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Fatality Analysis Reporting System (FARS)

Analytical User's Manual 1975-2014

FARS Analytical User's Manual
1975 – 2014

U. S. Department of Transportation
National Highway Traffic Safety Administration
National Center for Statistics and Analysis
Washington, D.C. 20590

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New in 2014 FARS

Data Elements with Changes in Attributes

Below is a list of FARS data elements that have substantial changes for 2014. Changes are denoted in bold typeface (bold/italics for additions, bold/strikethrough for deletions). More detailed information on each data element can be found in the FARS/NASS GES Coding and Validation Manual. NHTSA publishes these manuals for each year of data collection and they can be found at:

http://www-nrd.nhtsa.dot.gov/cats/listpublications.aspx?Id=J&ShowBy=DocType.

DATA ELEMENT #	DATA ELEMENT NAME	SAS TABLE.NAME	COMMENTS
C20B	Relation to Junction – Specific Location	Accident.RELJCT2	▪ Updated Remarks and Attribute for: "16 - Shared-Use Path ~~**or Trail**~~ ***Crossing***".
V23	Emergency Motor Vehicle Use	Vehicle.EMER_USE, Parkwork. PEM_USE	▪ Added new Attribute and Remarks for: "***6 - Emergency Operation, Emergency Warning Equipment in Use Unknown***".
V31	Sequence of Events	Cevent.SOE, Vevent.SOE, Vsoe.SOE	▪ Updated Remarks and Attribute for: "70 - ***Non-harmful, Swaying Trailer/***Jackknife ~~**[non-harmful]**~~**.** ▪ Added new Attribute and Remarks: "***79 - Ran Off Roadway - Direction Unknown*****.**
V33	Related Factors - Vehicle Level	Vehicle.VEH_SC1, Vehicle.VEH_SC2, Parkwork.PVEH_SC1, Parkwork.PVEH_SC2	▪ Revised Attribute and Remarks for: "30 - ~~**3-Wheeled** ***Multi***~~-Wheeled Motorcycle Conversion". ▪ Deleted Attribute and Remarks for: "~~**36 - Electric/Alterative Fuel Vehicle**~~".
D21	Violations Charged	Violatn.MVIOLATN	▪ Updated Attribute and Remarks for: "71 - Driving while license withdrawn ~~**violation of provisions of work permit**~~"
D23/NM14	Condition (Impairment) At Time of Crash	Drimpair.DRIMPAIR, Nmimpair.NMIMPAIR	▪ Updated Attribute and Remarks for: "03 - Walking with a Cane or Crutches, ***etc.***"

DATA ELEMENT #	DATA ELEMENT NAME	SAS TABLE.NAME	COMMENTS
D24	Related Factors - Driver Level	Vehicle.DR_SF1, Vehicle.DR_SF2, Vehicle.DR_SF3, Vehicle.DR_SF4	▪ Updated Attributes and Remarks for: "29 - ***Intentional*** Illegal Driving on Road Shoulder, in Ditch, on Sidewalk or on Median", "33 - Passing Where Prohibited by Posted Signs, Pavement Markings, Hill or Curve, or School Bus Displaying Warning Not to Pass ~~**Line**~~" and "51 - Driving on Wrong Side of ***Two-Way Trafficway*** (Intentional or Unintentional)"
NM10	Non-Motorist Location at Time of Crash	Person.LOCATION	▪ Updated Remarks and Attributes for: "01 - ***At*** Intersection-In Marked Crosswalk", "02 - ***At*** Intersection-Unmarked / ***Unknown if Marked*** Crosswalk", "03 - ***At*** Intersection-Not In Crosswalk", "09 - ***At*** Intersection-Unknown Location", "10 - ***Not At*** ~~**Non-**~~Intersection-In Marked Crosswalk", "11 - ***Not At*** ~~**Non-**~~Intersection-On Roadway, Not in Marked Crosswalk", "13 - ***Not At*** ~~**Non-**~~Intersection-On Roadway, Crosswalk Availability Unknown" and "24 - Shared-Use Path~~**/Trail**~~".
NM11	Non-Motorist Action/Circumstances Prior to Crash changed to ***Non-Motorist Action/Circumstances***	Nmprior.MPR_ACT	▪ Deleted Attributes: "~~**15 - None**~~" and "~~**07 - Movement on Sidewalk**~~". ▪ Updated Attributes and Remarks for: "14 - Other: ***(Specify:)***" and "11 - Entering/ Exiting ***Parked or Stopped*** Vehicle".
NM12	Non-Motorist Action/Circumstances At Time of Crash Crash changed to ***Non-Motorist Contributing Circumstances***	Nmcrash.MTM_CRSH	▪ Updated Remarks and Attributes for: 00 - ~~**No Improper Action**~~ ***None Noted***", "01 - ~~**Dart / Dash**~~ ***Dart - Out***", "05 - Entering/Exiting ***Parked or Stopped*** Vehicle", "10 - ~~**Driving**~~ ***Riding*** on Wrong Side of Road", "18 - Operating ~~**the Vehicle**~~ in Other Erratic, Reckless, Careless or Negligent Manner" and "21 - Other ***(Specify:)***".

Summary of the SAS Naming Changes in 2014

Locator Code	2013 SAS Name	New 2014 SAS Name	Data Element Name
		None	
		None	

The data elements in RED are new to 2014 FARS.
The data elements in BLUE are changed in 2014 FARS.

Preface

One of the primary objectives of the National Highway Traffic Safety Administration (NHTSA) is to reduce the staggering human toll and property damage that motor vehicle traffic crashes impose on our society. Crashes each year result in thousands of lives lost, hundreds of thousands of injured victims, and billions of dollars in property damage. Accurate data are required to support the development, implementation, and assessment of highway safety programs aimed at reducing this toll. NHTSA uses data from many sources, including the Fatality Analysis Reporting System (FARS) which began operation in 1975. Providing data about fatal crashes involving all types of vehicles, the FARS is used to identify highway safety problem areas, provide a basis for regulatory and consumer information initiatives, and form the basis for cost and benefit analyses of highway safety initiatives.

FARS is a census of fatal motor vehicle crashes with a set of data files documenting all qualifying fatalities that occurred within the 50 States, the District of Columbia, and Puerto Rico since 1975. To qualify as a FARS case, the crash had to involve a motor vehicle traveling on a trafficway customarily open to the public, and must have resulted in the death of a motorist or a non-motorist within 30 days of the crash.

This multi-year analytical user's manual provides documentation on the historical coding practices of the Fatality Analysis Reporting System from 1975 to 2014. In other words, this manual presents the evolution of FARS coding from inception through present. The manual includes the data elements that are contained in FARS and other useful information that will enable the users to become familiar with the data system. FARS/NASS GES Coding and Validation Manuals provide more detailed definitions for each data element and attribute for a given year. Years 2001 to current are available at:

http://www-nrd.nhtsa.dot.gov/Cats/listpublications.aspx?Id=J&ShowBy=DocType

The compilation of FARS data for almost four decades has been a priority for NHTSA. These data store valuable information that have been preserved over time and are available for present and future use. This analytical user's manual should help improve the usefulness and accessibility of the FARS data. With the exception of personal notes, there is no reason to keep older versions of this reference manual. All information in earlier editions has been retained in this newer version.

Thank you for your interest in highway traffic safety.

FARS Operations

The Fatality Analysis Reporting System (FARS), which became operational in 1975, contains data on a census of fatal traffic crashes within the 50 States, the District of Columbia, and Puerto Rico. To be included in FARS, a crash must involve a motor vehicle traveling on a trafficway customarily open to the public, and must result in the death of an occupant of a vehicle or a non-occupant within 30 days (720 hours) of the crash.

FARS is directed by the National Center for Statistics and Analysis (NCSA), which is a component of Vehicle Safety (NVS) in NHTSA. NHTSA has a cooperative agreement with an agency in each State's government to provide information on all qualifying fatal crashes in the State. These agreements are managed by Regional Contracting Officer's Technical Representatives located in the 10 NHTSA Regional Offices. Trained State employees, called "FARS Analysts," are responsible for gathering, translating, and transmitting their State's data to NCSA in a standard format. The number of analysts varies by State.

FARS data are obtained from various States' documents, such as:

- Police Accident Reports (PAR)
- Death Certificates
- State Vehicle Registration Files
- Coroner/Medical Examiner Reports
- State Driver Licensing Files
- Hospital Medical Reports
- State Highway Department Data
- Emergency Medical Service Reports
- Vital Statistics and other State Records

From these documents, the analysts code more than 100 FARS data elements. The specific data elements may be modified slightly each year to conform to changing user needs, vehicle characteristics, and highway safety emphasis areas. The data collected within FARS do not include any personal identifying information, such as names, addresses, or social security numbers. Thus, any data kept in FARS data files and made available to the public fully conform to the Privacy Act.

Each analyst interprets and codes data directly onto an electronic data file. The data are automatically checked when entered for acceptable range values and for consistency, enabling the analyst to make corrections immediately. Several programs continually monitor and improve the completeness and accuracy of the data.

Each analyst uses a coding manual which provides a set of written instructions on how to transfer the information from a police accident/crash report (PAR) to the FARS data. To augment the coding manual, classes are held each year to train the coders, and a system wide FARS meeting is held to reinforce uniform coding practices.

After the data file is created, quality checks are performed on the data. When these are completed, the electronic data are made available to the public. The FARS data are also used to respond to requests from the international and national highway safety communities, state and local governments, the Congress, federal agencies, research organizations, industry, the media, and private citizens. Annual FARS data files are available for 1975 through 2014.

FARS SAS Data Files

FARS data are made available to the public in Statistical Analysis System (SAS) data files as well as Database Files (DBF). Over the years, changes have been made to the type of data collected and the way the data are presented in the data files. Some data files have been discontinued and new ones have been created. For the current data collection year there are 19 data files.

This manual describes the 19 current data files as well as previously discontinued data files. The 19 current data files are: Accident, Vehicle, Person, Parkwork, Cevent, Vevent, Vsoe, Distract, Factor, Drimpair, Nmimpair, Maneuver, Nmprior, Nmcrash, Safetyeq, Violatn, Vision, Damage and Vindecode data files. The following data files: Distract, Factor, Drimpair, Nmimpair, Maneuver, Nmprior, Nmcrash, Safetyeq, Violatn, Vision, and Damage contain data elements in which the analyst could code multiple responses. Hence, the 2014 FARS/NASS GES Coding and Validation Manual will instruct coders to "select all that apply" for these data elements. Discontinued data files are included after the current data files. The Vehnit data file was replaced by the Parkwork data file and its data element history can be found in the Parkwork data file.

The data files are presented with their data elements in the Data Elements Definitions and Codes section. For each of the data elements, a brief definition is provided along with any additional information which could assist analyses. SAS names and values are also provided for the data elements. Discontinued data elements are moved to the end of the data file.

The SAS data files and years of availability are:

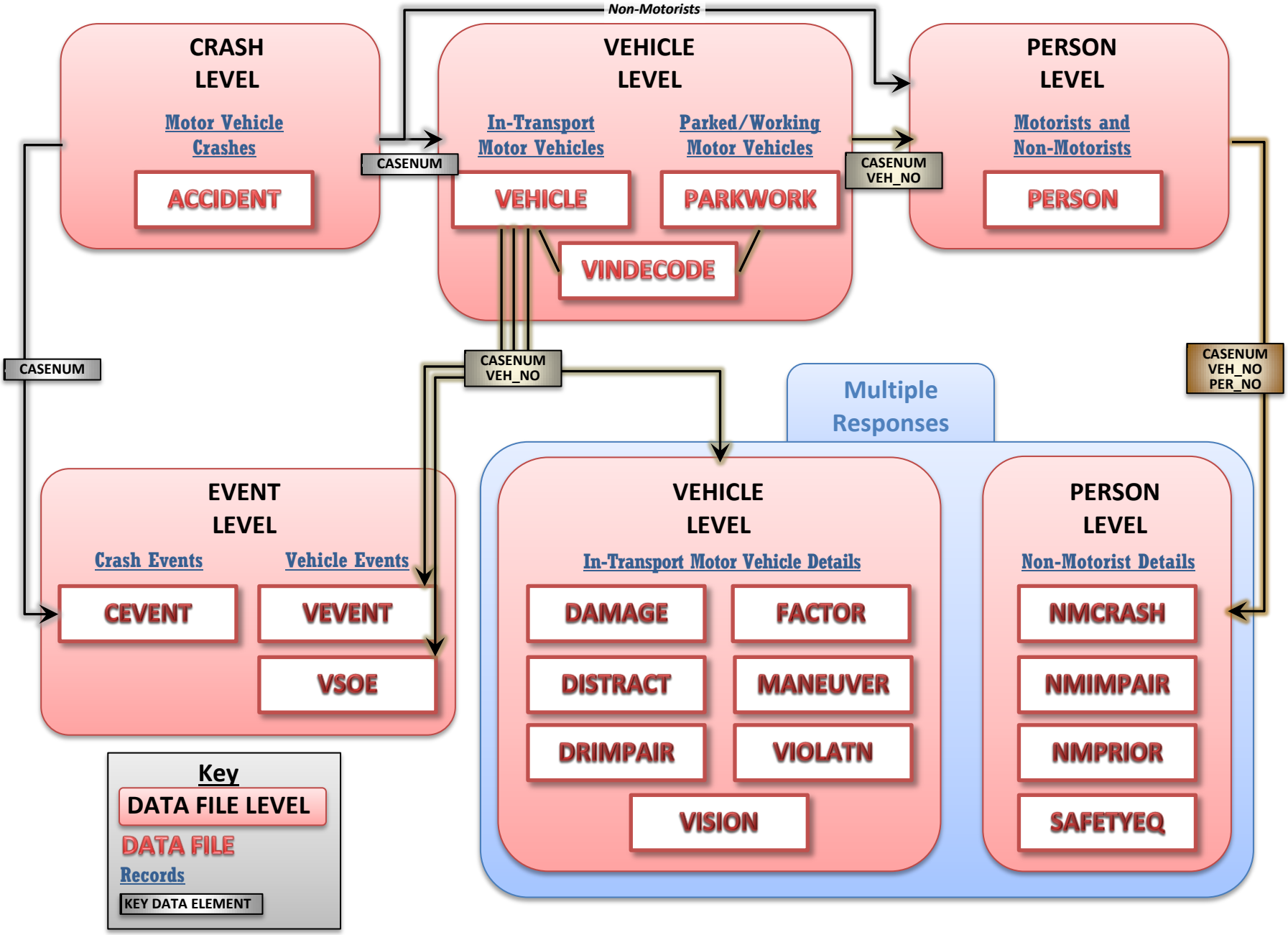
- ***Accident*** - *(1975-current):* This data file contains information about crash characteristics and environmental conditions at the time of the crash. There is one record per crash.
- ***Vehicle*** - *(1975-current)*: This data file contains information describing the in-transport motor vehicles and the drivers of in-transport motor vehicle who are involved in the crash. There is one record per in-transport motor vehicle. Parked and working vehicle information is in the Parkwork data file.
- ***Person*** - *(1975-current):* This data file contains information describing all persons involved in the crash including motorists (i.e., drivers and passengers of in-transport motor vehicles) and non-motorists (e.g., pedestrians and pedalcyclists). It provides information such as age, sex, and vehicle occupant restraint use and injury severity. There is one record per person.
- ***Parkwork*** - *(2010-current)*: This data file contains information about parked and working vehicles that were involved in FARS crashes. A parked vehicle is a motor vehicle which is stopped off the roadway. A working vehicle is used to indicate that this is a motor vehicle that was in the act of performing highway construction, maintenance or utility work related to the trafficway when it became an involved in the crash. Data users are strongly advised to consult the annual FARS/NASS GES Coding and Validation Manuals for a detailed description. There is one record per parked/working vehicle.
- ***Cevent*** – *(2010-current)*: This data file contains information for all of the qualifying events (i.e., both harmful and non-harmful involving in-transport motor vehicles) which occurred in the crash. It details the chronological sequence of events resulting from an unstabilized situation that constitutes a motor vehicle traffic crash. There is one record per event. Included in each record is a description of the event or object contacted (e.g., ran off road-right, crossed center line, guardrail, parked motor vehicle), the vehicles involved, and the vehicles' area of impact.

- ***Vevent*** – *(2010-current)*: This data file contains the sequence of events for each in-transport motor vehicle involved in the crash. This data file has the same data elements as the Cevent data file. In addition, this data file has a data element that records the sequential event number for each vehicle (VEVENTNUM). There is one record for each event for each in-transport motor vehicle.
- ***Vsoe*** – *(2010-current)*: This data file contains the sequence of events for each in-transport motor vehicle involved in the crash. This data file has a subset of the data elements contained in the Vevent data file (It is a simplified Vevent data file). There is one record for each event for each in-transport motor vehicle.
- ***Damage*** - *(2012-current)*: This data file contains information about all of the areas on this vehicle that were damaged in the crash. There is one record per damaged area.
- ***Distract*** - *(2010-current)*: This data file contains information about driver distractions. There is at least one record per in-transport motor vehicle. Each distraction is a separate record.
- ***Drimpair*** - *(2010-current)*: This data file contains information about physical impairments of drivers of motor vehicles. There is one record per impairment and there is at least one record for each driver of an in-transport motor vehicle.
- ***Factor*** - *(2010-current)*: This data file contains information about vehicle circumstances which may have contributed to the crash. There is at least one record per in-transport motor vehicle. Each factor is a separate record.
- ***Maneuver*** - *(2010-current)*: This data file contains information about actions taken by the driver to avoid something or someone in the road. There is at least one record per in-transport motor vehicle. Each maneuver is a separate record.
- ***Violatn*** - *(2010-current)*: This data file contains information about violations which were charged to drivers. There is at least one record per in-transport motor vehicle. Each violation is a separate record.
- ***Vision*** - *(2010-current)*: This data file contains information about circumstances which may have obscured the driver's vision. There is at least one record per in-transport motor vehicle. Each obstruction is a separate record.
- ***Nmcrash*** - *(2010-current)*: This data file contains information about any improper actions of people who are not occupants of motor vehicles (e.g., pedestrians and bicyclists) or contributing circumstances noted on the PAR. There is one record per action and there is at least one record for each person who is not an occupant of a motor vehicle.
- ***Nmimpair*** - *(2010-current)*: This data file contains information about physical impairments of people who are not occupants of motor vehicles. There is one record per impairment and there is at least one record for each person who is not an occupant of a motor vehicle.
- ***Nmprior*** - *(2010-current)*: This data file contains information about what people who are not occupants of motor vehicles (e.g., pedestrians and bicyclists) are doing prior to the crash. There is one record per action and there is at least one record for each person who is not an occupant of a motor vehicle.
- ***Safetyeq*** - *(2010-current)*: This data file contains information about safety equipment used by people who are not occupants of motor vehicles. There is one record per equipment item, and there is at least one record for each person who is not an occupant of a motor vehicle.

