

Definition:

This classification is used to identify the apparent roadway condition or articles (for instance, Traffic Control Device Inoperative) which may have contributed to the traffic crash.

Attributes:

Code	Code Description
1	None
4	Work Zone (construction/maintenance/utility)
6	Shoulders (none, low, soft, high)
7	Rut, Holes, Bumps
9	Worn, Travel-Polished Surface
10	Road Surface Condition (wet, icy, snow, slush, etc.)
11	Obstruction in Roadway
12	Debris
13	Traffic Control Device Inoperative, Missing, or Obstructed
14	Non-Highway Work
77	Other (Narrative may contain clarifying information)
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

No Comments

E47/E48/E49. Environmental Circumstances 1/2/3

Definition:

This classification is used to identify the apparent environmental conditions which may have contributed to the traffic crash.

Attributes:

Code	Code Description
1	None
2	Weather Conditions
3	Physical Obstruction(s)
4	Glare
5	Animal(s) in roadway
77	Other (Narrative may contain clarifying information)
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

No Comments

E50. Work Zone Related Flag

Definition:

A crash that occurs in or related to a construction, maintenance, or utility work zone, whether or not workers were actually present at the time of the crash.

Attributes:

Code	Code Description
N	No
Y	Yes
[blank]	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

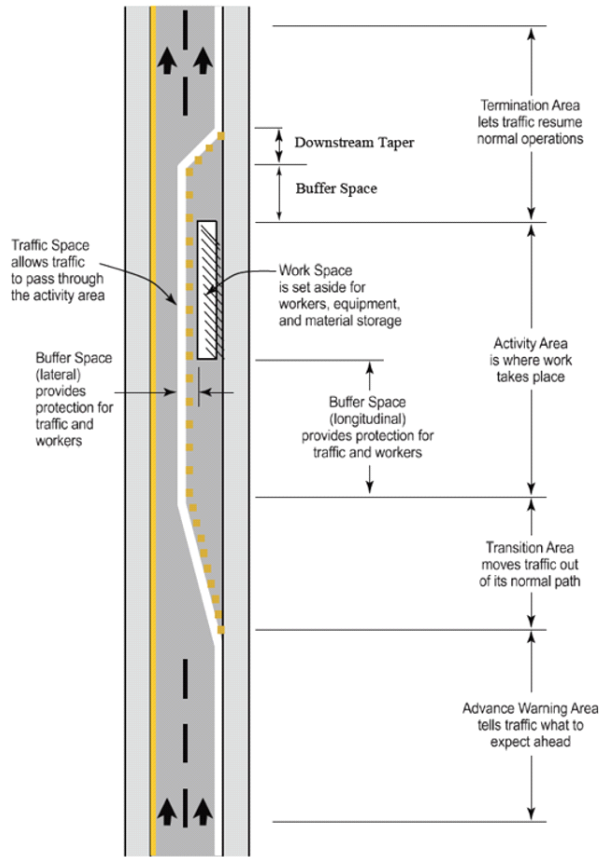
Comments:

“Work zone related” crashes may also include those involving motor vehicles slowed or stopped because of

the work zone, even if the first harmful event occurred before the first warning sign.

See “Figure E50. Diagram of a Work Zone Area” for a diagram of the work zone area.

Figure E50. Diagram of a Work Zone Area



Source: MMUCC Guideline Model Minimum Uniform Crash Criteria Fifth Edition (2017)

E51. Crash in Work Zone

Definition:

This classification is subfield 1 of 'E50. Work Zone Related Flag' and is used to identify the location of the traffic crash in relation to the work zone.

Attributes:

Code	Code Description
1	Before the First Work Zone Warning Sign
2	Advance Warning Area
3	Transition Area
4	Activity Area
5	Termination Area

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

No Comments

E52. Type of Work Zone

Definition:

This classification is subfield 2 of 'E50. Work Zone Related Flag' and is used to identify the type of work zone.

Attributes:

Code	Code Description
1	Lane Closure
2	Lane Shift/Crossover
3	Work on Shoulder or Median
4	Intermittent or Moving Work
77	Other (Narrative may contain clarifying information)

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

No Comments

E53. Workers Present

Definition:

This classification is subfield 3 of 'E50. Work Zone Related Flag' and is used to identify if there were workers present at the time of the traffic crash.

Attributes:

Code	Code Description
[blank]	Unknown
N	No
Y	Yes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

No Comments

E54. Law Enforcement Present

Definition:

This classification is subfield 4 of 'E50. Work Zone Related Flag' and is used to identify if there was a law enforcement presence in the work zone, whether it be an officer and

vehicle, or just a law enforcement vehicle at the time of the traffic crash.

Attributes:

Code	Code Description
1	No
2	Officer Present
3	Law Enforcement Vehicle Only Present

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

No Comments

E55. Investigator ID (Not Included)

Definition:

Crash Investigator's identification number or badge number.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

E56. Investigator Rank

Definition:

Crash Investigator 's rank.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

No Comments

E57. Investigator First Name (Not Included)

Definition:

Crash Investigator's first name.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

E58. Investigator Middle Name (Not Included)

Definition:

Crash Investigator's middle name.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

E59. Investigator Last Name (Not Included)

Definition:

Crash Investigator's last name.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

E60. Investigator Suffix (Not Included)

Definition:

Crash Investigator's suffix.

Attributes:

Code	Code Description
1-9	1st, 2nd, 3rd, etc
J	Junior
S	Senior

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

E61. Investigating Agency Name

Definition:

Name of Agency Crash Investigator is employed with.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

No Comments

E62. Investigating Agency Type

Definition:

The type of the investigating agency.

Attributes:

Code	Code Description
1	Florida Highway Patrol
2	County Sheriff's Office
3	City Police Department
4	Other

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

No Comments

E63. Load Date

Definition:

Date crash record was loaded into Florida Department of Highway Safety and Motor Vehicles's database.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

Date and Time consist of finite-length characters of the form: (mm/dd/yyyy).

mm- a two-digit numeral that represents the month.

dd- a two-digit numeral that represents the day.

yyyy - a four-digit numeral that represents the year.

E64. Codeable

Definition:

Codeable crashes are motor vehicle crashes resulting in death or personal injury; or motor vehicle crashes in which one or more of the some conditions occur(see the comments).

Attributes:

Code	Code Description
N	No
Y	Yes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Law Enforcement Agency

Comments:

Condition 1: leaving the scene involving damage to an attened vehicle or property(Section 316.061(1),F.S.).

Condition 2: driving while under the influence of alcoholic beverages, chemical substances, or controlled substances or with an unlawful blood alcohol level (Section 316.193, F.S.).

Condition 3: or a vehicle was rendered inperable to a degree that required a wrecker to remove it from the scene of the crash; or involved a commercial motor vehicle.

E65. S4 Crash Type

Definition:

Calculated based on a number of variables.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

See Appendix: CRASH TYPES IN SIGNAL FOUR ANALYTICS.

In the absence of any standard crash type algorithm, this proprietary algorithm was developed in collaboration with Palm Beach County Traffic Engineering

E66. S4 Crash Type Simplified

Definition:

A simplified version of S4 Crash Type, for practitioners who desire less detailed crash types.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

No Comments

E67. S4 Crash Severity

Definition:

Maximum injury severity of any crash participant, simplified to fatality, serious injury, injury and no injury.

Attributes:

Code	Code Description
	No Injury
	Injury
	Serious Injury
	Fatality

Data Source: Signal Four Analytics

Author: Signal Four Analytics

No Comments

E68. S4 Crash Severity Detail

Definition:

Maximum injury severity of any crash participant, by the six detailed injury severity codes, in order of crash severity from least to most severe.

Attributes:

Code	Code Description
1	None
2	Possible
3	Non-Incapacitating
4	Incapacitating
5	Fatal (within 30 days)
6	Non-Traffic Fatality

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

According to FDOT, the order from least to most severe is: 1, 6, 2, 3, 4, 5. Non-traffic fatalities are not reported as fatalities.

E69. S4 Day or Night

Definition:

To identify if the crash happened in the daytime or nighttime.

Attributes:

Code	Code Description
1	Day
2	Night

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

If crash time is before 7 am or 7 pm, it is considered a “Night” time crash. Any other time outside this parameter is considered a “Day” time crash.

E70. S4 Is Aggressive Driving

Definition:

To identify the presence of aggressive driving in the crash.

Attributes:

Code	Code Description
N	No
Y	Yes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

Derived by Signal4 from Driver Actions at Time of Crash 1-4.

If any driver action at time of crash = 12 - Drove Too Fast for Conditions or 17 - Exceeded Posted Speed or 31 - Operated MV in Erratic, Reckless or Aggressive Manner;

Or if any two of: 3 - Failed to Yield Right of Way; 10 - Followed Too Closely; 11 - Ran Red Light; 13 - Ran Stop Sign; 15 - Improper Passing; 25 - Failed to Keep in Proper Lane; 27 - Disregarded Other Traffic Sign; or 28 - Disregarded Other Road Markings then "Yes" , otherwise "No" for is aggressive driving.

E71. S4 Is Alcohol Related

Definition:

To identify the presence of alcohol by the driver in the crash.

Attributes:

Code	Code Description
N	No
Y	Yes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

Derived by Signal4 from Driver Alcohol Tested Code and BAC.

If any driver alcohol tested=2-Test Refused or Blood Alcohol Content (BAC)>0.0 then "Yes., otherwise "No" for is alcohol related.

This element includes both Alcohol Tested Option 2 (test refused) and results from the BAC (Blood Alcohol Content).

E72. S4 Is CMV Involved

Definition:

To identify the presence of a commercial motor vehicle is involved in the crash.

Attributes:

Code	Code Description
N	No
Y	Yes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

Derived by Signal4 from Vehicle Haz. Mat. Placard Code, Commercial Motor Vehicle Configuration Code, Check if Commercial, Vehicle Body Type and Comm GVWR/GCWR.

If any involved vehicle is Placarded (for Hazardous Materials); or commercial motor vehicle configuration is not null;

Or if the Check if Commercial check box is checked; or vehicle body type is 8 - Bus or 20 - Medium/Heavy Trucks;

Or if Gross Vehicle Weight Rating / Gross Combined Weight Rating (GVWR/GCWR) = 2 - 10,001-26,000 lbs or 3 - More than 26,000 lbs then "Yes"; otherwise "No" for is CMV related.

E73. S4 Is Distracted

Definition:

To identify the presence of driving distraction in the crash.

Attributes:

Code	Code Description
N	No
Y	Yes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

Derived by Signal4 from Driver Distracted By Code.

If any driver distracted by is other than 1 - Not Distracted; or 88 - Unknown then "Yes"; otherwise "No" for is distracted.

E74. S4 Is Drug Related

Definition:

To identify if the crash is drug related due to refusal of drug test or positive drug test of driver.

Attributes:

Code	Code Description
N	No
Y	Yes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

Derived by Signal4 from Driver Drug Tested Code and Driver Drug Test Result Code.

If any driver drug tested = 2 - Test Refused or drug test result = 1 - Positive then "Yes:, otherwise "No" for is drug related.

E75. S4 Is Hit and Run

Definition:

To identify if the crash is hit and run related.

Attributes:

Code	Code Description
N	No
Y	Yes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

If any vehicle hit and run = 2 - Yes then "Yes:, otherwise "No" for is hit and run.

E76. S4 Is Intersection Related

Definition:

To identify if the crash is intersection related.

Attributes:

Code	Code Description
N	No
Y	Yes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

Derived by Signal4 from First Harmful Event Relation to Junction Code.

If first harmful event relation to junction = 2 - Intersection or 3 - Intersection-Related or 5 - Railway Grade Crossing then "Yes; otherwise "No" for is intersection related.

E77. S4 Is Lane Departure Related

Definition:

To identify the presence of lane departure in the crash.

Attributes:

Code	Code Description
N	No
Y	Yes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

Derived by Signal4 from First Harmful Event Relation to Junction Code, Vehicle Most Harmful Event and Sequence of Events 1-4 Codes, and Driver Actions at Time of Crash 1-4 Codes.

If not intersection-related and manner or collision is one of 2 - Front to Front or 4 - Sideswipe, same direction or 5 - Sideswipe, opposite direction then "Yes"

Else if any ehicle harmful event is 1 - Overturn/Rollover or 3 - Immersion or 8 - Ran into Water/Canal or 15 - Parked Motor Vehicle or 42 - Ran Off Roadway, Right or 43 - Ran Off Roadway, Left or 44 - Cross Median or 45 - Cross Centerline or 19 - Impact Attenuator/Crash Cushion;

Or 21 - Bridge Pier or Support or 22 - Bridge Rail or 23 - Culvert or 24 - Curb or 25 - Ditch or 26 - Embankment or 27 - Guardrail Face or 28 - Guardrail End or 29 - Cable Barrier or 30 - Concrete Traffic Barrier or 31 - Other Traffic Barrier or 32 - Tree (standing);

Or 33 - Utility Pole/Light Support or 34 - Traffic Sign Support or 35 - Traffic Signal Support or 36 - Other Post, Pole or Support or 37 - Fence or 38 - Mailbox or 39 - Other Fixed Object (wall, building, tunnel, etc.) then "Yes"

Else if any driver action at time of crash is one of 15 - Improper Passing or 21 - Wrong Side or Wrong Way or 25 - Failed to Keep in Proper Lane or 26 - Ran Off Roadway or 29 - Over-Correcting/Over-Steering or 30 - Swerved or Avoided then "Yes" , otherwise "No" for is land departure related.

E78. S4 Is Speeding Related

Definition:

To identify if the crash is speed related.

Attributes:

Code	Code Description
N	No
Y	Yes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

Derived by Signal4 from Driver Actions at Time of Crash 1-4 Codes.

If any driver action at time of crash is 12 - Drove too Fast for Conditions or 17 - Exceeded Posted Speed then "Yes", otherwise "No" for is speed related.

E79. S4 None Injury Count

Definition:

Number of persons in the crash who had no injury.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

The number of persons involved in the crash who had injury severity = 1 - None.

E80. S4 Injury Count

Definition:

Number of persons in the crash who were injured or possibly injured.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

The number of persons involved in the crash who had injury severity = 2 - Possible or 3 - Non-Incapacitating or 4 - Incapacitating.

E81. S4 Possible Injury Count

Definition:

Number of persons in the crash who were possibly injured.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

The number of persons involved in the crash who had injury severity = 2 - Possible.

E82. S4 Non-Incapacitating Injury Count

Definition:

Number of persons in the crash who were injured, but did not require transport to a medical Facility.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

The number of persons involved in the crash who had injury severity = 3 - Non-Incapacitating.

E83. S4 Incapacitating Injury Count

Definition:

Number of persons in the crash who were injured, and required transport to a medical facility.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

The number of persons involved in the crash who had injury severity = 4 - Incapacitating.

E84. S4 Fatality Count

Definition:

Number of persons in the crash who died as a result of injuries sustained in the crash, within 30 days of the crash.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

The number of persons involved in the crash who had injury severity = 5 - Fatal (within 30 days) .

E85. S4 Fatality Within 30 Days Count

Definition:

Number of persons in the crash who died as a result of injuries sustained in the crash, within 30 days of the crash.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

The number of persons involved in the crash who had injury severity = 5 - Fatal (within 30 days).

E86. S4 Non-traffic Fatality Count

Definition:

Number of persons in the crash who died from a non-motor vehicle-related cause, such as a heart attack.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

The number of persons involved in the crash who had injury severity = 6 - Non-Traffic Fatality.

E87. S4 Trailer Count

Definition:

Number of trailers in the crash.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

The number of trailers involved in the crash.

E88. S4 Motorcycle Count

Definition:

Number of motorcycles in the crash.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

The number of vehicles involved in the crash that have vehicle body type = 11 - Motorcycle.

E89. S4 Moped Count

Definition:

Number of mopeds in the crash.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

The number of vehicles involved in the crash that have vehicle body type = 12 - Moped.

E90. S4 Non-motorist Count

Definition:

Number of non-motorists in the crash.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

The number of non-motorists (pedestrians, bicyclists, etc.) involved in the crash.

E91. S4 Bicyclist Count

Definition:

Number of bicyclists in the crash.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

The number of non-motorists involved in the crash who had non-motorist description = 3 - Bicyclist or 4 - Other Cyclist.

E92. S4 Pedestrian Count

Definition:

Number of pedestrians in the crash.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

The number of non-motorists involved in the crash who had non-motorist description = 1 - Pedestrian or 2 - Other Pedestrian (wheelchair, person in a building, skater, pedestrian conveyance, etc.).

E93. S4 Driver Count

Definition:

Number of drivers involved in the crash

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

No Comments

E94. S4 Aging Driver Count

Definition:

Number of aging drivers in the crash.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

The number of drivers involved in the crash whose age at time of crash is 65 or older.

E95. S4 Teenager Driver Count

Definition:

Number of teenager drivers in the crash.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

The number of drivers involved in the crash whose age at time of crash is between 15 and 19.

E96. S4 Passenger Count

Definition:

Number of passengers involved in the crash.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

No Comments

E97. S4 Unrestrained Count

Definition:

Number of motor vehicle occupants not using restraint system(s) at time of crash.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

The number of drivers and passengers who had restraint systems (RS) = 2 - None Used - Motor Vehicle Occupant.

E98. S4 Unrestrained Injury Count

Definition:

Number of motor vehicle occupants not using restraint system(s) at time of crash who were injured or possibly injured.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

The number of drivers and passengers who had restraint systems (RS) = 2 - None Used - Motor Vehicle Occupant and injury severity = 2 - Possible or 3 - Non-incapacitating or 4 - Incapacitating.

E99. S4 Unrestrained Incapacitating Injury Count

Definition:

Number of motor vehicle occupants not using restraint system(s) at time of crash who were injured and required transport to a medical facility.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

The number of drivers and passengers who had restraint systems (RS) = 2 - None Used - Motor Vehicle Occupant and injury severity = 4 - Incapacitating.

E100. S4 Unrestrained Fatality Count

Definition:

Number of motor vehicle occupants not using restraint system(s) at time of crash who died as a result of injuries sustained in the crash, within 30 days of the crash.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

The number of drivers and passengers who had restraint systems (RS) = 2 - None Used - Motor Vehicle Occupant and injury severity = 5 - Fatal (within 30 days).

E101. S4 Motorcyclist Count

Definition:

Number of motorcyclists in the crash.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

The number of motorcycle (vehicle body type = 11 - Motorcycle) drivers and passengers.

E102. S4 Motorcyclist Incapacitating Injury Count

Definition:

Number of motorcycle drivers and passengers who were injured and required transport to a medical facility.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

The number of motorcycle (vehicle body type = 11 - Motorcycle) drivers and passengers with injury severity = 4 - Incapacitating.

E103. S4 Motorcyclist Fatality Count

Definition:

Number of motorcycle drivers and passengers who died as a result of injuries sustained in the crash, within 30 days of the crash.

Attributes:

Code	Code Description
N	No
Y	Yes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

The number of motorcycle (vehicle body type = 11 - Motorcycle) drivers and passengers with injury severity = 5 Fatal (within 30 days).

E104. S4 Is Pedestrian Involved

Definition:

To identify if the crash involves a pedestrian.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

If any non-motorist description = 1 - Pedestrian or 2 - Other Pedestrian then "Yes:", otherwise "No" for is pedestrian related.

E105. S4 Pedestrian Incapacitating Injury Count

Definition:

Number of pedestrians in the crash who were injured, and required transport to a medical facility.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

The number of pedestrians (non-motorist description = 1 - Pedestrian or 2 - Other Pedestrian) with injury severity = 4 - Incapacitating.

E106. S4 Pedestrian Fatality Count

Definition:

Number of pedestrians in the crash who died as a result of injuries sustained in the crash, within 30 days of the crash.

Attributes:

Code	Code Description
------	------------------

N No
Y Yes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

The number of pedestrians (non-motorist description = 1 - Pedestrian or 2 - Other Pedestrian) with injury severity = 5 - Fatal (within 30 days).

E107. S4 Is Bicyclist Involved

Definition:

To identify if there is a bicyclist involved in the crash.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

If any non-motorist description = 3 - Bicyclist or 4 - Other Cyclist then "Yes", otherwise "No" for is bicyclist related.

E108. S4 Bicyclist Incapacitating Injury Count

Definition:

Number of bicyclists in the crash who were injured, and required transport to a medical facility.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

The number of bicyclists (non-motorist description = 3 - Bicyclist or 4 - Other Cyclist) with injury severity = 4 - Incapacitating.

E109. S4 Bicyclist Fatality Count

Definition:

Number of bicyclists in the crash who died as a result of injuries sustained in the crash,

within 30 days of the crash.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

The number of bicyclists (non-motorist description = 3 - Bicyclist or 4 - Other Cyclist) with injury severity = 5 - Fatal (within 30 days).

E110. S4 Citation Count

Definition:

Number of citations issued to all participants (drivers, passengers and non-motorists) involved in the crash.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

No Comments

E111. S4 Citation Amount

Definition:

Sum of fine amounts of all citations issued to all participants (drivers, passengers and non-motorists) involved in the crash.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

No Comments

E112. S4 Property Damage Count

Definition:

Number of non-vehicle properties damaged in the crash.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

No Comments

E113. S4 Property Damage Amount

Definition:

Sum of estimated damage amounts of all non-vehicle properties damaged in the crash.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

No Comments

E114. S4 Vehicle Damage Count

Definition:

Number of vehicles damaged in the crash.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

No Comments

E115. S4 Vehicle Damage Amount

Definition:

Sum of the estimated vehicle damage amounts in the crash.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

No Comments

E116. S4 Total Damage Amount

Definition:

Sum of the property damage amounts and vehicle damage amounts in the crash.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

No Comments

E117. S4 Transport by EMS Count

Definition:

Number of crash participants (drivers, passengers and non-motorists) transported to a medical facility by Emergency Medical Services (EMS).

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

No Comments

E118. S4 Transport by Law Enforcement Count

Definition:

Number of crash participants (drivers, passengers and non-motorists) transported to a medical facility by law enforcement.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

No Comments

E119. S4 Transport by Other Count

Definition:

Number of crash participants (drivers, passengers and non-motorists) transported to a medical facility by other than EMS or law enforcement.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

No Comments

Vehicle Data Elements

V1. Report Number

Definition:

8 character Florida Department of Highway Safety and Motor Vehicles-assigned report ID.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

V2. Crash Year

Definition:

Crash Year (yyyy).

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

Year consists of finite-length characters of the form: yyyy.

yyyy - a four-digit numeral that represents the year.

V3. Vehicle Number

Definition:

Unique number assigned to vehicle on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

V4. Owner Business Name (Not Included)

Definition:

The name of the Business as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

V5. Owner First Name (Not Included)

Definition:

First name of vehicle owner as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

V6. Owner Middle Name (Not Included)

Definition:

Middle name of vehicle owner as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

V7. Owner Last Name (Not Included)

Definition:

Last name of vehicle owner as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

V8. Owner Suffix (Not Included)

Definition:

Suffix of vehicle owner as recorded on crash report.

Attributes:

Code	Code Description
1-9	1st, 2nd, 3rd, etc.
J	Junior
S	Senior

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

V9. Owner Phone (Not Included)

Definition:

Vehicle owner's 10 digit telephone number.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

V10. Owner Address (Not Included)

Definition:

Address of vehicle owner as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

V11. Owner City

Definition:

Vehicle owner's city of residence as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

V12. Owner State

Definition:

Vehicle owner's state of residence as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

U.S. Postal Service abbreviations in capital letters.

The attribute value is text.

V13. Owner Zip Code

Definition:

Vehicle owner's zip code as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

V14. Commercial Vehicle Flag

Definition:

This data element is used to indicate if the Check if Commercial check box is checked.

Attributes:

Code	Code Description
N	No
Y	Yes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

V15. Motion Code

Definition:

This data element is used to define the motion of a vehicle.

Attributes:

Code	Code Description
1	Vehicle in Transport
2	Parked Motor Vehicle

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The term 'in transport' when applied to a motor vehicle means on a roadway or in motion within or outside the trafficway.

The term 'working vehicle' refers to a vehicle used as equipment and performing work like cutting trees, painting road lines or spreading gravel.

If a working truck is used to transport people or is in route from one place to another and is not painting lines or spreading gravel it is a 'vehicle in transport.'

V16. Tag Number (Not Included)

Definition:

Alpha-numeric license plate number on vehicle at time of crash.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

V17. State of Registration

Definition:

U.S. Postal Service abbreviations in capital letters.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

V18. Registration Expiration Date (Not Included)

Definition:

Enter date registration expires.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

Date and Time consist of finite-length characters of the form: (mm/dd/yyyy).

mm- a two-digit numeral that represents the month.

dd- a two-digit numeral that represents the day.

yyyy - a four-digit numeral that represents the year.

This data element is not included in the Signal Four database.

V19. Permanent Registration Flag

Definition:

Indicates whether or not a vehicle has a Permanent Registration.

Attributes:

Code	Code Description
N	No
Y	Yes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

V20. Vehicle Identification Number (Not Included)

Definition:

Used to identify information about a specific vehicle(make, model, year, etc.).

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

V21. Hit and Run Flag

Definition:

This data element is used to identify a hit-and-run driver. A hit-and-run driver is a driver whose vehicle collides with another attended vehicle or non-motorist or causes damage to other property and leaves the scene of a traffic crash.

Attributes:

Code	Code Description
N	No
Y	Yes
[blank]	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

V22. Vehicle Year

Definition:

Vehicle year (yyyy) refers to the Manufacturer's model year.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

Year consists of finite-length characters of the form: yyyy.

yyyy - a four-digit numeral that represents the year.

V23. Vehicle Make

Definition:

Four letter abbreviation of vehicle make. (Ex: Chev=Chevrolet, Chry=Chrysler, Niss=Nissan, etc.).

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

V24. Vehicle Model

Definition:

The manufacturer-assigned code denoting a family of motor vehicles (within a make) that have a degree of similarity in construction, such as body, chassis, etc.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

V25. Vehicle Style

Definition:

This data element describes the vehicle style for example, if the vehicle is a 2 door, 4 door, van, pick-up, etc.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

Refer to Appendix for NCIC vehicle style in the Uniform Traffic Crash Report Manual. pdf (The document link is in the appendix : Other Resouces)

V26. Vehicle Color

Definition:

Color of vehicle recorded on crash report -- 3 character abbreviation.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

Refer to Appendix for NCIC vehicle color in the Uniform Traffic Crash Report Manual. pdf (The document link is in the appendix : Other Resources)

V27. Disabling Functional Damage

Definition:

This data element is used to identify the extent of damage a motor vehicle sustained in the traffic crash.

Attributes:

Code	Code Description
1	Disabling
2	Functional
3	None
4	Minor
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

'Disabling' implies damage to the motor vehicle that is sufficient to require the motor vehicle to be towed.

V28. Estimated Vehicle Damage

Definition:

The amount of estimated damage recorded in the crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

V29. Tow Damage Code

Definition:

This data element is used to identify whether the vehicle involved in the traffic crash is towed from the scene due to disabling damage.