- ***Vindecode*** - *(2013-current)*: This data file contains vehicle descriptors for all vehicles, mainly passenger vehicles, trucks and motorcycles, based on the vehicle's VIN which is decoded using the VINtelligence program. There is one record per vehicle.

Discontinued Data Files

- ***Vehnit*** - *(2005-2009)*: This data file contains information about parked and working vehicles that were involved in FARS crashes. Prior to the Vehnit creation, the vehicles Not-In-Transport were not included in the FARS data. This data file had the same list of data elements and SAS structure as the Vehicle data file where the UNITTYPE of the vehicle is 2, 3, or 4. The vehicle data file will have the vehicles in-transport where the UNITYPE of the vehicle is 1. Beginning in 2010, FARS discontinued the Vehnit data file and introduced the Parkwork data file. There is one record per parked/working vehicle. This data file was replaced in 2010 with the Parkwork data file. See the Parkwork data file in the Data Element Definitions and Codes section for the element history of this data file.


Non-Motorists
CRASH LEVEL
Motor Vehicle Crashes
ACCIDENT
CASENUM
VEHICLE LEVEL
In-Transport Motor Vehicles
Parked/Working Motor Vehicles
VEHICLE
PARKWORK
VINDECODE
CASENUM VEH_NO
PERSON LEVEL
Motorists and Non-Motorists
PERSON
CASENUM
CASENUM VEH_NO
CASENUM VEH_NO PER_NO
Multiple Responses
EVENT LEVEL
Crash Events
Vehicle Events
CEVENT
VEVENT
VSOE
VEHICLE LEVEL
In-Transport Motor Vehicle Details
DAMAGE
FACTOR
DISTRACT
MANEUVER
DRIMPAIR
VIOLATN
VISION
PERSON LEVEL
Non-Motorist Details
NMCRASH
NMIMPAIR
NMPRIOR
SAFETYEQ
Key
DATA FILE LEVEL
DATA FILE
Records
KEY DATA ELEMENT

FARS Data Element List

The following lists all SAS data elements with their SAS data file locations.

DATA ELEMENT LIST

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P1/NM1	State Number	STATE	23
C2/V2/D2/PC2/			
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Data Element Definitions and Codes

This section represents the majority of the manual. It provides detailed information on the data elements, including definitions, SAS names, attribute codes and attribute labels. Over the years, changes have been made to the type of data collected. Some data elements have been dropped, new ones added, and coding of individual data elements has changed. Coding changes and the years for which individual attributes are available are shown for each data element. The FARS/NASS GES Coding and Validation Manual contains a detailed description of each data element including coding instructions and attribute definitions. The Coding Manual is published for each year of data collection. Years 2001 to current are available at:

http://www-nrd.nhtsa.dot.gov/Cats/listpublications.aspx?Id=J&ShowBy=DocType

The data elements are listed here under the primary data file in which the data are stored. Some data elements are provided in more than one data file to facilitate common analyses. For example, Month of Crash (MONTH) is a crash-level data element but for convenience it is also provided in the Vehicle, Parkwork and Person files.

All data elements are numeric except the following, which are character:

- C13 Trafficway Identifier (TWAY_ID, TWAY_ID2) *[30]*
- C27 Rail Grade Crossing Identifier (RAIL) *[7]*
- V13 Vehicle Identification Number (VIN, PVIN) *[12]*
- V16 & V16B Motor Carrier ID (MCARR_ID) *[11]*, (MCARR_I2) *[9]*
- V101-V112 VIN Characters 1-12 (VIN_1, VIN_2, VIN_3, VIN_4, VIN_5, VIN_6, VIN_7, VIN_8, VIN_9, VIN_10, VIN_11, VIN_12, PVIN_1, PVIN_2, PVIN_3, PVIN_4, PVIN_5, PVIN_6, PVIN_7, PVIN_8, PVIN_9, PVIN_10, PVIN_11, PVIN_12) *[1]*
- V200-V280 VIN decoded data elements in the Vindecode data file *[255]*

All of the data files contain the following two (2) crash-level data elements:

C1/V1/D1/PC1/P1/NM1 State Number

Definition: This data element identifies the state in which the crash occurred. The codes are from the General Services Administration's (GSA) publication of worldwide Geographic Location Codes (GLC).

Additional Information: GSA state data elements except for 43, Puerto Rico. The State in which the vehicle is registered, REG_STAT, is found in the Vehicle data file; the coding is the same.

SAS Name: STATE

Attribute Codes

1975-Later

01 Alabama
02 Alaska
04 Arizona
05 Arkansas
06 California
08 Colorado
09 Connecticut
10 Delaware
11 District of Columbia
12 Florida
13 Georgia
15 Hawaii
16 Idaho
17 Illinois
18 Indiana
19 Iowa
20 Kansas
21 Kentucky
22 Louisiana
23 Maine
24 Maryland
25 Massachusetts
26 Michigan
27 Minnesota
28 Mississippi
29 Missouri
30 Montana
31 Nebraska
32 Nevada
33 New Hampshire
34 New Jersey
35 New Mexico
36 New York
37 North Carolina
38 North Dakota
39 Ohio
40 Oklahoma
41 Oregon
42 Pennsylvania
43 Puerto Rico
44 Rhode Island
45 South Carolina
46 South Dakota
47 Tennessee
48 Texas
49 Utah
50 Vermont
52 Virgin Islands *(since 2004)*
51 Virginia
53 Washington
54 West Virginia
55 Wisconsin
56 Wyoming

C2/V2/D2/PC2/P2/NM2 Consecutive Number

Definition: This data element is the unique case number assigned to each crash. It appears on each data file and is used to merge information from the data files together.

Additional Information: This data element is a combination of the GSA State code and an assigned consecutive number. It is assigned by the data entry system to each crash and is the unique identifier for the crash within the year. It is used as the key, when any two of these files from the same year are merged.

This data element is stored as a numeric data element of six characters; the first two characters are the State code, and the next four characters are case number, with leading zeros if necessary.

SAS Name: ST_CASE

Attribute Codes

1975-Later

xxxxxx	Two Characters for State Code followed by Four Characters for Case Number

All of the vehicle level data files contain the preceding accident level data elements as well as VEH_NO:

V3/D3/PC3/P3/NM4 Vehicle Number

Definition: This data element is the consecutive number assigned to each vehicle in the case. This data element appears on each vehicle level data file and is used in conjunction with the ST_CASE data element to merge information from vehicle level data files.

Additional Information: All vehicles will have a positive integer value. The value 0 is only used for non-motorists (pedestrians, cyclists, etc.) in the Person File. There are no corresponding Vehicle records for non-motorists. ST_CASE and VEH_NO may be used to merge the complete Person File to the Accident File, but including the Vehicle File in the merge will eliminate non-motorists from the merged data.

Non-Occupants have VEH_NO = 00, in this case see STR_VEH (N_MOT_NO prior to 2011) under Non-Motorist Striking Vehicle Number in the Person data file.

SAS Name: VEH_NO

Attribute Codes

1975-2008	*2009-Later*	
00-99	000-999	Assigned Number of Motor Vehicle

All of the person level data files contain the preceding accident level and vehicle level data elements as well as PER_NO:

P4/NM3 Person Number

Definition: This data element is the consecutive number assigned to each person in the case (i.e., each occupant, pedestrian, or non-motorists involved in the crash). This data element appears on each person level data file and is used in conjunction with the ST_CASE data element (and sometimes the VEH_NO data element) to merge information from person level data files.

Additional Information: Each occupant of the vehicle is numbered and each non-occupant is numbered, in the case of a non-occupant the vehicle number is zero. The numbers for occupants are consecutive, for each vehicle, beginning with 001. Numbers are never skipped. Drivers do not have to be coded 001. Non-Occupants are identified by vehicle number 0 and are numbered consecutively starting with 01 for each non-motorist. To get drivers see data element PER_TYP, under Person Type.

PER_NO can be used in merges, e.g., when merging the FARS person data file with the multiple cause of death file.

SAS Name: PER_NO

Attribute Codes

1975-2008	*2009-Later*	
01-99	001-999	Assigned Person Number

The CEVENT and VEVENT data files contain the preceding crash level data elements as well as EVENTNUM:

C17 Event Number

Definition: This data element is the consecutive number assigned to each harmful and non-harmful event in a crash, in chronological order.

Additional Information:

SAS Name: EVENTNUM

Attribute Codes

2010-Later

001-999 Event Number

The VEVENT and VSOE data files contain the preceding crash level data elements and VEH_NO as well as VEVENTNUM:

C17 Vehicle Event Number

Definition: This data element is the consecutive number assigned to each harmful and non-harmful event for this vehicle, in chronological order.

Additional Information:

SAS Name: VEVENTNUM

Attribute Codes

2010-Later

001-999 Vehicle Event Number

The ACCIDENT Data File

The Accident data file includes crash data. It contains the data elements ST_CASE and STATE, which are described in the beginning of the Data Element Definitions and Codes section. ST_CASE is the case identifier for each record. The Accident data file also contains the data elements on the following pages.

C3 Number of Forms Submitted for Persons Not in Motor Vehicles

Definition: This data element is the number of Person Forms (Not a Motor Vehicle Occupant) that are applicable to this case (i.e., non-occupants).

Additional Information: This represents the number of forms created for persons *not* in motor vehicles. It is the number of persons in the crash where "Person Type" is in (4, 5, 6, 7, 8, 10 or 19).

Note: Persons where "Person Type" = 3 (Occupant of a Motor Vehicle Not In-Transport) are *not* included in this data element but are counted in C3A below.

SAS Name: PEDS

Attribute Codes

1991-2010	*2011-Later*	
01-99	00-99	Number of Persons Not in Motor Vehicles

C3A Number of Persons Not in Motor Vehicles in Transport (MVIT)

Definition: This data element is a count of the number of non-motorists in the crash. A non-motorist is defined as a pedestrian, a cyclist, an occupant of a motor vehicle not in-transport, a person riding a horse, an occupant of an animal drawn conveyance, person associated with non-motorist conveyance (e.g., baby carriage, skate board, wheelchair), or an other non-motorist (e.g., person outside a trafficway, person in a house).

Additional Information: This data element is derived as the count of all persons in the crash where "Person Type" is in (3, 4, 5, 6, 7, 8, 10 or 19).

SAS Name: PERNOTMVIT

Attribute Codes

2011-Later	
0-98	Number of Persons Not in Motor Vehicles in Transport

C4 Number of Vehicle Forms Submitted- ALL

Definition: This data element is the number of contact motor vehicles that the officer reported on the PAR as a unit involved in the crash.

Additional Information: This number represents all of the vehicles in the crash. This includes the vehicles in-transport which are in the Vehicle data file and the vehicles not in-transport which are in the Parkwork data file (previously Vehnit). This data element only appears in the Accident data file. Note: The Parkwork data file replaced the Vehnit data file in 2010. The Vehnit data file does not exist prior to 2005.

SAS Name: VE_TOTAL

Attribute Codes

2005-2008	*2009-Later*	
01-99	001-999	Number of Vehicles in Crash

C4A Number of Motor Vehicles in Transport (MVIT)

Definition: This data element is a count of the number of vehicles in-transport involved in the crash. Legally parked vehicles are not included.

Additional Information: This data element is derived as the count of all vehicles in the crash where "Unit Type" = 1. It is the number of records in the Vehicle data file.

It is unlikely that the number of vehicles involved in the crash is greater than the Number of Vehicle Forms plus two.

1975-1981: In the event of a hit-and-run crash, if the vehicle information was not known, then no vehicle form was filled out. Likewise, if no information was known on the person level, usually the driver of the unknown vehicle, then a Person Level form was not filled out. The result is that the number of unknowns is much smaller for this time period than 1982 and later.

Example: From 1975 to 1980, there were 30 to 40 drivers coded with unknown sex, approximately 0.05 percent of all drivers involved in fatal crashes. In 1981 the number of drivers with unknown sex rose to over 300, approximately 0.5 percent of all drivers involved in fatal crashes.

1982-Later: In the case of a hit-and-run crash, a Vehicle-Driver form and a Person Level form for the driver are filled out. When the information about the vehicle-driver or person is not known -- which is often the case with hit-and-runs -- the values are coded as unknown.

Example: Between 1982 and 1994, the number of drivers coded with unknown sex fluctuated between 700 and 1,000, approximately 1.5 percent of all drivers involved in fatal crashes. Reviewing the 768 persons in the 1994 Annual Report file, all were drivers and 90 percent of them were involved in hit-and-run crashes.

This data element also appears in the Vehicle and Person data files and in the Parkwork data file as PVE_FORMS.

SAS Name: VE_FORMS

Attribute Codes

1976-1981	*1982-2008*	*2009-Later*	
00-99	01-99	001-999	Number of Vehicle Forms

C4B Number of Parked/Working Vehicles

Definition: This data element is a count of the number of parked and working vehicles involved in the crash.

Additional Information: This data element is calculated as the count of all vehicles in the crash where "Unit Type" is in (2, 3 or 4). It is the number of records in the Parkwork data file.

SAS Name: PVH_INVL

Attribute Codes

2011-Later

0-999 Number of Parked/Working Vehicles in the Crash

C5 Number of Forms Submitted for Persons in Motor Vehicles

Definition: This data element is a count of the number of Person Level (Motor Vehicle Occupant) Forms that are applicable to this case (i.e., occupants).

Additional Information: This represents the number of forms created for persons in motor vehicles. It is the count of all persons where "Person Type" is in (1, 2, 3 or 9).

Before 2003, the policy was not to submit a Person Level form for occupants of van-based buses. Since 2003, a person level form has been submitted for all occupants of van-based vehicles, including van-based buses.

1975-1981: In the event of a hit-and-run crash, if the vehicle information was not known, then no vehicle form was filled out. Likewise, if no information was known on the person level, usually the driver of the unknown vehicle, then a Person Level form was not filled out. The result is that the number of unknowns is much smaller for this time period than 1982 and later.

Example: From 1975 to 1980, there were 30 to 40 drivers coded with unknown sex, approximately 0.05 percent of all drivers involved in fatal crashes. In 1981 the number of drivers with unknown sex rose to over 300, approximately 0.5 percent of all drivers involved in fatal crashes.

1982-Later: In the case of a hit-and-run crash, a Vehicle-Driver form and a Person Level form for the driver are filled out. When the information about the vehicle-driver or person is not known -- which is often the case with hit-and-runs -- the values are coded as unknown.

Example: Between 1982 and 1994, the number of drivers coded with unknown sex fluctuated between 700 and 1,000, approximately 1.5 percent of all drivers involved in fatal crashes. Reviewing the 768 persons in the 1994 Annual Report file, all were drivers and 90 percent of them were involved in hit-and-run crashes.

SAS Name: PERSONS

Attribute Codes

1975-2008	*2009-Later*	
00-99	000-999	Number of Person Forms

C5A Number of Persons in Motor Vehicles in Transport (MVIT)

Definition: This data element is a count of the number of motorists in the crash. A motorist is a driver, passenger or unknown occupant type of a motor vehicle in-transport.

Additional Information: This data element is derived as the count of all persons in the crash where "Person Type" is in (1, 2 or 9).

Note: Persons where "Person Type" = 3 (Occupant of a Motor Vehicle Not In-Transport) are *not* included in this data element but are counted in C5 above.

SAS Name: PERMVIT

Attribute Codes

2011-Later

0-999 Number of Persons in Motor Vehicles In-Transport

C6 County

Definition: This data element records the location of the unstabilized event with regard to the County. The codes are from the General Services Administration's (GSA) publication of worldwide Geographic Location Codes (GLC).

Additional Information: GSA geographical codes are somewhat stable. Occasionally one code will be divided into two codes.

This data element also appears in the Person data file.

SAS Name: COUNTY

Attribute Codes

1975-2009	*2010-Later*	
000	000	Not Applicable
001-996	001-996	Use GSA Geographical Codes
997	997	Other
--	998	Not Reported
999	999	Unknown

C7 City

Definition: This data element records the location of the unstabilized event with regard to the City. The codes are from the General Services Administration's (GSA) publication of worldwide Geographic Location Codes (GLC).

Additional Information: GSA geographical codes are somewhat stable. Occasionally one code will be divided into two codes.

SAS Name: CITY

Attribute Codes

1975-2009	*2010-Later*	
0000	0000	Not Applicable
0001-9996	0001-9996	GSA Geographical Codes
9997	9997	Other
--	9898	Not Reported
9999	9999	Unknown

C8 Crash Date

C8A Month of Crash

Definition: This data element records the month in which the crash occurred.