Attributes:

Code	Code Description
N	No
Y	Yes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

‘Yes’ is used for vehicles towed due to disabling damage in the traffic crash.

‘No’ is used for vehicles that are driven from the scene or towed for other reasons (i.e., the driver is arrested or without required license, vehicle is placed out of service because it is unsafe to drive or impounded, etc.).

Towing assistance without removal of the vehicle from the scene, such as pulling a vehicle out of a ditch, is not considered to be ‘towed’ for the purposes of this element.

V30. Tow Company Name (Not Included)

Definition:

Name of Tow company recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

This data element is not included in the Signal Four database.

V31. How Tow Responded

Definition:

Method by which tow company or wrecker service was selected.

Attributes:

Code	Code Description
1	Rotation
2	Owner Request
3	Driver
4	Other, Explain in Narrative

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

V32. Business Owned Flag

Definition:

Indicates whether the owner is a business.

Attributes:

Code	Code Description
N	No
Y	Yes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

V33. Carrier Total Axles (Not Included)

Definition:

Number of axles the vehicle has.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

This data element is not included in the Signal Four database.

V34. Vehicle Traveling

Definition:

Indicates Direction of Travel of vehicle prior to the crash.

Attributes:

Code	Code Description
E	East
N	North
S	South
W	West
[blank]	Off-Road
U	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

V35. Road On

Definition:

Indicates name of the street, road or highway vehicle was traveling on a time of crash.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

V36. Estimated MPH

Definition:

Indicates the vehicle's estimated speed prior to impact.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

V37. Posted Speed

Definition:

Speed limit for street, road or highway the vehicle was travelling on at point of crash.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is numeric.

V38. Total Number of Lanes

Definition:

Number of lanes on roadway of a street, road or highway.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

V39. Hazardous Material Released

Definition:

This data element is used to identify if the hazardous material (placarded cargo) was released from the cargo tank or compartment of the vehicle as a result of the traffic crash.

Attributes:

Code	Code Description
N	No
Y	Yes
[blank]	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

V40. Hazmat Placard

Definition:

This data element is used to identify if the vehicle carrying a hazardous material as cargo displayed a hazardous material placard as required by federal law.

Attributes:

Code	Code Description
N	No
Y	Yes
[blank]	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

V41. Hazardous Placard Number

Definition:

Identify type of hazardous material being carried.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

For more information about the hazardous material, please refer to Appendix K: Hazardous Materials in the Uniform Traffic Crash Report Manual. pdf (The document link is in the appendix : Other Resouces)

V42. Hazmat Class

Definition:

A single digit number listed in the bottom of the diamond on Hazmat Placard.

No Attributes

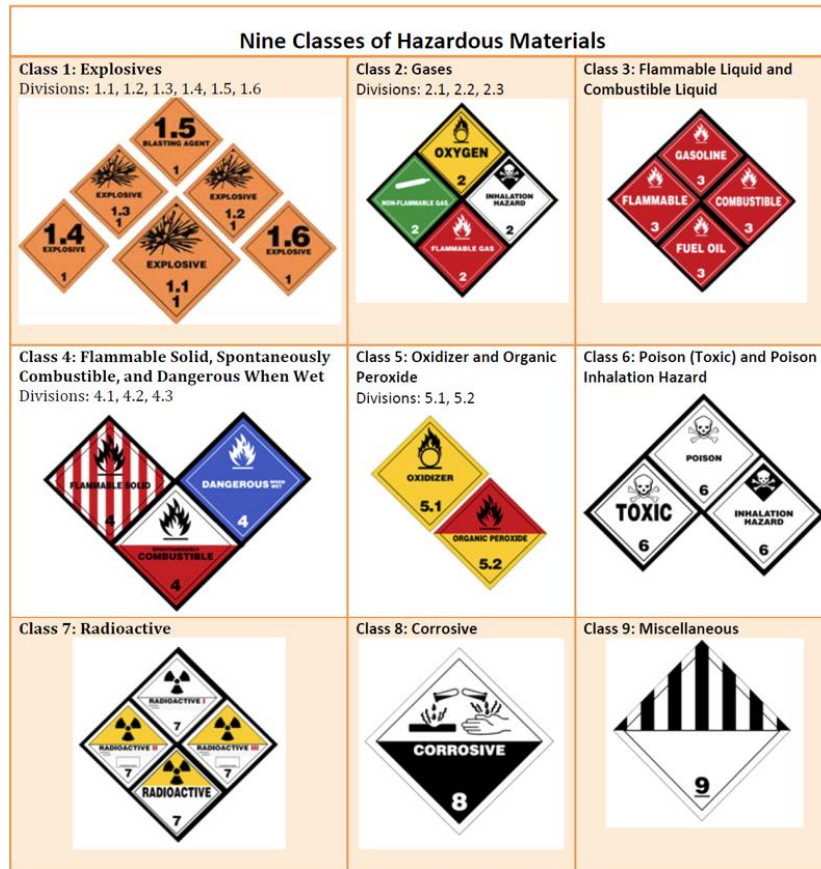
Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

Refer to "Figure V42. Nine Classes of Hazardous Materials".

Figure V42. Nine Classes of Hazardous Materials



Source: Uniform Traffic Crash Report Manual (Revised 2/5/2019)

V43. Point of Impact

Definition:

This data element is used to identify the area of initial impact. The area of initial impact is that part of the vehicle that first collides with another vehicle or object.

Attributes:

Code	Code Description
1-21	Corresponds to vehicle point of impact diagram on Florida Traffic Crash Report Form

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

Refer to Appendix: Florida Traffic Crash Report.

V44. Most Damaged Area Code

Definition:

This data element is used to identify the most damaged area sustained by the vehicle in the traffic crash.

Attributes:

Code	Code Description
1-22	Corresponds to vehicle most damaged area diagram on Florida Traffic Crash Report Form

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

Refer to Appendix: Florida Traffic Crash Report.

V45. Type of Vehicle

Definition:

This data element is used to identify the general configuration or shape of the motor vehicle distinguished by characteristics such as number of doors, rows of seats, windows, or roof line.

Attributes:

Code	Code Description
1	Passenger Car
2	Passenger Van
3	Pickup
7	Motor Home
8	Bus
11	Motorcycle
12	Moped
13	All Terrain Vehicle (ATV)
15	Low Speed Vehicle
16	(Sport) Utility Vehicle
17	Cargo Van (10,000 lbs (4,536 kg) or less)
18	Motor coach
19	Other Light Trucks (10,000 lbs (4,536 kg) or or less)
20	Medium/Heavy Trucks (more than 10000 lbs (4.536 kg))
21	Farm Labor Vehicle
77	Other (Narrative may contain clarifying information)
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles








Comments:

Personal conveyances such as skateboards, motorized toy cars, and wheelchairs are not considered motor

vehicles.

Refer to "Figure V45. FMCSA Body Types Requiring Large Vehicle and Hazardous".

Figure V45. FMCSA Body Types Requiring Large Vehicle and Hazardous

<p>Cargo Van</p> 	<p>9- or 12-Passenger Van or 15-Passenger Van</p> 
<p>Single-Unit Truck</p> 	
<p>Single-Unit Truck Pulling Trailer</p> 	<p>Truck Tractor</p> 
<p>Truck Tractor Pulling Trailer(s)</p> 	
<p>Mini-bus, School Bus, Transit Bus, Motorcoach, or Other Bus Type</p> 	

Source: MMUCC Guideline Model Minimum Uniform Crash Criteria Fifth Edition (2017)

V46. Trafficway Code

Definition:

This data element is used to identify whether or not the trafficway for this vehicle is divided and whether it serves one-way or two-way traffic.

Attributes:

Code	Code Description
1	Two-Way, Not Divided
2	Two-Way, Not Divided with a continuous Left
3	Two-Way, Divided, Unprotected (painted >4 feet) Median
4	Two-Way, Divided, Positive Median Barrier
5	One-Way Trafficway
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

A divided trafficway is one on which roadways for travel in opposite directions are physically separated by a median.

V47. Commercial Vehicle Configuration Code

Definition:

This data element is used to identify the general configuration of a commercial motor vehicle.

Attributes:

Code	Code Description
1	Vehicle 10000 lbs or less Placarded for Hazardous Materials
2	Single-Unit Truck (2-axle and GVWR more (4.536 kg))
3	Single-Unit Truck (3 or more axles)
4	Truck Pulling Trailer(s)
5	Truck Tractor (bobtail)
6	Truck Tractor/Semi-Trailer
7	Truck Tractor/Double Truck
8	Tractor/Triple
9	Truck more than 10000 lbs (4,536 kg), Cannot Classify
10	Bus/Large Van (seats for 9-15 occupants, including driver)
11	Bus (seats for more than 15 occupants, including driver)
77	Other (Narrative may contain clarifying information)
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

V48. Commercial Use Code

Definition:

This data element is used to identify a carrier's commercial or non-commercial status.

Attributes:

Code	Code Description
1	Interstate Carrier
2	Intrastate Carrier
3	Not in commerce/Government
4	Not in commerce/Other Truck

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

V49. Carrier Cargo Body Type

Definition:

This data element is used to identify the type of body for buses and trucks more than 10,000 lbs.

Attributes:

Code	Code Description
1	No Cargo
2	Bus
3	Van/Enclosed Box
4	Hopper
5	Pole-Trailer
6	Cargo Tank
7	Flatbed
8	Dump
9	Concrete Mixer
10	Auto Transport
11	Garbage/Refuse
12	Log
13	Intermodal Container Chassis
14	Vehicle Towing Another Vehicle
15	Not Applicable (vehicle 10000 lbs (4.536 kg) or displaying HM placard)
77	Other (Narrative may contain clarifying information)
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles















Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

If code '1: No Cargo' is used, that indicated the vehicle has no cargo body (bobtail, light motor vehicle with hazardous materials placard, etc.).

Refer to "Figure V49. FMCSA Cargo Body Types".

Figure V49. FMCSA Cargo Body Types

No Cargo Body 	Garbage/Refuse 
Auto Transporter 	Grain/Chips/Gravel 
Bus 	Intermodal Container Chassis 
Cargo Tank 	Log 
Concrete Mixer 	Pole-Trailer 
Dump 	Van/Enclosed Box 
Flatbed 	Vehicle Towing another Vehicle 

Source: MMUCC Guideline Model Minimum Uniform Crash Criteria Fifth Edition (2017)

V50. Commercial Vehicle Weight Code

Definition:

This data element is used to identify the Gross Vehicle Weight Rating (GVWR), the amount recommended by the manufacturer as the upper limit to the operational weight for a motor vehicle and any cargo (human or other) to be carried.

Attributes:

Code	Code Description
1	10000 lbs (4,536 kg) or less
2	10001-26000 lbs (4,536-11793 kg)
3	More than 26000 lbs (11,793kg)
4	Not Applicable

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

For single-unit trucks there is no difference between the GVWR and the GCWR.

For combination trucks (truck tractors pulling a single semi-trailer, truck tractors pulling a double or triple trailer, trucks pulling trailers, and trucks pulling other motor vehicles) the GCWR is the total of the GVWRs of all units on the combination.

V51. Most Harmful Event Code

Definition:

This data element is used to identify the event that resulted in the most severe injury or, if no injury, the greatest property damage involving this motor vehicle.

Attributes:

Code	Code Description
	Non-Collision
1	Overturn/Rollover
2	Fire/Explosion
3	Immersion
4	Jackknife
5	Cargo/equipment Loss or Shift
6	Fell/Jumped from Motor Vehicle
7	Thrown or Falling Object
8	Ran into Water/Canal
9	Other Non-Collision (40-46 Sequence of Events only)
40	Equipment Failure (blown tire, brake failure, etc.)
41	Separation of Units
42	Ran Off roadway, Right
43	Ran off Roadway, Left
44	Cross Median
45	Cross Centerline
46	Downhill Runaway
	Collision with Non-Fixed Object
10	Pedestrian
11	Pedalcycle
12	Railway Vehicle (train, engine)
13	Animal
14	Motor Vehicle in Transport
15	Parked Motor Vehicle
16	Work Zone/Maintenance Equipment
17	Struck by Falling, Shifting Cargo or Anything Set by Motor Vehicle
18	Other Non-Fixed Object Collision Fixed Object
19	Impact Attenuator/Crash Cushion
20	Bridge Overhead Structure
21	Bridge Pier or Support
22	Bridge Rail
23	Culvert
24	Curb
25	Ditch
26	Embankment
27	Guardrail Face
28	Guardrail End

29	Cable Barrier
30	Concrete Traffic Barrier
31	Other Traffic Barrier
32	Tree (standing)
33	Utility Pole/Light Support
34	Traffic Sign Support
35	Traffic Signal Support
36	Other Post, Pole, or Support
37	Fence
38	Mailbox
39	Other Fixed Object (wall, building, tunnel, etc.)

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

V52/V53/V54/V55. Harmful Event 1/2/3/4

Definition:

This data element is used to identify the events in sequence related to this motor vehicle, including both non-collision as well as collision events.

Attributes:

Code	Code Description
1	Overturn/Rollover
19	Impact Attenuator/Crash Cushion
20	Bridge Overhead Structure
21	Bridge Pier or Support
22	Bridge Rail
23	Culvert
24	Curb
25	Ditch
26	Embankment
27	Guardrail Face
28	Guardrail End
29	Cable Barrier
30	Concrete Traffic Barrier
31	Other Traffic Barrier
32	Tree (standing)
33	Utility Pole/Light Support
34	Traffic Sign Support
35	Traffic Signal Support
36	Other Post, Pole, or Support
37	Fence
38	Mailbox
39	Other Fixed Object (wall, building, tunnel, etc.)

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

Enter the Sequence of Events codes in order of 1st, 2nd, 3rd, and 4th in the space provided.

V56. Emergency Vehicle Use Code

Definition:

This data element indicates operation of any motor vehicle that is legally authorized by a government authority to respond to emergencies with or without the use of emergency warning equipment, such as a police vehicle, fire truck or ambulance.

Attributes:

Code	Code Description
N	No
Y	Yes
[blank]	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

Select '1: No' if the motor vehicle authorized by a government authority to respond to emergencies was not on an emergency response when involved in a crash.

Select '2: Yes' only if the motor vehicle involved in the crash was on an emergency response, regardless of whether the emergency warning equipment was in use.

V57. Roadway Grade Code

Definition:

This data element is used to identify the inclination characteristic of the roadway in the direction of travel for this vehicle.

Attributes:

Code	Code Description
1	Level
2	Hillcrest
3	Uphill
4	Downhill
5	Sag (bottom)

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

V58. Roadway Alignment Code

Definition:

This data element is used to identify the geometric or layout characteristics of the roadway in the direction of travel for this vehicle.

Attributes:

Code	Code Description
1	Straight
2	Curve Right
3	Curve Left

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

V59. Vehicle Maneuver Action

Definition:

This data element is used to identify the controlled maneuver for this motor vehicle prior to the beginning of the sequence of events.

Attributes:

Code	Code Description
1	Straight Ahead
3	Turning Left
4	Backing
5	Turning Right
6	Changing Lanes
8	Parked
10	Making U-Turn
11	Overtaking/Passing
13	Stopped in Traffic
14	Slowing
15	Negotiating a Curve
16	Leaving Traffic Lane
17	Entering Traffic Lane
77	Other (Narrative may contain clarifying information)
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

V60. Traffic Control Device

Definition:

This data element is used to identify the type of traffic control device applicable to this motor vehicle at the crash location.

Attributes:

Code	Code Description
1	No Controls
4	School Zone Sign/Device
5	Traffic control Signal
6	Stop Sign
7	Yield Sign
8	Flashing Signal
9	Railway Crossing Device
10	Person (including Flagman, Officer, Guard etc.)
13	Warning Sign
77	Other (Narrative may contain clarifying information)
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

V61. Vehicle Special Function

Definition:

This classification is used to identify the type of special function being served by this vehicle regardless of whether the function is marked on the vehicle.

Attributes:

Code	Code Description
1	No Special Function
2	Farm Vehicle
3	Police
7	Taxi
8	Military
9	Ambulance
10	Fire Truck
11	Farm Labor Transport
12	School Bus
13	Transit/Commuter bus
14	Intercity Bus
15	Charter/Tour Bus

16	Shuttle Bus
17	Farm Labor Bus
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

V62/V63. Vehicle Defect 1/2

Definition:

This data element is used to identify pre-existing defects or maintenance conditions with this vehicle that might have contributed to the crash.

Attributes:

Code	Code Description
1	None
2	Brakes
3	Tires
4	Lights (head, signal, tal)
6	Steering
7	Wipers
9	Exhaust System
10	Body, Doors
11	Power Train
12	Suspension
13	Wheels
14	Windows/Windshield
15	Mirrors
16	Truck Coupling/Trailer Hitch/Safety Chains
77	Other (Narrative may contain clarifying information)
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

V64. S4 Is Commercial Motor Vehicle

Definition:

To identify if the vehicle is a commerical motor vehicle.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

If vehicle is Placarded (for Hazardous Materials); or commercial motor vehicle configuration is not null;

Or if the Check if Commercial check box is checked; or vehicle body type is 8 - Bus or 20 - Medium/Heavy Trucks; or Gross Vehicle Weight Rating / Gross Combined Weight Rating (GVWR/GCWR) = 2 - 10,001-26,000 lbs or 3 - More than 26,000 lbs then "Yes" , otherwise "No" for is commercial motor vehicle.

Driver Data Elements

D1. Report Number

Definition:

8 character Florida Department of Highway Safety and Motor Vehicles-assigned report ID.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

D2. Crash Year

Definition:

Crash Year (yyyy).

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

Year consists of finite-length characters of the form: yyyy.

yyyy - a four-digit numeral that represents the year.

D3. Vehicle Number

Definition:

Unique number assigned to vehicle on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

D4. Person Number

Definition:

Unique number assigned to person on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

D5. Recommended Re-Exam

Definition:

Check if Recommend Driver Re-exam.

Attributes:

Code	Code Description
N	No
Y	Yes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

D6. DL Number (Not Included)

Definition:

Driver license number of the vehicle driver.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

D7. DL State

Definition:

State in which driver holds Driver License.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

U.S.Postal Service abbreviations in capital letters.

See attached state code sheet.

D8. DL Expiration (Not Included)

Definition:

Date Driver License expires (dd-MON-yyyy).

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

Date and Time consist of finite-length characters of the form: (mm/dd/yyyy).

mm- a two-digit numeral that represents the month.

dd- a two-digit numeral that represents the day.

yyyy - a four-digit numeral that represents the year.

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

D9. DL Type

Definition:

Type or class of driver license.

Attributes:

Code	Code Description
1	Class A
2	Class B

- 3 Class C
- 4 Class D/Chauffeur
- 5 Class E/Operator
- 6 Class E/Operator Restricted
- 7 None

Data Source: Florida Department of Highway Safety and Motor Vehicles

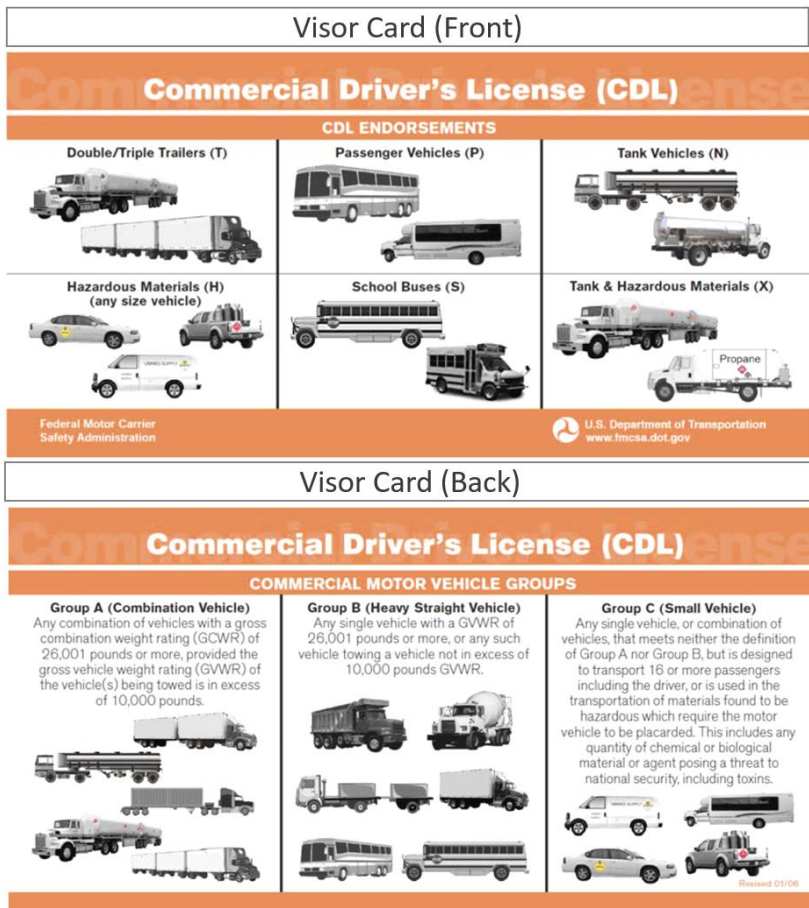
Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

See “Figure D9 FMCSA CDL Endorsements and Commercial Motor Vehicle Groups” for reference.

The driver license type (class) codes verify that the driver in question has been tested and licensed to operate certain types of vehicles.

Figure D9. FMCSA CDL Endorsements and Commercial Motor Vehicle Groups



Source: MMUCC Guideline Model Minimum Uniform Crash Criteria Fifth Edition (2017)

D10. Driver Distraction Code

Definition:

This data element is used to identify distractions which may have influenced the driver's performance.

Attributes:

Code	Code Description
1	Not Distracted
2	Electronic Communication Devices (cell phone, etc.)
3	Other Electronic Device (navigation device, DVD player)
4	Other inside the Vehicle (Explain in Narrative)
5	External Distraction (outside the vehicle, Explain in Narrative)
6	Texting
7	Inattentive

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The distractions can be inside the motor vehicle (internal) or outside the motor vehicle (external).

D11. Condition at Time of Crash

Definition:

This data element is used to identify any relevant condition of the individual (driver or non-motorist) that is directly related to the traffic crash.

Attributes:

Code	Code Description
1	Apparently Normal
3	Asleep or Fatigued
5	Ill (sick) or Fainted
6	Seizure, Epilepsy, Blackout
7	Physically Impaired
8	Emotional (depression, angry, disturbed, etc.)
9	Under the Influence of Medications/Drugs/Alcohol
77	Other (Narrative may contain clarifying information)
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

D12. Required Endorsements

Definition:

This data element is used to identify if the driver license issued to the vehicle driver required any other special endorsements for the type of vehicle being operated.

Attributes:

Code	Code Description
N	No
Y	Yes
3	No Required Endorsement

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

D13. Vision Obstructed

Definition:

This classification is used to identify if the driver's or non-motorist's vision was obstructed prior to the traffic crash.

Attributes:

Code	Code Description
1	Vision Not Obscured
2	Inclement Weather
3	Parked/Stopped Vehicle
4	Trees/Crops/Bushes
5	Load on Vehicle
6	Building/Fixed Object
7	Signs/Billboards
8	Fog
9	Smoke
10	Glare
77	All Other (Narrtive may contain clarifying information)

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

D14. Insurance Company

Definition:

Name of Insurance Company.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

D15. Policy Number (Not Included)

Definition:

Type Insurance Policy Number.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

D16. First Name (Not Included)

Definition:

Driver's first name as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

D17. Middle Name (Not Included)

Definition:

Driver's middle name as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

D18. Last Name (Not Included)

Definition:

Driver's last name as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

D19. Suffix (Not Included)

Definition:

Driver's suffix as recorded on crash report.

Attributes:

Code	Code Description
1-9	1st, 2nd, 3rd, etc.
J	Junior
S	Senior

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

D20. Phone Number (Not Included)

Definition:

Driver's 10 digit telephone number.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

D21. Address (Not Included)

Definition:

Driver's street address as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

D22. City

Definition:

Driver's city of residence as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

D23. State

Definition:

Driver's state of residence as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

U.S. Postal Service abbreviations in capital letters.

D24. Zip Code

Definition:

Driver's zip code as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

D25. Date of Birth (Not Included)

Definition:

Driver's date of birth as recorded on crash report (mm/dd/yyyy).

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

Date and Time consist of finite-length characters of the form: (mm/dd/yyyy).

mm- a two-digit numeral that represents the month.

dd- a two-digit numeral that represents the day.

yyyy - a four-digit numeral that represents the year.

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

D26. Sex

Definition:

This data element is used to identify the sex of the driver involved in the crash.

Attributes:

Code	Code Description
1	Male
2	Female
3	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

D27. Helmet Code

Definition:

This data element is used to identify the helmet use by a motorcyclist at the time of the crash. A motorcycle passenger is considered a motorcyclist.

Attributes:

Code	Code Description
1	DOT Compliant Motorcycle Helmet
2	Other Helmet
3	No Helmet

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

D28. Restraint System Code

Definition:

This data element is used to identify the restraint equipment in use by the occupant at the time of the traffic crash.

Attributes:

Code	Code Description
1	Not Applicable
2	None Used-Motor Vehicle Occupant

3	Shoulder and Lap Belt Used
4	Shoulder Belt Only Used
5	Lap Belt Only Used
6	Restraint Used - Type Unknown
7	Child Restraint System- Forward Facing
8	Child Restraint System- Rear Facing
9	Booster Seat
10	Child Restraint Type Unknown
77	Other (Narrative may contain clarifying information)

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

D29. Eye Protection Code

Definition:

This data element is used to identify if eye protection was used by a motorcyclist.

Attributes:

Code	Code Description
3	Not Applicable
N	No
Y	Yes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

D30. Air Bag Deployment Code

Definition:

This data element is used to identify a vehicle equipped with air bags and the deployment status relative to the position in the vehicle for this occupant.