Additional Information: This data element also appears in the Vehicle and Person data files and in the Parkwork data file as PMONTH.

SAS Name: MONTH

Attribute Codes

1975-2008	*2009-Later*	
01	01	January
02	02	February
03	03	March
04	04	April
05	05	May
06	06	June
07	07	July
08	08	August
09	09	September
10	10	October
11	11	November
12	12	December
99	--	Unknown

C8B Day of Crash

Definition: This data element records the day of the month on which the crash occurred.

Additional Information: This data element also appears in the Vehicle and Person data files and in the Parkwork data file as PDAY.

SAS Name: DAY

Attribute Codes

1975-2009	*2010-Later*	
01-31	01-31	Day of the Month of the Crash
99	--	Unknown

C8C Day of Week

Definition: This data element records the day of the week on which the crash occurred.

Additional Information: This data element has been calculated based on the year, month, and day.

SAS Name: DAY_WEEK

Attribute Codes

1975-2009	*2010-Later*	
1	1	Sunday
2	2	Monday
3	3	Tuesday
4	4	Wednesday
5	5	Thursday
6	6	Friday
7	7	Saturday
9	--	Unknown

C8D Year of Crash

Definition: This data element records the year in which the crash occurred.

Additional Information:

SAS Name: YEAR

Attribute Codes

1975-1997	*1998-Later*	
xx	xxxx	Year of the Crash

More Information on Date of Crash

C9 Crash Time

C9A Hour of Crash

Definition: This data element records the hour at which the crash occurred.

Additional Information: All time is 24-hour military time.

The time of the crash/arrival of the emergency medical service can occur in a different day than the arrival of emergency medical service at the crash scene/hospital.

If you need to separate day and night, see the data element LGT_COND under the heading Light Condition.

This data element also appears in the Vehicle and Person data files and in the Parkwork data file as PHOUR.

SAS Name: HOUR

1975-2008	*2009*	*2010-Later*	
00-24	00-23	00-23	Hour
--	88	--	Not Applicable or Not Notified
99	99	99	Unknown

C9B Minute of Crash

Definition: This data element records the minutes after the hour at which the crash occurred.

Additional Information: All time is 24-hour military time.

The time of the crash/arrival of the emergency medical service can occur in a different day than the arrival of emergency medical service at the crash scene/hospital.

This data element also appears in the Vehicle and Person data files and in the Parkwork data file as PMINUTE.

SAS Name: MINUTE

1975-2008	*2009*	*2010-Later*	
00-59	00-59	00-59	Minute
--	88	--	Not Applicable or Not Notified
99	99	99	Unknown

C10 National Highway System

Definition: This data element identifies whether this crash occurred on a trafficway that is part of the National Highway System.

Additional Information:

SAS Name: NHS

Attribute Codes

1994-Later

0 This Section is Not on the National Highway System
1 This Section is on the National Highway System
9 Unknown

C11 Roadway Function Class

Definition: This data element identifies the functional classification of the trafficway on which the crash occurred.

Additional Information: This data element also appears in the Person data file.

SAS Name: ROAD_FNC

Attribute Codes

1975-1980

This data element is included in the format, but is not initialized. Do not use it.

1981-1986

1 Principal Arterial – Interstate
2 Principal Arterial – Other Urban Freeways and Expressways
3 Principal Arterial – Other
4 Minor Arterial
5 Urban Collector
6 Major Rural Collector
7 Minor Rural Collector
8 Local Road or Street
9 Unknown

1987-Later

RURAL

01 Principal Arterial – Interstate
02 Principal Arterial – Other
03 Minor Arterial
04 Major Collector
05 Minor Collector
06 Local Road or Street
09 Unknown

URBAN

11 Principal Arterial – Interstate
12 Principal Arterial – Other Freeways or Expressways
13 Other Principal Arterial
14 Minor Arterial
15 Collector
16 Local Road or Street
19 Unknown

99 Unknown

More Information on Roadway Function Class and Land Use

C12 Route Signing

Definition: This data element identifies the route signing of the trafficway on which the crash occurred.

Additional Information:

SAS Name: **CL_TWAY** ***1975-1986***
ROUTE ***1987-Later***

Attribute Codes

1975-1980	***1982-1986***	
1	1	Interstate
2	--	Other Limited Access
3	2	Other U.S. Route
4	3	Other State Route
5	--	Other Major Artery
6	4	County Road
7	5	Local Street
8	8	Other Road
9	9	Unknown

1981

Data were not available for this data element in 1981.

1987-Later

1 Interstate
2 U.S. Highway
3 State Highway
4 County Road
5 Local Street – Township
6 Local Street – Municipality
7 Local Street – Frontage Road *(Since 1994)*
8 Other
9 Unknown

C13 Trafficway Identifier

Definition: This data element records the trafficway on which the crash occurred.

Additional Information: Beginning in 2004, a second trafficway identifier was added to accommodate intersection and intersection-related crashes where the officer provides the identifier for the second trafficway.

SAS Name: **TWAY_ID** ***1982-Later***
TWAY_ID2 ***2004-Later***

Attribute Codes

1982-1997

xxxxxxxxxx	Actual Posted Number, Assigned Number, or Common Name *(10 characters)*
999999999	Unknown

1998-2011

xxxxxxxxxxxxxxxxxxx	Actual Posted Number, Assigned Number, or Common Name *(20 characters)*
9999999999999999999	Unknown

2012-Later

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Actual Posted Number, Assigned Number, or Common Name *(30 characters)*
99999999999999999999999999999	Unknown

More Information on Trafficway Identifier

C14 Milepoint

Definition: This data element records the milepoint nearest to the location where the crash occurred.

Additional Information: Five digits are always coded.

EXAMPLES:

Milepoint	*Code*
10	00100
39.89	00399
404	04040
73.1	00731

In 2011, this data element changed from alphanumeric (character) to numeric.

SAS Name: MILEPT

Attribute Codes

1982-2009	*2010-Later*	
00000	00000	None
xxxxx	xxxxx	Actual to Nearest Tenth Mile *(Assume decimal, e.g., 12345 = 1234.5)*
--	99998	Not Reported
99999	99999	Unknown

C15 Global Position

C15A Latitude

Definition: This element identifies the location of the crash using Global Position coordinates. This is the position of latitude.

Additional Information:

SAS Name: LATITUDE

Attribute Codes

1999-2009

DDMMSSSS (DD MM SS.SS – Degrees/Minutes/Seconds)

17-71	DD- Actual Degrees
88	Not Available *(If State Exempt)*
99	Unknown
00-59	MM- Actual Minutes
88	Not Available *(If State Exempt)*
99	Unknown
00.00-59.99	SS.SS- Actual Seconds
88.88	Not Available *(If State Exempt)*
99.99	Unknown

2010-Later

DDDDDD (DD.DDDD – Decimal Degrees)

DD.DDDD	Actual Degrees
77.7777	Not Reported
88.8888	Not Available *(If State Exempt)*
99.9999	Unknown

C15B Longitude

Definition: This element identifies the location of the crash using Global Position coordinates. This is the position of longitude.

Additional Information:

SAS Name: LONGITUD

Attribute Codes

DDDMMSSSS (DDD MM SS.SS – Degrees/Minutes/Seconds)

1999-2009

DDDMMSSSS (DDD MM SS.SS – Degrees/Minutes/Seconds)

065-178	DDD- Actual Degrees
--	Not Reported
888	Not Available *(If State Exempt)*
999	Unknown

00-59	MM- Actual Minutes
--	Not Reported
88	Not Available *(If State Exempt)*
99	Unknown

00.00-59.99	SS.SS- Actual Seconds
--	Not Reported
88.88	Not Available *(If State Exempt)*
99.99	Unknown

2010-Later

DDDDDDD (DDD.DDDD – Decimal Degrees)

DDD.DDDD	Actual Degrees
777.7777	Not Reported
888.8888	Not Available *(If State Exempt)*
999.9999	Unknown

C16 Special Jurisdiction

Definition: This data element identifies if the location on the trafficway where the crash occurred qualifies as a Special Jurisdiction even though it may be patrolled by state, county or local police (e.g., all State highways running through Indian reservations are under the jurisdiction of the Indian reservation).

Additional Information:

SAS Name: SP_JUR

Attribute Codes

1975-Later

0 No Special Jurisdiction *(Includes National Forests Since 2008)*
1 National Park Service
2 Military
3 Indian Reservation
4 College/University Campus
5 Other Federal Properties *(Since 1977)*
8 Other *(Since 1976)*
9 Unknown

C18 First Harmful Event

Definition: This data element describes the first injury or damage producing event of the crash.

Additional Information: "First Harmful Event" applies to the crash. "Most Harmful Event" (M_HARM) applies to the vehicle. Harmful events are judgment calls of the FARS analysts based on the data within the PAR.

From 2004 to 2009, the data elements "First Harmful Event," "Most Harmful Event," and the "Sequence of Events" have the same attributes. The harmful event attributes were modified to be consistent with the sequence of events data elements. Starting in 2009, these data elements still have the same attributes except non-harmful event attributes were added to the Sequence of Events data element.

Starting in 2010, this data element is derived from the "Sequence of Events" data element as the first value that is not between codes 60 and 71 (non-harmful events).

This data element also appears in the Vehicle and Person data files and in the Parkwork data file as PHARM_EV.

SAS Name: HARM_EV

Attribute Codes

1975-1981

01 Overturn
02 Fire/Explosion
03 Immersion
04 Gas Inhalation
05 Fell from Vehicle
06 Injured in Vehicle
07 Other Non-Collision
08 Pedestrian
09 Pedalcycle
10 Railway Train
11 Animal
12 Motor Vehicle in Transport
13 Motor Vehicle in Transport in Other Roadway
14 Parked Motor Vehicle
15 Other Type Non-Motorist
16 Other Object
17 Bridge or Overpass *(1975-1978)*
18 Building
19 Culvert
20 Curb or Wall
21 Divider
22 Embankment
23 Fence
24 Guard Rail
25 Light Support
26 Sign Post
27 Tree/Shrubbery

C18 First Harmful Event *(continued)*

Attribute Codes

1975-1981

28	Utility Pole
29	Other Pole/Support
30	Impact Attenuator
31	Other Fixed Object
32	Bridge or Overpass *[Passing Under] (1979-1981)*
33	Bridge or Overpass *[Passing Over] (1979-1981)*
99	Unknown

1982-2003	***2004-2009***	***2010-Later***	
01	01	01	Rollover/Overturn
02	02	02	Fire/Explosion
03	03	03	Immersion *(or Partial Immersion, Since 2012)*
04	04	04	Gas Inhalation
05	05	05	Fell/Jumped from Vehicle
06	06	--	Injured in Vehicle
--	--	06	Injured in Vehicle *(Non-Collision)*
07	07	07	Other Non-Collision
08	08	08	Pedestrian
09	09	--	Pedalcycle
--	--	09	Pedalcyclist
10	10	--	Railway Train
--	--	10	Railway Vehicle
11	11	--	Animal
--	--	11	Live Animal
12	12	--	Motor Vehicle in Transport on Same Roadway
--	--	12	Motor Vehicle in Transport
13	13	--	Motor Vehicle in Transport on Other Roadway
14	14	14	Parked Motor Vehicle *(Not In Transport)*
15	--	--	Other Type Non-Motorist
--	15	15	Non-Motorist on Personal Conveyance
16	16	16	Thrown or Falling Object
17	17	17	Boulder
18	18	18	Other Object *(Not Fixed)*
19	19	19	Building
20	20	20	Impact Attenuator/Crash Cushion
21	21	--	Bridge Pier or Abutment
--	--	21	Bridge Pier or Support
22	22	--	Bridge Parapet End
23	23	--	Bridge Rail
--	--	23	Bridge Rail *(Includes Parapet)*
24	24	24	Guardrail Face
25	25	25	Concrete Traffic Barrier

C18 First Harmful Event *(continued)*

Attribute Codes

1982-2003	*2004-2009*	*2010-Later*	
26	26	26	Other Traffic Barrier
27	27	--	Highway/Traffic Sign Post
28	28	--	Overhead Sign Support/Sign
29	29	--	Luminary/Light Support
30	30	--	Utility Pole
--	--	30	Utility Pole/Light Support
31	31	31	Other Post, Other Pole, or Other Support
32	32	32	Culvert
33	33	33	Curb
34	34	34	Ditch
35	35	--	Embankment – Earth
--	--	35	Embankment
36	36	--	Embankment – Rock, Stone, or Concrete
37	37	--	Embankment – Material Type Unknown
38	38	38	Fence
39	39	39	Wall
40	40	40	Fire Hydrant
41	41	41	Shrubbery
42	42	42	Tree *(Standing Only)*
43	43	43	Other Fixed Object
44	--	--	Pavement Surface Irregularity *(1993 Only)*
--	44	--	Pavement Surface Irregularity
--	--	44	Pavement Surface Irregularity *(Ruts, Potholes, Grates, etc.)*
45	--	--	Transport Device Used as Equipment *(1993-2003)*
45	45	--	Working Construction, Maintenance or Utility Vehicles
--	--	45	Working Motor Vehicle
46	46	46	Traffic Signal Support
47	47	--	Vehicle Occupant Struck or Run Over by Own Vehicle *(1997-2009)*
48	48	--	Collision With Snow Bank *(1997-2009)*
--	--	48	Snow Bank
49	49	49	Ridden Animal or Animal-Drawn Conveyance *(Since 1998)*
50	50	50	Bridge Overhead Structure
--	51	--	Jackknife
--	--	51	Jackknife *(Harmful to This Vehicle)*
--	52	52	Guardrail End
--	53	53	Mail Box
--	54	--	Motor Vehicle Struck by Falling/Shifting Cargo or Anything Set in Motion by Another Motor Vehicle in Transport
--	--	54	Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport
--	55	--	Other Not in-Transport Motor Vehicle *(2005-2007)*

C18 First Harmful Event *(continued)*

Attribute Codes

1982-2003	*2004-2009*	*2010-Later*	
--	55	55	Motor Vehicle in Motion Outside the Trafficway *(Since 2008)*
--	57	57	Cable Barrier *(Since 2008)*
--	--	58	Ground
--	--	59	Traffic Sign Support
--	--	72	Cargo/Equipment Loss or Shift *(Harmful to This Vehicle)*
--	--	73	Object Fell From Motor Vehicle In-Transport *(Since 2013)*
--	--	98	Not Reported *(2010 Only)*
99	99	99	Unknown

C19 Manner of Collision

Definition: This data element describes the orientation of two motor vehicles in-transport when they are involved in the "First Harmful Event" of a collision crash. If the "First Harmful Event" is not a collision between two motor vehicles in-transport it is classified as such.

Additional Information: In the original data files, from 1975 to 1977 sideswipe was coded as 5 but has since been changed to 7. These years are not consistent with the documentation of the time.

This data element also appears in the Vehicle and Person data files and in the Parkwork data file as PMAN_COLL.

SAS Name: MAN_COLL

Attribute Codes

1975-1977	*1978-2001*	
0	0	Not Collision With Motor Vehicle in Transport
1	1	Rear-End
2	2	Head-On
3	3	Rear-to-Rear
4	4	Angle
--	5	Sideswipe, Same Direction
--	6	Sideswipe, Opposite Direction
7	--	Sideswipe *(May Either Be Same or Opposite Direction)*
9	9	Unknown

Attribute Codes

2002-2009	*2010-Later*	
0	0	Not Collision with Motor Vehicle in Transport *(Not Necessarily in Transport for 2005-2009)*
1	1	Front-to-Rear
2	2	Front-to-Front
3	--	Angle – Front-to-Side, Same Direction
4	--	Angle – Front-to-Side, Opposite Direction
5	--	Angle – Front-to-Side, Right Angle *(Includes Broadside)*
6	--	Angle – Front-to-Side/Angle-Direction Not Specified
--	6	Angle
7	7	Sideswipe – Same Direction
8	8	Sideswipe – Opposite Direction
9	9	Rear-to-Side
10	10	Rear-to-Rear
11	11	Other *(End-Swipes and Others)*
--	98	Not Reported
99	99	Unknown

More Information on Manner of Collision

C20 Relation to Junction

C20A Relation to Junction- Within Interchange Area

Definition: This data element identifies the crash's location with respect to presence in an interchange area. The coding of this data element is done in two sub-fields (see also C20B) and is based on the location of the "First Harmful Event" of the crash.

Additional Information:

SAS Name: RELJCT1

Attribute Codes

2010-Later

0 No
1 Yes
8 Not Reported
9 Unknown

C20B Relation to Junction- Specific Location

Definition: This data element identifies the crash's location with respect to presence in or proximity to components typically in junction or interchange areas. The coding of this data element is done in two sub-fields (see also C20A) and is based on the location of the "First Harmful Event" of the crash.

Additional Information:

SAS Name: **REL_JUNC** ***1975-2009***
RELJCT2 ***2010-Later***

Attribute Codes

1975-1990

1 Non-Junction
2 Intersection
3 Intersection-Related
4 Intersection Area
5 Driveway, Alley, Access, etc.
6 Entrance/Exit Ramp *(Since 1978)*
7 Rail Grade Crossing *(Since 1979)*
8 In Crossover *(Since 1980)*
9 Unknown

C20B Relation to Junction- Specific Location *(continued)*

Attribute Codes

1991-2009

00 None

NON-INTERCHANGE AREA

01 Non-Junction
02 Intersection
03 Intersection-Related
04 Driveway, Alley Access, etc.
05 Entrance/Exit Ramp-Related
06 Railway Grade Crossing
07 In Crossover
08 Driveway Access Related *(Since 2003)*
09 Unknown, Non-Interchange

INTERCHANGE AREA

10 Intersection
11 Intersection-Related
12 Driveway Access
13 Entrance/Exit Ramp-Related
14 In Crossover
15 Other Location in Interchange
19 Unknown, Interchange Area
99 Unknown

2010-2012	***2013***	***2014-Later***	
1	1	1	Non-Junction
2	2	2	Intersection
3	3	3	Intersection Related
4	4	4	Driveway Access
5	5	5	Entrance/Exit Ramp Related
6	6	6	Railway Grade Crossing
7	7	7	Crossover Related
8	8	8	Driveway Access Related
16	16	--	Shared-Use Path or Trail
--	--	16	Shared-Use Path Crossing
17	17	17	Acceleration/Deceleration Lane
18	18	18	Through Roadway
19	19	19	Other Location Within Interchange Area
--	20	20	Entrance/Exit Ramp
98	98	98	Not Reported
99	99	99	Unknown

C21 Type of Intersection

Definition: This data element identifies and allows separation of various intersection types.

Additional Information:

SAS Name: **TYP_INT**

Attribute Codes

2010	*2013-Later*	
1	1	Not an Intersection
2	2	Four-Way Intersection
3	3	T-Intersection
4	4	Y-Intersection
5	5	Traffic Circle
6	6	Roundabout
7	7	Five-Point, or More
--	10	L-Intersection
8	98	Not Reported
9	99	Unknown

C22 Relation to Trafficway

Definition: This data element identifies the location of the crash as it relates to its position within or outside the trafficway based on the "First Harmful Event."

Additional Information:

SAS Name: REL_ROAD

Attribute Codes

1975-1997

1	On Roadway
2	Shoulder
3	Median
4	Roadside
5	Outside Right-of-way
6	Off Roadway – Location Unknown
7	In Parking Lane *(Since 1980)*
8	Gore *(Since 1982)*
9	Unknown

1998-2009	***2010-Later***	
01	01	On Roadway
02	02	On Shoulder
03	03	On Median
04	04	On Roadside
05	--	Outside Trafficway/Outside Right-Of-Way
--	05	Outside Trafficway
06	06	Off Roadway – Location Unknown
07	--	In Parking Lane *(1998-2006)*
07	07	In Parking Lane/Zone *(Since 2007)*
08	08	Gore
10	10	Separator
11	--	Two-way Continuous Left-Turn Lane *(Since 2001)*
--	11	Continuous Left-Turn Lane
--	98	Not Reported
99	99	Unknown

More Information on Relation to Trafficway

C23 Work Zone

Definition: This data element identifies a motor vehicle traffic crash in which the first harmful event occurs within the boundaries of a work zone or on an approach to or exit from a work zone, resulting from an activity, behavior, or control related to the movement of the traffic units through the work zone.

Additional Information: This data element identifies a "Work Zone Accident" as defined in ANSI D16.1, 7th Edition. If the crash qualifies as a "Work Zone Accident" then the type of work activity is identified. Use of the codes does not imply that the crash was caused by the construction, maintenance, or work activity.

The data element name was "Construction/Maintenance Zone" from 1975 to 2008. The data element name has been changed to "Work Zone" since 2009.

SAS Name: **C_M_ZONE** ***1975-2008***
WRK_ZONE ***2009-Later***

Attribute Codes

1975-1979

The data element exists in the data files but has not been initialized. The data was not collected.

1980-1981	*1982-2009*	*2010-2011*	*2012-Later*	
0	0	0	0	None
1	1	1	1	Construction
2	2	2	2	Maintenance
3	--	--	--	Construction or Maintenance
--	3	3	3	Utility
--	4	4	4	Work Zone, Type Unknown
--	--	8	--	Not Reported

C24 Light Condition

Definition: This data element records the type/level of light that existed at the time of the crash as indicated in the case material.

Additional Information:

SAS Name: LGT_COND

Attribute Codes

1975-1979	*1980-2008*	*2009*	*2010-Later*	
1	1	1	1	Daylight
2	2	--	--	Dark
--	--	2	2	Dark – Not Lighted
3	3	3	--	Dark but Lighted
--	--	--	3	Dark – Lighted
--	4	4	4	Dawn
--	5	5	5	Dusk
6	--	--	--	Dawn or Dusk
--	--	6	6	Dark – Unknown Lighting
--	--	7	7	Other
--	--	--	8	Not Reported
9	9	9	9	Unknown

C25 Atmospheric Conditions

Definition: This data element records the prevailing atmospheric conditions that existed at the time of the crash as indicated in the case material.

Additional Information: This data element identifies up to two values. If more than two atmospheric conditions were reported, the two conditions that most affect visibility were selected. Accident.WEATHER1 and Accident.WEATHER2 are coded data elements, and Accident.WEATHER is derived from these two.

See *Appendix B: Rules for Derived Data Elements* for an expanded explanation of this data element and how it is derived.

SAS Name: **WEATHER** ***1975-2006***
WEATHER, WEATHER1, WEATHER2 ***2007-Later***

Attribute Codes

1975-1979	*1980-1981*	*1982-2006*	*2007-2009*	*2010-2012*	*2013-Later*	
1	--	--	--	1	1	Clear
--	1	--	--	--	--	Normal
--	--	1	0	--	--	No Adverse Atmospheric Conditions
--	--	--	--	0	0	No Additional Atmospheric Conditions
--	--	--	1	--	--	Clear/Cloud *(No Adverse Conditions)*
2	2	--	--	2	2	Rain
--	--	2	2	--	--	Rain *(Mist)*
3	3	--	--	--	--	Sleet
--	--	3	3	--	--	Sleet *(Hail)*
--	--	--	--	3	--	Sleet, Hail *(Freezing Rain or Drizzle)*
--	--	--	--	--	3	Sleet, Hail
4	4	4	--	4	4	Snow
--	--	--	4	--	--	Snow or Blowing Snow
--	5	5	--	--	--	Fog
--	--	--	5	5	5	Fog, Smog, Smoke
--	--	6	--	--	--	Rain and Fog
--	--	--	6	6	6	Severe Crosswinds
--	--	7	--	--	--	Sleet and Fog
--	--	--	7	7	7	Blowing Sand, Soil, Dirt
--	8	8	--	--	--	Other: Smog, Smoke, Blowing Sand or Dust
--	--	--	8	8	8	Other
7	--	--	--	10	10	Cloudy
--	--	--	--	11	11	Blowing Snow
--	--	--	--	--	12	Freezing Rain or Drizzle
--	--	--	--	98	98	Not Reported
9	9	9	9	99	99	Unknown

C26 School Bus Related

Definition: This data element identifies if a school bus, or motor vehicle functioning as a school bus, is related to the crash.

Additional Information: A school bus crash is (1) a motor vehicle crash in which a school bus, with or without a pupil on board, is involved directly as a contact vehicle, or (2) a motor vehicle crash or an other-road-vehicle crash in which a school bus, with or without a pupil or board, is involved indirectly as a non-contact vehicle.

SAS Name: SCH_BUS

Attribute Codes

1977-2009	*2010-2012*	*2013-Later*	
0	0	0	No
1	1	1	Yes
--	8	--	Not Reported

More Information on School Bus Related

C27 Rail Grade Crossing Identifier

Definition: This data element identifies if the crash occurred in or near a rail grade crossing.

Additional Information:

SAS Name: RAIL

Attribute Codes

1979-Later

0000000	Not Applicable
xxxxxxA	Six Digits Followed by One Alphabetic Valid F.R.A. Code
9999999	Unknown

C28 Notification Time EMS

C28A Hour of Notification

Definition: This data element records the hour that emergency medical service was notified.

Additional Information: All time is 24-hour military time.

SAS Name: NOT_HOUR

1975-1998	*1999-2008*	*2009-Later*	
00-24	00-24	00-23	Hour
00	00	--	Not Applicable or Not Notified *(when NOT_MIN = 00)*
--	--	88	Not Applicable or Not Notified
99	99	99	Unknown Hour
--	99	99	Unknown if Notified *(when NOT_MIN = 98)*

C28B Minute of Notification

Definition: This data element records the minutes after the hour that emergency medical service was notified.

Additional Information:

SAS Name: NOT_MIN

1975-1998	*1999-2008*	*2009-Later*	
00-59	00-59	00-59	Minute
00	00	--	Not Applicable or Not Notified *(when NOT_HOUR = 00)*
--	--	88	Not Applicable or Not Notified
--	98	98	Unknown if Notified
99	99	99	Unknown Minutes

C29 Arrival Time EMS

C29A Hour of Arrival at Scene

Definition: This data element records the hour that emergency medical service arrived on the crash scene.

Additional Information: All time is 24-hour military time.

The time of the crash/arrival of the emergency medical service can occur in a different day than the arrival of emergency medical service at the crash scene/hospital.

SAS Name: ARR_HOUR

1975-1998	*1999-2008*	*2009-Later*	
00-24	00-24	00-23	Hour
00	--	--	Not Notified or Officially Cancelled *(when ARR_MIN = 00)*
--	00	--	Not Notified *(when ARR_MIN = 00)*
--	--	88	Not Applicable or Not Notified
99	99	99	Unknown Hour
--	99	99	Officially Cancelled *(when ARR_MIN = 97)*
--	99	99	Unknown if Arrived *(when ARR_MIN = 98)*

C29B Minute of Arrival at Scene

Definition: This data element records the minutes after the hour that emergency medical service arrived on the crash scene.

Additional Information: The time of the crash/arrival of the emergency medical service can occur in a different day than the arrival of emergency medical service at the crash scene/hospital.

SAS Name: ARR_MIN

1975-1998	*1999-2008*	*2009-Later*	
00-59	00-59	00-59	Minute
00	--		Not Notified or Officially Cancelled *(when ARR_HOUR = 00)*
--	00	--	Not Notified *(when ARR_HOUR = 00)*
--	--	88	Not Applicable or Not Notified
--	97	97	Officially Cancelled
--	98	98	Unknown if Arrived
99	99	99	Unknown Minutes

C30 EMS Time at Hospital

C30A Hour of EMS Arrival at Hospital

Definition: This data element records the hour that emergency medical service arrived at the treatment facility to which it was transporting victims of the crash.

Additional Information: All time is 24-hour military time.

The time of the crash/arrival of the emergency medical service can occur in a different day than the arrival of emergency medical service at the crash scene/hospital.

SAS Name: HOSP_HR

1987-1998	*1999-2008*	*2009-Later*	
00-24	00-24	00-23	Hour
00	--	--	Not Notified, Officially Cancelled or Not Transported *(when HOSP_MIN = 00)*
--	00	--	Not Notified or Not Transported *(when HOSP_MIN = 00)*
--	--	88	Not Applicable or Not Notified
99	99	99	Unknown Hour
--	99	99	Officially Cancelled *(when HOSP_MIN = 97)*
--	99	99	Unknown if Transported *(when HOSP_MIN = 98)*

C30B Minute of EMS Arrival at Hospital

Definition: This data element records the minutes after the hour that emergency medical service arrived at the treatment facility to which it was transporting victims of the crash.

Additional Information: The time of the crash/arrival of the emergency medical service can occur in a different day than the arrival of emergency medical service at the crash scene/hospital.

SAS Name: HOSP_MIN

1987-1998	*1999-2008*	*2009-Later*	
00-59	00-59	00-59	Minute
00	--	--	Not Notified, Officially Cancelled or Not Transported *(when HOSP_HR = 00)*
--	00	--	Not Notified or Not Transported *(when HOSP_HR = 00)*
--	--	88	Not Applicable or Not Notified
--	96	96	Terminated Transport
--	97	97	Officially Cancelled
--	98	98	Unknown if Transported
99	99	99	Unknown Minutes

C31 Related Factors- Crash Level

Definition: This data element records factors related to the crash expressed by the investigating officer.

Additional Information: There are also vehicle-level related factors in the Vehicle data file (VEH_SC1 and VEH_SC2), driver-level related factors, also in the Vehicle data file (DR_SF1, DR_SF2, DR_SF3 and DR_SF4), and person-level related factors in the Person data file (P_SF1, P_SF2, and P_SF3).

The FARS analyst may have used any of the three data elements to code a related factor. One must test all three data elements to ensure that the selected related factor is included.

Note: Starting in 1982, many of the "Related Factors-Crash Level" attributes, values 01-29, are coded as "Related Factors-Driver Level" attributes, values 61-87, in the Vehicle data file.

SAS Name: CF1, CF2, CF3

Attribute Codes

1975-1981

00 None

VISION OBSCURED BY:

01 Rain, Snow, Fog, Smoke, Sand, Dust *(i.e., Weather Conditions)*
02 Reflected Glare, Bright Sunlight, Headlights
03 Curve, Hill or Other Design Features *(Including Traffic Signs, Embankments)*
04 Building, Billboard, etc.
05 Trees, Crops, Vegetation
06 Moving Vehicle *(Including Load)*
07 Parked Vehicle
08 Other Object Not Classified Above

SWERVING DUE TO:

20 Severe Crosswind
21 Wind From Passing Truck
22 Slippery Surface
23 Avoiding Debris or Objects in Road
24 Ruts, Holes, Bumps, in Road
25 Avoiding Animals in Road
26 Avoiding Vehicle in Road
27 Avoiding Phantom Vehicle
28 Avoiding Pedestrian, Pedalcyclist, Other Non-Motorist in Road
29 Avoiding Water, Snow, Oil Slick on Road

ROADWAY FEATURES:

40 Traffic Controls Not Functioning Properly
41 Inadequate Warning of Exits, Lanes Narrowing, Traffic Controls, etc.
42 Uncontrolled Intersection or Railroad Crossing
43 Shoulder Too Low or High
44 Shoulders Too Narrow or No Shoulders for Emergency Use
47 Other Construction

C31 Related Factors- Crash Level *(continued)*

Attribute Codes

1975-1981

48	No or Obscured Pavement Markings
49	Surface Underwater *(Since 1979)*
50	Inadequate Construction or Poor Design of Roadway, Bridge, etc. *(Since 1979)*
51	Surface Washed Out *(Caved in, Road Slippage, Since 1979)*
99	Unknown

1982-2012	***2013-Later***	
0	0	None
1	1	Inadequate Warning of Exits, Lanes Narrowing, Traffic Controls etc.
2	2	Shoulder Related *(Design or Condition, Since 2002)*
3	3	Other Maintenance or Construction-Created Condition
4	4	No or Obscured Pavement Marking
5	5	Surface Under Water
6	6	Inadequate Construction or Poor Design of Roadway, Bridge, etc.
7	7	Surface Washed Out *(Caved in, Road Slippage)*
13	13	Aggressive Driving/Road Rage by Non-Contact Vehicle Driver *(Since 2006)*
14	14	Motor Vehicle *(In Transport 1983-2004)* Struck By Falling Cargo or Something That Came Loose From or Something That Was Set in Motion By a Vehicle *(Since 1983)*
15	15	Non-Occupant Struck By Falling Cargo, or Something Came Loose From or Something That Was Set In Motion By A Vehicle *(Since 1983)*
16	16	Non-Occupant Struck Vehicle *(Since 1983)*
17	17	Vehicle Set In Motion By Non-Driver *(Since 1983)*
18	18	Date of Crash and Date of EMS Notification Were Not Same Day *(Since 1988)*
19	19	Recent Previous Crash Scene Nearby *(Since 1989)*
20	20	Police-Pursuit-Involved *(Since 1994)*
21	21	Within Designated School Zone *(Since 1995)*
22	22	Speed Limit Is a Statutory Limit as Recorded or Was Determined as This State's "Basic Rule" *(Since 1999)*
23	23	Indication of a Stalled/Disabled Vehicle *(Since 2008)*
24	24	Unstabilized Situation Began and All Harmful Events Occurred Off of the Roadway *(Since 2012)*
25	--	Toll Plaza Related *(2012 Only)*
--	25	Toll Booth/Plaza Related
--	26	Backup Due to Prior Non-Recurring Incident
--	27	Backup Due to Prior Crash
--	28	Backup Due to Regular Congestion
99	99	Unknown

More Information on Related Factors- Crash Level

C100 Drunk Drivers

Definition: This data element records the number of drunk drivers involved in the crash.

Additional Information: This data element is derived from data elements in the Vehicle and Person data files. Data are analyzed and if there is "sufficient information" to conclude that a driver was drunk, i.e., if the blood alcohol concentration (BAC) is positive, or if the police reported alcohol involvement, then the driver is counted as a drunk driver.

A crash is alcohol-involved if a driver, pedestrian, or pedal cyclist involved in the crash has (1) police-reported alcohol involvement, or (2) a positive alcohol test result.

A driver who is charged with an alcohol violation by itself does not have the driver counted as a drunk driver.

Note that alcohol data is often missing. For that reason this data element may undercount the actual number of drunk drivers.

From 1975 to 1993 the maximum number of drunk drivers was 6. Virtually all crashes have no more than two drunk drivers.

Two useful partitions of this data element are:

(1) no drunk drivers, one or more drunk drivers involved, and

(2) no drunk drivers, one drunk driver, multiple drunk drivers

In the early years of FARS, especially 1975 and 1976, the alcohol data must be used with care. In these two years no drunk drivers were identified for North Dakota. In 1975/76 Alabama, Mississippi, New Mexico, North Carolina, Texas, and West Virginia have a reported drunk driver rate for fatal crashes of less than 5 percent. In 1979 the data from these States reports a drunk-driver rate for fatal crashes between 18.5 percent and 43 percent.

Note: The DRUNK_DR data element on the Crash level was incorrectly derived on all person types from 1999 through 2007. Since then, it was derived based on all person types rather than based on Drivers only. Furthermore, the data element name (DRUNK_DR) implies that the individual was drunk, however, it actually captures those individuals whom the police reported alcohol involvement OR who tested positive for alcohol (i.e. their blood alcohol concentration was .01 g/dL or greater). Beginning with the 2008 Final FARS data file, DRUNK_DR has been derived for Drivers only.