Attributes:

Code	Code Description
1	Not Applicable
2	Not Deployed
3	Deployed-Front
4	Deployed-Side
5	Deployed-Other (knee, air belt, etc.)
6	Deployed-Combination
7	Deployed-Curtain

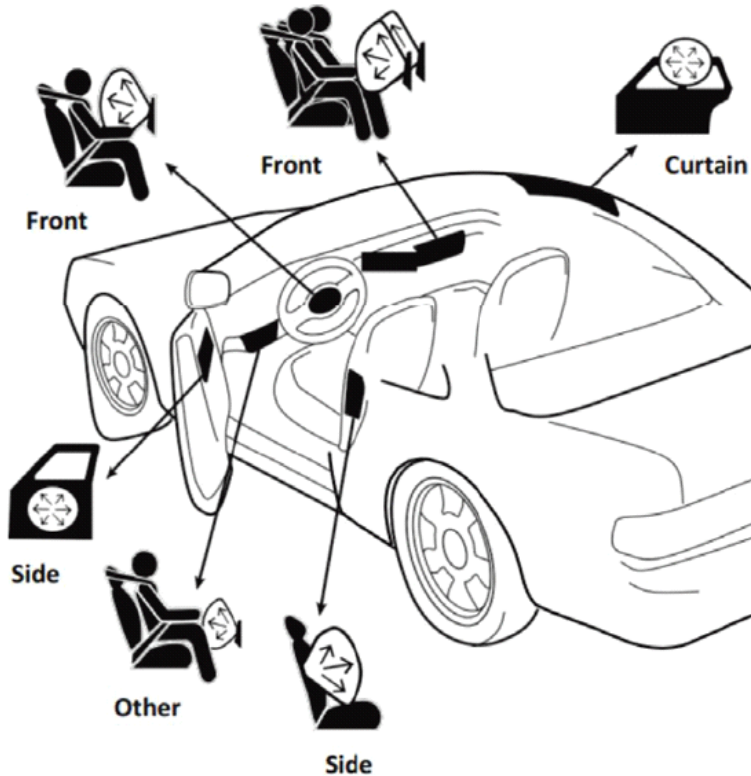
Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

See "Figure D30: Air Bag Diagram".

Figure D30. Air Bag Diagram



Source: MMUCC Guideline Model Minimum Uniform Crash Criteria Fifth Edition (2017)

D31. Ejected

Definition:

This data element is used to identify an occupant completely or partially thrown from the interior of the motor vehicle as a result of the traffic crash.

Attributes:

Code	Code Description
1	Not Ejected
2	Ejected, Totally
3	Ejected, Partially

4 Not Applicable
88 Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

D32. Suspected Alcohol Use Code

Definition:

This classification is used to identify a driver or non-motorist involved in the traffic crash suspected by law enforcement to have used alcohol.

Attributes:

Code	Code Description
N	No
Y	Yes
[blank]	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

D33. Alcohol Tested Code

Definition:

This classification is used to indicate the presence of alcohol by test.

Attributes:

Code	Code Description
1	Test Not Given
2	Test Refused
3	Test Given
88	Unknown,if Tested

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

D34. Alcohol Test Type Code

Definition:

This classification is used to indicate the presence of alcohol by test type.

Attributes:

Code	Code Description
1	Blood
2	Breath
3	Urine
77	Other (Narrative may contain clarifying information)

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

D35. Alcohol Test Results

Definition:

This classification is used to indicate the presence of alcohol by test result.

Attributes:

Code	Code Description
1	Pending
2	Completed
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

D36. Blood Alcohol Content

Definition:

The level of Alcohol in the Blood, enter the numeric number.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

D37. Suspected Drug Use Code

Definition:

This classification is used to identify a driver or non-motorist involved in the traffic crash suspected by law enforcement to have used drugs.

Attributes:

Code	Code Description
N	No
Y	Yes
[blank]	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

D38. Drug Tested Code

Definition:

This classification is used to indicate the presence of drugs by test. Excludes drugs administered post-crash.

Attributes:

Code	Code Description
1	Test Not Given
2	Test Refused
3	Test Given
88	Unknown,if Tested

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

D39. Drug Test Type Code

Definition:

This classification is used to indicate the presence of drugs by test type. Excludes drugs administered post-crash.

Attributes:

Code	Code Description
1	Blood
3	Urine
77	Other (Narrative may contain clarifying information)

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

D40. Drug Test Results

Definition:

This classification is used to indicate the presence of drugs by test result. Excludes drugs administered post-crash.

Attributes:

Code	Code Description
1	Positive
2	Negative
3	Pending
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

D41. Injury Severity

Definition:

This data element is used to identify the severity of injuries sustained by a person involved in a traffic crash.

Attributes:

Code	Code Description
1	None
2	Possible
3	Non-Incapacitating
4	Incapacitating
5	Fatal (within 30 days)
6	Non-Traffic Fatality

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

D42. EMS Transport Type

Definition:

This classification is used to identify the type and identity of the unit providing transport to the medical facility receiving the patient.

Attributes:

Code	Code Description
1	Not Transported
2	EMS
3	Law Enforcement
77	Other (Narrative may contain clarifying information)
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

D43. EMS Agency Name (Not Included)

Definition:

Name of EMS Agency that transported the injured drivers, non-motorist, or passengers to a medical facility or hospital.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

This data element is not included in the Signal Four database.

D44. EMS Run Number (Not Included)

Definition:

EMS Run Number as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

This data element is not included in the Signal Four database.

D45. Injured Taken Location (Not Included)

Definition:

Name of the hospital or facility that received the injured driver, non-motorist, or passengers.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

This data element is not included in the Signal Four database.

D46. Seat Position Code (Not Included)

Definition:

The seat location in this data element used to identify the location for this occupant in, on, or outside of the motor vehicle prior to the first event in the sequence of events.

Attributes:

Code	Code Description
	Seat Position within Row
1	Left within Row
2	Middle
3	Right
77	Other
88	Narrative may contain clarifying information

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

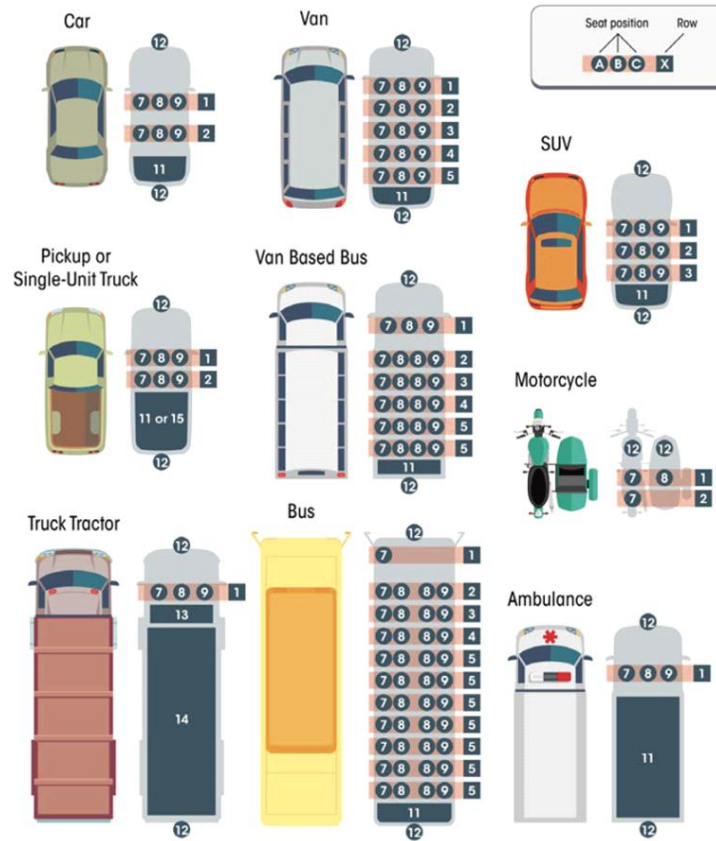
Comments:

Refer to "Figure D46. Example Seating Positions for Typical Vehicle Types" for diagram of common vehicle

types, to include ambulance seating/positioning.

This data element is not included in the Signal Four database.

Figure D46. Example Seating Positions for Typical Vehicle Types



Source: MMUCC Guideline Model Minimum Uniform Crash Criteria Fifth Edition (2017)

D47. Row Position Code (Not Included)

Definition:

The row location in this data element used to identify the location for this occupant in, on, or outside of the motor vehicle prior to the first event in the sequence of events.

Attributes:

Code	Code Description
	Row position with Vehicle
1	Front within Vehicle
2	Second
3	Third
4	Fourth
77	Other
88	Unknown Row)

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

Refer to “Figure D46. Example Seating Positions for Typical Vehicle Types” for diagram of common vehicle types, to include ambulance seating/positioning.

This data element is not included in the Signal Four database.

D48. Other Position Code (Not Included)

Definition:

The other location in this data element used to identify the location for this occupant in, on, or outside of the motor vehicle prior to the first event in the sequence of events.

Attributes:

Code	Code Description
	Non-Row/Lateral seat Position
1	Not seat Position
2	Sleeper Applicable
3	Other Section of Truck Cab
4	Unenclosed Enclosed Cargo Area
5	Trailing Cargo Area
6	Riding Unit
88	Unknown on Motor Vehicle Exterior (non-trailing unit)

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

Refer to “Figure D46. Example Seating Positions for Typical Vehicle Types” for diagram of common vehicle types, to include ambulance seating/positioning.

This data element is not included in the Signal Four database.

D49/D50/D51/D52. Driver Action 1/2/3/4

Definition:

This data element is used to identify the actions by the driver that may have contributed to the traffic crash.

Attributes:

Code	Code Description
1	No Contributing Action
2	Operated MV in Careless or Negligent Manner
3	Failed to Yield Right-of-Way

- 4 Improper Backing
- 6 Improper Turn
- 10 Followed too Closely
- 11 Ran Red Light
- 12 Drove too Fast for Conditions
- 13 Ran Stop Sign
- 15 Improper Passing
- 17 Exceeded Posted Speed
- 21 Wrong Side or Wrong Way
- 25 Failed to Keep in Proper Lane
- 26 Ran off Roadway
- 27 Disregarded other Traffic Sign
- 28 Disregarded Other Road Markings
- 29 Over-Correcting/Oversteering
- 30 Swerved or Avoided: Due to Wind, Slippery Surface, MV, Object, Non-Motorist in Roadway,
- 31 Operated MV in Erratic Reckless or Aggressive Manner
- 77 Other Contributing Action

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

This data element is based on the judgment of the LEO investigating the traffic crash and need not match Violations.

D53. S4 Age at Time of Crash

Definition:

This is the driver’s actual age, in years, at the time of crash.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

No Comments

D54. S4 Is Aggressive Driving

Definition:

To identify the presence of aggressive driving in the crash.

Attributes:

Code	Code Description
N	No
Y	Yes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

If driver action at time of crash = 12 - Drove Too Fast for Conditions or 17 - Exceeded Posted Speed or 31 - Operated MV in Erratic, Reckless or Aggressive Manner;

or If any two of: 3 - Failed to Yield Right of Way; 10 - Followed Too Closely; 11 - Ran Red Light; 13 - Ran Stop Sign; 15 - Improper Passing; 25 - Failed to Keep in Proper Lane; 27 - Disregarded Other Traffic Sign; or 28 - Disregarded Other Road Markings then "Yes" , otherwise "No" for is aggressive driving.

D55. S4 Is Alcohol Related

Definition:

To identify the presence of alcohol by the driver in the crash.

Attributes:

Code	Code Description
N	No
Y	Yes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

If driver alcohol tested = 2 - Test Refused or Blood Alcohol Content (BAC) > 0.0 then "Yes" , otherwise "No" for is alcohol related.

This element includes both Alcohol Tested Option 2 (test refused) and results from the BAC (Blood Alcohol Content).

D56. S4 Is Drug Related

Definition:

To identify if the crash is drug related due to refusal of drug test or positive drug test of driver.

Attributes:

Code	Code Description
N	No
Y	Yes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

If driver drug tested = 2 - Test Refused or drug test result = 1 - Positive then "Yes" , otherwise "No" for is drug related.

D57. S4 Is Distracted

Definition:

To identify the presence of driver distraction in the crash.

Attributes:

Code	Code Description
N	No
Y	Yes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

If driver distracted by is other than 1 - Not Distracted; or 88 - Unknown then "Yes" , otherwise "No" for is distracted.

D58. S4 Is Speeding Related

Definition:

To identify if the crash is speed related.

Attributes:

Code	Code Description
N	No
Y	Yes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

If driver action at time of crash is 12 - Drove too Fast for Conditions or 17 - Exceeded Posted Speed then "Yes" , otherwise "No" for is speeding related.

D59. S4 Is Aging Driver

Definition:

To identify if the driver is 65 or older.

Attributes:

Code	Code Description
N	No
Y	Yes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

If driver age at time of crash is 65 or older then "Yes" , otherwise "No" for is aging related.

D60. S4 Is Teenager Driver

Definition:

To identify if the driver is between 15-19 years old.

Attributes:

Code	Code Description
N	No
Y	Yes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

If driver age at time of crash is between 15 and 19 then "Yes" , otherwise "No" for is teenager driver.

D61. S4 Is Unrestrained

Definition:

To identify if the driver used occupant restraint system at the time of the crash.

Attributes:

Code	Code Description
N	No
Y	Yes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

If drivers had restraint systems (RS) = 2 - None Used - Motor Vehicle Occupant then "Yes" , otherwise "No" for is unrestrained.

Passenger Data Elements

P1. Report Number

Definition:

8 character Florida Department of Highway Safety and Motor Vehicles-assigned report ID.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

P2. Crash Year

Definition:

Crash Year (yyyy).

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

Year consists of finite-length characters of the form: yyyy.

yyyy - a four-digit numeral that represents the year.

P3. Vehicle Number

Definition:

Unique number assigned to vehicle on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

P4. Person Number

Definition:

Unique number assigned to person on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

P5. First Name (Not Included)

Definition:

Passenger's first name as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

P6. Middle Name (Not Included)

Definition:

Passenger's middle name as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

P7. Last Name (Not Included)

Definition:

Passenger's last name as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

P8. Suffix (Not Included)

Definition:

Passenger's suffix as recorded on crash report.

Attributes:

Code	Code Description
1-9	1st, 2nd, 3rd, etc.
J	Junior
S	Senior

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

P9. Phone Number (Not Included)

Definition:

Passenger's 10 digit telephone number.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

P10. Address (Not Included)

Definition:

Passenger's street address as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

P11. City

Definition:

Passenger's city of residence as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

P12. State

Definition:

Passenger's state of residence as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

U.S. Postal Service abbreviations in capital letters.

P13. Zip Code

Definition:

Passenger's zip code as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

P14. Date of Birth (Not Included)

Definition:

Passenger's date of birth as recorded on crash form(mm/dd/yyyy).

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

This data element is PII (personally identifiable information).

Date and Time consist of finite-length characters of the form: (mm/dd/yyyy).

mm- a two-digit numeral that represents the month.

dd- a two-digit numeral that represents the day.

yyyy - a four-digit numeral that represents the year.

This data element is not included in the Signal Four database.

P15. Sex

Definition:

This data element is used to identify the sex of the driver involved in the crash.

Attributes:

Code	Code Description
1	Male
2	Female
3	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

P16. Helmet Code

Definition:

This data element is used to identify the helmet use by a motorcyclist at the time of the crash. A motorcycle passenger is considered a motorcyclist.

Attributes:

Code	Code Description
1	DOT Compliant Motorcycle Helmet
2	Other Helmet
3	No Helmet

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

P17. Restraint System Code

Definition:

This data element is used to identify the restraint equipment in use by the occupant at the time of the traffic crash.

Attributes:

Code	Code Description
1	Not Applicable
2	None Used-Motor Vehicle Occupant
3	Shoulder and Lap Belt Used
4	Shoulder Belt Only Used
5	Lap Belt Only Used
6	Restraint Used - Type Unknown
7	Child Restraint System- Forward Facing
8	Child Restraint System- Rear Facing
9	Booster Seat
10	Child Restraint Type Unknown
77	Other (Narrative may contain clarifying information)

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

P18. Eye Protection Code

Definition:

This data element is used to identify if eye protection was used by a motorcyclist.

Attributes:

Code	Code Description
3	Not Applicable
N	No
Y	Yes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

P19. Air Bag Deployment Code

Definition:

This data element is used to identify a vehicle equipped with air bags and the deployment status relative to the position in the vehicle for this occupant.

Attributes:

Code	Code Description
1	Not Applicable
2	Not Deployed
3	Deployed-Front
4	Deployed-Side
5	Deployed-Other (knee, air belt, etc.)
6	Deployed-Combination
7	Deployed-Curtain
88	Deployment Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

See "Figure D30: Air Bag Diagram" for reference.

P20. Ejected

Definition:

This data element is used to identify an occupant completely or partially thrown from the interior of the motor vehicle as a result of the traffic crash.

Attributes:

Code	Code Description
1	Not Ejected
2	Ejected, Totally
3	Ejected, Partially
4	Not Applicable
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

P21. Injury Severity

Definition:

This data element is used to identify the severity of injuries sustained by a person involved in a traffic crash.

Attributes:

Code	Code Description
1	None
2	Possible
3	Non-Incapacitating
4	Incapacitating
5	Fatal (within 30 days)
6	Non-Traffic Fatality

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

P22. EMS Transport Type

Definition:

This classification is used to identify the type and identity of the unit providing transport to

the medical facility receiving the patient.

Attributes:

Code	Code Description
1	Not Transported
2	EMS
3	Law Enforcement
77	Other (Narrative may contain clarifying information)
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

P23. EMS Agency Name (Not Included)

Definition:

Name of EMS Agency that transported the injured drivers, non-motorist, or passengers to a medical facility or hospital.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

This data element is not included in the Signal Four database.

P24. EMS Run Number (Not Included)

Definition:

EMS Run Number as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

This data element is not included in the Signal Four database.

P25. Injured Taken Location (Not Included)

Definition:

Name of the hospital or facility that received the injured driver, non-motorist, or passengers.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

This data element is not included in the Signal Four database.

P26. Seat Position Code

Definition:

The seat location in this data element used to identify the location for this occupant in, on, or outside of the motor vehicle prior to the first event in the sequence of events.

Attributes:

Code	Code Description
1	Left
2	Middle
3	Right
77	Other, Explain in Narrative
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

Refer to “Figure D46. Example Seating Positions for Typical Vehicle Types” for diagram of common vehicle types, to include ambulance seating/positioning.

P27. Row Position Code

Definition:

The row location in this data element used to identify the location for this occupant in, on, or outside of the motor vehicle prior to the first event in the sequence of events.

Attributes:

Code	Code Description
1	Front
2	Second
3	Third
4	Fourth
77	Other Row
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

Refer to “Figure D46. Example Seating Positions for Typical Vehicle Types” for diagram of common vehicle types, to include ambulance seating/positioning.

P28. Other Position Code

Definition:

The other location in this data element used to identify the location for this occupant in, on, or outside of the motor vehicle prior to the first event in the sequence of events.

Attributes:

Code	Code Description
1	Not Applicable
2	Sleeper Section of Truck Cab
3	Other Enclosed Cargo Area
4	Unenclosed Cargo Area
5	Trailing Unit
6	Riding on Motor Vehicle Exterior (non-trailing unit)
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

Refer to “Figure D46. Example Seating Positions for Typical Vehicle Types” for diagram of common vehicle types, to include ambulance seating/positioning.

P29. S4 Age at Time of Crash

Definition:

This is the passenger’s actual age, in years, at the time of crash.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

No Comments

P30. S4 Is Unrestrained Passenger

Definition:

To identify if the passenger used an occupant restraint system at the time of the crash.

Attributes:

Code	Code Description
N	No
Y	Yes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

If passenger had restraint systems (RS) = 2 - None Used - Motor Vehicle Occupant.

Non-Motorist Data Elements

N1. Report Number

Definition:

8 character Florida Department of Highway Safety and Motor Vehicles-assigned report ID.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

N2. Crash Year

Definition:

Crash Year (yyyy).

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

Year consists of finite-length characters of the form: yyyy.

yyyy - a four-digit numeral that represents the year.

N3. Person Number

Definition:

Unique number assigned to person on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

N4. Location at Time of Crash Code

Definition:

The location of the non-motorist with respect to the roadway at the time of the crash.

Attributes:

Code	Code Description
1	Intersection-Marked Crosswalk
2	Intersection-Unmarked Crosswalk
3	Intersection-Other
4	Midblock-Marked Crosswalk
5	Travel Lane-Other Location
6	Bicycle Lane
7	Shoulder/Roadside
8	Sidewalk
9	Median/Crossing Island
10	Driveway Access
11	Shared Use Path or Trail
12	Non-Trafficway Area
77	Other (Narrative may contain clarifying information)
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

See “Figure N4. Separated Bike Lanes compared to other bicycle facility types”.

Figure N4. Separated Bike Lanes compared to other bicycle facility types



Source: MMUCC Guideline Model Minimum Uniform Crash Criteria Fifth Edition (2017)

N5. Action Prior to Crash Code

Definition:

This data element is used to identify the action of the non-motorist immediately prior to the traffic crash.

Attributes:

Code	Code Description
1	Crossing Roadway
2	Waiting to Cross Roadway
3	Walking/Cycling Along Roadway with Traffic (in or adjacent to travel lane)
4	Walking/Cycling Along Roadway Against Traffic (in or to adjacent travel lane)
5	Walking/Cycling on Sidewalk
6	In Roadway-Other (working, playing etc.)
7	Adjacent to Roadway (e.g., shoulder, median)
8	Going to or from School (K-12)
9	Working in Trafficway (incident response)
10	None
77	Other (Narrative may contain clarifying information)
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

N6. Non-Motorist Description Code

Definition:

This data element is used to identify the non-motorist (non-occupant of vehicle in transport) involved in a traffic crash.

Attributes:

Code	Code Description
1	Pedestrian
2	Other Pedestrian (wheelchair, person in a building, skater, pedestrian conveyance, etc.)
3	Bicyclist
4	Other Cyclist
5	Occupant of Motor Vehicle Not in Transport (Parked, etc.)
6	Occupant of a Non-Motor Vehicle Transportation Device
7	Unknown Type of Non-Motorist

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

N7. First Name (Not Included)

Definition:

Non-Motorist's first name as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

N8. Middle Name (Not Included)

Definition:

Non-Motorist's middle name as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

N9. Last Name (Not Included)

Definition:

Non-Motorist's last name as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

N10. Suffix (Not Included)

Definition:

Non-Motorist's suffix as recorded on crash report.

Attributes:

Code	Code Description
1-9	1st, 2nd, 3rd, etc.
J	Junior
S	Senior

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

N11. Phone Number (Not Included)

Definition:

Non-Motorist's 10 digit telephone number.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

N12. Address (Not Included)

Definition:

Non-Motorist's street address as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

N13. City

Definition:

Non-Motorist's city of residence as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

N14. State

Definition:

Non-Motorist's state of residence as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

U.S. Postal Service abbreviations in capital letters.

N15. Zip Code

Definition:

Non-Motorist's zip code as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

N16. Date of Birth (Not Included)

Definition:

Non-Motorist's date of birth as recorded on crash report (mm/dd/yyyy).

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

Date and Time consist of finite-length characters of the form: (mm/dd/yyyy).

mm- a two-digit numeral that represents the month.

dd- a two-digit numeral that represents the day.

yyyy - a four-digit numeral that represents the year.

This data element is PII (personally identifiable information).

This data element is not included in the Signal Four database.

N17. Sex

Definition:

This data element is used to identify the sex of the driver involved in the crash..

Attributes:

Code	Code Description
1	Male
2	Female
3	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

N18. Suspected Alcohol Use Code

Definition:

This classification is used to identify a driver or non-motorist involved in the traffic crash suspected by law enforcement to have used alcohol.

Attributes:

Code	Code Description
N	No
Y	Yes
[blank]	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

N19. Alcohol Tested Code

Definition:

This classification is used to indicate the presence of alcohol by test.

Attributes:

Code	Code Description
1	Test Not Given
2	Test Refused
3	Test Given
88	Unknown, if Tested

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

N20. Alcohol Test Type Code

Definition:

This classification is used to indicate the presence of alcohol by test type.

Attributes:

Code	Code Description
1	Blood
2	Breath
3	Urine
77	Other (Narrative may contain clarifying information)

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

N21. Alcohol Test Result

Definition:

This classification is used to indicate the presence of alcohol by test result.

Attributes:

Code	Code Description
1	Pending
2	Completed
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

N22. Blood Alcohol Content

Definition:

The level of Alcohol in the Blood, enter the numeric number.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

N23. Suspected Drug Use Code

Definition:

This classification is used to identify a driver or non-motorist involved in the traffic crash suspected by law enforcement to have used drugs.

Attributes:

Code	Code Description
N	No
Y	Yes
[blank]	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

N24. Drug Tested Code

Definition:

This classification is used to indicate the presence of drugs by test. Excludes drugs administered post-crash.

Attributes:

Code	Code Description
1	Test Not Given
2	Test Refused
3	Test Given
88	Unknown, if Tested

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

N25. Drug Test Type Code

Definition:

This classification is used to indicate the presence of drugs by test type. Excludes drugs administered post-crash.

Attributes:

Code	Code Description
1	Blood
3	Urine
77	Other (Narrative may contain clarifying information)

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

N26. Drug Test Result

Definition:

This classification is used to indicate the presence of drugs by test result. Excludes drugs administered post-crash.

Attributes:

Code	Code Description
1	Positive
2	Negative
3	Pending
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

N27. Injury Severity

Definition:

This data element is used to identify the severity of injuries sustained by a person involved in a traffic crash.

Attributes:

Code	Code Description
1	None
2	Possible
3	Non-Incapacitating
4	Incapacitating
5	Fatal (within 30 days)
6	Non-Traffic Fatality

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

N28. EMS Transport Type

Definition:

This classification is used to identify the type and identity of the unit providing transport to the medical facility receiving the patient.

Attributes:

Code	Code Description
1	Not Transported
2	EMS
3	Law Enforcement
77	Other (Narrative may contain clarifying information)
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

N29. EMS Agency Name (Not Included)

Definition:

Name of EMS Agency that transported the injured drivers, non-motorist, or passengers to a medical facility or hospital.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

This data element is not included in the Signal Four database.

N30. EMS Run Number (Not Included)

Definition:

EMS Run Number as recorded on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

This data element is not included in the Signal Four database.

N31. Injured Taken Location (Not Included)

Definition:

Name of the hospital or facility that received the injured driver, non-motorist, or passengers.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

This data element is not included in the Signal Four database.

N32/N33. Non-Motorists Actions/Circumstances 1/2

Definition:

This data element is used to identify the actions/circumstances of the non-motorist that may have contributed to the traffic crash.

Attributes:

Code	Code Description
1	No Improper Action
2	Dart/Dash
3	Failure to Yield Right-of-Way
4	Failure to Obey Traffic Signs, Signals, or Officer
5	In Roadway Improperly (standing, lying, working, playing)
6	Disabled Vehicle Related (working on, pushing, leaving/ approaching)
7	Entering/Exiting Parked/Standing Vehicle
8	Inattentive (talking, eating, etc.)
9	Not Visible (dark clothing, no lighting, etc.)
10	Improper Turn/Merge
11	Improper Passing
12	Wrong-Way Riding or Walking
77	Other, Explain in Narrative
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

This data element is based on the judgment of the law enforcement officer investigating the traffic crash.

N34/N35. Safety Equipment Code 1/2

Definition:

This data element is used to identify the safety equipment(s) used by the non-motorist.

Attributes:

Code	Code Description
1	None
2	Helmet
3	Protective Pads Used (elbows, knees, shins, etc.)
4	Reflective Clothing (Jacket, backpack, etc.)
5	Lighting
6	Not Applicable
77	Other (Narrative may contain clarifying information)
88	Unknown

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

N36. S4 Age at Time of Crash

Definition:

This is the non-motorist's actual age, in years, at the time of crash.