SAS Name: DRUNK_DR

Attribute Codes

1975-Later

00-99	Number of Drunk Drivers Involved in the Fatal Crash.

C101 Fatalities

Definition: This data element records the number of fatally injured persons in the crash.

Additional Information: The data element is derived by counting all persons with "Injury Severity" of 4 in the crash. The data element "Fatalities in Vehicle" in the Vehicle data file provides the number of deaths in a vehicle.

SAS Name: FATALS

Attribute Codes

1975-Later

01-99	Number of Fatalities that Occurred in the Crash.

Discontinued ACCIDENT Data Elements

Federal Highway (discontinued)

Definition: This data element was discontinued after 1993.

Additional Information: The data element is in the data file, but was not initialized prior to 1978, i.e., no data exists for this data element. This may be due to the extensive revisions by the Federal Highway Administration (FHWA) in 1977, which caused extensive modifications to this field for all data before 1978.

SAS Name:

TA_1_CL ***1975-1981***

FED_AID ***1982-1993***

Attribute Codes

1975-1977	*1978-1981*	*1982-1986*	*1987 1993*	
--	1	1	1	Interstate
--	2	2	--	Other Federal Aid Primary
--	--	--	2	Federal Aid Primary *(Other Than Interstate)*
--	3	3	--	Federal Aid Secondary
--	--	--	3	Federal Aid Urban
--	4	4	--	Federal Aid Urban Arterials
--	--	--	4	Federal Aid Secondary *(Rural Only)*
--	5	5	--	Federal Aid Urban Collectors
--	--	--	5	Non-Federal Aid
--	6	6	--	Non-Federal Aid Arterials
--	7	7	--	Non-Federal Aid Collectors
--	8	8	--	Non-Federal Aid Local
--	9	9	9	Unknown

Hit and Run (discontinued)

Definition: This data element identifies whether this vehicle was a contact vehicle in the crash that did not stop to render aid (this can include drivers who flee the scene on foot). Hit and run is coded when a motor vehicle in-transport, or its driver, departs from the scene; vehicles not in-transport are excluded. It does not matter whether the hit-and-run vehicle was striking or struck.

Additional Information: From 1975 to 1981 if no information was known about the Hit-and-Run vehicle and/or driver, the vehicle form and/or driver form were not filled out and were not counted as unknown. Starting in 1982 both a vehicle and a driver form were filled out and the data were identified as unknown. This is why, for example, there were approximately only 20 to 40 drivers with unknown sex listed in the FARS data file from 1975 to 1981 and 700 to 1,000 drivers with unknown sex from 1982 on.

In 2009, this data element was no longer collected at the Accident level and is now collected at the Vehicle level.

SAS Name: HIT_RUN

Attribute Codes

1975-1976	*1977-1981*	*1982-2008*	
0	--	--	Not Applicable
--	0	0	No Hit-and-Run
1	1	--	With Motor Vehicle
--	--	1	Hit Motor Vehicle in Transport
2	--	--	With Non-Occupant
--	2	--	Hit Non-Motorist
--	--	2	Hit Pedestrian or Non-Motorist
--	3	--	Left Scene
--	--	3	Hit Parked Vehicle *(Working Vehicle, Since 2004)* or Object
--	--	4	Occupant Is Struck by or Fell From Own Hit-and-Run Vehicle *(2002 Only)*
--	--	4	Driver Leaves Scene after Non-Collision Event *(Since 2004)*
--	--	5	Driver/Occupant Leaves Scene after a Non-Collision Event *(2003 Only)*
--	--	5	Other Involved Person, not a driver, left Scene *(2005-2006)*
--	--	5	Hit-and-Run, Other Involved Person Left Scene *(Since 2007)*

Land Use (discontinued)

Definition: This data element was discontinued after 1986.

Additional Information: The data element LAND_USE is defined by the Federal Highway Administration and does not necessarily coincide with the U.S. Census Bureau's definition or any other definition of urban or rural. It has been determined there are errors in the 1975 and 1976 data for this data element; consequently, care should be taken when comparing data over several years.

SAS Name: **LAND_USE**

Attribute Codes

1975-1986

1 Urban
2 Rural
9 Unknown

Roadway Alignment (discontinued)

Definition: This data element identifies the attribute that best represents the roadway alignment prior to this vehicle's critical precrash event, based on the case materials.

Additional Information: In 2010, this data element was no longer collected at the Accident level. It is now collected at the Vehicle level and appears on the Vehicle data file as VALIGN.

SAS Name: **ALIGNMNT**

Attribute Codes

1975-2009

1 Straight
2 Curved
9 Unknown

Roadway Profile (discontinued)

Definition: This data element identifies the attribute that best represents the roadway grade prior to this vehicle's critical precrash event, based on the case materials.

Additional Information: In 2010, this data element was no longer collected at the Accident level. It is now collected at the Vehicle level and appears on the Vehicle data file as VPROFILE.

SAS Name: PROFILE

Attribute Codes

1975-1981

1 Level
2 Grade
9 Unknown

1982-2009

1 Level
2 Grade
3 Hillcrest
4 Sag
9 Unknown

Roadway Surface Condition (discontinued)

Definition: This data element identifies the attribute that best represents the roadway surface condition prior to this vehicle's critical precrash event, based on the case materials.

Additional Information: In 2010, this data element was no longer collected at the Accident level. It is now collected at the Vehicle level and appears on the Vehicle data file as VSURCOND.

SAS Name: SUR_COND

Attribute Codes

1975-2006	*2007-2009*	
1	1	Dry
2	2	Wet
3	3	Snow or Slush
4	--	Ice
--	4	Ice/Frost
5	--	Sand, Dirt, Oil
--	5	Sand, Dirt, Mud, Gravel
--	6	Water *(Standing or Moving)*
--	7	Oil
8	8	Other
9	9	Unknown

Roadway Surface Type (discontinued)

Definition: This data element identifies the attribute that best represents the roadway surface type prior to this vehicle's critical precrash event, based on the case materials.

Additional Information: In 2010, this data element was no longer collected at the Accident level. It is now collected at the Vehicle level and appears on the Vehicle data file as VPAVETYP.

SAS Name: PAVE_TYP

Attribute Codes

1975-2009

1 Concrete
2 Blacktop, Bituminous, or Asphalt
3 Brick or Block
4 Slag, Gravel or Stone
5 Dirt
8 Other
9 Unknown

Speed Limit (discontinued)

Definition: This data element identifies the attribute that best represents the posted speed limit just prior to this vehicle's critical precrash event, based on the case materials.

Additional Information: In 2010, this data element was no longer collected at the Accident level. It is now collected at the Vehicle level and appears on the Vehicle data file as VSPD_LIM.

SAS Name: **SP_LIMIT**

Attribute Codes

1975-1976	*1977-1978*	*1979*	*1980-2009*	
--	--	--	00	No Statutory Limit
01-94	01-94	01-98	01-98	Speed Limit *(mph)*
95	95	--	--	Speed Limit Is 95 mph or Greater
96	96	--	00	No Statutory Limit
98	--	--	--	Not Reportable
99	99	99	99	Unknown

Total Lanes in Roadway (discontinued)

Definition: This data element identifies the attribute that best describes the number of travel lanes just prior to this vehicle's critical precrash event, based on the case materials.

Additional Information: The number of lanes refers to the number of lanes of a continuous cross-section of roadway. For example, a local roadway with one lane going north and one lane going south would be coded as two lanes. However, if a trafficway is a divided highway, with two lanes going north, a median, and two lanes going south, then the number of lanes is coded as two. If a trafficway has two lanes going north immediately adjacent to two lanes going south, one continuous cross-section of roadway, then the number of lanes is coded as four. This data element can be used with the trafficway flow data element TRAF_FLO to determine the trafficway geometry. For example: If (NO_LANES EQ 2) AND (TRAF_FLO EQ 1), then one has a two-lane roadway that is not physically divided, that is what most people think of as a two-lane road, one lane going in each direction.

In 2010, this data element was no longer collected at the Accident level. It is now collected at the Vehicle level and appears on the Vehicle data file as VNUM_LAN.

SAS Name: NO_LANES

Attribute Codes

1975-1979	*1980-2009*	
1	1	One Lane
2	2	Two Lanes
3	3	Three Lanes
4	4	Four Lanes
5	5	Five Lanes
6	6	Six or More Lanes
--	7	Seven or More Lanes
9	9	Unknown

Traffic Control Device (discontinued)

Definition: This data element identifies the attribute that best describes the traffic controls in the vehicle's environment just prior to this vehicle's critical precrash event, based on the case materials.

Additional Information: In 2010, this data element was no longer collected at the Accident level. It is now collected at the Vehicle level and appears on the Vehicle data file as VTRAFCON.

SAS Name: TRA_CONT

Attribute Codes

1975-1981

00 No Controls
01 Flashing Traffic Signals
02 On Colors Traffic Signal
03 Stop Sign
04 Yield Sign
05 Physically Controlled Railroad Crossing
06 Stop Sign for Railroad Crossing
07 Other Railroad Crossing
08 School Zone Sign
09 Traffic Controls Not Functioning
10 Pedestrian Signal *(Since 1978)*
98 Other
99 Unknown

1982-2009

00 No Controls

NOT AT RAILROAD GRADE CROSSINGS

HIGHWAY TRAFFIC SIGNALS

01 Traffic Control Signal *(On Colors)* Without Pedestrian Signal
02 Traffic Control *(On Colors)* With Pedestrian Signal
03 Traffic Control Signal *(On Colors)* Not Known if Pedestrian Signal
04 Flashing Traffic Control Signal
05 Flashing Beacon
06 Flashing Highway Traffic Signal, Type Unknown, or Other
07 Lane Use Control Signal
08 Other Highway Traffic Signal
09 Unknown Highway Traffic Signal

Traffic Control Device *(continued)*

Attribute Codes

1982-2009

REGULATORY SIGNS

20 Stop Sign
21 Yield Sign
28 Other Regulatory Sign
29 Unknown Type Regulatory Sign

SCHOOL ZONE SIGNS

30 School Speed Limit Sign
31 School Advance or Crossing Sign
38 Other School-Related Sign
39 Unknown Type School Zone Sign

WARNING SIGN

40 Warning Sign
41 Electronic Warning Sign *(Since 2002)*

MISCELLANEOUS NOT AT RAILROAD CROSSING

50 Officer, Crossing Guard, Flagman, etc.

AT RAILROAD GRADE CROSSINGS

ACTIVE DEVICES

60 Gates
61 Flashing Lights
62 Traffic Control Signal
63 Wigwags
64 Bells
68 Other Train-Activated Device
69 Active Device, Type Unknown

PASSIVE DEVICES

70 Cross Bucks
71 Stop Sign
72 Other Railroad Crossing Sign
73 Special Warning Device Watchman, Flagged By Crew
78 Other Passive Device
79 Passive Device, Type Unknown

MISCELLANEOUS DEVICES AT RAILROAD CROSSING

80 Grade Crossing Controlled, Type Unknown

WHETHER OR NOT AT RAILROAD GRADE CROSSING

98 Other
99 Unknown

Traffic Control Device Functioning (discontinued)

Definition: This data element identifies the functionality of the traffic control device recorded for this vehicle in the data element Traffic Control Device.

Additional Information: Data not collected prior to 1982.

In 2010, this data element was no longer collected at the Accident level. It is now collected at the Vehicle level and appears on the Vehicle data file as VTCONT_F.

SAS Name: **T_CONT_F**

Attribute Codes

1982-2009

0 No Controls
1 Device Not Functioning
2 Device Functioning – Functioning Improperly
3 Device Functioning Properly
9 Unknown

Trafficway Description (discontinued)

Definition: This data element identifies the attribute that best describes the trafficway flow just prior to this vehicle's critical precrash event, based on the case materials.

Additional Information: In 1975 and 1976 all divided highway traffic is coded as Level Data element 3, i.e., divided highway, other barrier or barrier type unknown. There is no distinction made among median strips, guardrails and other barriers for these two years.

Prior to 2010, this data element was called Trafficway Flow. In 2010, this data element was no longer collected at the Accident level. It is now collected at the Vehicle level and appears on the Vehicle data file as VTRAFWAY.

SAS Name: **ROAD_FLO** ***1975-1981***
TWAY_FLO ***1982-1986***
TRAF_FLO ***1987-2009***

Attribute Codes

1975-1981

1	Divided Highway, Median Strip *(Since 1977)*
2	Divided Highway, Guardrail *(Since 1977)*
3	Divided Highway, Other Barrier or Barrier Type Unknown
4	Not Physically Divided
5	One Way Traffic
9	Unknown

1982-1986	***1987-2002***	***2003-2009***	
1	1	1	Not Physically Divided *(Two-Way Trafficway)*
2	2	2	Divided Highway, Median Strip *(Without Traffic Barrier)*
3	3	3	Divided Highway, Median Strip *(With Traffic Barrier)*
4	4	4	One-Way Trafficway
--	5	--	Divided Highway, Median Strip *(With Two-Way Continuous Left-Turn Lane, Since 2001)*
--	--	5	Not Physically Divided *(With Two-Way Continuous Left-Turn Lane)*
--	--	6	Entrance/Exit Ramp
9	9	9	Unknown

Vehicles in Transport (discontinued)

Definition: This data element counts the number of vehicles in-transport involved in the crash. Legally parked vehicles are not included.

Additional Information: This data element was discontinued after 1981.

SAS Name: VEHICLES

Attribute Codes

1976-1981

01-99

The VEHICLE Data File

The Vehicle data file includes in-transport motor vehicle data as well as driver and precrash data. It contains the data elements ST_CASE, STATE, and VEH_NO, which are described in the beginning of the Data Element Definitions and Codes section. ST_CASE and VEH_NO are the unique identifiers for each record. ST_CASE should be used to merge the Vehicle data file with the Accident data file. ST_CASE and VEH_NO should be used to merge the Vehicle data file with other vehicle-level data files and the Person data file. The Vehicle data file also contains the data elements on the following pages.

V4 Number of Occupants

Definition: This data element is a count of the number of occupants in this vehicle.

Additional Information: All, some, or none of the individuals may have died in the crash.

This data element also appears in the Parkwork data file as PNUMOCCS.

SAS Name: **OCUPANTS** ***1975-2008***
NUMOCCS ***2009-Later***

Attribute Codes

1975-2008	***2009-Later***	
00	00	None
01-95	01-95	Actual Number of Occupants in The Vehicle
96	96	96 or More Occupants in The Vehicle
97	--	Unknown – Only Injured Reported
--	98	Not Reported *(2010 Only)*
99	99	Unknown

V5 Unit Type

Definition: This data element identifies the type of unit that applies to this motor vehicle at the time it became an involved vehicle in the crash and was reported as a unit on the PAR.

Additional Information: This data element also appears in the Parkwork data file as PTYPE. The valid attributes for PTYPE are:

2 Motor Vehicle Not in Transport Within the Trafficway
3 Motor Vehicle Not in Transport Outside the Trafficway
4 Working Motor Vehicle *(Highway Construction, Maintenance, Utility Only)*

SAS Name: UNITTYPE

Attribute Codes

2005-2007	*2008-Later*	
1	--	Motor Vehicle in Transport
--	1	Motor Vehicle in Transport *(Inside or Outside the Trafficway)*

V6 Hit and Run

Definition: This data element identifies whether this vehicle was a contact vehicle in the crash that did not stop to render aid (this can include drivers who flee the scene on foot). Hit and run is coded when a motor vehicle in-transport, or its driver, departs from the scene; vehicles not in-transport are excluded. It does not matter whether the hit-and-run vehicle was striking or struck.

Additional Information: From 1975 to 1981 if no information was known about the Hit-and-Run vehicle and/or driver, the vehicle form and/or driver form were not filled out and were not counted as unknown. Starting in 1982 both a vehicle and a driver form were filled out and the data were identified as unknown. This is why, for example, there were approximately only 20 to 40 drivers with unknown sex listed in the FARS data file from 1975 to 1981 and more than 700 drivers with unknown sex from 1982 on.

This data element was removed from Accident data file in 2009.

This data element also appears in the Parkwork data file as PHIT_RUN.

SAS Name: HIT_RUN

Attribute Codes

1975-1976	*1977-1981*	*1982-2008*	
0	--	--	Not Applicable
--	0	0	No Hit-and-Run
1	1	--	With Motor Vehicle
--	--	1	Hit Motor Vehicle in Transport
2	--	--	With Non-Occupant
--	2	--	Hit Non-Motorist
--	--	2	Hit Pedestrian or Non-Motorist
--	3	--	Left Scene
--	--	3	Hit Parked Vehicle *(Working Vehicle, Since 2004)* or Object
--	--	4	Occupant Is Struck by or Fell From Own Hit-and-Run Vehicle *(2002 Only)*
--	--	4	Driver Leaves Scene after Non-Collision Event *(Since 2004)*
--	--	5	Driver/Occupant Leaves Scene after a Non-Collision Event *(2003 Only)*
--	--	5	Other Involved Person, not a driver, left Scene *(2005-2006)*
--	--	5	Hit-and-Run, Other Involved Person Left Scene *(Since 2007)*

2009	*2010-2011*	*2012-Later*	
0	0	0	No
1	1	1	Yes
--	8	--	Not Reported
9	9	9	Unknown

V7 Registration State

Definition: This element identifies the state in which this vehicle was registered.

Additional Information: For multiple state registrations prior to 1997 the value is 94. In 1997, values 93 and 94 were combined into 93. After 1997, the value for multiple state registrations is 93.

This variable also appears in the Parkwork data set as PREG_STAT.