No Attributes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

No Comments

N37. S4 Is Alcohol Related

Definition:

To identify the presence of alcohol by test on the non-motorist.

Attributes:

Code	Code Description
N	No
Y	Yes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

If Non_motorist alcohol tested = 2 - Test Refused or Blood Alcohol Content (BAC) > 0.0 then "Yes" , otherwise "No" for is alcohol related.

N38. S4 Is Drug Related

Definition:

To identify the presence of drugs by test on the non-motorist.

Attributes:

Code	Code Description
N	No
Y	Yes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

If Non_motorist drug tested = 2 - Test Refused or drug test result = 1 - Positive then "Yes" , otherwise "No" for

is drug related.

N39. S4 Is Aging

Definition:

To identify if the non-motorist is 65 or older.

Attributes:

Code	Code Description
N	No
Y	Yes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

If Non_motorist age at time of crash is 65 or older then "Yes" , otherwise "No" for is aging.

N40. S4 Is Teenager

Definition:

To identify if the non-motorist is between 15-19 years old.

Attributes:

Code	Code Description
N	No
Y	Yes

Data Source: Signal Four Analytics

Author: Signal Four Analytics

Comments:

If Non_motorist age at time of crash is between 15 and 19 then "Yes" , otherwise "No" for is teenager.

Violation Data Elements

VI1. Report Number

Definition:

8 character Florida Department of Highway Safety and Motor Vehicles-assigned report ID.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

VI2. Crash Year

Definition:

Crash Year (yyyy).

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

Year consists of finite-length characters of the form: yyyy.

yyyy - a four-digit numeral that represents the year.

VI3. Person Number

Definition:

Unique number assigned to the person on the crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

VI4. Statute Number

Definition:

References Florida Statutes section applicable to violation cited.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

VI5. Charge

Definition:

Offense which is charged and indicated on the crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

Comments:

The attribute value is text.

VI6. Citation Number

Definition:

Citation Number as listed on crash report.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

Pedestrian Typing Data Elements

PE1. Report Number

Definition:

8 character Florida Department of Highway Safety and Motor Vehicles-assigned report ID.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

PE2. S4 Crash Group Number

Definition:

Integer value for crash group.

No Attributes

Data Source: Signal Four Analytics

Author: Editor

Comments:

The number consists of 3 digits (see the attributes in PE3. S4 Crash Group Description).

PE3. S4 Crash Group Description

Definition:

Text descriptor for crash group.

Attributes:

Code	Code Description
100	Unusual Circumstances
200	Backing Vehicle
310	Working or Playing in Roadway
340	Bus-Related
350	Unique Midblock
400	Walking Along Roadway
460	Crossing Driveway or Alley
500	Waiting to Cross
600	Pedestrian in Roadway— Circumstances Unknown
720	Multiple Threat/Trapped

740	Dash/Dart-Out
750	Crossing Roadway— Vehicle Not Turning
790	Crossing Roadway—VehicleTurning
800	Off Roadway
910	Crossing Expressway
990	Other/Unknown— Insufficient Details

Data Source: Signal Four Analytics

Author: Editor

No Comments

PE4. S4 Crash Type Number

Definition:

Integer value for crash type.

No Attributes

Data Source: Signal Four Analytics

Author: Editor

Comments:

The number consists of 3 digits (See Appendix: Pedestrian Crash Types and Crash Groups).

PE5. S4 Crash Type Description

Definition:

Text descriptor for crash type.

No Attributes

Data Source: Signal Four Analytics

Author: Editor

Comments:

See the attributes in Appendix: Pedestrian Crash Types and Crash Groups.

PE6. S4 Crash Location

Definition:

Integer value for location of the crash.

Attributes:

Code	Code Description
1	Intersection
2	Nonintersection
3	Nonroadway
4	Intersection-Related
9	Unknown

Data Source: Signal Four Analytics

Author: Editor

No Comments

PE7. S4 Leg of Intersection

Definition:

Text descriptor to further define the crash location.

Attributes:

Code	Code Description
1	Nearside
2	Farside
9	Unknown

Data Source: Signal Four Analytics

Author: Editor

No Comments

PE8. S4 Motorist Direction

Definition:

Text descriptor to define the travel direction of the motorist.

Attributes:

Code	Code Description
1	Northbound
2	Southbound
3	Eastbound
4	Westbound
9	Unknown

Data Source: Signal Four Analytics

Author: Editor

No Comments

PE9. S4 Motorist Maneuver

Definition:

Text descriptor to define the maneuver of the motorist.

Attributes:

Code	Code Description
1	Left Turn
2	Right Turn
3	Straight
9	Unknown

Data Source: Signal Four Analytics

Author: Editor

No Comments

PE10. S4 Pedestrian Direction

Definition:

Text descriptor to define the travel direction of the pedestrian.

Attributes:

Code	Code Description
1	Northbound
2	Southbound
3	Eastbound
4	Westbound
9	Unknown

Data Source: Signal Four Analytics

Author: Editor

No Comments

PE11. S4 Pedestrian Position

Definition:

Text descriptor for for pedestrian position.

Attributes:

Code	Code Description
1	Intersection
2	Crosswalk area
3	Travel Lane
4	Paved Shoulder/Bike Lane/ParkingLane
5	Sidewalk/Shared-Use Path/DrivewayCrossing
6	Unpaved Right-of-Way
7	Driveway/Alley
8	Nonroadway—Parking lot/Other
9	Other/Unknown

Data Source: Signal Four Analytics

Author: Editor

No Comments

PE12. S4 Pedestrian Movement

Definition:

Text descriptor on the relative approach, site, direction, and motorist direction outside the crosswalk.

Attributes:

Code	Code Description
1	Pedestrian outside crosswalk area, approach direction unknown
2	Pedestrian outside crosswalk area, approached from opposite direction as motorist
3	Pedestrian outside crosswalk area, approached from same direction as motorist
4	Pedestrian outside crosswalk area, traveled from motorist's left
5	Pedestrian outside crosswalk area, traveled from motorist's right
6	Pedestrian within crosswalk area, approach direction unknown
7	Pedestrian within crosswalk area, approached from opposite direction as motorist
8	Pedestrian within crosswalk area, approached from same direction as motorist
9	Pedestrian within crosswalk area, traveled from motorist's left
10	Pedestrian within crosswalk area, traveled from motorist's right

Data Source: Signal Four Analytics

Author: Editor

No Comments

PE13. S4 Typing Notes

Definition:

Additional information about the crash.

No Attributes

Data Source: Signal Four Analytics

Author: Editor

No Comments

Bicyclist Typing Data Elements

B1. Report Number

Definition:

8 character Florida Department of Highway Safety and Motor Vehicles-assigned report ID

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

B2. S4 Bike Crash Group Number

Definition:

Integer value for crash group.

No Attributes

Data Source: Signal Four Analytics

Author: Editor

Comments:

The number consists of 3 digits (see the attributes in B3. S4 Crash Group Description).

B3. S4 Crash Group Description

Definition:

Text descriptor for crash group.

Attributes:

Code	Code Description
110	Loss of Control/Turning Error
140	Motorist Failed to Yield—Sign-Controlled Intersection
145	Bicyclist Failed to Yield —Sign-Controlled Intersection
150	Motorist Failed to Yield—Signalized Intersection
158	Bicyclist Failed to Yield—Signalized Intersection
190	Crossing Paths—Other Circumstances
210	Motorist Left Turn/Merge
215	Motorist Right Turn/Merge
219	Parking/Bus-Related
220	Bicyclist Left Turn/Merge

225	Bicyclist Right Turn/Merge
230	Motorist Overtaking Bicyclist
240	Bicyclist Overtaking Motorist
258	Head-On
290	Parallel Paths—Other
310	Bicyclist Failed to Yield—Midblock
320	Motorist Failed to Yield—Midblock
600	Backing Vehicle
850	Other/Unusual Circumstances
910	Nonroadway
990	Other/Unknown— Insufficient Details

Data Source: Signal Four Analytics

Author: Editor

No Comments

B4. S4 Crash Type Number

Definition:

Integer value for crash type.

No Attributes

Data Source: Signal Four Analytics

Author: Editor

Comments:

The number consists of 3 digits (See Appendix: Bicyclist Crash Types and Crash Groups).

B5. S4 Crash Type Description

Definition:

Text descriptor for crash type.

No Attributes

Data Source: Signal Four Analytics

Author: Editor

Comments:

See the attributes in Appendix: Bicyclist Crash Types and Crash Groups.

B6. S4 Crash Location

Definition:

Integer value for location of the crash.

Attributes:

Code	Code Description
1	Intersection
2	Intersection-Related
3	Nonintersection
4	Nonroadway
9	Unknown Location

Data Source: Signal Four Analytics

Author: Editor

No Comments

B7. S4 Bicyclist Direction

Definition:

Text descriptor to define the travel direction of the bicyclist.

Attributes:

Code	Code Description
1	With Traffic
2	Facing Traffic
3	Not Applicable
9	Unknown

Data Source: Signal Four Analytics

Author: Editor

No Comments

B8. S4 Bicyclist Position

Definition:

Integer value for bicyclist position.

Attributes:

Code	Code Description
1	Travel Lane
2	Bike Lane/Paved Shoulder
3	Sidewalk/Crosswalk/Driveway Crossing
4	Driveway/Alley
5	Multi-use Path

6 Nonroadway
8 Other
9 Unknown

Data Source: Signal Four Analytics

Author: Editor

No Comments

B9. S4 Typing Notes

Definition:

Additional information about the crash.

No Attributes

Data Source: Signal Four Analytics

Author: Editor

No Comments

Mapped Crashes Data Elements

M1. Report Number

Definition:

8 character Florida Department of Highway Safety and Motor Vehicles-assigned report ID.

No Attributes

Data Source: Florida Department of Highway Safety and Motor Vehicles

Author: Florida Department of Highway Safety and Motor Vehicles

No Comments

M3. S4 Mapper

Definition:

Entity that mapped the crash.

Attributes:

Code	Code Description
1	LE Officer
2	Computer Confident
3	Computer Approximate
4	Report LatLong Plot
5	Editor

Data Source: Signal Four Analytics

Author: Various (i.e., law enforcement official, computer and editor)

Comments:

In order of confidence level: FDOT Editor Verified; LE Officer (using S4 geolocation service); Non-FDOT Editor (using S4 geocoding tool); Computer Confident (automatic batch geocoder); Computer Approximate (automatic batch geocoder); Unmapped (automatic batch geocoder).

M4. S4 Editor Verified

Definition:

Indicates whether or not the point is verified by an FDOT Editor.

Attributes:

Code	Code Description
..	..

N No
Y Yes

Data Source: Signal Four Analytics

Author: Editor

No Comments

M5. S4 Location Type

Definition:

Location of the mapped crash.

Attributes:

Code	Code Description
1	Intersection
2	Segment
3	Ramp
4	Off-roadway

Data Source: Signal Four Analytics

Author: Various (i.e., law enforcement official, computer and editor)

No Comments

M6. S4 Mapping Date

Definition:

Mapping date (mm/dd/yyyy) and military time.

No Attributes

Data Source: Signal Four Analytics

Author: Various (i.e., law enforcement official, computer and editor)

Comments:

Date and Time consist of finite-length characters of the form: (mm/dd/yyyy).

mm- a two-digit numeral that represents the month.

dd- a two-digit numeral that represents the day.

yyyy - a four-digit numeral that represents the year.

M7. S4 Albers X

Definition:

X-coordinate of crash point in Albers Coordinate Reference System (EPSG: 3087)

No Attributes

Data Source: Signal Four Analytics

Author: Various (i.e., law enforcement official, computer and editor)

No Comments

M8. S4 Albers Y

Definition:

Y-coordinate of crash point in Albers Coordinate Reference System (EPSG: 3087)

No Attributes

Data Source: Signal Four Analytics

Author: Various (i.e., law enforcement official, computer and editor)

No Comments

M9. S4 Latitude

Definition:

Decimal degrees latitude (EPSG:4326) of crash point (DD.DDDDDDD).

No Attributes

Data Source: Signal Four Analytics

Author: Various (i.e., law enforcement official, computer and editor)

Comments:

Latitude consists of a decimal number with two digits to the left of the decimal and 6 digits to the right of the decimal point (DD.DDDDDDD). Example: 29.066303.

Valid values for Florida will be positive and between 24.544110 and 31.000750

It is mapped crash location, which might be different with the original location provided by the crash report.

M10. S4 Longitude

Definition:

Decimal degrees longitude (EPSG:4326) of crash point(DD.DDDDDDD).

No Attributes

Data Source: Signal Four Analytics

Author: Various (i.e., law enforcement official, computer and editor)

Comments:

Latitude consists of a decimal number with two digits to the left of the decimal and 6 digits to the right of the decimal point (DD.DDDDDD). Example: -82.177298.

Valid values for Florida will be negative and between -87.634930 and -80.031350

It is mapped crash location, which might be different with the original location provided by the crash report.

Acronyms

ANSI	American National Standards Institute
ATV	All Terrain Vehicle
BAC	Blood Alcohol Content
CDL	Commercial Driver's License
CMV	Commercial Motor Vehicle
DHSMV	Department of Highway Safety and Motor Vehicles
DOT	Department of Transportation
EMS	Emergency Medical Services
FCCC	Florida Court Clerks & Comptrollers
FHSMV	Florida Department of Highway Safety and Motor Vehicles
FMCSA	Federal Motor Carrier Safety Administration
GCWR	Gross Combined Weight Rating
GIS	Geographic Information System
GVWR	Gross Vehicle Weight Rating
LEO	Law-Enforcement Officer
MMUCC	Model Minimum Uniform Crash Criteria
MV	Medium Voltage
NHTSA	National Highway Traffic Safety Administration
PBCAT	Pedestrian Bicyclist Crash Analysis Tool
PII	Personally Identifiable Information
RS	Restraint Systems
S4	Signal Four Analytics

Glossary of Terms

Activity Area

Located adjacent to actual work area, whether workers and equipment were present or not.

Advance Warning Area

Located after the first warning sign but before the work area.

Backing

A start from a parked or stopped position in the direction of the rear of the motor vehicle.

Booster Seat

A “belt-positioning seat” that positions a child on a vehicle seat to improve the fit of the child in a lap and shoulder seat belt system.

Bridge Overhead Structure

Any part of a bridge that is over the reference or subject roadway. In crash reporting, this typically refers to the beams or other structural elements supporting a bridge deck.

Bridge Pier or Support

Support for a bridge structure including the ends (abutments).

Bridge Rail

A barrier attached to a bridge deck or a bridge parapet to restrain motor vehicles, pedestrians or other users.

Cable Barrier

Refers to a flexible barrier system which uses several cables typically supported by steel posts. These can be used on the roadside or as a median barrier. These barriers are designed to help lessen impact or keep vehicles within the confines of the road.

Cargo Tank

A single-unit truck, truck/trailer, or tractor semi-trailer having a cargo body designed to transport dry bulk (fly, ash, etc.), liquid bulk (gasoline, milk, etc.) or gas bulk (propane, etc.).

Cargo Tank

A single-unit truck, truck/trailer, or tractor semi-trailer having a cargo body designed to transport dry bulk (fly, ash, etc.), liquid bulk (gasoline, milk, etc.) or gas bulk (propane, etc.).

Cargo Van

A cargo van is any van where the area behind the driver or cab is designed for transporting cargo or operated for general commercial use.

Cargo/Equipment Loss or Shift

As a non- collision event in First Harmful Event or Most Harmful Event, the loss or shift would have to cause damage to the motor vehicle or occupants that is transporting the cargo/equipment or the cargo or equipment itself. If cargo/equipment is lost and strikes another vehicle that is a collision event. As a non-collision event in the Sequence of Events, a cargo/equipment loss or shift is not necessarily harmful. For example, the loss or release of the goods being transported from the cargo compartment of the truck, or the shifting off position of the load affecting its balance.

Cargo/Equipment Loss or Shift

As a non- collision event in First Harmful Event or Most Harmful Event, the loss or shift would have to cause damage to the motor vehicle or occupants that is transporting the cargo/equipment or the cargo or equipment itself. If cargo/equipment is lost and strikes another vehicle that is a collision event. As a non-collision event in the Sequence of Events, a cargo/equipment loss or shift is not necessarily harmful. For example, the loss or release of the goods being transported from the cargo compartment of the truck, or the shifting off position of the load affecting its balance.

Class A

Any combination of vehicles with a gross combination weight rating (GCWR) of 26,001 pounds or more provided the GVWR of the vehicle(s) being towed is in excess of 10,000 pounds.

Class B

Any single vehicle with a GVWR of 26,001 or more pounds, or any such vehicle towing a vehicle not in excess of 10,000 pounds GVWR.

Class C

Any single vehicle, or combination of vehicles, that does not meet the definition of Class A or Class B, but is either designed to transport 16 or more passengers, including the driver, or is used in the transportation of materials found to be hazardous which require the motor vehicle to be placarded.

Collision Event

Harmful events that involve the collision of a motor vehicle in transport with another motor vehicle, other property, animal or pedestrian.

Commercial Driver License Class

This indicates whether the driver license is a commercial driver license (CDL). In addition, this information is important to separate the non-commercial licenses included by some States in Class C with the commercial licenses.

Concrete Traffic Barrier

Refers to the longitudinal traffic barriers constructed of concrete and located on the outside of the road surface, in a median, or in gore areas.

Contributing Circumstances – Roadway

Apparent environmental or roadway conditions which may have contributed to the crash.

Crash Cushion

See Impact Attenuator.

Crash Severity

The severity of a crash based on the most severe injury to any person involved in the crash.

Crossover

Area in the median of a divided trafficway where motor vehicles are permitted to cross the opposing lanes of traffic or do a U-turn.

Crossover-Related

A crash on approach to or exit from a crossover related to the movement of traffic units through the crossover.

Culvert

An enclosed structure providing free passage of water under a roadway with a clear opening of less than twenty feet measured along the center of the roadway.

Dark – Lighted

The scene of the crash is illuminated at night, or another period of darkness, by street lamps or other man-made light sources.

Dark – Not Lighted

The scene of the crash is not illuminated at night, or another period of darkness, by street lamps or other man-made light sources.

Dark – Unknown if Lighted

It is known that the crash occurred at night or during another period of darkness, but it is not known if the crash scene was illuminated by a man-made light source.

Dart/Dash

Non-motorist entering from off the roadway, including running, jogging, or stumbling, etc.

Dawn

The time that marks the beginning of the twilight before sunrise.

Disabling Damage

Damage that precludes departure of the motor vehicle from the scene of the crash in its usual daylight-operating manner after simple repairs. As a result, the motor vehicle had to be towed, or carried from crash scene, or assisted by an emergency motor vehicle.

DOT-Compliant Motorcycle Helmet

Motorcycle helmets that are compliant with Federal Motor Vehicle Safety Standards typically weigh approximately 3 pounds, have an inner liner at least one-inch thick of firm polystyrene foam, have an inside label that states the manufacturer, model, and date of manufacture, and have a DOT sticker on the back of the helmet. A DOT sticker alone is not sufficient evidence to indicate that the helmet is DOT-compliant, as counterfeit stickers have been found affixed to non-compliant helmets.

Dump

A cargo body type that can be tilted or otherwise manipulated to discharge its load by gravity.

Embankment

Earthen structure used to support a channel or roadway.

Endorsements

Issued to drivers after successfully completing a specialized test that qualifies them to operate that specific type of vehicle.

Fatal Injury (K)

A fatal injury is any injury that results in death within 30 days after the motor vehicle crash in which the injury occurred. If the person did not die at the scene but died within 30 days of the motor vehicle crash in which the injury occurred, the injury classification should be changed from the attribute previously assigned to the attribute "Fatal Injury."

First Harmful Event

The first harmful event is defined as the first injury- or damage-producing event of the crash.

Flatbed

A single-unit truck, truck/trailer, or tractor/semi-trailer whose body is without sides or roof, with or without readily removable stakes which may be tied together with chains, slats, or panels. This includes trucks transporting containerized loads.

Functional Damage

Damage that is not disabling, but affects operation of the motor vehicle or its parts.

Geographic Information System (GIS)

Computerized system that associates information with specific geographic locations, for example roadway characteristics by latitude/longitude.

Glare

A very harsh, bright, dazzling light that impairs vision.

Gross Vehicle Weight Rating (GVWR)

The value specified by the manufacturer as the recommended maximum loaded weight of a single motor vehicle. This rating includes the maximum rated capacity of a vehicle, including the base vehicle, mounted equipment and any cargo and passengers. Most of the time, the GVWR is the sum of the maximum rated capacity of the axles of the vehicle.

Guardrail

A longitudinal barrier consisting of posts and rails.

Guardrail Face

Surface area of the guardrail other than the end.

Harmful Event

Occurrence of injury or damage.

Hit and Run

Refers to cases where the vehicle or the driver of the vehicle in transport is a contact vehicle in the crash and departs the scene without stopping to render aid or report the crash.

Impact Attenuator/Crash Cushion

A barrier at a spot location, less than 25 ft. (7.6 m) away, designed to prevent an errant motor vehicle from impacting a fixed object hazard by gradually decelerating the motor vehicle to a safe stop or by redirecting the motor vehicle away from the hazard.

In Transport

The term “in-transport” denotes the state or condition of a transport vehicle which is in motion or within the portion of a transport way ordinarily used by similar transport vehicles. When applied to motor vehicles, “in-transport” means on a roadway or in motion within or outside the trafficway. A transport vehicle which is also a working motor vehicle at the time of the unstabilized situation is not “in-transport.” In roadway lanes used for travel during some periods and for parking during other periods, a parked motor vehicle should be considered to be in-transport during periods when parking is forbidden.

Incident Response

Government vehicles typically equipped with a variety of tools, emergency medical equipment, traffic cones and control signs, absorbent material (for responding to spills), emergency and work lighting. These multi-purpose response units are intended to assist law enforcement, fire and rescue personnel with trafficway incident management.

Injury Severity

The injury severity for a person involved in a crash as determined through linkage of crash and injury outcome records.

Interstate Carrier

A commercial vehicle in the United States where the transit between the points of origin and termination does not occur entirely within the borders of the State of origin. A motor carrier that has authority to operate across State lines. Interstate operators are required to have a USDOT Number by the Federal Motor Carrier Administration.

Intrastate Carrier

A motor carrier that operates entirely within the State and does not have the authority to engage in interstate commerce.

Jackknife

An uncontrolled articulation between a tractor and trailer(s) that occurs at any time during the crash sequence.

Low Speed Vehicle

A low speed vehicle (LSV) is a motor vehicle with four or more wheels whose top speed is greater than 20 miles per hour, but not greater than 25 miles per hour. LSVs are required to be equipped with basic items of safety equipment: headlamps, stop lamps, turn signal lamps, tail lamps, reflex reflectors, parking brake, windshields of either type AS-1 or type AS-5 glazing, rearview mirrors, seat belts and vehicle identification numbers (VINs).

Marked Crosswalk

That portion of the roadway that is distinctly indicated for pedestrian crossing by lines or other markings on the surface of the roadway.

Medium/Heavy Truck

A truck with a GVWR greater than 10,000 pounds.

Motor Home

A van where a frame-mounted recreational unit is added behind the driver or cab area or mounted on a bus/truck chassis that is suitable to live in and drive across the country.

Motor Vehicle in Transport

A motor vehicle is any motorized (mechanically or electrically powered) road vehicle not operated on rails.

When applied to motor vehicles, “in-transport” refers to being in motion or on a roadway.

Inclusions: motor vehicle in traffic on a highway, driverless motor vehicle in motion, motionless motor vehicle abandoned on a roadway, disabled motor vehicle on a roadway, etc.

Motorcoach

A bus with a gross vehicle weight rating (GVWR) of 11,793 kilograms (26,000 pounds) or greater, 16 or more designated seating positions (including the driver), and at least 2 rows of passenger seats, rearward of the driver's seating position, that are forward-facing or can convert to forward-facing without the use of tools. Motorcoach includes buses sold for intercity, tour, and commuter bus service, but does not include a school bus, or an urban transit bus sold for operation as a common carrier in urban transportation along a fixed route with frequent stops.

Non-Trafficway

Is used for motor vehicle crashes where both of these conditions apply: (1) The unstabilized situation originates outside the boundaries of the trafficway and (2) no harmful event occurs within the boundaries of the trafficway. Example 1: A motor vehicle is driving in a parking aisle (outside the trafficway) and crashes into a parked motor vehicle. Example 2: A motor vehicle is driving on a dirt trail (not a recognized trafficway), and overturns.

Not a Bus

Vehicles that do not have a bus body type and are not being used as a bus in the crash. This should be used for vehicles with less than 9 seats (including the driver) and personal-use vans with 9 or more seats (including the driver).

Not in Commerce/Government

Any government vehicle whether it is operated by the local, State, or federal government. In most circumstances, the government-owned vehicle will not have a USDOT Number.

Not in Commerce/Other Truck or Bus

Personal rental vehicles (e.g., U-Haul, Ryder, Penske) that qualify by size (Over 10,000 lbs. GVWR/ GCWR) that are operated by a private individual. In these situations the rental company is not the carrier and should not be recorded.

Other Cyclist

Non-motorist using a non-motorized pedal-powered vehicle other than a bicycle, such as a unicycle or adult tricycle.

Other Inside the Vehicle

Other distractions inside the vehicle affecting the driver. This may include actions taken by the driver such as eating, drinking, smoking, etc., or distractions within the vehicle originating from neither the driver nor passengers, such as a pet or flying insect.

Other Non-Collision

1) driving off a cliff where damage is not the result of an overturn or a collision with a fixed object, (2) an unbelted passenger hits his or her head on the roof of a vehicle and is injured, when the vehicle travels over a sharp dip in the road, (3) situations where a passenger is sickened or dies due to carbon monoxide fumes leaking from a motor vehicle in transport. (4) This also includes when an occupant of a vehicle is run over by his/her own vehicle after falling from the vehicle.

Other Non-Fixed Object

A collision with an object other than a motor vehicle in-transport, a pedestrian, another road vehicle in transit, a parked motor vehicle, a railway vehicle, a pedalcycle, an animal, or a fixed object. Fallen trees are one example.

Other Post, Pole or Support

Post, pole or support that does not include a highway safety sign.

Other Traffic Barrier

Longitudinal barriers other than guardrails, concrete traffic barriers, or cable barriers. They may be composed of material such as wood or rock.

Overtaking/Passing

A motor vehicle that moves from behind a motor vehicle to being in front of the same motor vehicle.

Overturn/Rollover

A motor vehicle that has overturned at least 90 degrees to its side.

Pedalcycle

Includes bicycles, tricycles, unicycles, pedal cars, etc.

Personal Conveyance

A personal conveyance is a device, other than a transport device, used by a pedestrian for personal mobility assistance or recreation. These devices can be motorized or human powered, but not propelled by pedaling.