SAS Name: REG_STAT

Attribute Codes

1975-Later

01 Alabama
02 Alaska
03 American Samoa
04 Arizona
05 Arkansas
06 California
08 Colorado
09 Connecticut
10 Delaware
11 District of Columbia
12 Florida
13 Georgia
14 Guam
15 Hawaii
16 Idaho
17 Illinois
18 Indiana
19 Iowa
20 Kansas
21 Kentucky
22 Louisiana
23 Maine
24 Maryland
25 Massachusetts
26 Michigan
27 Minnesota
28 Mississippi
29 Missouri
30 Montana
31 Nebraska
32 Nevada
33 New Hampshire
34 New Jersey
35 New Mexico
36 New York
37 North Carolina
38 North Dakota
39 Ohio
40 Oklahoma
41 Oregon
42 Pennsylvania
43 Puerto Rico
44 Rhode Island
45 South Carolina
46 South Dakota
47 Tennessee
48 Texas
49 Utah
50 Vermont
51 Virginia
52 Virgin Islands *(Since 2004)*
53 Washington
54 West Virginia
55 Wisconsin
56 Wyoming

V7 Registration State *(continued)*

Attribute Codes

1975-2007	*2008-2009*	*2010-Later*	
--	--	00	Not Applicable
--	--	91	Not Reported
92	92	92	No Registration
93	93	93	Multiple State Registrations
94	--	--	Multiple State Registrations - Out-of-State *(1975-1996)*
--	94	94	U.S. Government Tags *(Includes Military)*
95	--	--	U.S. Government Tags
--	95	95	Canada
96	--	--	Military Vehicle
--	96	96	Mexico
97	--	--	Foreign Country
--	97	97	Other Foreign Country
98	--	--	Other Registration
--	98	98	Other Registration *(Includes Native American Indian Nations)*
99	99	99	Unknown

V8 Registered Vehicle Owner

Definition: This data element identifies the type of registered owner of the vehicle.

Additional Information: This data element also appears in the Parkwork data file as POWNER.

SAS Name: OWNER

Attribute Codes

1991-2007	*2008-Later*	
0	0	Not Applicable, Vehicle Not Registered
1	1	Driver *(of This Vehicle)* Was Registered Owner
2	2	Driver *(of This Vehicle)* Not Registered Owner *(Other Private Owner)*
3	3	Vehicle Registered as Business/Company/Government Vehicle
4	4	Vehicle Registered as Rental Vehicle
5	5	Vehicle Was Stolen *(Reported By Police)*
6	--	Driverless Vehicle
--	6	Driverless/Motor Vehicle Parked/Stopped Off Roadway
9	9	Unknown

V9 Vehicle Make

Definition: This data element identifies the make (manufacturer) of this vehicle.

Additional Information: This data element also appears in the Person data file and in the Parkwork data file as PMAKE.

SAS Name: MAKE

Attribute Codes

1975-1990

01 American Motors
02 Jeep
03 AM General
06 Chrysler
07 Dodge
08 Imperial
09 Plymouth
10 Eagle *(Since 1988)*
12 Ford
13 Lincoln
14 Mercury
18 Buick
19 Cadillac
20 Chevrolet
21 Oldsmobile
22 Pontiac
23 GMC
29 Other Domestic
30 Volkswagen
31 Alfa Romeo
32 Audi
33 Austin-Healey
35 Datsun
36 Fiat
37 Honda
38 Isuzu
39 Jaguar
40 Lancia
41 Mazda
42 Mercedes-Benz
43 MG
44 Peugeot
45 Porsche
46 Renault
47 Saab
48 Subaru

V9 Vehicle Make *(continued)*

Attribute Codes

1975-1990

49 Toyota
50 Triumph
51 Volvo
52 Mitsubishi *(Since 1982)*
53 Suzuki *(Since 1987)*
57 Lexus *(Since 1988)*
58 Infiniti *(Since 1988)*
59 Other Imports
60 BSA
61 Ducati
62 Harley-Davidson
63 Kawasaki
64 Moto Guzzi
65 Norton
67 Yamaha
69 Other Motor Cycle
70 Moped
80 Brockway
81 Diamond Reo
82 Freightliner
83 FWD
84 International Harvester
85 Kenworth
86 Mack
87 Peterbilt
88 White
95 Other Truck/Bus
98 Other Make
99 Unknown Make

1991-Later

01 American Motors
02 Jeep/Kaiser-Jeep/Willys Jeep
03 AM General
06 Chrysler
07 Dodge
08 Imperial
09 Plymouth
10 Eagle
12 Ford
13 Lincoln
14 Mercury
18 Buick/Opel
19 Cadillac

V9 Vehicle Make *(continued)*

Attribute Codes

1991-Later

20 Chevrolet
21 Oldsmobile
22 Pontiac
23 GMC
24 Saturn
25 Grumman
26 Coda *(Since 2013)*
29 Other Domestic
- *Avanti*
- *Checker*
- *DeSoto*
- *Excalibur*
- *Hudson*
- *Packard*
- *Panoz*
- *Saleen*
- *Studebaker*
- *Stutz*
- *Tesla (Since 2014)*

30 Volkswagen
31 Alfa Romeo
32 Audi
33 Austin/Austin Healey
34 BMW
35 Datsun/Nissan
36 Fiat
37 Honda
38 Isuzu
39 Jaguar
40 Lancia
41 Mazda
42 Mercedes-Benz
43 MG
44 Peugeot
45 Porsche
46 Renault
47 Saab
48 Subaru
49 Toyota
50 Triumph
51 Volvo
52 Mitsubishi
53 Suzuki
54 Acura
55 Hyundai

V9 Vehicle Make *(continued)*

Attribute Codes

1991-Later

56 Merkur
57 Yugo
58 Infiniti
59 Lexus
60 Daihatsu
61 Sterling
62 Land Rover
63 Kia
64 Daewoo
65 Smart *(Since 2010)*
66 Mahindra *(2011-2013)*
67 Scion *(Since 2012)*
69 Other Imports

Aston Martin
Bentley
Bertone
Bricklin
Bugatti
Caterham
Citroen
DeLorean
Desta
Ferrari
Fisker
Gazelle
Hillman
Jensen
Koenigsegg
Lada
Lamborghini
Lotus
Mahindra (Since 2013)
Maserati
Maybach
McLaren
Mini Cooper
Morgan
Morris
Reliant (British)
Rolls-Royce
Simca
Singer
Spyker
Sunbeam
TVR

V9 Vehicle Make *(continued)*

Attribute Codes

1991-Later

70 BSA
71 Ducati
72 Harley-Davidson
73 Kawasaki
74 Moto Guzzi
75 Norton
76 Yamaha
77 Victory
78 Other Make Moped *(Since 2010)*
79 Other Make Motored Cycle *(Since 2010)*
80 Brockway
81 Diamond Reo/Reo
82 Freightliner
83 FWD
84 International Harvester/Navistar
85 Kenworth
86 Mack
87 Peterbilt
88 Iveco/Magirus
89 White/Autocar, White/GMC
90 Bluebird
91 Eagle Coach
92 Gillig
93 MCI
94 Thomas Built
97 Not Reported *(Since 2010)*
98 Other Make
Auto-Union-DKW
Carpenter
Collins Bus
DINA
Divco
Hino
Mid Bus
Neoplan
Orion
Oshkosh
Scania
Sterling
UD
Van Hool
Western Star
99 Unknown Make

V10 Vehicle Model

Definition: This data element identifies the model of this vehicle within a given make.

Additional Information: This data element also appears in the Person data file and in the Parkwork data file as PMODEL.

SAS Name: MODEL

Attribute Codes

1975-Later

See the current FARS/NASS GES Coding and Validation Manual for vehicle model codes.

V11 Body Type

Definition: This data element identifies a classification of this vehicle based on its general body configuration, size, shape, doors, etc.

Additional Information: This data element also appears in the Person data file and in the Parkwork data file as PBODYTYP.

1975-1981: Within the yearly NHTSA report *Fatal Accident Reporting System*, the term "Light Trucks" includes Vans.

The body type data do not track with the original documentation. For example, the documentation states that BODY_TYP EQ 7 is for utility vehicles. However, when the data files are examined one sees that BODY_TYP EQ 43 is the value that will provide the desired result. The data files have been modified to make the early years for this data element compatible with 1981.

Note: Utility vehicles are also part of the light truck category

Note: BODY_TYP 40, large limousines, are not included as part of Passenger Cars or Passenger Vehicles.

1982-1990: Within the yearly NHTSA report *Fatal Accident Report System*, the term "Light Truck" includes Vans. Utility vehicles are also part of the light-truck category.

Note: BODY_TYP 13, large limousines and BODY_TYP 14, three-wheel automobiles or automobile derivatives, are not included as part of Passenger Cars or Passenger Vehicles.

Note: A single-unit truck that tows another vehicle, or a bobtail by itself, is considered a combination truck.

1991-Later: Within the yearly NHTSA publication *Traffic Safety Facts*, the term "Light Trucks" includes Vans.

Note: BODY_TYP 12, large limousines and BODY_TYP 13, three-wheel automobiles or automobile derivatives, are not included as part of Passenger Cars or Passenger Vehicles.

When defining School Buses 1993 and later be sure to include the new body type 24 (van-based school bus). However, body type 24 is not part of Buses.

When defining Transit Buses 1993 and later be sure to include the new body type 25 (van-based transit bus). However, body type 25 is not part of Buses.

Note: A single-unit truck that tows another vehicle, or a bobtail, is considered a combination truck.

V11 Body Type *(continued)*

SAS Name: BODY_TYP

Attribute Codes

1975-1981

01 Convertible
02 2-Door Sedan HT/Coupe
03 4-Door Sedan HT
04 Hatchback
05 Car-Pickup Body
06 Station Wagon
07 On/Off Road Vehicle – Jeep CJ-S, Bronco, Blazer, Scout, etc. *(1975-1979)*
08 Other Auto
09 Unknown Auto Type
15 Motorcycle
16 Moped
17 Other Cycle
18 Unknown Cycle
25 School Bus
26 Cross-County
27 Transit Bus
28 Other Bus
29 Unknown Bus
35 Snowmobile
36 Farm Equipment
37 Dune/Swamp Buggy
38 Construction Equipment
39 Ambulance/Hearse Type
40 Large Limousine
41 Camper/Motorhome
42 Fire Truck
43 On/Off-Road Vehicle – Jeep CJ-S, Bronco, Blazer, Scout, etc. *(1980-1981)*
44 Other Special Vehicle
45 Ambulance EMS
50 Pickup
51 Van
52 Truck-Based Station Wagon
53 Straight Truck, Low GVW
54 Straight Truck, Medium GVW
55 Straight Truck, High GVW
56 Straight Truck, Unknown GVW
57 Two-Unit Truck
58 Multi-Unit Truck
59 Truck-Tractor
60 Unknown Type Truck
99 Unknown

V11 Body Type *(continued)*

Attribute Codes

1982-1990

01	Convertible
02	2-Door Sedan/Ht/Coupe
03	3-Door/2-Door Hatchback
04	4-Door Sedan/Ht
05	5-Door/4-Door Hatchback
06	Station Wagon
07	Hatchback/Number of Doors Unknown
08	Other Auto
09	Unknown Auto Type
10	Auto Pickup
11	Auto Panel
12	Short Utility/Not Truck-Based
13	Large Limousine
14	3-Wheel Vehicle Unknown Body Type
20	Motorcycle
21	Moped
27	3-Wheel Motorcycle Or Moped
28	Other Cycle
29	Unknown Cycle
30	School Bus
31	Cross-Country/Intercity
32	Transit Bus
38	Other Bus
39	Unknown Bus
40	Van
41	Van Commercial Cutaway
42	Van Motorhome
48	Other Van Type
49	Unknown Van Type
50	Pickup
51	Pickup W/Slide-In Camper
52	Pickup-Based Motorhome
53	Cab Chassis Based
54	Truck-Based Panel
55	Truck-Based Station Wagon
56	Truck-Based Utility
58	Other Light Conventional Truck
59	Unknown Light Convent Truck
67	Utility, Base Body Unknown
69	Unknown Light Truck

V11 Body Type *(continued)*

Attribute Codes

1982-1990

70	Straight Truck, Low GVW
71	Straight Truck, Medium GVW
72	Straight Truck, High GVW
73	Medium/Heavy Truck Motorhome
74	Truck/Tractor
75	Unknown Medium Truck
76	Unknown Heavy Truck
77	Camper/Motorhome
78	Single Unit Straight Truck GVW Unknown
79	Unknown Truck Type
80	Snowmobile
81	Farm Equipment/Not Trucks
82	ATV, Dune/Swamp Buggy
83	Construction Equipment/Not Trucks
88	Other
89	Unknown Other Vehicle
90	3-Wheel Vehicle Unknown Body Type
99	Unknown Body Type

1991-2009	***2010-Later***	
01	01	Convertible *(Excludes Sunroof, T-Bar)*
02	02	2-Door Sedan/Hardtop/Coupe
03	03	3-Door/2-Door Hatchback
04	04	4-Door Sedan/Hardtop
05	05	5-Door/4-Door Hatchback
06	06	Station Wagon *(Excluding Van and Truck-Based)*
07	07	Hatchback, Number of Doors Unknown
08	--	Other Auto *(1991-1993)*
08	08	Sedan/Hardtop, Number of Doors Unknown *(Since 1994)*
09	--	Unknown Auto Type *(1991-1993)*
09	09	Other or Unknown Automobile Type *(Since 1994)*
10	10	Auto-Based Pickup
11	11	Auto-Based Panel *(Cargo Station Wagon, Auto-Based Ambulance or Hearse)*
12	12	Large Limousine – More Than Four Side Doors or Stretch Chassis
13	13	Three-Wheel Automobile or Automobile Derivative
14	14	Compact Utility *(ANSI D-16 Utility Vehicle Categories "Small" and "Midsize")*
15	15	Large Utility *(ANSI D-16 Utility Vehicle Categories "Full Size" and "Large")*
16	16	Utility Station Wagon
--	17	3-Door Coupe
19	19	Utility Unknown Body

V11 Body Type *(continued)*

Attribute Codes

1991-2009	*2010-Later*	
20	20	Minivan
21	21	Large Van – Includes Van-Based Buses
22	22	Step Van or Walk-In Van
23	--	Van Motorhome *(1991-2002)*
24	--	Van-Based School Bus *(1993-2002)*
25	--	Van-Based Transit Bus *(1993-2002)*
28	28	Other Van Type *(Hi-Cube Van)*
29	29	Unknown Van Type
30	30	Compact Pickup *(Gross Vehicle Weight, GVWR, < 4,500 lbs)*
31	31	Standard Pickup *(4,500 lbs □ GVWR < 10,000 lbs)*
32	32	Pickup with Slide-In Camper
33	33	Convertible Pickup
39	39	Unknown *(Pickup Style)* Light Conventional Truck Type
40	40	Cab Chassis-Based *(Includes Light Stake, Light Dump, Light Tow, Rescue Vehicles)*
41	41	Truck-Based Panel
42	42	Light-Truck-Based Motorhome *(Chassis Mounted)*
45	45	Other Light Conventional Truck Type *(Includes Stretched Suburban Limousine)*
48	48	Unknown Light-Truck Type *(Not a Pickup, 1991-2012)*
--	48	Unknown Light Truck Type *(Since 2013)*
49	49	Unknown Light-Vehicle Type *(Automobile, Utility Vehicle, Van or Light Truck)*
50	50	School Bus
51	51	Cross-Country/Intercity Bus *(i.e., Greyhound)*
52	52	Transit Bus *(City Bus)*
--	55	Van-Based Bus GVWR > 10,000 lbs. *(Since 2011)*
58	58	Other Bus Type
59	59	Unknown Bus Type
60	60	Step Van
61	61	Single-Unit Straight Truck *(10,000 lbs < GVWR <= 19,500 lbs) (1991-2010)*
--	61	Single-Unit Straight Truck or Cab-Chassis *(10,000 lbs < GVWR <= 19,500 lbs) (Since 2011)*
62	62	Single-Unit Straight Truck *(19,500 lbs < GVWR <= 26,000 lbs) (1991-2010)*
--	62	Single-Unit Straight Truck or Cab-Chassis *(19,500 lbs < GVWR <= 26,000 lbs) (Since 2011)*
63	63	Single-Unit Straight Truck *(GVWR > 26,000 lbs) (1991-2010)*
--	63	Single-Unit Straight Truck or Cab-Chassis *(GVWR > 26,000 lbs) (Since 2011)*
64	--	Single-Unit Straight Truck
--	64	Single Unit Straight Truck or Cab-Chassis *(GVWR Unknown) (Since 2011)*
65	65	Medium/Heavy Truck-Based Motorhome
66	66	Truck/Tractor *(Cab Only, or with Any Number of Trailing Units: Any Weight)*
67	67	Medium/Heavy Pickup *(GVWR > 10,000 lbs) (Since 2001)*
--	68	Single-Unit Straight Truck *(GVWR Unknown) (2010 Only)*

V11 Body Type *(continued)*

Attribute Codes

1991-2009	*2010-Later*	
71	71	Unknown if Single-Unit or Combination-Unit Medium Truck *(10,000 lbs < GVWR < 26,000 lbs)*
72	72	Unknown if Single-Unit or Combination-Unit Heavy Truck *(GVWR > 26,000 lbs.)*
73	73	Camper or Motorhome, Unknown Truck Type
78	78	Unknown Medium/Heavy Truck Type
79	79	Unknown Truck Type
80	80	Motorcycle
81	81	Moped *(Motorized Bicycle)*
82	82	Three-Wheel Motorcycle/Moped- Not All-Terrain Vehicle
83	83	Off-Road Motorcycle *(2-Wheel) (Since 1993)*
88	--	Other Motored Cycle Type *(Mini-Bikes, Motor Scooters) (1991-2007)*
88	88	Other Motored Cycle Type *(Mini-Bikes, Motor Scooters, Pocket Motorcycles, Pocket Bikes) (Since 2008)*
89	89	Unknown Motored Cycle Type
90	90	ATV *(All-Terrain Vehicle; Includes 3 or 4 Wheels)*
91	91	Snowmobile
92	92	Farm Equipment Other Than Trucks
93	93	Construction Equipment Other Than Trucks *(Includes Graders)*
94	--	Motorized Wheel Chair *(1997 Only)*
--	94	Low Speed Vehicle *(LSV)*/Neighborhood Electric Vehicle *(NEV) (Since 2011)*
--	95	Golf Cart *(Since 2012)*
97	97	Other Vehicle Type *(Includes Go-Cart, Fork-Lift, City Street Sweeper, Dune/Swamp Buggy)*
--	98	Not Reported
99	99	Unknown Body Type

More Information on Vehicle (Body Type) Classification

V12 Vehicle Model Year

Definition: This data element identifies the manufacturer's model year of this vehicle.