Pole-Trailer

A trailer designed to be attached to the towing vehicle by means of a reach or pole, or by being boomed or otherwise secured to the towing motor vehicle, and ordinarily used for carrying property of a long or irregular shape.

Possible Injury (C)

A possible injury is any injury reported or claimed which is not a fatal, suspected serious or suspected minor injury. Examples include momentary loss of consciousness, claim of injury, limping, or complaint of pain or nausea. Possible injuries are those that are reported by the person or are indicated by his/her behavior, but no wounds or injuries are readily evident.

Railway Grade Crossing

An intersection between a roadway and train tracks that cross each other at the same level (Grade).

Separated Bike Lanes

An exclusive facility for bicyclists that is located within or directly adjacent to the roadway and that is physically separated from motor vehicle traffic with a vertical element. Separated bike lanes are differentiated from standard and buffered bike lanes by the vertical element. They are differentiated from shared use paths (and sidepaths) by their more proximate relationship to the adjacent roadway and the fact that they are bike-only facilities. Separated bike lanes are also sometimes called “cycle tracks” or “protected bike lanes.”

Separation of Units

When the truck or truck tractor becomes separated from the semi-trailer and/or trailer(s) they are pulling.

Separator

A separator is the area of a trafficway between parallel roads separating travel in the same direction or separating a frontage road from other roads.

Sequence of Events

The sequence of events are events in sequence related to this motor vehicle, including non-harmful events, non-collision events and collision events. For examples, refer to Appendix G: Sequence of Events Examples in MMUCC Guideline Model Minimum Uniform Crash Criteria.

Severe Crosswinds

Strong air flow perpendicular to the intended path of travel.

Shared-Use Path or Trail

A bikeway physically separated from motor vehicle traffic by an open space or barrier. They may also be used by pedestrians, skaters, wheelchair users, joggers, and other non-motorized users. Most have two-way travel.

Sideswipe, Opposite Direction

Two vehicles traveling in the opposite direction impact one another where the initial engagement does not overlap the corner of either vehicle so that there is no significant involvement of the front or rear surface areas. The impact then swipes along the surface of the vehicle parallel to the direction of travel.

Sideswipe, Same Direction

Two vehicles traveling in the same direction impact one another where the initial engagement does not overlap the corner of either vehicle. Therefore, there is no significant involvement of the front or rear surface areas. The impact then swipes along the surface of the vehicle parallel to the direction of travel.

Sport Utility Vehicle

A motor vehicle other than a motorcycle or bus consisting primarily of a transport device designed for carrying ten or fewer persons, and generally considered a multi-purpose vehicle that is designed to have off-road capabilities. These vehicles are generally four-wheel-drive (4x4) and have increased ground clearance. A utility vehicle has a gross vehicle weight rating (GVWR) of 10,000 pounds or less. Utility vehicles with wheelbases greater than 88 inches are classified by overall width. The wheelbase and overall width should be rounded to the nearest inch. Sizes range from mini, small, midsize, full-size and large. Four-wheel automobiles are not considered utility vehicles.

Swerved or Avoided

Defensive driver action to defend against an apparent danger in, on, or due to the condition of the roadway or the presence of a motor vehicle or object or non-motorist in the roadway in order to avoid a crash.

Termination Area

Located after the activity area but before traffic resumes normal conditions.

Through Roadway

A crash would have this code when it is in an Interchange area and it does NOT occur: 1) On an Entrance/Exit ramp, 2) In an Intersection or related to an intersection or other junction.

T-Intersection

An intersection where two roadways connect in a perpendicular manner and one roadway does not continue across the other roadway. The roadways form a "T."

Towed Due to Disabling Damage

Disabling damage implies damage to the motor vehicle that is sufficient to require the motor vehicle to be towed or carried from the scene. Towed Due to Disabling Damage identifies whether a vehicle involved in a crash is removed from the scene. Towing assistance without removal of the vehicle from the scene, such as pulling a vehicle out of a ditch, is not considered to be "towed" for the purposes of this element.

Traffic Barrier

A device that provides a physical limitation through which a motor vehicle would not normally pass and is designed to contain or redirect an errant motor vehicle.

Transition Area

Where lanes are shifted or tapered for lane closure.

Travel Lane – Other Location

The non-motorist is in a travel lane of a roadway, but not within a crosswalk or intersection.

Van/Enclosed Box

A single-unit truck, truck/trailer, or tractor/semi-trailer having an enclosed body integral to the frame of the motor vehicle.

Work Zone (construction/maintenance/ utility)

A work zone is an area of a trafficway where construction, maintenance, or utility work activities are identified by warning signs/ signals/indicators, including those on transport devices (e.g., signs, flashing lights, channelizing devices, barriers, pavement markings, flagmen, warning signs and arrow boards mounted on the vehicles in a mobile maintenance activity) that mark the beginning and end of a construction, maintenance or utility work activity. It extends from the first warning sign, signal or flashing lights to the END ROAD WORK sign or the last traffic control device pertinent for that work activity.

Work zones also include roadway sections where there is ongoing, moving (mobile) work activity such as lane line painting or roadside mowing only if the beginning of the ongoing, moving (mobile) work activity is designated by warning signs or signals.

Work Zone/Maintenance Equipment

A motor vehicle in the act of performing construction, maintenance, or utility work related to the trafficway. This “work” may be located within open or closed portions of the trafficway and motor vehicles performing these activities can be within or outside of the trafficway boundaries.

Work Zone-Related (Construction/

A crash that occurs in or related to a construction, maintenance, or utility work zone, whether or not workers were actually present at the time of the crash. “Work zone- related” crashes may also include those involving motor vehicles slowed or stopped because of the work zone, even if the first harmful event occurred before the first warning sign.

Working Vehicle/Equipment

A vehicle not intended for highway transport being used for Construction, maintenance or utility work related to the trafficway. The “work” may be located within open or closed portions of the trafficway, and the vehicle performing these activities can be within or outside the trafficway. Examples of working vehicles include: asphalt/steam roller paving or flattening a roadway, a highway maintenance crew painting lane lines on the road or mowing grass, a street sweeping vehicle, and a utility truck performing maintenance on power lines along the roadway.

Worn, Travel-Polished Surface

A road surface that is well used, often very smooth or shiny in appearance.

Y-Intersection

An intersection where three roadways connect and none of the roadways continue across the other roadways. The roadways form a “Y.”

Appendix A: City Code

City Name	County Code	City Code	City Name	County Code	City Code	City Name	County Code	City Code
Aventura	01	29	Daytona Beach	08	30	Fort Pierce	24	40
Bal Harbor	01	30	Daytona Beach Airport	08	33	Fort Pierce NW	24	30
Bay Harbor Islands	01	32	Daytona Beach Shores	08	32	Port St. Lucie	24	50
Biscayne Gardens	01	33	De Bary	08	34	St. Lucie Village	24	52
Biscayne Park	01	34	De Land	08	36	Unincorporated	24	00
Browns Village	01	47	De Leon Springs	08	39	Alford	25	28
Bunche Park	01	45	Deltona	08	37	Bascom	25	52
Carol City	01	37	Edgewater	08	38	Cottondale	25	30
Coconut Grove	01	36	Holly Hill	08	40	Graceville	25	40
Coral Gables	01	38	Lake Helen	08	42	Grand Ridge	25	42
Coral Way Village	01	40	New Smyrna Beach	08	44	Malone	25	46
Cutler Ridge	01	42	Oak Hill	08	46	Marianna	25	50
Dade Co. School P D	01	31	Orange City	08	48	Sneads	25	51
Doral	01	55	Ormond Beach	08	50	Unincorporated	25	00
El Portal	01	44	Ormond By The Sea	08	41	Kissimmee	26	40
Fl International Un.	01	99	Pierson	08	52	St. Cloud	26	50
Florida City	01	46	Ponce Inlet	08	54	Unincorporated	26	00
Golden Beach	01	48	Port Orange	08	56	Avon Park	27	30
Golden Glades	01	50	Seville	08	58	Lake Placid	27	40
Goulds	01	52	South Daytona	08	60	Sebring	27	50
Hialeah	01	54	South Peninsula	08	61	Sebring Airport	27	51
Hialeah Gardens	01	56	Stetson University	08	64	Unincorporated	27	00
Homestead AFB	01	59	Unincorporated	08	00	Beacon Square	28	26
Homestead	01	58	Brent	09	28	Buena Vista	28	28
Indian Creek Village	01	60	Cantonment	09	30	Dade City	28	30
Islandia	01	61	Century	09	32	East Richey Lakes	28	34
Kendall	01	63	Corry Field NAS	09	66	Jasmine Estates	28	32
Key Biscayne	01	62	Ellyson Field NAS	09	68	Land O' Lakes	28	35
Leisure City	01	65	Escambia NAS	09	72	New Port Richey	28	40
Medley	01	64	Myrtle Grove	09	40	Port Richey	28	50

Appendix A: City Code(continued)

City Name	County Code	City Code	City Name	County Code	City Code	City Name	County Code	City Code
Miami	01	66	Pensacola	09	50	San Antonio	28	60
Miami Beach	01	68	Saufley Field NAS	09	70	St. Leo	28	62
Miami Gardens	01	57	Unincorporated	09	00	Unincorporated	28	00
Miami Lakes	01	69	Univ. Of West Florida	09	64	Zephyrhills	28	70
Miami Shores	01	70	Warrington	09	62	Fort White	29	50
Miami Springs	01	72	West Pensacola	09	63	Lake City	29	51
Miami TP	01	67	Broadview	10	37	Unincorporated	29	00
Micc. Indian Res.	01	73	Browardale	10	29	Watertown	29	49
Naranja	01	74	Carver Ranch Estates	10	39	Bowling Green	30	40
North Bay	01	76	Coconut Creek	10	28	Unincorporated	30	00
North Bay Village	01	78	Collier Manor/Cresthaven	10	35	Wauchula	30	60
North Miami	01	80	Cooper City	10	30	Zolfo Springs	30	80
North Miami Beach	01	82	Coral Springs	10	31	Branford	31	30
Norwood	01	71	Dania Beach	10	32	Live Oak	31	40
Ojus	01	83	Davie	10	34	Unincorporated	31	00
Olympia Heights	01	77	Deerfield Beach	10	36	Fellsmere	32	36
Opa Locka	01	84	Ft. Lauderdale	10	38	Gifford	32	38
Palmetto Bay	01	51	Hacienda	10	41	Indian River Shores	32	40
Palmetto Estates	01	79	Hallendale	10	40	Orchid	32	42
Perrine	01	85	Hillsboro Beach	10	42	Sebastian	32	50
Pine Crest Village	01	35	Hollywood	10	44	Unincorporated	32	00
Pinewood	01	81	Hollywood Ridge Farm	10	46	Vero Beach	32	52
Richmond Heights	01	86	Lake Forest	10	47	Vero Beach South	32	54
South Miami	01	87	Lauderdale by the Sea	10	48	Wabasso	32	60
South Miami Heights	01	95	Lauderdale Lakes	10	50	Eglin AFB	33	54
Sunny Isles	01	88	Lauderhill	10	52	Gulf Breeze	33	40
Surfside	01	89	Lazy Lake Village	10	54	Jay	33	42
Sweetwater	01	90	Lighthouse Point	10	56	Milton	33	50

Appendix A: City Code(continued)

City Name	County Code	City Code	City Name	County Code	City Code	City Name	County Code	City Code
Uleta	01	96	Margate	10	60	Unincorporated	33	00
Unincorporated	01	00	Melrose Park	10	61	Whiting Field	33	52
Unincorporated Count	01	91	Miramar	10	62	Arcadia	34	30
University of Miami	01	94	North Andrews Garden	10	67	Unincorporated	34	00
Virginia Gardens	01	92	North Lauderdale	10	63	Greenville	35	30
West Miami	01	93	Oakland Park	10	64	Lee	35	32
Westview	01	98	Parkland	10	71	Madison	35	40
Westwood Lakes	01	97	Pembroke Park	10	66	Unincorporated	35	00
Atlantic Beach	02	30	Pembroke Pines	10	68	Defuniak Springs	36	40
Baldwin	02	32	Plantation	10	70	Eglin AFB	36	50
Bayard	02	34	Pompano Beach	10	72	Floral	36	54
Cecil Field NAS	02	48	Pompano Beach Hlnds	10	65	Freeport	36	52
Dinsmore	02	36	Riverland	10	69	Paxton	36	60
Jacksonville	02	38	Sea Ranch Lakes	10	74	Port Washington	36	62
Jacksonville Beach	02	40	Seminole Indian Res.	10	75	Santa Rosa Beach	36	42
Jacksonville Duval Co Sch Board PD	02	25	Sunrise	10	76	Unincorporated	36	00
Jacksonville NAS	02	50	Tamarac	10	77	Perry	37	50
Jacksonville University	02	46	Unincorporated	10	00	Steinhatchee	37	40
Mandarin	02	42	West Hollywood	10	78	Unincorporated	37	00
Mayport NAS	02	52	West Park	10	33	Boca Chica	38	48
Neptune Beach	02	44	Weston	10	79	Boca Chica NAS	38	50
Unincorporated	02	00	Wilton Manors	10	80	Islamorada	38	30
Univ. of North Florida	02	60	Alachua	11	30	Key Colony Beach	38	40
Brandon	03	39	Archer	11	32	Key Largo	38	41
Clair-Mel	03	38	Gainesville	11	34	Key West	38	42
E. Lake Orient Park	03	46	Hawthorne	11	36	Layton	38	44
Egypt Lake	03	47	High Springs	11	38	Marathon	38	45
Lake Carroll	03	48	La Crosse	11	39	Munson Island	38	46
Lake Magdalene	03	49	Micanopy	11	40	Plantation Key	38	43
Leto	03	44	Newberry	11	42	Tavernier	38	52

Appendix A: City Code(continued)

City Name	County Code	City Code	City Name	County Code	City Code	City Name	County Code	City Code
MacDill AFB	03	58	Sante Fe Community College	11	31	Unincorporated	38	00
Palm River/Clair Mel	03	51	University Of Florida	11	50	Bronson	39	30
Plant City	03	40	Unincorporated	11	00	Cedar Key	39	32
Progress Village	03	42	Waldo	11	60	Chiefland	39	34
Rocky Creek	03	43	Astatula	12	28	Dept. of Agriculture	39	31
Ruskin	03	45	Clermont	12	30	Fanning Springs	39	42
Sweetwater Creek	03	41	Eustis	12	32	Inglis	39	40
Tampa	03	50	Fruitland Park	12	34	Otter Creek	39	41
Tampa Int. Airport	03	60	Groveland	12	36	Unincorporated	39	00
Temple Terrace	03	52	Howey-in-the-Hills	12	38	Williston	39	60
Unincorporated	03	00	Lady Lake	12	40	Yankeetown	39	62
Univ. of South Florida	03	54	Leesburg	12	42	Brooksville	40	30
Univ. of Tampa	03	56	Mascotte	12	50	Weekiwachee	40	40
Belleair	04	30	Minneola	12	52	Unincorporated	40	00
Belleair Beach	04	32	Montverde	12	53	Callahan	41	30
Belleair Bluffs	04	34	Mount Dora	12	54	Fernandina Beach	41	40
Clearwater	04	36	Tavares	12	60	Hilliard	41	42
Dunedin	04	38	Umatilla	12	62	Unincorporated	41	00
Eckerd College	04	72	Unincorporated	12	00	Yulee	41	60
Gulfport	04	40	Florida A & M University	13	30	Hobe Sound	42	39
Indian Rocks Beach	04	42	Florida State University	13	40	Indiantown	42	40
Indian Shores	04	74	Tallahassee	13	50	Jensen Beach	42	41
Kenneth City	04	44	Unincorporated	13	00	Jupiter Island	42	42
Largo	04	46	Bellevue	14	30	Ocean Breeze Park	42	50
Lealman	04	47	Dunnellon	14	32	Ocean Ridge Park	42	52
Maderia Beach	04	48	McIntosh	14	34	Palm City	42	53
N. Redington Beach	04	50	Ocala	14	40	Port Salerno	42	54
Oldsmar	04	52	Reddick	14	42	Port St. Lucie	42	56

Appendix A: City Code(continued)

City Name	County Code	City Code	City Name	County Code	City Code	City Name	County Code	City Code
Pinellas Co Campus P D	04	78	Silver Springs Shore	14	50	Sewalls Point	42	60
Pinellas Park	04	54	Unincorporated	14	00	Stuart	42	62
Redington Beach	04	56	West End	14	39	Unincorporated	42	00
Redington Shores	04	58	Anna Maria	15	30	Cinco Bayou	43	28
Safety Harbor	04	60	Bayshore Gardens	15	48	Crestview	43	30
Seminole	04	76	Bradenton	15	32	Destin	43	55
Seminole Park	04	61	Bradenton Beach	15	34	Eglin	43	34
South Pasadena	04	62	Cedar Hammock/Brad. Sh.	15	35	Eglin AFB	43	62
St. Petersburg	04	64	Holmes Beach	15	36	Ft. Walton Beach	43	32
St. Petersburg Beach	04	66	Longboat Key	15	38	Laurel Hill	43	44
St.Pete/Clearwater Airt.	04	65	Memphis	15	44	Mary Esther	43	40
Tarpon Springs	04	68	Oneco	15	40	Niceville	43	42
Treasure Island	04	70	Palmetto	15	42	Ocean City	43	36
Unincorporated	04	00	Parrish	15	43	Okaloosa County Airprt	43	33
Auburndale	05	30	Samoset	15	46	Shalimar	43	46
Bartow	05	32	Unincorporated	15	00	Unincorporated	43	00
Combee Settlement	05	31	West Bradenton	15	50	Valparaiso	43	60
Cypress Gardens	05	37	Englewood	16	47	Bushnell	44	30
Davenport	05	34	Gulf Gate Estates	16	38	Center Hill	44	32
Dundee	05	36	Kensington Park	16	39	Coleman	44	34
Eagle Lake	05	38	Longboat Key	16	40	Webster	44	60
Eagle Peak	05	40	Nokomis/Laurel	16	41	Wildwood	44	62
East Auburndale	05	33	North Port	16	48	Unincorporated	44	00
Florida Southern Coll.	05	64	Port Charlotte	16	42	Brooker	45	35
Fort Meade	05	44	Ridgewood Heights	16	52	Hampton	45	37
Frostproof	05	42	Sarasota	16	50	Lawtey	45	39
Haines City	05	46	Sarasota S	16	43	Starke	45	40
Highland Park Village	05	43	Sarasota SE	16	49	Unincorporated	45	0

Appendix A: City Code(continued)

City Name	County Code	City Code	City Name	County Code	City Code	City Name	County Code	City Code
Hillcrest Heights	05	47	Sarasota Springs	16	44	Monticello	46	40
Lake Alfred	05	48	Sarasota-Manatee Air	16	51	Unincorporated	46	00
Lake Hamilton	05	50	Siesta Key	16	45	Crystal River	47	40
Lake Holloway	05	53	Unincorporated	16	00	Homosassa Springs	47	41
Lake Wales	05	54	Venice	16	60	Inverness	47	42
Lakeland	05	52	Venice South	16	46	Unincorporated	47	00
Mulberry	05	56	Altamonte Springs	17	30	Doctors Inlet	48	38
Polk City	05	60	Casselberry	17	32	Green Cove Springs	48	40
Unincorporated	05	00	Lake Mary	17	38	Keystone Heights	48	42
Wahnetta	05	61	Longwood	17	40	Lee Field NAS	48	46
West Winter Haven	05	55	Oviedo	17	44	Middleburg	48	48
Winston	05	35	Sanford	17	60	Orange Park	48	44
Winter Haven	05	62	Unincorporated	17	00	Penny Farms	48	47
Atlantis	06	28	Winter Springs	17	70	Unincorporated	48	00
Belle Glade	06	30	Bonita Springs	18	30	Clewiston	49	40
Belvedere Homes	06	31	Cape Coral	18	41	La Belle	49	50
Boca Raton	06	32	Fort Myers	18	40	Unincorporated	49	00
Boynton Beach	06	34	Fort Myers Beach	18	42	Chipley	50	30
Briny Breezes	06	36	Fort Myers SE	18	43	Ebro	50	40
Cloud Lake	06	38	Fort Myers SW	18	46	Unincorporated	50	00
Delray Beach	06	40	Ft. Myers Village/Pine Manor	18	44	Vernon	50	50
FL Atlantic University	06	95	Lee Co. Airport Police	18	56	Wausua	50	60
Glen Ridge	06	41	Lehigh Acres	18	45	Bonifay	51	30
Golf Village	06	24	North Fort Myers	18	47	Esto	51	32
Golfview	06	26	Sanibel	18	50	Ponce De Leon	51	40
Greenacres City	06	42	Tice	18	55	Unincorporated	51	00
Gulf Stream	06	44	Unincorporated	18	00	Westville	51	36
Haverhill	06	46	Canova Beach	19	28	Glen St. Mary	52	50
Highland Beach	06	48	Cape Canaveral	19	30	Macclenny	52	60
Hypoluxo	06	50	Cocoa	19	32	Unincorporated	52	00

Appendix A: City Code(continued)

City Name	County Code	City Code	City Name	County Code	City Code	City Name	County Code	City Code
Juno Beach	06	52	Cocoa Beach	19	34	Englewood	53	52
Jupiter	06	54	Cocoa West	19	49	Port Charlotte	53	54
Jupiter Inlet Colony	06	56	Eau Gallie	19	36	Punta Gorda	53	50
Lake Clark Shores	06	58	Florida Inst. Of Technology	19	56	Unincorporated	53	00
Lake Park	06	60	Indialantic	19	38	Cross City	54	40
Lake Worth	06	62	Indian Harbour Beach	19	40	Cross City AF Station	54	45
Lantana	06	64	June Park	19	47	Horseshoe Beach	54	50
Manalapan	06	66	Kennedy Space Center	19	64	Unincorporated	54	00
Mangonia Park	06	68	Malabar	19	60	Bell	55	44
North Palm Beach	06	70	Melbourne	19	42	Fanning Springs	55	46
Ocean Ridge	06	72	Melbourne AA	19	66	Trenton	55	50
Pahokee	06	74	Melbourne Beach	19	44	Unincorporated	55	00
Palm Beach	06	76	Melbourne Village	19	65	Jasper	56	40
Palm Beach AFB	06	75	Merritt Island	19	45	Jennings	56	42
Palm Beach Gardens	06	78	Mims	19	41	Unincorporated	56	00
Palm Beach School Bd.	06	96	Palm Bay	19	46	White Springs	56	60
Palm Beach Shores	06	80	Palm Shores	19	62	Okeechobee	57	50
Palm Springs	06	82	Patrick AFB	19	48	Unincorporated	57	00
Riveria Beach	06	84	Rockledge	19	50	Altha	58	30
Royal Palm Beach	06	86	Satellite Beach	19	52	Blountstown	58	32
South Bay	06	88	South Patrick Shores	19	51	Unincorporated	58	00
South Palm Beach	06	90	Titusville	19	54	Apalachicola	59	30
Tequesta Village	06	92	Unincorporated	19	00	Eastpoint	59	31
Unincorporated	06	00	West Eau Gallie	19	53	Carrabelle	59	32
Wellington	06	89	West Melbourne	19	43	Unincorporated	59	00
West Gate	06	93	FL School for Deaf/Blind	20	51	Moore Haven	60	40
West Palm Beach	06	94	FL Memorial College	20	30	Unincorporated	60	00

Appendix A: City Code(continued)

City Name	County Code	City Code	City Name	County Code	City Code	City Name	County Code	City Code
Apopka	07	30	Hastings	20	40	Beverly Beach	61	28
Azalea Park	07	44	Marineland	20	42	Bunnell	61	30
Bay Lake	07	31	Ponte Vedra	20	46	Flagler Beach	61	40
Belle Isle	07	32	St. Augustine	20	50	Marineland	61	42
Conway	07	47	St. Augustine Beach	20	52	Painter Hill	61	44
Eatonville	07	34	Unincorporated	20	00	Unincorporated	61	00
Edgewood	07	35	Chattahoochee	21	30	Mayo	62	40
Fairview Shores	07	36	Greensboro	21	32	Unincorporated	62	00
Holden Hills	07	49	Gretna	21	34	Lake Butler	63	40
Lake Buena Vista	07	53	Havana	21	40	Raiford	63	41
Lockhart	07	51	Midway	21	45	Unincorporated	63	00
Maitland	07	40	Quincy	21	50	Worthing Springs	63	50
McCoy AFB	07	56	Unincorporated	21	00	East Naples	64	56
Mount Dora	07	39	Crescent City	22	30	Everglades	64	40
Oakland	07	41	Interlachen	22	35	Immokalee	64	50
Ocoee	07	42	Palatka	22	40	Naples	64	52
Orlando Transit Authority	07	33	Unincorporated	22	00	North Naples	64	54
Orlando	07	46	Welaka	22	60	Unincorporated	64	00
Orlando AFB	07	58	Bayview	23	28	Crawfordville	65	30
Orlando TP	07	57	Calloway	23	30	Sopchoppy	65	60
Orlovista	07	43	Cedar Grove	23	32	St. Marks	65	62
Pine Hills	07	48	Highland Park	23	31	Unincorporated	65	00
Sky Lake	07	45	Lynn Haven	23	34	Wakulla	65	64
Univ. Of Central Florida	07	55	Mexico Beach	23	40	Port St. Joe	66	40
Unincorporated	07	00	Panama City	23	50	Unincorporated	66	00
Union Park	07	70	Panama City Beach	23	62	Ward Ridge	66	50
Windermere	07	50	Parker	23	51	Wewahitchka	66	52
Winter Garden	07	52	Springfield	23	52	Bristol	67	30
Winter Park	07	54	Tyndall AFB	23	60	Unincorporated	67	00
Bethune Cookman Col.	08	62	Unincorporated	23	00	Unincorporated	68	00

Appendix B: County Code

County	HSMV Code	DOT Code	County	HSMV Code	DOT Code	County	HSMV Code	DOT Code
Alachua	11	26	Leon	13	55	Hernando	40	08
Baker	52	27	Levy	39	34	Highlands	27	09
Bay	23	46	Liberty	67	56	Hillsborough	03	10
Bradford	45	28	Madison	35	35	Holmes	51	52
Brevard	19	70	Manatee	15	13	Indian River	32	88
Broward	10	86	Marion	14	36	Jackson	25	53
Calhoun	58	47	Martin	42	89	Jefferson	46	54
Charlotte	53	01	Miami-Dade	01	87	Lafayette	62	33
Citrus	47	02	Monroe	38	90	Lake	12	11
Clay	48	71	Nassau	41	74	Lee	18	12
Collier	64	03	Okaloosa	43	57	Suwannee	31	37
Columbia	29	29	Okeechobee	57	91	Taylor	37	38
DeSoto	34	04	Orange	07	75	Union	63	39
Dixie	54	30	Osceola	26	92	Volusia	08	79
Duval	02	72	Palm Beach	06	93	Wakulla	65	59
Escambia	09	48	Pasco	28	14	Walton	36	60
Flagler	61	73	Pinellas	04	15	Washington	50	61
Franklin	59	49	Polk	05	16			
Gadsden	21	50	Putnam	22	76	Unknown	68	
Gilchrist	55	31	Santa Rosa	33	58			
Glades	60	05	Sarasota	16	17			
Gulf	66	51	Seminole	17	77			
Hamilton	56	32	St. Johns	20	78			
Hardee	30	06	St. Lucie	24	94			
Hendry	49	07	Sumter	44	18			