Additional Information: This data element also appears in the Person data file and in the Parkwork data file as PMODYEAR.

SAS Name: **MOD_YEAR**

Attribute Codes

1975-1997	*1998-2009*	*2010-Later*	
00-98	xxxx	xxxx	Actual Model Year
--	--	9998	Not Reported
99	9999	9999	Unknown

V13 Vehicle Identification Number (VIN)

Definition: This data element records the vehicle identification number (VIN) of this vehicle assigned by the vehicle manufacturer. The VIN contains information on the vehicle such as: manufacturer, model year, model, body type, restraint type, etc.

Additional Information: From 1975 to 1993 the first ten characters of the VIN are recorded; from 1994 onward the first 12 are used. The vehicle manufacturers use the VIN to describe certain characteristics of a vehicle and to assign a serial number to the vehicle.

VINA is a software program, maintained by R. L. Polk & Co. that deciphers the VIN for 1966 and newer vehicles that are within the scope of the program. In FARS, the VINA program uses the VIN as input values and returns decoded values for automobiles, trucks, and motorcycles. Vehicle type, determined by the analyst-coded body type, is also used as input to facilitate the program processing. The names of many data elements decoded from the VIN begin with "VIN" or "PVIN." Some of the results from the VINA program are used as edit checks for these data.

Starting in 1981, the Vehicle Identification Numbers were required to conform to an international standard. For vehicles built prior to 1981 one may consult the National Automobile Theft Bureau's publication Passenger Vehicle Identification Manual for the year in question.

This data element also appears in the Parkwork data file as PVIN.

SAS Name: VIN

Attribute Codes

1975-1993	*1994-2008*	*2009*	*2010-Later*	
xxxxxxxxxx	--	--	--	First 10 Characters
--	xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx	First 12 Characters
--	--	000000000000	000000000000	No VIN Required
--	--	--	888888888888	Not Reported
--	--	--	999999999999	Unknown

More Information on Vehicle Identification Number (VIN)

V14 Vehicle Trailing

Definition: This data element identifies whether this vehicle had any attached trailing units or was towing another motor vehicle. A trailing unit can be a horse trailer, fifth wheel trailer, camper, boat, truck trailer, towed vehicle or any other trailer.

Additional Information: This data element not only applies to tractor trailers, but also to boats, cars, and U-Haul-type vehicles that are towed with a trailer hitch. Vehicles pulled by a rope or chain are not counted as towed vehicles.

Note that the number of unknowns is 0 until 1982. From 1982 to 1984 the number of unknowns is approximately 2,500 per year. Starting in 1985 the number of unknowns falls to about 300 per year.

This data element also appears in the Person data file and in the Parkwork data file as PTRAILER.

SAS Name: TOW_VEH

Attribute Codes

1975-1981	*1982*	*1983-2003*	*2004-2008*	*2009-Later*	
0	0	0	0	0	No Trailing Unit
1	--	--	--	--	Yes
--	1	1	1	1	Yes, One Trailing Unit
--	--	2	2	2	Yes, Two Trailing Units
--	--	3	3	3	Yes, Three or More Trailing Units
--	4	4	4	4	Yes, Number of Trailing Units Unknown
--	5	--	--	--	Yes, Two or More Trailing Units
--	--	--	5	--	Vehicle Towing another Motor Vehicle
--	--	--	--	5	Vehicle Towing another Motor Vehicle – Fixed Linkage
--	--	--	--	6	Vehicle Towing another Motor Vehicle – Non-Fixed Linkage
--	--	9	9	9	Unknown

V15 Jackknife

Definition: This data element identifies whether this vehicle experienced a jackknife anytime during the unstabilized situation.

Additional Information: Jackknife applies to a condition which occurs to a "semi" truck (i.e., cab and one or more trailers) while in motion. The condition reflects a loss of control of the truck by the driver in which the trailer yaws more than 15 degrees from its normal straight line path behind the cab. If the final resting configuration of the vehicle is in the jackknife position, it does not necessarily mean that the vehicle has jackknifed (such as, a crash occurring while the vehicle is backing up or parking).

From 1975 to 1979, the data element exists in the data files but has not been initialized. These data were not collected.

SAS Name: J_KNIFE

Attribute Codes

1980-1981	*1982-Later*	
0	0	Not an Articulated Vehicle
1	1	No
2	--	Yes
--	2	Yes, First Event
--	3	Yes, Subsequent Event

V16 Motor Carrier Identification Number (MCID)

Definition: This data element records the issuing authority and motor carrier identification number (if applicable) to this vehicle.

Additional Information: This 11-character data element is the combination of two data elements, the 2-digit "Motor Carrier Issuing Authority" code (MCARR_I1) followed by the 9-character "Identification Number" (MCARR_I2).

The Carrier Identification Number is found only on vehicles of interstate for-hire or private carriers in the transportation business. It is the unique number assigned to the Carrier by the United States Department of Commerce Commission, or the State. The number can be either a US DOT number (on interstate private carriers) or an ICC MC number (interstate for-hire carriers). Collected only for buses and trucks over 4,500 kg GVWR (Bodytype (V5)= 60, 64, 66-79), this data element is applicable to the following vehicles:

- Medium/Heavy Trucks: vehicles with two axles/six tires and/or gross weight greater than 10,000 pounds.
- Buses with 16 or more seats (including the driver)
- Trucks and Vans of any size carrying hazardous cargo.
- Light commercial trucks pulling a trailer with gross combination weight rating (GCWR) greater than 10,000 pounds.

This data element also appears in the Parkwork data file as PMCARR_ID.

SAS Name: MCARR_ID

Attribute Codes

1998-2009	*2010-Later*	
xxxxxxxxxxx	xxxxxxxxxxx	11-Character Combination of MCARR_I1 followed by MCARR_I2
00000000000	00000000000	Not Applicable
--	77777777777	Not Reported
88888888888	88888888888	None
99999999999	99999999999	Unknown

V16A MCID Issuing Authority

Definition: This data element records the issuing authority if applicable to this vehicle.

Additional Information: This data element is only applicable for the following vehicles:

- Medium/Heavy Trucks: vehicles with two axles/six tires and/or gross weight greater than 10,000 pounds.
- Buses with 16 or more seats (including the driver)
- Trucks and Vans of any size carrying hazardous cargo.
- Light commercial trucks pulling a trailer with gross combination weight rating (GCWR) greater than 10,000 pounds.

This data element also appears in the Parkwork data file as PMCARR_I1.

SAS Name: MCARR_I1

Attribute Codes

2007-2009	***2010-Later***	
00	00	Not Applicable
01-56	01-56	FARS State Code
57	57	US DOT
58	58	MC/MX *(ICC)*
--	77	Not Reported
88	88	None
95	95	Canada
96	96	Mexico
99	99	Unknown

V16B MCID Identification Number

Definition: This data element records the motor carrier identification number if applicable to this vehicle.

Additional Information: The Carrier Identification Number is found only on vehicles of interstate for-hire or private carriers in the transportation business. It is the unique number assigned to the Carrier by the United States Department of Commerce Commission, or the State. The number can be either a US DOT number (on interstate private carriers) or an ICC MC number (interstate for-hire carriers). Collected only for buses and trucks over 4,500 kg GVWR (Bodytype (V5)= 60, 64, 66-79), this data element is applicable to the following vehicles:

- Medium/Heavy Trucks: vehicles with two axles/six tires and/or gross weight greater than 10,000 pounds.
- Buses with 16 or more seats (including the driver)
- Trucks and Vans of any size carrying hazardous cargo.
- Light commercial trucks pulling a trailer with gross combination weight rating (GCWR) greater than 10,000 pounds.

This data element also appears in the Parkwork data file as PMCARR_I2.

SAS Name: MCARR_I2

Attribute Codes

2007-Later

xxxxxxxxx	Actual 9-Digit Number
000000000	Not Applicable
777777777	Not Reported
888888888	None
999999999	Unknown

V17 Gross Vehicle Weight Rating

Definition: This data element identifies the gross vehicle weight rating of this vehicle if applicable.

Additional Information: The Gross Vehicle Weight Rating (GVWR) or Gross Combination Weight Rating (GCWR) is a value specified by the manufacturer for a single-unit truck, truck tractor, or trailer. In the absence of a gross vehicle weight rating, an estimate of the gross weight of a fully loaded unit can be substituted.

In 2000 the GVWR was the sum of the weight of the power unit and its trailers. Since 2001 this data element is the gross vehicle weight of the Power Unit only. The weight of trailers is not added.

This data element also appears in the Parkwork data file as PGVWR.

SAS Name: GVWR

Attribute Codes

2000-2009	*2010-Later*	
0	0	Not Applicable
1	1	10,000 lbs or Less
2	2	10,001 lbs - 26,000 lbs
3	3	26,001 lbs or More
--	8	Not Reported
9	9	Unknown

V18 Vehicle Configuration

Definition: This data element describes the general configuration of this vehicle if applicable.

Additional Information: This data element also appears in the Parkwork data file as PV_CONFIG.

SAS Name: V_CONFIG

Attribute Codes

1991-1994	*1995-2000*	*2001-2009*	*2010-Later*	
0	0	--	--	Not Applicable, Not a Medium/Heavy Truck or Bus
--	--	0	--	Not Applicable, Not a Medium/Heavy Truck or Bus or Vehicle Displaying a Hazardous Material Placard
--	--	--	0	Not Applicable
1	1	1	--	Single-Unit Truck *(2 axles, 6 tires)*
--	--	--	1	Single-Unit Truck *(2 axles and GVWR more than 10,000 lbs.)*
2	2	2	2	Single-Unit Truck *(3 or More axles)*
--	3	3	--	Single-Unit Truck *(Unknown Number of Axles, Tires)*
3	4	4	--	Truck/Trailer(s)
--	--	--	4	Truck Pulling Trailer(s)
4	5	5	5	Truck Tractor *(Bobtail, i.e., Tractor Only, No Trailer)*
5	6	--	--	Truck Tractor/Semi-Trailer
--	--	6	--	Truck Tractor/Semi-Trailer *(One Trailer)*
--	--	--	6	Truck Tractor/Semi-Trailer
--	--	7	--	Truck Tractor/Doubles *(Two Trailers)*
--	--	--	7	Truck Tractor/Double
--	--	8	--	Tractor/Triples *(Three Trailers)*
--	--	--	8	Truck Tractor/Triple
--	--	--	10	Vehicle 10,000 lbs or Less Placarded for Hazardous Materials
6	7	19	--	Medium/Heavy Trucks, Cannot Classify
--	--	--	19	Truck More than 10,000 lbs., Cannot Classify
7	8	--	--	Bus
--	--	20	--	Bus *(Seats for 9-15 Occupants, Including Driver)*
--	--	--	20	Bus/Large Van *(Seats for 9-15 Occupants, Including Driver)*
--	--	21	--	Bus *(Seats for More Than 15 People, Including Driver, 2001-2006)*
--	--	21	--	Bus *(Seats for 16 or More People, Including Driver, 2007-2009)*
--	--	--	21	Bus *(Seats for More Than 15 Occupants, Including Driver, 2010-Later)*
--	--	70	--	Light Truck *(Van, Mini-Van, Panel, Pickup, Sport Utility Vehicle Displaying a Hazardous Material Placard)*
--	--	80	--	Passenger Car *(Only When Displaying a Hazardous Material Placard)*

V18 Vehicle Configuration *(continued)*

Attribute Codes

1991-1994	*1995-2000*	*2001-2009*	*2010-Later*	
--	--	--	98	Not Reported *(2010-2012)*
9	--	--	99	Unknown
--	9	99	--	Unknown if Light or Medium/Heavy Truck/Bus

V19 Cargo Body Type

Definition: This data element describes the primary cargo carrying capability of this vehicle if applicable.

Additional Information: This data element also appears in the Parkwork data file as PCARGTYP.

SAS Name: CARGO_BT

Attribute Codes

1991-1994	*1995-2000*	*2001-2008*	*2009-Later*	
0	0	--	--	Not Applicable Not a Truck or Bus
--	--	0	--	Not Applicable, Not a Medium/Heavy Truck or Bus
--	--	--	0	Not Applicable
1	1	1	1	Van/Enclosed Box
2	2	2	2	Cargo Tank
3	3	3	3	Flatbed
4	4	4	4	Dump
5	5	5	5	Concrete Mixer
6	6	6	6	Auto Transporter
7	7	7	7	Garbage/Refuse
8	--	--	--	Medium/Heavy Truck, Other Body Type
9	8	--	--	Bus
--	--	8	8	Grain, Chips, Gravel
--	--	9	--	Pole
--	--	--	9	Pole-Trailer
--	--	10	10	Log *(Since 2007)*
--	--	11	--	Intermodal Chassis *(2007-2008)*
--	--	--	11	Intermodal Container Chassis
--	--	12	12	Vehicle Towing Another Motor Vehicle *(Since 2007)*
--	--	20	--	Bus *(Seats 9-15 People, Including Driver)*
--	--	21	--	Bus *(Seats More than 15 People, Including Driver, 2001-2006)*
--	--	21	--	Bus *(Seats for 16 or More People, Including Driver, 2007-2008)*
--	--	--	22	Bus
--	--	--	28	Not Reported *(2010-2012)*
--	--	96	96	No Cargo Body Type
--	97	--	--	Medium/Heavy Truck, Other Cargo Body Type
--	--	97	--	Medium/Heavy Truck, or Bus, Other Cargo Body Type *(Not Data elements 01-12, 20-21)*
--	--	--	97	Other
--	98	--	--	Medium/Heavy Truck, Unknown Cargo Body Type
--	--	98	--	Medium/Heavy Truck, or Bus, Unknown Cargo Body Type
--	--	--	98	Unknown Cargo Body Type

V19 Cargo Body Type *(continued)*

Attribute Codes

1991-1994	*1995-2000*	*2001-2008*	*2009*	*2010-Later*	
99	--	--	--	--	Unknown Vehicle Type
--	99	99	--	--	Unknown if Light or Medium/Heavy Truck/Bus
--	--	--	99	99	Unknown

V20A/HM1 Hazardous Material Involvement

Definition: This data element identifies whether this vehicle was carrying hazardous materials.

Additional Information: This data element also appears in the Parkwork data file as PHAZ_INV.

SAS Name: HAZ_INV

2007-Later

1 No
2 Yes

V20B/HM2 Hazardous Material Placard

Definition: This data element identifies the presence of hazardous materials for this vehicle and whether this vehicle displayed a hazardous materials placard.

Additional Information: This data element also appears in the Parkwork data file as PHAZPLAC.

SAS Name: HAZ_PLAC

2007-Later

0 Not Applicable
1 No
2 Yes
8 Not Reported

V20C/HM3 Hazardous Material Identification Number

Definition: This data element identifies the 4-digit hazardous material identification number for this vehicle.

Additional Information: This data element also appears in the Parkwork data file as PHAZ_ID.

SAS Name: HAZ_ID

2007-Later

0000 Not Applicable
xxxx Actual 4-Digit Number
8888 Not Reported

V20D/HM4 Hazardous Material Class Number

Definition: This data element identifies the single-digit hazardous material class number for this vehicle.

Additional Information: This data element also appears in the Parkwork data file as PHAZ_CNO.

SAS Name: HAZ_CNO

2007

0	Not Applicable
1-7 or 9	Actual Number
8	Not Reported

2008-Later

0	Not Applicable
1-9	Actual Number
88	Not Reported

V20E/HM5 Release of Hazardous Material from the Cargo Compartment

Definition: This data element identifies whether any hazardous cargo was released from the cargo tank or compartment of this vehicle.

Additional Information: This data element also appears in the Parkwork data file as PHAZ_REL.

SAS Name: HAZ_REL

2007-Later

0	Not Applicable
1	No
2	Yes
8	Not Reported

V21 Bus Use

Definition: This data element describes the common type of bus service this vehicle was being used as at the time of the crash or the primary use for the bus if not in service at the time of the crash.

Additional Information: This data element also appears in the Parkwork data file as PBUS_USE.

SAS Name: BUS_USE

Attribute Codes

2000-2009

0 Not Used as a Bus
1 Used as a Public School Bus
2 Used as a Private School Bus
3 Used as a School Bus, Public or Private Unknown
4 Used as a Scheduled Service Bus
5 Used as a Tour Bus
6 Used as a Commuter Bus
7 Used as a Shuttle Bus
8 Modified for Personal/Private Use
9 Unknown Bus Use

2010-Later

00 Not a Bus
01 School Bus
04 Intercity Bus
05 Charter/Tour Bus
06 Transit/Commuter Bus
07 Shuttle Bus
08 Modified for Personal/Private Use
98 Not Reported
99 Unknown

V22 Special Use

Definition: This data element identifies any special use associated with this vehicle at the time of the crash.