Appendix C: Pedestrian Crash Types and Crash Groups

Crash Group Basic (Crash Group Number)	Crash Group Description (Crash Group Name)	Crash Type Basic (Crash Type Number)	Crash Type Description (Crash Type Name)
100	Unusual Circumstances	110	Assault with Vehicle
		120	Dispute-Related
		130	Pedestrian on Vehicle
		140	Vehicle-Vehicle/Object
		150	Motor Vehicle Loss of Control
		160	Pedestrian Loss of Control
		190	Other Unusual Circumstances
		220	Driverless Vehicle
		230	Disabled Vehicle-Related
		240	Emergency Vehicle-Related
200	Backing Vehicle	211	Backing Vehicle—Driveway
		212	Backing Vehicle—Driveway/Sidewalk Intersection
		213	Backing Vehicle—Roadway
		214	Backing Vehicle—Parking Lot
		219	Backing Vehicle—Other/Unknown
310	Working or Playing in Roadway	311	Working in Roadway
		312	Playing in Roadway
340	Bus-Related	341	Commercial Bus-Related
		342	School Bus-Related
350	Unique Midblock	320	Entering/Exiting Parked Vehicle
		330	Mailbox-Related
		360	Ice Cream/Vendor Truck-Related
400	Walking Along Roadway	410	Walking Along Roadway With Traffic—From Behind
		420	Walking Along Roadway With Traffic—From Front
		430	Walking Along Roadway Against Traffic—From Behind
		440	Walking Along Roadway Against Traffic—From Front
		459	Walking Along Roadway—Direction/Position Unknown

Appendix C: Pedestrian Crash Types and Crash Groups(continued)

Crash Group Basic (Crash Group Number)	Crash Group Description (Crash Group Name)	Crash Type Basic (Crash Type Number)	Crash Type Description (Crash Type Name)
460	Crossing Driveway or Alley	460	Motorist Entering Driveway or Alley
		465	Motorist Exiting Driveway or Alley
		469	Driveway Crossing—Other/Unknown
500	Waiting to Cross	510	Waiting to Cross—Vehicle Turning
		520	Waiting to Cross—Vehicle Not Turning
		590	Waiting to Cross—Vehicle Action Unknown
600	Pedestrian in Roadway-- Circumstances Unknown	620	Walking in Roadway
		610	Standing in Roadway
		313	Lying in Roadway
720	Multiple Threat/Trapped	710	Multiple Threat
		730	Trapped
740	Dash/Dart-Out	741	Dash
		742	Dart-Out
750	Crossing Roadway— Vehicle Not Turning	760	Pedestrian Failed to Yield
		770	Motorist Failed to Yield
790	Crossing Roadway— Vehicle Turning	781	Motorist Left Turn—Parallel Paths
		782	Motorist Left Turn—Perpendicular Paths
		792	Motorist Right Turn on Red—Parallel Paths
		795	Motorist Right Turn—Perpendicular Paths
		794	Motorist Right Turn on Red— Perpendicular Paths
		790	Crossing Roadway—Vehicle Turning
		799	Motorist Turn/Merge—Other/Unknown
800	Off Roadway	830	Off Roadway—Parking Lot
		890	Off Roadway—Other/Unknown
910	Crossing Expressway	910	Crossing an Expressway
990	Other/Unknown— Insufficient Details	680	Nonintersection—Other/Unknown
		690	Intersection—Other/Unknown

Appendix D: Bicyclist Crash Types and Crash Groups

Crash Group Basic (Crash Group Number)	Crash Group Description (Crash Group Name)	Crash Type Basic (Crash Type Number)	Crash Type Description (Crash Type Name)
110	Loss of Control/Turning Error	121	Bicyclist Lost Control—Mechanical problems
		122	Bicyclist Lost Control—Oversteering, Improper Braking, Speed
		123	Bicyclist Lost Control—Alcohol/Drug Impairment
		124	Bicyclist Lost Control—Surface Conditions
		129	Bicyclist Lost Control—Other/Unknown
		131	Motorist Lost Control—Mechanical problems
		132	Motorist Lost Control—Oversteering, Improper Braking, Speed
		133	Motorist Lost Control—Alcohol/Drug Impairment
		134	Motorist Lost Control—Surface Conditions
		139	Motorist Lost Control—Other/Unknown
		111	Motorist Turning Error—Left Turn
		112	Motorist Turning Error—Right Turn
		113	Motorist Turning Error—Other
		114	Bicyclist Turning Error—Left Turn
		115	Bicyclist Turning Error—Right Turn
		116	Bicyclist Turning Error—Other
140	Motorist Failed to Yield—Sign-Controlled Intersection	141	Motorist Drive-out—Sign-Controlled Intersection
		143	Motorist Drive-through—Sign-Controlled Intersection
145	Bicyclist Failed to Yield —Sign-Controlled Intersection	142	Bicyclist Ride-out—Sign-Controlled Intersection
		144	Bicyclist Ride Through—Sign-Controlled Intersection
		147	Multiple Threat—Sign-Controlled Intersection

Appendix D: Bicyclist Crash Types and Crash Groups(continued)

Crash Group Basic (Crash Group Number)	Crash Group Description (Crash Group Name)	Crash Type Basic (Crash Type Number)	Crash Type Description (Crash Type Name)
150	Motorist Failed to Yield—Signalized Intersection	152	Motorist Drive-out—Signalized Intersection
		151	Motorist Drive-out—Right Turn on Red
		154	Motorist Drive-through—Signalized Intersection
158	Bicyclist Failed to Yield—Signalized Intersection	153	Bicyclist Ride-out—Signalized Intersection
		155	Bicyclist Ride Through—Signalized Intersection
		156	Bicyclist Failed to Clear—Trapped
		157	Bicyclist Failed to Clear—Multiple Threat
		159	Bicyclist Failed to Clear—Unknown
190	Crossing Paths—Other Circumstances	148	Sign-Controlled Intersection—Other/Unknown
		158	Signalized Intersection—Other/Unknown
		180	Crossing Paths—Intersection—Other/Unknown Control
		160	Crossing Paths—Uncontrolled Intersection
		380	Crossing Paths—Midblock—Other/Unknown
210	Motorist Left Turn/Merge	211	Motorist Left Turn—Same Direction
		212	Motorist Left Turn—Opposite Direction
215	Motorist Right Turn/Merge	213	Motorist Right Turn—Same Direction
		217	Motorist Right Turn on Red—Same Direction
		214	Motorist Right Turn—Opposite Direction
		218	Motorist Right Turn on Red—Opposite Direction
220	Bicyclist Left Turn/Merge	221	Bicyclist Left Turn—Same Direction
		222	Bicyclist Left Turn—Opposite Direction
225	Bicyclist Right Turn/Merge	223	Bicyclist Right Turn—Same Direction
		224	Bicyclist Right Turn—Opposite Direction
219	Parking/Bus-Related	215	Motorist Drive-In/Out Parking
		216	Bus/Delivery Vehicle Pullover
230	Motorist Overtaking Bicyclist	231	Motorist Overtaking—Undetected Bicyclist
		232	Motorist Overtaking—Misjudged Space
		235	Motorist Overtaking—Bicyclist Swerved
		239	Motorist Overtaking—Other/ Unknown

Appendix D: Bicyclist Crash Types and Crash Groups(continued)

Crash Group Basic (Crash Group Number)	Crash Group Description (Crash Group Name)	Crash Type Basic (Crash Type Number)	Crash Type Description (Crash Type Name)
240	Bicyclist Overtaking Motorist	241	Bicyclist Overtaking—Passing on Right
		242	Bicyclist Overtaking—Passing on Left
		243	Bicyclist Overtaking—Parked Vehicle
		244	Bicyclist Overtaking—Extended Door
		249	Bicyclist Overtaking—Other/Unknown
258	Head-On	250	Head-On—Bicyclist
		255	Head-On—Motorist
		259	Head-On—Unknown
290	Parallel Paths—Other	219	Motorist Turn/Merge—Other/Unknown
		280	Parallel Paths—Other/Unknown Circumstances
		225	Bicyclist Ride-out—Parallel Path
310	Bicyclist Failed to Yield—Midblock	311	Bicyclist Ride-out—Residential Driveway
		312	Bicyclist Ride-out—Commercial Driveway/Alley
		318	Bicyclist Ride-out—Other Midblock
		319	Bicyclist Ride-out—Midblock—Unknown
		357	Multiple Threat— Midblock
320	Motorist Failed to Yield—Midblock	321	Motorist Drive-out—Residential Driveway
		322	Motorist Drive-out—Commercial Driveway/Alley
		328	Motorist Drive-out—Other Midblock
		329	Motorist Drive-out—Midblock—Unknown
600	Backing Vehicle	600	Backing Vehicle
850	Other/Unusual Circumstances	510	Motorist Intentionally Caused
		520	Bicyclist Intentionally Caused
		700	Play Vehicle-Related
		800	Unusual Circumstances
		400	Bicycle Only
910	Nonroadway	910	Nonroadway
990	Other/Unknown—Insufficient Details	980	Unknown Location
		970	Unknown Approach Paths

Appendix E: Comparison between FLHSMV and S4 Event table

FLHSMV Element Number	FLHSMV Element Name	S4 Element Number	S4 Element Name
1	Report Number	E1	Report Number
2	Crash Year	E2	Crash Year
3	Crash Date and Time	E3	Crash Date and Time
4	Report Date and Time	E4	Report Date and Time
5	Investigating Agency Report Number	E5	Investigating Agency Report Number
6	Form Type	E6	Form Type
7	Total Number of Vehicles	E7	Total Number of Vehicles
8	Total Number of Persons	E8	Total Number of Persons
9	Total Number of Narratives	E9	Total Number of Narratives (not included)
10	County Code	E10	County Code
11	City Code	E11	City Code
12	County Name	E12	County Name
13	City Name	E13	City Name
14	Rural or Urban	E14	Rural or Urban
15	Notified Time	E15	Notified Time
16	Dispatched Time	E16	Dispatched Time
17	Arrived Time	E17	Arrived Time
18	Cleared Time	E18	Cleared Time
19	Completed Flag	E19	Completed Flag
20	Reason Not Completed	E20	Reason Not Completed (not included)
21	Notified By	E21	Notified By
22	On Street, Road, Highway	E22	On Street, Road, Highway
23	Street Address Number	E23	Street Address Number
24	Latitude	E24	Latitude
25	Longitude	E25	Longitude
26	Feet From Intersection	E26	Feet From Intersection
27	Miles From Intersection	E27	Miles From Intersection (not included)
28	Direction From Intersection	E28	Direction From Intersection
29	From Intersection Of	E29	From Intersection Of
30	From Milepost Number	E30	Milepost Number
31	Road System Identifier	E31	Road System Identifier
32	Type of Shoulder	E32	Type of Shoulder

Event table(continued)

FLHSMV Element Number	FLHSMV Element Name	S4 Element Number	S4 Element Name
33	Type of Intersection	E33	Type of Intersection
34	Photos Taken	E34	Photos Taken
35	Light Condition	E35	Light Condition
36	Weather Condition	E36	Weather Condition
37	Road Surface Condition	E37	Road Surface Condition
38	School Bus Related Code	E38	School Bus Related Code
39	Type of Impact	E39	Type of Impact
40	First Harmful Event	E40	First Harmful Event
41	Location	E41	Location
42	Interchange Flag	E42	Interchange Flag
43	Junction Flag	E43	Junction Flag
44	Road Circumstances 1	E44	Road Circumstances 1
45	Road Circumstances 2	E45	Road Circumstances 2
46	Road Circumstances 3	E46	Road Circumstances 3
47	Environment Circumstances 1	E47	Environment Circumstances 1
48	Environment Circumstances 2	E48	Environment Circumstances 2
49	Environment Circumstances 3	E49	Environment Circumstances 3
50	Work Zone Related Flag	E50	Work Zone Related Flag
51	Crash in Work Zone	E51	Crash in Work Zone
52	Type of Work Zone	E52	Type of Work Zone
53	Workers Present	E53	Workers Present
54	Law Enforcement Present	E54	Law Enforcement Present
55	Investigator ID	E55	Investigator ID (not included)
56	Investigator Rank	E56	Investigator Rank
57	Investigator First Name	E57	Investigator First Name (not included)
58	Investigator Middle Name	E58	Investigator Middle Name (not included)
59	Investigator Last Name	E59	Investigator Last Name (not included)
60	Investigator Suffix	E60	Investigator Suffix (not included)
61	Investigating Agency Name	E61	Investigating Agency Name
62	Investigating Agency Type	E62	Investigating Agency Type
63	Load Date	E63	Load Date
	in source but not in HSMV dictionary	E64	Codeable
	N/A	E65	S4 Crash Type
	N/A	E66	S4 Crash Type Simplified
	N/A	E67	S4 Crash Severity

Event table(continued)

FLHSMV Element Number	FLHSMV Element Name	S4 Element Number	S4 Element Name
N/A		E68	S4 Crash Severity Detail
N/A		E69	S4 Day or Night
N/A		E70	S4 Is Aggressive Driving
N/A		E71	S4 Is Alcohol Related
N/A		E72	S4 Is CMV Involved
N/A		E73	S4 Is Distracted
N/A		E74	S4 Is Drug Related
N/A		E75	S4 Is Hit and Run
N/A		E76	S4 Is Intersection Related
N/A		E77	S4 Is Lane Departure Related
N/A		E78	S4 Is Speeding Related
N/A		E79	S4 None Injury Count
N/A		E80	S4 Injury Count
N/A		E81	S4 Possible Injury Count
N/A		E82	S4 Non-Incapacitating Injury Count
N/A		E83	S4 Incapacitating Injury Count
N/A		E84	S4 Fatality Count
N/A		E85	S4 Fatality Within 30 Days Count
N/A		E86	S4 Non-traffic Fatality Count
N/A		E87	S4 Trailer Count
N/A		E88	S4 Motorcycle Count
N/A		E89	S4 Moped Count
N/A		E90	S4 Non-motorist Count
N/A		E91	S4 Bicyclist Count
N/A		E92	S4 Pedestrian Count
N/A		E93	S4 Driver Count
N/A		E94	S4 Aging Driver Count
N/A		E95	S4 Teenager Driver Count
N/A		E96	S4 Passenger Count
N/A		E97	S4 Unrestrained Count
N/A		E98	S4 Unrestrained Injury Count
N/A		E99	S4 Unrestrained Incapacitating Injury Count
N/A		E100	S4 Unrestrained Fatality Count
N/A		E101	S4 Motorcyclist Count

Event table(continued)

FLHSMV Element Number	FLHSMV Element Name	S4 Element Number	S4 Element Name
	N/A	E102	S4 Motorcyclist Incapacitating Injury Count
	N/A	E103	S4 Motorcyclist Fatality Count
	N/A	E104	S4 Is Pedestrian Involved
	N/A	E105	S4 Pedestrian Incapacitating Injury Count
	N/A	E106	S4 Pedestrian Fatality Count
	N/A	E107	S4 Is Bicyclist Involved
	N/A	E108	S4 Bicyclist Incapacitating Injury Count
	N/A	E109	S4 Bicyclist Fatality Count
	N/A	E110	S4 Citation Count
	N/A	E111	S4 Citation Amount
	N/A	E112	S4 Property Damage Count
	N/A	E113	S4 Property Damage Amount
	N/A	E114	S4 Vehicle Damage Count
	N/A	E115	S4 Vehicle Damage Amount
	N/A	E116	S4 Total Damage Amount
	N/A	E117	S4 Transport by EMS Count
	N/A	E118	S4 Transport by Law Enforcement Count
	N/A	E119	S4 Transport by Other Count

Vehicle table

FLHSMV Element Number	FLHSMV Element Name	S4 Element Number	S4 Element Name
1	Report Number	V1	Report Number
2	Crash Year	V2	Crash Year
3	Vehicle Number	V3	Vehicle Number
4	Owner Business Name	V4	Owner Business Name (not included)
5	Owner First Name	V5	Owner First Name (not included)
6	Owner Middle Name	V6	Owner Middle Name (not included)
7	Owner Last Name	V7	Owner Last Name (not included)
8	Owner Suffix	V8	Owner Suffix (not included)
9	Owner Phone	V9	Owner Phone (not included)
10	Owner Address	V10	Owner Address (not included)

Vehicle table(continued)

FLHSMV Element Number	FLHSMV Element Name	S4 Element Number	S4 Element Name
11	Owner City	V11	Owner City
12	Owner State	V12	Owner State
13	Owner Zip Code	V13	Owner Zip Code
14	Commercial Vehicle Flag	V14	Commercial Vehicle Flag
15	Motion Code	V15	Motion Code
16	Tag Number	V16	Tag Number (not included)
17	State of Registration	V17	State of Registration
18	Registration Expiration Date	V18	Registration Expiration Date (not included)
19	Permanent Registration Flag	V19	Permanent Registration Flag
20	Vehicle Identification Number	V20	Vehicle Identification Number (not included)
21	Hit and Run Flag	V21	Hit and Run Flag
22	Vehicle Year	V22	Vehicle Year
23	Vehicle Make	V23	Vehicle Make
24	Vehicle Model	V24	Vehicle Model
25	Vehicle Style	V25	Vehicle Style
26	Vehicle Color	V26	Vehicle Color
27	Disabling Functional Damage	V27	Disabling Functional Damage
28	Estimated Vehicle Damage	V28	Estimated Vehicle Damage
29	Tow Damage Code	V29	Tow Damage Code
30	Tow Company Name	V30	Tow Company Name (not included)
31	How Tow Responded	V31	How Tow Responded
32	Business Owned Flag	V32	Business Owned Flag
33	Carrier Total Axles	V33	Carrier Total Axles (not included)
34	Vehicle Traveling	V34	Vehicle Traveling
35	Road On	V35	Road On
36	Estimated MPH	V36	Estimated Speed
37	Posted Speed	V37	Posted Speed
38	Total Number of Lanes	V38	Total Number of Lanes
39	Hazardous Material Released	V39	Hazardous Material Released
40	Hazmat Placard	V40	Hazmat Placard
41	Hazardous Placard Number	V41	Hazardous Placard Number
42	Hazmat Class	V42	Hazmat Class
43	Point of Impact	V43	Point of Impact
44	Most Damaged Area Code	V44	Most Damaged Area Code
45	Type of Vehicle	V45	Type of Vehicle
46	Trafficway Code	V46	Trafficway Code

Vehicle table(continued)

FLHSMV Element Number	FLHSMV Element Name	S4 Element Number	S4 Element Name
47	Commercial Vehicle Configuration Code	V47	Commercial Vehicle Configuration Code
48	Commercial Use Code	V48	Commercial Use Code
49	Carrier Cargo Body Type	V49	Carrier Cargo Body Type
50	Commercial Vehicle Weight Code	V50	Commercial Vehicle Weight Code
51	Most Harmful Event Code	V51	Most Harmful Event Code
52	Harmful Event 1	V52	Harmful Event 1
53	Harmful Event 2	V53	Harmful Event 2
54	Harmful Event 3	V54	Harmful Event 3
55	Harmful Event 4	V55	Harmful Event 4
56	Emergency Vehicle Use Code	V56	Emergency Vehicle Use Code
57	Roadway Grade Code	V57	Roadway Grade Code
58	Roadway Alignment Code	V58	Roadway Alignment Code
59	Vehicle Maneuver Action	V59	Vehicle Maneuver Action
60	Traffic Control Device	V60	Traffic Control Device
61	Vehicle Special Function	V61	Vehicle Special Function
62	Vehicle Defect 1	V62	Vehicle Defect 1
63	Vehicle Defect 2	V63	Vehicle Defect 2
	N/A	V64	S4 Is Commercial Motor Vehicle

Driver table

FLHSMV Element Number	FLHSMV Element Name	S4 Element Number	S4 Element Name
1	Report Number	D1	Report Number
2	Crash Year	D2	Crash Year
3	Vehicle Number	D3	Vehicle Number
4	Person Number	D4	Person Number
5	Recommended Re-Exam	D5	Recommended Re-Exam
6	DL Number	D6	DL Number (not included)
7	DL State	D7	DL State
8	DL Expiration	D8	DL Expiration (not included)
9	DL Type	D9	DL Type
10	Driver Distraction Code	D10	Driver Distraction Code

Driver table(continued)

FLHSMV Element Number	FLHSMV Element Name	S4 Element Number	S4 Element Name
11	Condition at Time of Crash	D11	Condition at Time of Crash
12	Required Endorsements	D12	Required Endorsements
13	Vision Obstructed	D13	Vision Obstructed
14	Insurance Company	D14	Insurance Company
15	Policy Number	D15	Policy Number (not included)
16	First Name	D16	First Name (not included)
17	Middle Name	D17	Middle Name (not included)
18	Last Name	D18	Last Name (not included)
19	Suffix	D19	Suffix (not included)
20	Phone Number	D20	Phone Number (not included)
21	Address	D21	Address (not included)
22	City	D22	City
23	State	D23	State
24	Zip Code	D24	Zip Code
25	Date of Birth	D25	Date of Birth (not included)
26	Sex	D26	Sex
27	Helmet Code	D27	Helmet Code
28	Restraint System Code	D28	Restraint System Code
29	Eye Protection Code	D29	Eye Protection Code
30	Air Bag Deployment Code	D30	Air Bag Deployment Code
31	Ejected	D31	Ejected
32	Suspected Alcohol Use Code	D32	Suspected Alcohol Use Code
33	Alcohol Tested Code	D33	Alcohol Tested Code
34	Alcohol Test Type Code	D34	Alcohol Test Type Code
35	Alcohol Test Results	D35	Alcohol Test Results
36	Blood Alcohol Content	D36	Blood Alcohol Content
37	Suspected Drug Use Code	D37	Suspected Drug Use Code
38	Drug Tested Code	D38	Drug Tested Code
39	Drug Test Type Code	D39	Drug Test Type Code
40	Drug Test Results	D40	Drug Test Results
41	Injury Severity	D41	Injury Severity
42	EMS Transport Type	D42	EMS Transport Type
43	EMS Agency Name	D43	EMS Agency Name (not included)
44	EMS Run Number	D44	EMS Run Number (not included)
45	Injured Taken Location	D45	Injured Taken Location (not included)

Driver table(continued)

FLHSMV Element Number	FLHSMV Element Name	S4 Element Number	S4 Element Name
46	Seat Position Code	D46	Seat Position Code (not included)
47	Row Position Code	D47	Row Position Code (not included)
48	Other Position Code	D48	Other Position Code (not included)
49	Driver Action 1	D49	Driver Action 1
50	Driver Action 2	D50	Driver Action 2
51	Driver Action 3	D51	Driver Action 3
52	Driver Action 4	D52	Driver Action 4
	N/A	D53	S4 Age_driver
	N/A	D54	S4 Is Aggressive Driving_driver
	N/A	D55	S4 Is Alcohol Related_driver
	N/A	D56	S4 Is Drug Related_driver
	N/A	D57	S4 Is Distracted_driver
	N/A	D58	S4 Is Speeding Related_driver
	N/A	D59	S4 Is Aging Driver_driver
	N/A	D60	S4 Is Teenager Driver_driver
	N/A	D61	S4 Is Unrestrained_driver

Passenger table

FLHSMV Element Number	FLHSMV Element Name	S4 Element Number	S4 Element Name
1	Report Number	P1	Report Number
2	Crash Year	P2	Crash Year
3	Vehicle Number	P3	Vehicle Number
4	Person Number	P4	Person Number
5	First Name	P5	First Name (not included)
6	Middle Name	P6	Middle Name (not included)
7	Last Name	P7	Last Name (not included)
8	Suffix	P8	Suffix (not included)
9	Phone Number	P9	Phone Number (not included)
10	Address	P10	Address (not included)
11	City	P11	City
12	State	P12	State
13	Zip Code	P13	Zip Code
14	Date of Birth	P14	Date of Birth (not included)
15	Sex	P15	Sex

Passenger table(continued)

FLHSMV Element Number	FLHSMV Element Name	S4 Element Number	S4 Element Name
16	Helmet Code	P16	Helmet Code
17	Restraint System Code	P17	Restraint System Code
18	Eye Protection Code	P18	Eye Protection Code
19	Air Bag Deployment Code	P19	Air Bag Deployment Code
20	Ejected	P20	Ejected
21	Injury Severity	P21	Injury Severity
22	EMS Transport Type	P22	EMS Transport Type
23	EMS Agency Name	P23	EMS Agency Name (not included)
24	EMS run Number	P24	EMS run Number (not included)
25	Injured Taken Location	P25	Injured Taken Location (not included)
26	Seat Position Code	P26	Seat Position Code
27	Row Position Code	P27	Row Position Code
28	Other Position Code	P28	Other Position Code
	N/A	P29	S4 Age_passenger
	N/A	P30	S4 Is Unrestrained_passenger

Non-motorist table

FLHSMV Element Number	FLHSMV Element Name	S4 Element Number	S4 Element Name
1	Report Number	N1	Report Number
2	Crash Year	N2	Crash Year
3	Person Number	N3	Person Number
4	Location At Time of Crash Code	N4	Location at Time of Crash Code
5	Action Prior to Crash Code	N5	Action Prior to Crash Code
6	Non-Motorist Description Code	N6	Non-Motorist Description Code
7	First Name	N7	First Name (not included)
8	Middle Name	N8	Middle Name (not included)
9	Last Name	N9	Last Name (not included)
10	Suffix	N10	Suffix (not included)
11	Phone Number	N11	Phone Number (not included)
12	Address	N12	Address (not included)

Non-motorist table(continued)

FLHSMV Element Number	FLHSMV Element Name	S4 Element Number	S4 Element Name
13	City	N13	City
14	State	N14	State
15	Zip Code	N15	Zip Code
16	Date of Birth	N16	Date of Birth (not included)
17	Sex	N17	Sex
18	Suspected Alcohol Use Code	N18	Suspected Alcohol Use Code
19	Alcohol Tested Code	N19	Alcohol Tested Code
20	Alcohol Test Type Code	N20	Alcohol Test Type Code
21	Alcohol Test Result	N21	Alcohol Test Result
22	Blood Alcohol Content	N22	Blood Alcohol Content
23	Suspected Drug Use Code	N23	Suspected Drug Use Code
24	Drug Tested Code	N24	Drug Tested Code
25	Drug Test Type Code	N25	Drug Test Type Code
26	Drug Test Result	N26	Drug Test Result
27	Injury Severity	N27	Injury Severity
28	EMS Transport Type	N28	EMS Transport Type
29	EMS Agency Name	N29	EMS Agency Name (not included)
30	EMS Run Number	N30	EMS Run Number (not included)
31	Injured Taken Location	N31	Injured Taken Location (not included)
32	Non-Motorist Actions/Circumstances 1	N32	Non-Motorist Actions/Circumstances 1
33	Non-Motorist Actions/Circumstances 2	N33	Non-Motorist Actions/Circumstances 2
34	Safety Equipment Code 1	N34	Safety Equipment Code 1
35	Safety Equipment Code 2	N35	Safety Equipment Code 2
	N/A	N36	S4 Age_non_motorist
	N/A	N37	S4 Is Alcohol Related_non_motorist
	N/A	N38	S4 Is Drug Related_non_motorist
	N/A	N39	S4 Is Aging Non_motorist
	N/A	N40	S4 Is Teenager Non_motorist

Violation table

FLHSMV Element Number	FLHSMV Element Name	S4 Element Number	S4 Element Name
1	Report Number	VI1	Report Number
2	Crash Year	VI2	Crash Year
3	Person Number	VI3	Person Number

Violation table(continued)

FLHSMV Element Number	FLHSMV Element Name	S4 Element Number	S4 Element Name
4	Statute Number	VI4	Statute Number
5	Charge	VI5	Charge
6	Citation Number	VI6	Citation Number

Pedestrian typing

FLHSMV Element Number	FLHSMV Element Name	S4 Element Number	S4 Element Name
1	Report Number	PE1	Report Number
	N/A	PE2	S4 Crash Group Number
	N/A	PE3	S4 Crash Group Description
	N/A	PE4	S4 Crash Type Number
	N/A	PE5	S4 Crash Type Description
	N/A	PE6	S4 Crash Location
	N/A	PE7	S4 Leg of Intersection
	N/A	PE8	S4 Motorist Direction
	N/A	PE9	S4 Motorist Maneuver
	N/A	PE10	S4 Pedestrian Direction
	N/A	PE11	S4 Pedestrian Position
	N/A	PE12	S4 Pedestrian Movement
	N/A	PE13	S4 Typing Notes

Bicycle typing

FLHSMV Element Number	FLHSMV Element Name	S4 Element Number	S4 Element Name
1	Report Number	B1	Report Number
	N/A	B2	S4 Bike Crash Group Number
	N/A	B3	S4 Crash Group Description
	N/A	B4	S4 Crash Type Number
	N/A	B5	S4 Crash Type Description
	N/A	B6	S4 Crash Location

Bicycle typing(continued)

FLHSMV Element Number	FLHSMV Element Name	S4 Element Number	S4 Element Name
	N/A	B7	S4 Bicyclist Direction
	N/A	B8	S4 Bicyclist Position
	N/A	B9	S4 Typing Notes

Mapped event table

FLHSMV Element Number	FLHSMV Element Name	S4 Element Number	S4 Element Name
1	Report Number	M1	Report Number
	N/A	M3	S4_Mapper
	N/A	M4	S4_Editor_Verified
	N/A	M5	S4_Location_Type
	N/A	M6	S4_Mapping_Date
	N/A	M7	S4_ALBERS_X
	N/A	M8	S4_ALBERS_Y
	N/A	M9	S4_Latitude
	N/A	M10	S4_Longitude

Appendix F: Crash Types in Signal Four Analytics

In Signal Four Analytics (s4.geoplan.ufl.edu), crash type is a calculated value. There is no single crash type field on the Florida Traffic Crash Report (HSMV 90010 S). Rather, crash type is derived based on the value(s) of one or more of the following crash report fields:

- First Harmful Event
- Manner of Collision/Impact
- Number of Vehicles
- Vehicle Maneuver Action
- Vehicle Direction of Travel
- Vehicle Area of Initial Impact

In calculating the crash type, only the first two vehicles are considered.

There are 13 crash types in Signal Four Analytics. They are referred to as *simple* crash types. Some of the simple crash types can be further *detailed* e.g. for the simple crash type Sideswipe, there are two detailed crash types - Opposing Sideswipe and Same Direction Sideswipe. Most of the crash types are only simple types. Only a few crash types have a detailed version.

Following is the list of the available crash types (*detailed type* shown in parenthesis) in Signal Four Analytics: **Pedestrian**, **Bicycle**, **Animal**, **Rollover**, **Off Road**, **Angle**, **Left Turn** (*Left Entering, Left Leaving, Left Rear*), **Right Turn** (*Right/Left, Right/Through, Right/U-Turn*), **Sideswipe** (*Opposing Sideswipe, Same Direction Sideswipe*), **Head On**, **Rear End**, **Other** (*Single Vehicle, Parked Vehicle, Backed Into*) and **Unknown**.

The section below provides a description of each crash type as defined and calculated in Signal Four Analytics:

Crash Type Definitions

Pedestrian: First harmful event is “10 – Pedestrian”.

Bicycle: First harmful event is “11 – Pedalcycle”.

Animal: First harmful event is “13 – Animal”.

Rollover: First harmful event is “1 – Overturn/Rollover”.

Off Road: First harmful event is any “Collision with Fixed Object” (on the theory there are no fixed objects on the roadway).

Angle: Vehicle 1 maneuver is straight ahead. Vehicle 2 maneuver is straight ahead. Vehicle directions of travel are perpendicular.

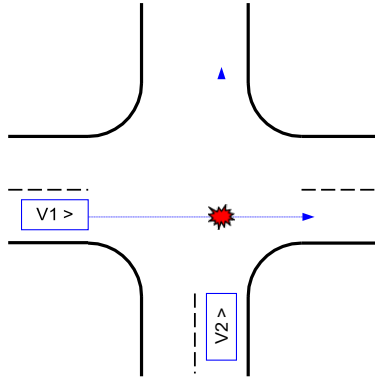


Figure 1 - Angle Crash Type

Left Turn: A simplified crash type for left turns crashes. The detailed left turn type crashes are:

Left Entering: Vehicle directions of travel are opposite. One vehicle maneuver is turning left. One vehicle maneuver is straight ahead. Vehicle directions of travel after completing their respective maneuvers would have been perpendicular.

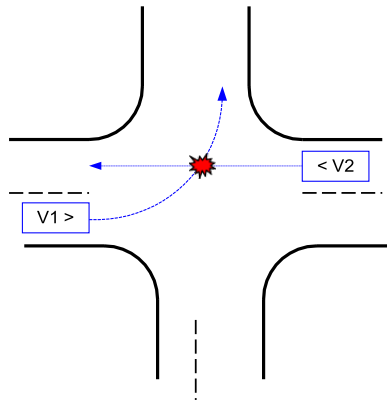


Figure 2 - Left Entering Crash Type

Left Leaving: Vehicle directions of travel are perpendicular. One vehicle maneuver is turning left. One vehicle maneuver is straight ahead. Vehicle directions of travel after completing their respective maneuvers would have been opposite.

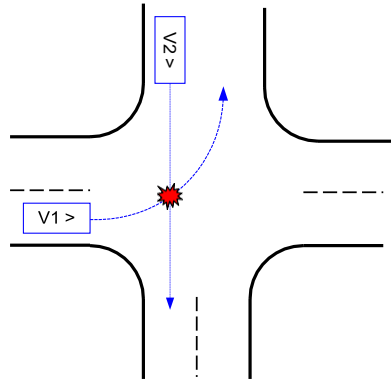


Figure 3 - Left Leaving Crash Type

Left Rear: Vehicle directions of travel are perpendicular. One vehicle maneuver is turning left. One vehicle maneuver is straight ahead. Vehicle directions of travel after completing their respective maneuvers would have been the same.

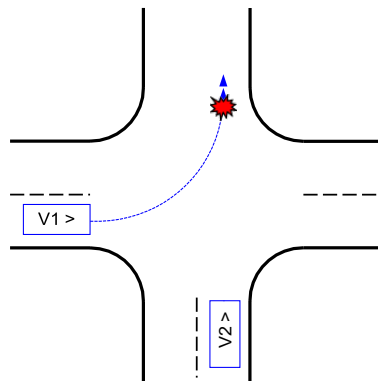


Figure 4 - Left Rear Crash Type

Right Turn: A simplified crash type for right turns crashes. The detailed right turn crash types are:

Right/Left: Vehicle directions of travel are opposite. One vehicle maneuver is turning right. One vehicle maneuver is turning left. Vehicle directions of travel after completing their respective maneuvers would have been the same.

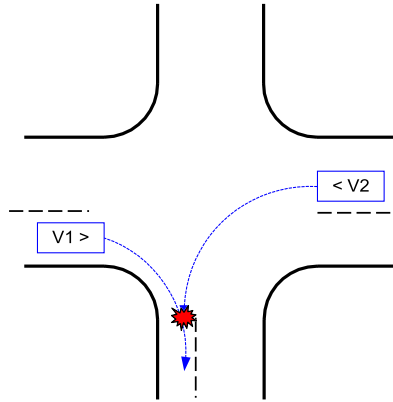


Figure 5 - Right/Left Crash Type

Right/Through: Vehicle directions of travel are perpendicular. One vehicle maneuver is turning right. One vehicle maneuver is straight ahead. Vehicle directions of travel after completing their respective maneuvers would have been the same.

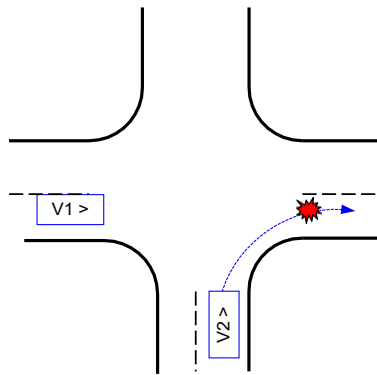


Figure 6 - Right/Through Crash Type

Right/U-Turn: Vehicle directions of travel are perpendicular. One vehicle maneuver is turning right. One vehicle maneuver is making a U-turn. Vehicle directions of travel after completing their respective maneuvers would have been the same.

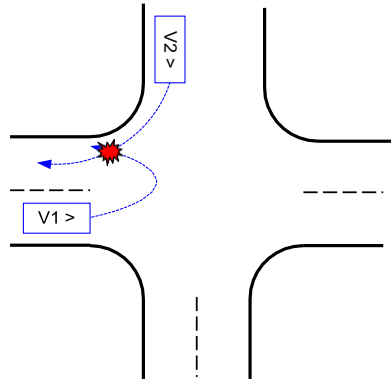


Figure 7 - Right/U-Turn Crash Type

Sideswipe: A simplified crash type for sideswipe crashes. The detailed sideswipe crash types are:

Opposing Sideswipe: Vehicle directions of travel are opposite. Both vehicle areas of initial impact are side.

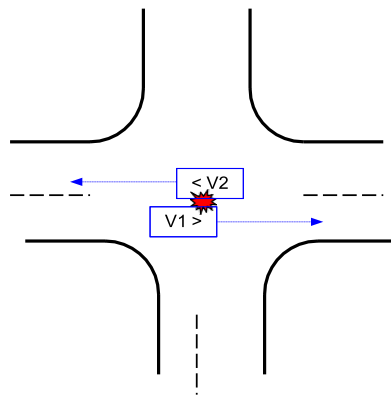


Figure 8 - Opposing Sideswipe Crash Type

Same Direction Sideswipe: Vehicle directions of travel are the same. Both vehicle areas of initial impact are side.

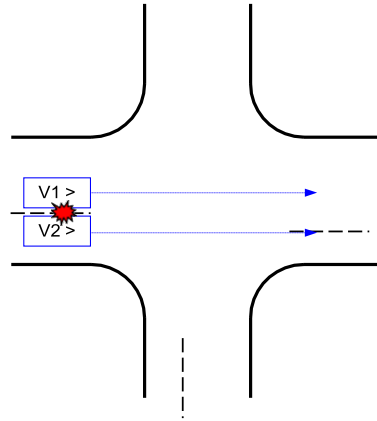


Figure 9 - Same Direction Sideswipe Crash Type

Head On: Vehicle directions of travel are opposite. Both vehicle areas of initial impact are front.

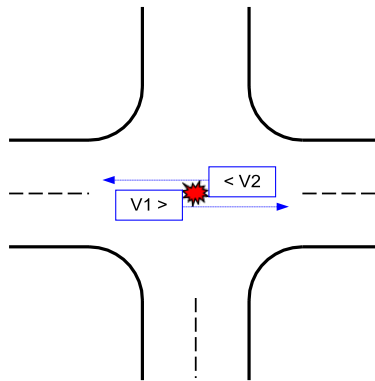


Figure 10 - Head On Crash Type

Rear End: Vehicle directions of travel are the same. One vehicle area of initial impact is front. One vehicle area of initial impact is rear.

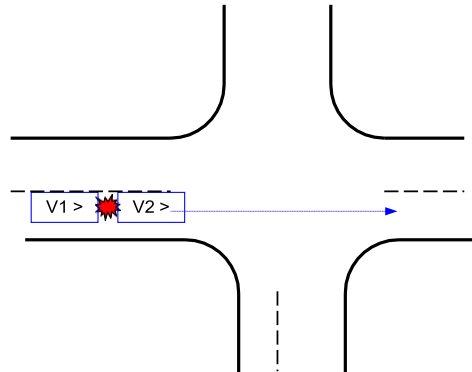


Figure 11 - Rear End Crash Type

Other: All other combinations of First Harmful Event, Manner of Collision/Impact, Number of Vehicles, Vehicle Maneuver Action, Vehicle Direction of Travel and Vehicle Area of Initial Impact that did not lead unambiguously to one of the above crash types. Also, *other* is used as a simplified crash type for the following detailed crash types:

Single Vehicle: Number of vehicles is one.

Parked Vehicle: Either vehicle maneuver is “8 – Parked”.

Backed Into: Either vehicle maneuver is “4 – Backing”.

Unknown: Insufficient data to perform crash type calculation, or data provided was logically inconsistent.

Appendix G: Florida Traffic Crash Report

FLORIDA TRAFFIC CRASH REPORT

LONG FORM SHORT FORM UPDATE
(Shaded Areas)

TOTAL # OF VEHICLE SECTION(S) _____

MAIL TO: DEPARTMENT OF HIGHWAY SAFETY & MOTOR VEHICLES
 TRAFFIC CRASH RECORDS, NEIL KIRKMAN BUILDING
 TALLAHASSEE, FL 32399-0537

TOTAL # OF PERSON SECTION(S) _____

TOTAL # OF NARRATIVE SECTION(S) _____

CRASH DATE		TIME OF CRASH		DATE OF REPORT		REPORTING AGENCY CASE NUMBER		HSMV CRASH REPORT NUMBER		
CRASH IDENTIFIERS										
COUNTY CODE		CITY CODE		COUNTY OF CRASH		PLACE OR CITY OF CRASH		CHECK IF WITHIN CITY LIMITS <input type="checkbox"/>	TIME REPORTED	TIME DISPATCHED
TIME ON SCENE		TIME CLEARED SCENE		CHECK IF COMPLETED <input type="checkbox"/>	REASON (If Investigation NOT Complete)				Notified By: 1 Motorist <input type="checkbox"/> 2 Law Enforcement <input type="checkbox"/>	
ROADWAY INFORMATION (CHOOSE ONLY 1 OF 4 OPTIONS)										
CRASH OCCURRED ON STREET, ROAD, HIGHWAY nw 12th st						AT STREET ADDRESS # 1	AT LATITUDE 2	AND LONGITUDE		
AT FEET	MILES	N	S	E	W	FROM INTERSECTION WITH STREET, ROAD, HIGHWAY 3			OR FROM MILEPOST # 4	
Road System Identifier		Type of Shoulder		Type of Intersection						
<input type="checkbox"/> 1 Interstate <input type="checkbox"/> 2 U.S. <input type="checkbox"/> 3 State <input type="checkbox"/> 4 County <input type="checkbox"/> 5 Local <input type="checkbox"/> 6 Turnpike/Toll <input type="checkbox"/> 7 Forest Road <input type="checkbox"/> 8 Private Roadway <input type="checkbox"/> 9 Parking Lot <input type="checkbox"/> 77 Other, Explain in Narrative		<input type="checkbox"/> 1 Paved <input type="checkbox"/> 2 Unpaved <input type="checkbox"/> 3 Curb		<input type="checkbox"/> 1 Not at Intersection <input type="checkbox"/> 2 Four-Way Intersection <input type="checkbox"/> 3 T-Intersection <input type="checkbox"/> 4 Y-Intersection <input type="checkbox"/> 5 Traffic Circle <input type="checkbox"/> 6 Roundabout <input type="checkbox"/> 7 Five-Point, or More <input type="checkbox"/> 77 Other, Explain in Narrative						
CRASH INFORMATION (CHECK IF PICTURES TAKEN) <input checked="" type="checkbox"/> 33										
Light Condition		Weather Condition		Roadway Surface Condition		School Bus Related		Manner of Collision/Impact		
<input type="checkbox"/> 1 Daylight <input type="checkbox"/> 2 Dusk <input type="checkbox"/> 3 Dawn <input type="checkbox"/> 4 Dark-Lighted <input type="checkbox"/> 5 Dark-Not Lighted <input type="checkbox"/> 6 Dark-Unknown <input type="checkbox"/> 77 Other, Explain in Narrative <input type="checkbox"/> 88 Unknown		<input type="checkbox"/> 1 Clear <input type="checkbox"/> 2 Cloudy <input type="checkbox"/> 3 Rain <input type="checkbox"/> 4 Fog, Smog, Smoke <input type="checkbox"/> 5 Sleet/Hail/Freezing Rain <input type="checkbox"/> 6 Blowing Sand, Soil, Dirt <input type="checkbox"/> 7 Severe Crosswinds <input type="checkbox"/> 77 Other, Explain in Narrative		<input type="checkbox"/> 1 Dry <input type="checkbox"/> 2 Wet <input type="checkbox"/> 4 Ice/Frost <input type="checkbox"/> 5 Oil <input type="checkbox"/> 6 Mud, Dirt, Gravel <input type="checkbox"/> 7 Sand <input type="checkbox"/> 8 Water (standing/moving) <input type="checkbox"/> 77 Other, Explain in Narrative <input type="checkbox"/> 88 Unknown		<input type="checkbox"/> 1 No <input type="checkbox"/> 2 Yes, School Bus Directly Involved <input type="checkbox"/> 3 Yes, School Bus Indirectly Involved		<input type="checkbox"/> 4 Sideswipe, same direction <input type="checkbox"/> 5 Sideswipe, Opposite Direction <input type="checkbox"/> 6 Rear to Side <input type="checkbox"/> 7 Rear to Rear <input type="checkbox"/> 77 Other, Explain in Narrative <input type="checkbox"/> 88 Unknown <input type="checkbox"/> 1 Front to Rear <input type="checkbox"/> 2 Front to Front <input type="checkbox"/> 3 Angle		
First Harmful Event		Non-Collision		Collision Non-Fixed Object		Collision with Fixed Object		First Harmful Event Location		
<input type="checkbox"/> 1 No <input type="checkbox"/> 2 Yes <input type="checkbox"/> 88 Unknown		<input type="checkbox"/> 1 Overturn/Rollover <input type="checkbox"/> 2 Fire/Explosion <input type="checkbox"/> 3 Immersion <input type="checkbox"/> 4 Jackknife <input type="checkbox"/> 5 Cargo/Equipment Loss or Shift <input type="checkbox"/> 6 Fell/Jumped From Motor Vehicle <input type="checkbox"/> 7 Thrown or Falling Object <input type="checkbox"/> 8 Ran into Water/Canal <input type="checkbox"/> 9 Other Non-Collision		<input type="checkbox"/> 10 Pedestrian <input type="checkbox"/> 11 Pedalcycle <input type="checkbox"/> 12 Railway Vehicle (train, engine) <input type="checkbox"/> 13 Animal <input type="checkbox"/> 14 Motor Vehicle in Transport <input type="checkbox"/> 15 Parked Motor Vehicle <input type="checkbox"/> 16 Work Zone/Maintenance Equipment <input type="checkbox"/> 17 Struck By Falling, Shifting Cargo <input type="checkbox"/> 18 Other Non-Fixed Object		<input type="checkbox"/> 19 Impact Attenuator/Crash Cushion <input type="checkbox"/> 20 Bridge Overhead Structure <input type="checkbox"/> 21 Bridge Pier or Support <input type="checkbox"/> 22 Bridge Rail <input type="checkbox"/> 23 Culvert <input type="checkbox"/> 24 Curb <input type="checkbox"/> 25 Ditch <input type="checkbox"/> 26 Embankment <input type="checkbox"/> 27 Guardrail Face <input type="checkbox"/> 28 Guardrail End <input type="checkbox"/> 29 Cable Barrier <input type="checkbox"/> 30 Concrete Traffic Barrier <input type="checkbox"/> 31 Other Traffic Barrier <input type="checkbox"/> 32 Tree (standing) <input type="checkbox"/> 33 Utility Pole/Light Support <input type="checkbox"/> 34 Traffic Sign Support <input type="checkbox"/> 35 Traffic Signal Support <input type="checkbox"/> 36 Other Post, Pole or Support <input type="checkbox"/> 37 Fence <input type="checkbox"/> 38 Mailbox <input type="checkbox"/> 39 Other Fixed Object (wall, building, tunnel, etc.)		<input type="checkbox"/> 1 On Roadway <input type="checkbox"/> 2 Off Roadway <input type="checkbox"/> 3 Shoulder <input type="checkbox"/> 4 Median <input type="checkbox"/> 6 Gore <input type="checkbox"/> 7 Separator <input type="checkbox"/> 8 In Parking Lane or Zone <input type="checkbox"/> 9 Outside Right-of-way <input type="checkbox"/> 10 Roadside <input type="checkbox"/> 88 Unknown		
First Harmful Event Relation to Junction		Contributing Circumstances: Road		Contributing Circumstances: Environment						
<input type="checkbox"/> 1 Non-Junction <input type="checkbox"/> 2 Intersection <input type="checkbox"/> 3 Intersection-Related <input type="checkbox"/> 4 Driveway/Alley Access Related <input type="checkbox"/> 5 Railway Grade Crossing <input type="checkbox"/> 14 Entrance/Exit Ramp <input type="checkbox"/> 15 Crossover - Related <input type="checkbox"/> 16 Shared-Use Path or Trail <input type="checkbox"/> 17 Acceleration/Deceleration Lane <input type="checkbox"/> 18 Through Roadway <input type="checkbox"/> 77 Other, Explain in Narrative <input type="checkbox"/> 88 Unknown		<input type="checkbox"/> 1 None <input type="checkbox"/> 4 Work Zone (construction/maintenance/utility) <input type="checkbox"/> 6 Shoulders (none, low, soft, high) <input type="checkbox"/> 7 Rut, Holes, Bumps <input type="checkbox"/> 9 Worn, Travel-Polished Surface <input type="checkbox"/> 10 Road Surface Condition (wet, icy, snow, slush, etc.) <input type="checkbox"/> 11 Obstruction in Roadway <input type="checkbox"/> 12 Debris <input type="checkbox"/> 13 Traffic Control Device Inoperative, Missing or Obscured <input type="checkbox"/> 14 Non-Highway Work <input type="checkbox"/> 77 Other, Explain in Narrative <input type="checkbox"/> 88 Unknown		<input type="checkbox"/> 1 None <input type="checkbox"/> 2 Weather Conditions <input type="checkbox"/> 3 Physical Obstruction(s) <input type="checkbox"/> 4 Glare <input type="checkbox"/> 5 Animal(s) in Roadway <input type="checkbox"/> 77 Other, Explain in Narrative <input type="checkbox"/> 88 Unknown						
Work Zone Related		Crash in Work Zone		Type of Work Zone		Workers in Work Zone		Law Enforcement in Work Zone		
<input type="checkbox"/> 1 No <input type="checkbox"/> 2 Yes <input type="checkbox"/> 88 Unknown		<input type="checkbox"/> 1 Before the First Work Zone Warning Sign <input type="checkbox"/> 2 Advance Warning Area <input type="checkbox"/> 3 Transition Area <input type="checkbox"/> 4 Activity Area <input type="checkbox"/> 5 Termination Area		<input type="checkbox"/> 1 Lane Closure <input type="checkbox"/> 2 Lane Shift/Crossover <input type="checkbox"/> 3 Work on Shoulder or Median <input type="checkbox"/> 4 Intermittent or Moving Work <input type="checkbox"/> 77 Other, Explain in Narrative		<input type="checkbox"/> 1 No <input type="checkbox"/> 2 Yes <input type="checkbox"/> 88 Unknown		<input type="checkbox"/> 1 No <input type="checkbox"/> 2 Officer Present <input type="checkbox"/> 3 Law Enforcement Vehicle Only Present		
WITNESSES										
NAME		ADDRESS				CITY & STATE		ZIP CODE		
NAME		ADDRESS				CITY & STATE		ZIP CODE		
NAME		ADDRESS				CITY & STATE		ZIP CODE		
NON VEHICLE PROPERTY DAMAGE										
VEHICLE #	PERSON #	PROPERTY DAMAGE - OTHER THAN VEHICLE	EST. AMOUNT	OWNER'S NAME <input type="checkbox"/> (Check if Business)	ADDRESS	CITY & STATE	ZIP CODE			
VEHICLE #	PERSON #	PROPERTY DAMAGE - OTHER THAN VEHICLE	EST. AMOUNT	OWNER'S NAME <input type="checkbox"/> (Check if Business)	ADDRESS	CITY & STATE	ZIP CODE			

VEHICLE # <input type="text"/>		Check if Commercial <input type="checkbox"/>		REPORTING AGENCY CASE NUMBER			HSMV CRASH REPORT NUMBER							
1 Vehicle in Transport 2 Parked Motor Vehicle 3 Working Vehicle		VEHICLE LICENSE NUMBER		STATE	REGISTRATION EXPIRES	Check if Permanent Registration <input type="checkbox"/>	VIN							
Hit and Run 1 No 2 Yes 88 Unknown		YEAR	MAKE	MODEL	STYLE	COLOR	DAMAGE: 1 Disabling 4 Minor 2 Functional 88 Unknown 3 None		EST. AMOUNT					
INSURANCE COMPANY (DRIVER)			INSURANCE POLICY NUMBER		Towed due to Damage: 1 No 2 Yes <input type="checkbox"/>	VEHICLE REMOVED BY		1. Rotation 2. Owner Request 3. Driver 4. Other, Explain in Narrative <input type="checkbox"/>						
NAME OF VEHICLE OWNER (Check if Business) <input type="checkbox"/>			CURRENT ADDRESS			CITY & STATE		ZIP CODE						
Trailer One:	LICENSE NUMBER	STATE	REGISTRATION EXPIRES	Check if Permanent Registration <input type="checkbox"/>	VIN		YEAR	MAKE	LENGTH	AXLES				
Trailer Two:	LICENSE NUMBER	STATE	REGISTRATION EXPIRES	Check if Permanent Registration <input type="checkbox"/>	VIN		YEAR	MAKE	LENGTH	AXLES				
VEHICLE TRAVELING		N <input type="checkbox"/>	S <input type="checkbox"/>	E <input type="checkbox"/>	W <input type="checkbox"/>	Off-Road <input type="checkbox"/>	Unknown <input type="checkbox"/>	ON STREET, ROAD, HIGHWAY		AT EST. SPEED	POSTED SPEED	TOTAL LANES		
HAZ. MAT. RELEASED		HAZ. MAT. PLACARD		NUMBER	CLASS			Area of Initial Impact 		Most Damaged Area 				
MOTOR CARRIER NAME				US DOT NUMBER				MOTOR CARRIER ADDRESS		CITY & STATE	ZIP CODE	PHONE NUMBER		
Vehicle Body Type			Trafficway			Commercial Motor Vehicle Configuration								
<input type="checkbox"/> 15 Low Speed Vehicle <input type="checkbox"/> 16 (Sport) Utility Vehicle <input type="checkbox"/> 17 Cargo Van (10,000 lbs (4,536 kg) or less) <input type="checkbox"/> 18 Motor Coach <input type="checkbox"/> 19 Other Light Trucks (10,000 lbs (4,536 kg) or less) <input type="checkbox"/> 20 Medium/Heavy Trucks (more than 10,000 lbs (4,536 kg)) <input type="checkbox"/> 21 Farm Labor Vehicle <input type="checkbox"/> 77 Other, Explain in Narrative <input type="checkbox"/> 88 Unknown			<input type="checkbox"/> 1 Two-Way, Not Divided <input type="checkbox"/> 2 Two-Way, Not Divided, with a Continuous Left Turn Lane <input type="checkbox"/> 3 Two-Way, Divided, Unprotected (painted >4 feet) Median <input type="checkbox"/> 4 Two-Way, Divided, Positive Median Barrier <input type="checkbox"/> 5 One-Way Trafficway <input type="checkbox"/> 88 Unknown			<input type="checkbox"/> 1 Vehicle 10,000 lbs or less Placarded for Hazardous Materials <input type="checkbox"/> 2 Single-Unit Truck (2-axle and GVWR more than 10,000 lbs (4,536 kg)) <input type="checkbox"/> 3 Single-Unit Truck (3 or more axles) <input type="checkbox"/> 4 Truck Pulling Trailer(s) <input type="checkbox"/> 5 Truck Tractor (bobtail) <input type="checkbox"/> 6 Truck Tractor/Semi-Tractor <input type="checkbox"/> 7 Truck Tractor/Double Truck <input type="checkbox"/> 8 Tractor/Triple <input type="checkbox"/> 9 Truck more than 10,000 lbs (4,536 kg), Cannot Classify <input type="checkbox"/> 10 Bus/Large Van (seats for 9-15 occupants, including driver) <input type="checkbox"/> 11 Bus (seats for more than 15 occupants, including driver) <input type="checkbox"/> 77 Other, Explain in Narrative <input type="checkbox"/> 88 Unknown								
<input type="checkbox"/> 1 Passenger Car <input type="checkbox"/> 2 Passenger Van <input type="checkbox"/> 3 Pickup <input type="checkbox"/> 7 Motor Home <input type="checkbox"/> 8 Bus <input type="checkbox"/> 11 Motorcycle <input type="checkbox"/> 12 Moped <input type="checkbox"/> 13 All Terrain Vehicle (ATV)			<input type="checkbox"/> 1 Single Semi Trailer <input type="checkbox"/> 2 Tandem Semi Trailer <input type="checkbox"/> 3 Tank Trailer <input type="checkbox"/> 4 Saddle Mount/Trailer <input type="checkbox"/> 5 Boat Trailer <input type="checkbox"/> 6 Utility Trailer <input type="checkbox"/> 7 House Trailer			<input type="checkbox"/> 8 Pole Trailer <input type="checkbox"/> 9 Towed Vehicle <input type="checkbox"/> 10 Auto Transport <input type="checkbox"/> 77 Other, Explain in Narrative <input type="checkbox"/> 88 Unknown								
Comm/Non-Commercial			Trailer Type			Cargo Body Type			Emergency Vehicle Use					
<input type="checkbox"/> 1 Interstate Carrier <input type="checkbox"/> 2 Intrastate Carrier <input type="checkbox"/> 3 Not in Commerce/Government <input type="checkbox"/> 4 Not in Commerce/Other Truck			<input type="checkbox"/> 1 10,000 lbs (4,536 kg) or less <input type="checkbox"/> 2 10,001-26,000 lbs (4,536-11,793 kg) <input type="checkbox"/> 3 More than 26,000 lbs (11,793 kg) <input type="checkbox"/> 4 Not Applicable			<input type="checkbox"/> 1 No Cargo <input type="checkbox"/> 2 Bus <input type="checkbox"/> 3 Van/Enclosed Box <input type="checkbox"/> 4 Hopper <input type="checkbox"/> 5 Pole-Trailer <input type="checkbox"/> 6 Cargo Tank <input type="checkbox"/> 7 Flatbed <input type="checkbox"/> 8 Dump <input type="checkbox"/> 9 Concrete Mixer <input type="checkbox"/> 10 Auto Transport <input type="checkbox"/> 11 Garbage/Refuse <input type="checkbox"/> 12 Log			<input type="checkbox"/> 13 Intermodal Container Chassis <input type="checkbox"/> 14 Vehicle Towing Another Vehicle <input type="checkbox"/> 15 Not Applicable (vehicle 10,000 lbs (4,536kg) or less not displaying HM placard) <input type="checkbox"/> 77 Other, Explain in Narrative <input type="checkbox"/> 88 Unknown					
Most Harmful Event			Collision with Non-Fixed Object			Collision Fixed Object			Emergency Vehicle Use					
<input type="checkbox"/> 1 Overturn/Rollover <input type="checkbox"/> 2 Fire/Explosion <input type="checkbox"/> 3 Immersion <input type="checkbox"/> 4 Jackknife <input type="checkbox"/> 5 Cargo/Equipment Loss or Shift <input type="checkbox"/> 6 Fell/Jumped From Motor Vehicle <input type="checkbox"/> 7 Thrown or Falling Object <input type="checkbox"/> 8 Ran into Water/ Canal <input type="checkbox"/> 9 Other Non-Collision			<input type="checkbox"/> 10 Pedestrian <input type="checkbox"/> 11 Pedalcycle <input type="checkbox"/> 12 Railway Vehicle (train, engine) <input type="checkbox"/> 13 Animal <input type="checkbox"/> 14 Motor Vehicle in Transport <input type="checkbox"/> 15 Parked Motor Vehicle <input type="checkbox"/> 16 Work Zone/Maintenance Equipment <input type="checkbox"/> 17 Struck By Falling, Shifting Cargo or Anything Set in Motion by Motor Vehicle <input type="checkbox"/> 18 Other Non-Fixed Object			<input type="checkbox"/> 19 Impact Attenuator/Crash Cushion <input type="checkbox"/> 20 Bridge Overhead Structure <input type="checkbox"/> 21 Bridge Pier or Support <input type="checkbox"/> 22 Bridge Rail <input type="checkbox"/> 23 Culvert <input type="checkbox"/> 24 Curb <input type="checkbox"/> 25 Ditch <input type="checkbox"/> 26 Embankment <input type="checkbox"/> 27 Guardrail Face <input type="checkbox"/> 28 Guardrail End			<input type="checkbox"/> 29 Cable Barrier <input type="checkbox"/> 30 Concrete Traffic Barrier <input type="checkbox"/> 31 Other Traffic Barrier <input type="checkbox"/> 32 Tree (standing) <input type="checkbox"/> 33 Utility Pole/Light Support <input type="checkbox"/> 34 Traffic Sign Support <input type="checkbox"/> 35 Traffic Signal Support <input type="checkbox"/> 36 Other Post, Pole, or Support <input type="checkbox"/> 37 Fence <input type="checkbox"/> 38 Mailbox <input type="checkbox"/> 39 Other Fixed Object (wall, building, tunnel, etc.)					
Sequence of Events			Vehicle Maneuver Action			Traffic Control Device For This Vehicle			Vehicle Defects					
1st <input type="checkbox"/> 2nd <input type="checkbox"/> 3rd <input type="checkbox"/> 4th <input type="checkbox"/> <input type="checkbox"/> [40-46 Sequence of Events only] <input type="checkbox"/> 40 Equipment Failure (blown tire, brake failure, etc.) <input type="checkbox"/> 41 Separation of Units <input type="checkbox"/> 42 Ran Off Roadway, Right <input type="checkbox"/> 43 Ran Off Roadway, Left <input type="checkbox"/> 44 Cross Median <input type="checkbox"/> 45 Cross Centerline <input type="checkbox"/> 46 Downhill Runaway			<input type="checkbox"/> 1 Straight Ahead <input type="checkbox"/> 3 Turning Left <input type="checkbox"/> 4 Backing <input type="checkbox"/> 5 Turning Right <input type="checkbox"/> 6 Changing Lanes <input type="checkbox"/> 8 Parked <input type="checkbox"/> 10 Making U-Turn <input type="checkbox"/> 11 Overtaking/ Passing <input type="checkbox"/> 13 Stopped in Traffic <input type="checkbox"/> 14 Slowing <input type="checkbox"/> 15 Negotiating a Curve <input type="checkbox"/> 16 Leaving Traffic Lane <input type="checkbox"/> 17 Entering Traffic Lane <input type="checkbox"/> 77 Other, Explain in Narrative <input type="checkbox"/> 88 Unknown			<input type="checkbox"/> 1 No Controls <input type="checkbox"/> 4 School Zone Sign/ Device <input type="checkbox"/> 5 Traffic Control Signal <input type="checkbox"/> 6 Stop Sign <input type="checkbox"/> 7 Yield Sign			<input type="checkbox"/> 8 Flashing Signal <input type="checkbox"/> 9 Railway Crossing Device <input type="checkbox"/> 10 Person (including Flagman, Officer, Guard, etc.) <input type="checkbox"/> 13 Warning Sign <input type="checkbox"/> 77 Other, Explain in Narrative <input type="checkbox"/> 88 Unknown					
Roadway Grade			Roadway Alignment			Special Function of Motor Vehicle			VIOLATIONS					
<input type="checkbox"/> 1 Level <input type="checkbox"/> 2 Hillcrest <input type="checkbox"/> 3 Uphill <input type="checkbox"/> 4 Downhill <input type="checkbox"/> 5 Sag (bottom)			<input type="checkbox"/> 1 Straight <input type="checkbox"/> 2 Curve Right <input type="checkbox"/> 3 Curve Left			<input type="checkbox"/> 1 No Special Function <input type="checkbox"/> 2 Farm Vehicle <input type="checkbox"/> 3 Police <input type="checkbox"/> 7 Taxi <input type="checkbox"/> 8 Military <input type="checkbox"/> 9 Ambulance <input type="checkbox"/> 10 Fire Truck <input type="checkbox"/> 11 Farm Labor Transport <input type="checkbox"/> 12 School Bus <input type="checkbox"/> 13 Transit/Commuter Bus <input type="checkbox"/> 14 Intercity Bus <input type="checkbox"/> 15 Charter/Tour Bus <input type="checkbox"/> 16 Shuttle Bus <input type="checkbox"/> 17 Farm Labor Bus <input type="checkbox"/> 88 Unknown			PERSON # NAME OF VIOLATOR FL STATUTE NUMBER CHARGE CITATION NUMBER					
PERSON #			NAME OF VIOLATOR			FL STATUTE NUMBER			CHARGE			CITATION NUMBER		
PERSON #			NAME OF VIOLATOR			FL STATUTE NUMBER			CHARGE			CITATION NUMBER		

PERSON #			REPORTING AGENCY CASE NUMBER			HSMV CRASH REPORT NUMBER		
1 Driver 2 Non-Motorist 3 Passenger	VEHICLE #	NAME	PHONE NUMBER			Check if Recommend Driver Re-exam <input type="checkbox"/>		
CURRENT ADDRESS (Number and Street)					CITY & STATE		ZIP CODE	
DATE OF BIRTH	SEX: 1 Male 2 Female 88 Unknown	DRIVER LICENSE NUMBER	STATE	EXPIRES	INJURY SEVERITY (INJ) 1 None 2 Possible 3 Non-incapacitating 4 Incapacitating 5 Fatal (within 30 days) 6 Non-Traffic Fatality			

DRIVER							
DL Type 1 A 2 B 3 C 4 D/Chauffeur 5 E/Operator 6 E/Oper - Rest 7 None		Required Endorsements 1 Yes 2 No 3 No Req. Endorsement		Drivers Actions at Time of Crash		Condition At Time of Crash	
Driver Distracted By 1 Not Distracted 2 Electronic Communication Devices (cell phone, etc.) 3 Other Electronic Device (navigation device, DVD player)		4 Other Inside the Vehicle (explain in narrative) 5 External Distraction (outside the vehicle, explain in narrative) 6 Texting 7 Inattentive 88 Unknown		1st 1 No Contributing Action 2 Operated MV in Careless or Negligent Manner 3 Failed to Yield Right-of-Way 4 Improper Backing 6 Improper Turn 10 Followed too Closely 11 Ran Red Light 12 Drove too Fast for Conditions 13 Ran Stop Sign 15 Improper Passing 17 Exceeded Posted Speed 21 Wrong Side of Wrong Way 25 Failed to Keep in Proper Lane		3rd 26 Ran off Roadway 27 Disregarded other Traffic Sign 28 Disregarded Other Road Markings 29 Over-Correcting/Over-Steering 30 Swerved or Avoided : Due to Wind, Slippery Surface, MV, Object, Non-Motorist in Roadway, etc. 31 Operated MV in Erratic, Reckless or Aggressive Manner 77 Other Contributing Action	
Driver Vision Obstructions 1 Vision Not Obscured 2 Inclement Weather 3 Parked/Stopped Vehicle 4 Trees/Crops/Bushes		5 Load on Vehicle 6 Building/Fixed Object 7 Signs/Billboards 8 Fog		9 Smoke 10 Glare 77 All Other, Explain in Narrative		4th 1 Apparently Normal 3 Asleep or Fatigued 5 Ill (sick) or Fainted 6 Seizure, Epilepsy, Blackout 7 Physically Impaired 8 Emotional (depression, angry, disturbed, etc.) 9 Under the Influence of Medications/Drugs/Alcohol 77 Other, Explain in Narrative 88 Unknown	

DRIVER OR PASSENGER																											
Motor Vehicle Seating Position:			Helmet Use (HU)		Eye Protection (EP)		Restraint Systems (RS)																				
<table border="1"> <tr> <td>Seat</td> <td>Row</td> <td>Other</td> </tr> <tr> <td>1 Left 2 Middle 3 Right 77 Other (explain in narrative) 88 Unknown</td> <td>1 Front 2 Second 3 Third 4 Fourth 77 Other Row 88 Unknown</td> <td>1 Not Applicable 2 Sleeper Section of Truck Cab 3 Other Enclosed Cargo Area 4 Unenclosed Cargo Area 5 Trailing Unit 6 Riding on Motor Vehicle Exterior (non-trailing unit) 88 Unknown</td> </tr> </table>			Seat	Row	Other	1 Left 2 Middle 3 Right 77 Other (explain in narrative) 88 Unknown	1 Front 2 Second 3 Third 4 Fourth 77 Other Row 88 Unknown	1 Not Applicable 2 Sleeper Section of Truck Cab 3 Other Enclosed Cargo Area 4 Unenclosed Cargo Area 5 Trailing Unit 6 Riding on Motor Vehicle Exterior (non-trailing unit) 88 Unknown	<table border="1"> <tr> <td>LOCATION: SEAT (LOC)</td> <td>ROW</td> <td>OTHER</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>		LOCATION: SEAT (LOC)	ROW	OTHER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<table border="1"> <tr> <td><input type="checkbox"/></td> <td>1 DOT-Compliant Motorcycle Helmet 2 Other Helmet 3 No Helmet</td> </tr> </table>		<input type="checkbox"/>	1 DOT-Compliant Motorcycle Helmet 2 Other Helmet 3 No Helmet	<table border="1"> <tr> <td><input type="checkbox"/></td> <td>1 Yes 2 No 3 Not Applicable</td> </tr> </table>		<input type="checkbox"/>	1 Yes 2 No 3 Not Applicable	<table border="1"> <tr> <td><input type="checkbox"/></td> <td>1 Not Applicable (non-motorist) 2 None Used - Motor Vehicle Occupant 3 Shoulder and Lap Belt Used 4 Shoulder Belt Only Used 5 Lap Belt Only Used 6 Restraint Used - Type Unknown 7 Child Restraint System - Forward Facing 8 Child Restraint System - Rear Facing 9 Booster Seat 10 Child Restraint Type Unknown 77 Other, Explain in Narrative</td> </tr> </table>	<input type="checkbox"/>	1 Not Applicable (non-motorist) 2 None Used - Motor Vehicle Occupant 3 Shoulder and Lap Belt Used 4 Shoulder Belt Only Used 5 Lap Belt Only Used 6 Restraint Used - Type Unknown 7 Child Restraint System - Forward Facing 8 Child Restraint System - Rear Facing 9 Booster Seat 10 Child Restraint Type Unknown 77 Other, Explain in Narrative
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Ejection (EJECT)			Air Bag Deployed (ABD)		Non-Motorist Description																						
<table border="1"> <tr> <td><input type="checkbox"/></td> <td>1 Not Ejected 2 Ejected, Totally 3 Ejected, Partially 4 Not Applicable 88 Unknown</td> </tr> </table>			<input type="checkbox"/>	1 Not Ejected 2 Ejected, Totally 3 Ejected, Partially 4 Not Applicable 88 Unknown	<table border="1"> <tr> <td><input type="checkbox"/></td> <td>1 Not Applicable 2 Not Deployed 3 Deployed-Front 4 Deployed-Side</td> </tr> </table>		<input type="checkbox"/>	1 Not Applicable 2 Not Deployed 3 Deployed-Front 4 Deployed-Side	<table border="1"> <tr> <td><input type="checkbox"/></td> <td>1 Pedestrian 2 Other Pedestrian (wheelchair, person in a building, skater, pedestrian conveyance, etc.) 3 Bicyclist 4 Other Cyclist 5 Occupant of Motor Vehicle Not in Transport (parked, etc.) 6 Occupant of a Non-Motor Vehicle Transportation Device 7 Unknown Type of Non-Motorist</td> </tr> </table>			<input type="checkbox"/>	1 Pedestrian 2 Other Pedestrian (wheelchair, person in a building, skater, pedestrian conveyance, etc.) 3 Bicyclist 4 Other Cyclist 5 Occupant of Motor Vehicle Not in Transport (parked, etc.) 6 Occupant of a Non-Motor Vehicle Transportation Device 7 Unknown Type of Non-Motorist														
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NON-MOTORIST																	
Non-Motorist Location At Time of Crash			Action Prior to Crash			Non-Motorist Actions/Circumstances											
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Safety Equipment			1st			2nd											
<table border="1"> <tr> <td><input type="checkbox"/></td> <td>1 None 2 Helmet 3 Protective Pads Used (elbows, knees, shins, etc.) 4 Reflective Clothing (jacket, backpack, etc.)</td> </tr> </table>			<input type="checkbox"/>	1 None 2 Helmet 3 Protective Pads Used (elbows, knees, shins, etc.) 4 Reflective Clothing (jacket, backpack, etc.)	<table border="1"> <tr> <td><input type="checkbox"/></td> <td>1 No Improper Action 2 Dart/Dash 3 Failure to Yield Right-of-Way 4 Failure to Obey Traffic Signs, Signals, or Officer 5 In Roadway Improperly (standing, lying, working, playing) 6 Disabled Vehicle Related (working on, pushing, leaving/approaching)</td> </tr> </table>			<input type="checkbox"/>	1 No Improper Action 2 Dart/Dash 3 Failure to Yield Right-of-Way 4 Failure to Obey Traffic Signs, Signals, or Officer 5 In Roadway Improperly (standing, lying, working, playing) 6 Disabled Vehicle Related (working on, pushing, leaving/approaching)	<table border="1"> <tr> <td><input type="checkbox"/></td> <td>7 Entering/Exiting Parked/Standing Vehicle 8 Inattentive (talking, eating, etc) 9 Not Visible (dark clothing, no lighting, etc.)</td> </tr> </table>		<input type="checkbox"/>	7 Entering/Exiting Parked/Standing Vehicle 8 Inattentive (talking, eating, etc) 9 Not Visible (dark clothing, no lighting, etc.)				
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ALCOHOL/DRUG/EMS							
SUSPECTED ALCOHOL USE:		ALCOHOL TESTED:		ALCOHOL TEST TYPE:		ALCOHOL TEST RESULT:	
1 No 2 Yes 88 Unknown		1 Test Not Given 2 Test Refused 3 Test Given 88 Unknown, if Tested		1 Blood 2 Breath 3 Urine 77 Other, Explain in Narrative		1 Pending 2 Completed 88 Unknown	
BAC		SUSPECTED DRUG USE:		DRUG TESTED:		DRUG TEST TYPE:	
1 No 2 Yes 88 Unknown		1 No 2 Yes 88 Unknown		1 Test Not Given 2 Test Refused 3 Test Given 88 Unknown, if Tested		1 Blood 3 Urine 77 Other, Explain in Narrative	

SOURCE OF TRANSPORT TO MEDICAL FACILITY		EMS AGENCY NAME OR ID		EMS RUN NUMBER		MEDICAL FACILITY TRANSPORTED TO	
1 Not Transported 2 EMS 3 Law Enforcement 77 Other, Explain in Narrative 88 Unknown		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	

ADDITIONAL PASSENGERS													
VEHICLE #	PASS #	NAME	DATE OF BIRTH	INJ	SEX	LOC: S	R	O	EJECT	HU	EP	ABD	RS
CURRENT ADDRESS (Number and Street)			CITY & STATE		ZIP CODE								
SOURCE OF TRANSPORT TO MEDICAL FACILITY		EMS AGENCY NAME OR ID		EMS RUN NUMBER		MEDICAL FACILITY TRANSPORTED TO							
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VEHICLE #	PASS #	NAME	DATE OF BIRTH	INJ	SEX	LOC: S	R	O	EJECT	HU	EP	ABD	RS
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1 Not Transported 2 EMS 3 Law Enforcement 77 Other, Explain in Narrative 88 Unknown		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>							

HSMV 90010 S

ADDITIONAL PASSENGERS

VEHICLE #	PASS #	NAME	DATE OF BIRTH	INJ	SEX	LOC: S	R	O	EJECT	HU	EP	ABD	RS
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CURRENT ADDRESS (Number and Street)	CITY & STATE	ZIP CODE
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SOURCE OF TRANSPORT TO MEDICAL FACILITY 1 Not Transported 2 EMS 3 Law Enforcement 77 Other, Explain in Narrative 88 Unknown	EMS AGENCY NAME OR ID	EMS RUN NUMBER	MEDICAL FACILITY TRANSPORTED TO
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CURRENT ADDRESS (Number and Street)	CITY & STATE	ZIP CODE
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ADDITIONAL VIOLATIONS

PERSON #	NAME OF VIOLATOR	FL STATUTE NUMBER	CHARGE	CITATION NUMBER
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PERSON #	NAME OF VIOLATOR	FL STATUTE NUMBER	CHARGE	CITATION NUMBER
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REPORTING OFFICER

ID/BADGE NUMBER	RANK & NAME	DEPARTMENT	FHP <input type="checkbox"/> SO <input type="checkbox"/> PD <input type="checkbox"/> OTHER <input type="checkbox"/>
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Appendix H: Other Resources

Strategic Highway Safety Plan: [Strategic Highway Safety \(fdot.gov\)](https://www.fdot.gov/strategic-highway-safety)

FLHSMV Crash and Citation Reports & Statistics: [Crash and Citation Reports & Statistics - Florida Department of Highway Safety and Motor Vehicles \(flhsmv.gov\)](https://www.flhsmv.gov/crash-and-citation-reports-statistics)

FLHSMV Traffic Crash Facts Annual Report 2019: [crash_facts_2019.pdf \(flhsmv.gov\)](https://www.flhsmv.gov/crash-facts-2019.pdf)

FLHSMV Traffic Crash Reports-Crash Dashboard: [Crash Dashboard - Florida Department of Highway Safety and Motor Vehicles \(flhsmv.gov\)](https://www.flhsmv.gov/crash-dashboard)

Uniform Traffic Crash Report Manual: [Florida Uniform Traffic Crash Manual \(flhsmv.gov\)](https://www.flhsmv.gov/uniform-traffic-crash-report-manual)

PBCAT Manual: [PBCAT Manual \(pedbikeinfo.org\)](https://www.pedbikeinfo.org/pbcats/)

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- NHTSA. (2018). *2017 Fatal Motor Vehicle Crashes: Overview*.
- NHTSA. (2019). *2018 Fatal Motor Vehicle Crashes: Overview*.
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P		Roadway Grade Code	77
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Person Number	109	Row Position Code	117
Person Number	83	Rural or Urban	11
Person Number	136	S	
Person Number	120	S4 Age at Time of Crash	133
Phone Number	89	S4 Age at Time of Crash	103
Phone Number	110	S4 Age at Time of Crash	118
Phone Number	125	S4 Aging Driver Count	44
Photos Taken	19	S4 Albers X	149
Point of Impact	69	S4 Albers Y	150
Policy Number	88	S4 Bicyclist Count	44
Posted Speed	66	S4 Bicyclist Direction	146
R		S4 Bicyclist Fatality Count	49
Reason Not Completed	13	S4 Bicyclist Incapacitating Injury Count	49
		S4 Bicyclist Position	146
		S4 Bike Crash Group Number	144
		S4 Citation Amount	50
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S4 Crash Group Description	144	S4 Is Pedestrian Involved	48
S4 Crash Group Description	138	S4 Is Speeding Related	105
S4 Crash Group Number	138	S4 Is Speeding Related	39
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S4 Crash Location	145	S4 Is Teenager Driver	106
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Seat Position Code	100	Vehicle Maneuver Action	78
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Sex	92	Vehicle Number	82
Sex	112	Vehicle Number	54
State	90	Vehicle Number	108
State	126	Vehicle Special Function	79
State	111	Vehicle Style	62
State of Registration	59	Vehicle Traveling	65
Statute Number	137	Vehicle Year	61
Street Address Number	14	Vision Obstructed	87
Suffix	124		
Suffix	110	W	
Suffix	89	Weather Condition	20
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Suspected Alcohol Use Code	127	Workers Present	29
Suspected Drug Use Code	97		
Suspected Drug Use Code	129	Z	
		Zip Code	91
T		Zip Code	126
Tag Number	59	Zip Code	112
Total Number of Lanes	67		
Total Number of Narratives	9		
Total Number of Persons	9		
Total Number of Vehicles	9		
Tow Company Name	64		