Additional Information: This data element also appears in the Person data file set and in the Parkwork data file as PSP_USE.

SAS Name: SPEC_USE

Attribute Codes

1975-2009	*2010-2011*	*2012*	*2013-Later*	
0	0	0	0	No Special Use
1	1	1	1	Taxi
2	2	--	--	Vehicle Used for School Bus
--	--	2	2	Vehicle Used as School Transport
3	3	3	3	Vehicle Used as Other Bus
4	4	4	4	Military
5	5	5	5	Police
6	6	6	6	Ambulance *(Since 1980)*
7	7	7	7	Fire Truck *(Since 1982)*
8	8	8	--	Emergency Services Vehicle *(2009-2012)*
--	--	--	8	Non-Transport Emergency Services Vehicle
--	--	--	13	Incident Response
--	98	98	98	Not Reported
9	99	99	99	Unknown

V23 Emergency Motor Vehicle Use

Definition: This data element identifies whether this vehicle was engaged in emergency use. Emergency Use 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 while actually engaged in such response.

Additional Information: This data element is applicable only if the vehicle was being used as an emergency vehicle at the time of the crash.

Prior to 2013 this data element was called "Emergency Use."

This data element also appears in the Person data file and in the Parkwork data file as PEM_USE.

SAS Name: EMER_USE

Attribute Codes

1977-2009	*2010-2012*	*2013*	*2014-Later*	
0	0	--	--	No
--	--	0	0	Not Applicable
1	1	--	--	Yes
--	--	2	2	Non-Emergency, Non-Transport
--	--	3	3	Non-Emergency Transport
--	--	4	4	Emergency Operation, Emergency Warning Equipment Not In Use
--	--	5	5	Emergency Operation, Emergency Warning Equipment In Use
--	--	--	6	Emergency Operation, Emergency Warning Equipment In Use Unknown
--	8	8	8	Not Reported
--	9	9	9	Unknown

V24 Travel Speed

Definition: This data element records the speed the vehicle was traveling prior to the occurrence of the crash as reported by the investigating officer.

Additional Information: This data is collected after the crash, and is an estimate of the travel speed, which is often a judgment, rather than a measurement. Computing the mean without removing the unknowns will increase the mean travel speed.

For the years 1980 and 1981 travel speed was not collected. However, the data element is currently in the database for these two years with all data as missing. With this data element there has always been a high number of unknown cases. Since the data were considered somewhat "uncollectible," a decision was made not to collect the data for these two years. However, although the data were often unavailable, it was considered too important not to try to collect it.

Since 2005, data have been collected for parked vehicles and vehicles not in-transport. The values 00 and 000 only apply to motor vehicles in-transport, for example, a vehicle that is in-transport, but stopped at a stop light.

SAS Name: TRAV_SP

Attribute Codes

1975-2008	*2009-Later*	
00	000	Stopped Motor Vehicle in Transport
01-96	001-151	Reported Speed Up to 151 mph
97	--	Speed Greater than 96 mph
--	997	Speed Greater than 151 mph
98	998	Not Reported
99	999	Unknown

V25 Underride/Override

Definition: This data element identifies this vehicle's involvement in an underride or override during the crash.

Additional Information: Note the striking vehicle, not the vehicle struck, determines the underride/override condition. From 1975 to 1993 both the initial and principal impacts were counted. In the event and only in the event, that the initial or principal impact point was an underride/override were the data element IMPACT1 or IMPACT2 flagged/counted as such. However, all other underrides/overrides were not counted, nor should they have been counted. Impacts were counted, not underrides. Therefore, the data element UNDERIDE was added to the FARS in 1994.

The data element UNDERIDE is dependent on the data contained in PAR. The NASS CDS is based on the efforts of professional crash investigators performing detailed analysis of crashes. An analysis of the 1994-1996 FARS and NASS CDS data systems and the 1997 Trucks in Fatal Accident file revealed that underrides and overrides are generally not identified on the PARs.

This data element also appears in the Parkwork data file as PUNDERIDE.

SAS Name: UNDERIDE

Attribute Codes

1994-Later

0 No Underride or Override *(1994-2011)*
0 No Underride or Override Noted *(2012-Later)*

WITH MOTOR VEHICLE IN TRANSPORT

1 Underride *(Compartment Intrusion)*
2 Underride *(No Compartment Intrusion)*
3 Underride *(Compartment Intrusion Unknown)*

WITH MOTOR VEHICLE NOT IN TRANSPORT

4 Underride *(Compartment Intrusion)*
5 Underride *(No Compartment Intrusion)*
6 Underride *(Compartment Intrusion Unknown)*

7 Override, Motor Vehicle in Transport
8 Override, Motor Vehicle Not in Transport
9 Unknown if Underride or Override

V26 Rollover

Definition: This data element identifies this vehicle's involvement in a rollover or overturn during the crash. Rollover is defined as any vehicle rotation of 90 degrees or more about any true longitudinal or lateral axis. Rollover can occur at any time during the crash.

Additional Information: Data are not available from 1975 to 1977.

This data element also appears in the Person data file.

SAS Name: ROLLOVER

Attribute Codes

1978-2008	*2009-Later*	
0	0	No Rollover
1	--	First Event
--	1	Rollover, Tripped by Object/Vehicle
2	--	Subsequent Event
--	2	Rollover, Untripped
--	9	Rollover, Unknown Type

V27 Location of Rollover

Definition: This data element identifies the location of the trip point or start of this vehicle's roll.

Additional Information:

SAS Name: ROLINLOC

Attribute Codes

2009-2010	*2011-Later*	
0	0	No Rollover
1	1	On Roadway
2	2	On Shoulder
3	3	On Median/Separator
4	4	In Gore
5	5	On Roadside
6	6	Outside of Trafficway
--	7	In Parking Lane/Zone
9	9	Unknown

V28A Initial Contact Point

Definition: This data element identifies the area on this vehicle that produced the first instance of injury to non-motorists or occupants of this vehicle, or that resulted in the first instance of damage to other property or to this vehicle.

Additional Information: Prior to 2010 this data element was called "Initial Point of Impact." In 2010 and 2011 it was called "Initial Damaged Area." Since 2012 it is called "Initial Contact Point." Starting in 2010, this data element is derived from the crash events for the vehicle. It is the first recorded "Area of Impact (This Vehicle)" value for this vehicle.

The attributes Underride and Override were discontinued in 1993 and "Underride/Override" became its own data element in 1994. Prior to 1994, the striking vehicle, not the vehicle struck, determined the underride/override condition. After the crash, in the case of an override or underride one vehicle is over the other. If the striking vehicle is over the other, then the crash is an override. If the striking vehicle is under the other, the crash is an underride. See the information under "Underride/Override" about using this data element.

This data element also appears in the Person data file and in the Parkwork data file as PIMPACT1.

SAS Name: IMPACT1

Attribute Codes

1975-1993	*1994-2009*	*2010-2011*	*2012*	*2013-Later*	
0	0	0	0	0	Non-Collision
1-12	1-12	1-12	1-12	1-12	Clock points
13	13	13	13	13	Top
14	14	14	14	14	Undercarriage
15	--	--	--	--	Underride *(1980-1993)*
16	--	--	--	--	Override *(1982-1993)*
--	18	--	--	--	This Vehicle Set Something in Motion Causing Injury or Damage *(Not a Clock Point, 2004-2009)*
--	--	18	--	--	Set-in-Motion *(Not a Clock Point)*
--	--	--	18	--	Set-in-Motion *(Not a Clock Value)*
--	--	--	--	18	Cargo/Vehicle Parts Set-In-Motion
--	--	--	--	19	Other Objects Set-In-Motion
--	--	61	61	61	Left
--	--	62	--	--	Left-Front Half
--	--	--	62	62	Left-Front Side
--	--	63	--	--	Left-Back Half
--	--	--	63	63	Left-Back Side
--	--	81	81	81	Right
--	--	82	--	--	Right-Front Half
--	--	--	82	82	Right-Front Side
--	--	83	--	--	Right-Back Half
--	--	--	83	83	Right-Back Side
--	--	98	98	98	Not Reported
99	99	99	99	99	Unknown

V29 Extent of Damage

Definition: This data element records the amount of damage sustained by this vehicle as indicated in the case materials based on an operational damage scale.

Additional Information: The data element name was "Extent of Deformation" from 1975 to 2008. The data element name was changed to "Extent of Damage" in 2009.

The data on 8 (Not Reportable) collected in 1976 are no longer contained in the data file. The data for that year are not consistent with the documentation of the time.

This data element also appears in the Parkwork data set as PVEH_SEV.

SAS Name: DEFORMED

Attribute Codes

1975-2008

0	None
2	Other *(Minor)*
4	Functional *(Moderate)*
6	Disabling *(Severe)*
9	Unknown

2009	***2010-Later***	
0	0	No Damage
2	2	Minor Damage
4	4	Functional Damage
6	6	Disabling Damage
--	8	Not Reported
9	9	Unknown

V30 Vehicle Removal

Definition: This data element describes the mode by which this vehicle left the scene of the crash.

Additional Information: The data element name was "Manner of Leaving Scene" from 1975 to 2008. The data element name was changed to "Vehicle Removal" in 2009.

The early years are not consistent with the documentation of the time.

This data element also appears in the Parkwork data set as PTOWED.

SAS Name: **TOWAWAY** ***1975-2008***
TOWED ***2009-Later***

Attribute Codes

1975	*1976-2008*	*2009*	*2010-2012*	*2013-Later*	
--	1	1	1	--	Driven Away
2	2	--	--	--	Towed Away
--	--	2	2	2	Towed Due to Disabling Damage
--	3	--	--	--	Abandoned/Left Scene
--	--	3	3	3	Towed Not Due to Disabling Damage
4	--	--	--	--	Not Towed Away
--	--	4	4	--	Abandoned/Left at Scene
--	--	--	--	5	Not Towed
--	--	--	8	8	Not Reported
9	9	9	9	9	Unknown

V32 Most Harmful Event

Definition: This data element describes the event that resulted in the most severe injury or, if no injury, the greatest property damage involving this vehicle.

Additional Information: "First Harmful Event" (HARM_EV) applies to the crash. "Most Harmful Event" (M_HARM) applies to the vehicle. Harmful events are judgment calls of the FARS analysts based on the data within the PAR.

From 2004 to 2009, the data elements "First Harmful Event," "Most Harmful Event," and the "Sequence of Events" have the same attributes. The harmful event attributes were modified to be consistent with the sequence of events data elements. Starting in 2009, these data elements still have the same attributes except non-harmful event attributes were added to the "Sequence of Events" data element.

This data element also appears in the Parkwork data file as PM_HARM.

SAS Name: M_HARM

Attribute Codes

1979-1981

01	Overturn
02	Fire/Explosion
03	Immersion
04	Gas Inhalation
05	Fell from Vehicle
06	Injured in Vehicle
07	Other Non-Collision
08	Pedestrian
09	Pedalcycle
10	Railway Train
11	Animal
12	Motor Vehicle in Transport
13	Motor Vehicle in Transport in Other Roadway
14	Parked Motor Vehicle
15	Other Type Non-Motorist
16	Other Object
18	Building
19	Culvert
20	Curb or Wall
21	Divider
22	Embankment
23	Fence
24	Guard Rail
25	Light Support
26	Sign Post
27	Tree/Shrubbery
28	Utility Pole
29	Other Pole/Support
30	Impact Attenuator

V32 Most Harmful Event *(continued)*

Attribute Codes

1979-1981

31	Other Fixed Object
32	Bridge or Overpass *(Passing Under)*
33	Bridge or Overpass *(Passing Over)*
99	Unknown

1982-2003	***2004-2009***	***2010-2012***	***2013-Later***	
01	01	01	01	Rollover/Overturn
02	02	02	02	Fire/Explosion
03	03	03	03	Immersion *(or Partial Immersion, Since 2012)*
04	04	04	04	Gas Inhalation
05	05	05	05	Fell/Jumped from Vehicle
06	06	--	--	Injured in Vehicle
--	--	06	06	Injured in Vehicle *(Non-Collision)*
07	07	07	07	Other Non-Collision
08	08	08	08	Pedestrian
09	09	--	--	Pedalcycle
--	--	09	09	Pedalcyclist
10	10	--	--	Railway Train
--	--	10	10	Railway Vehicle
11	11	--	--	Animal
--	--	11	11	Live Animal
12	12	--	--	Motor Vehicle in Transport on Same Roadway
--	--	12	12	Motor Vehicle in Transport
13	13	--	--	Motor Vehicle in Transport on Other Roadway
14	14	14	14	Parked Motor Vehicle
15	--	--	--	Other Type Non-Motorist
--	15	15	15	Non-Motorist on Personal Conveyance
16	16	16	16	Thrown or Falling Object
17	17	17	17	Boulder
18	18	18	18	Other Object *(Not Fixed)*
19	19	19	19	Building
20	20	20	20	Impact Attenuator/Crash Cushion
21	21	--	--	Bridge Pier or Abutment
--	--	21	21	Bridge Pier or Support
22	22	--	--	Bridge Parapet End
23	23	--	--	Bridge Rail
--	--	23	23	Bridge Rail *(Includes Parapet)*
24	24	24	24	Guardrail Face
25	25	25	25	Concrete Traffic Barrier

V32 Most Harmful Event *(continued)*

Attribute Codes

1982-2003	*2004-2009*	*2010-2012*	*2013-Later*	
26	26	26	26	Other Traffic Barrier
27	27	--	--	Highway/Traffic Sign Post
28	28	--	--	Overhead Sign Support/Sign
29	29	--	--	Luminary/Light Support
30	30	--	--	Utility Pole
--	--	30	30	Utility Pole/Light Support
31	31	31	31	Other Post, Other Pole, or Other Support
32	32	32	32	Culvert
33	33	33	33	Curb
34	34	34	34	Ditch
35	35	--	--	Embankment – Earth
--	--	35	35	Embankment
36	36	--	--	Embankment – Rock, Stone, or Concrete
37	37	--	--	Embankment – Material Type Unknown
38	38	38	38	Fence
39	39	39	39	Wall
40	40	40	40	Fire Hydrant
41	41	41	41	Shrubbery
42	42	42	42	Tree *(Standing Only)*
43	43	43	43	Other Fixed Object
44	--	--	--	Pavement Surface Irregularity *(1993 Only)*
--	44	--	--	Pavement Surface Irregularity
--	--	44	44	Pavement Surface Irregularity *(Ruts, Potholes, Grates, etc.)*
45	--	--	--	Transport Device Used as Equipment *(1993-2003)*
45	45	--	--	Working Construction, Maintenance or Utility Vehicles
--	--	45	45	Working Motor Vehicle
46	46	46	46	Traffic Signal Support
47	47	--	--	Vehicle Occupant Struck or Run Over by Own Vehicle *(Since 1997)*
48	48	--	--	Collision With Snow Bank *(Since 1997)*
--	--	48	48	Snow Bank
49	49	49	49	Ridden Animal or Animal-Drawn Conveyance *(Since 1998)*
50	50	50	50	Bridge Overhead Structure
--	51	--	--	Jackknife
--	--	51	51	Jackknife *(Harmful to This Vehicle)*
--	52	52	52	Guardrail End
--	53	53	53	Mail Box
--	54	--	--	Motor Vehicle Struck by Falling/Shifting Cargo or Anything Set in Motion by Another Motor Vehicle in Transport
--	--	54	54	Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport

V32 Most Harmful Event *(continued)*

Attribute Codes

1982-2003	*2004-2009*	*2010-2012*	*2013-Later*	
--	55	--	--	Other Not in-Transport Motor Vehicle *(2005-2007)*
--	55	55	55	Motor Vehicle in Motion Outside the Trafficway *(Since 2008)*
--	57	57	57	Cable Barrier *(Since 2008)*
--	--	58	58	Ground
--	--	59	59	Traffic Sign Support
--	--	72	72	Cargo/Equipment Loss or Shift *(Harmful to This Vehicle)*
--	--	--	73	Object Fell From Motor Vehicle In-Transport
--	--	98	--	Not Reported *(2010 Only)*
99	99	99	99	Unknown

V33 Related Factors- Vehicle Level

Definition: This data element records factors related to this vehicle expressed by the investigating officer.

Additional Information: There are also crash-level related factors in the Accident data file (CF1, CF2, and CF3), driver-level related factors in the Vehicle data file (DR_SF1, DR_SF2, DR_SF3 and DR_SF4) and person-level related factors in the Person data file (P_SF1, P_SF2, and P_SF3).

The FARS analyst may have used either of the two data elements to code a related factor. One must test both data elements to ensure that the selected related factor is included.

The set of *Pre-existing Vehicle Defects* that had been collected under "Related Factors- Vehicle Level" is now captured in the precrash level data element "Contributing Circumstances, Motor Vehicle" (Factor.MFACTOR).

These data elements also appear in the Parkwork data file as PVEH_CF1 and PVEH_CF2 in 2009 and prior and as PVEH_SC1 and PVEH_SC2 in 2010 and later.

SAS Name: **VEH_CF1**, **VEH_CF2** ***1975-2009***
VEH_SC1, **VEH_SC2** ***2010-Later***

Attribute Codes

1975-1981	*1982-2009*	*2010-2013*	*2014-Later*	
0	0	0	0	None
1	--	--	--	Tires and Wheels
--	1	--	--	Tires *(Does Not Include Wheels, See Value 16)*
2	2	--	--	Brake System
3	3	--	--	Steering System- Tie Rod, Kingpin, Ball Joint, etc.
4	4	--	--	Suspension- Springs, Shock Absorbers, MacPherson struts, Axle Bearing, Control Arms, etc.
5	5	--	--	Power Train *(Power Train/Engine, 2001-2009)*- Universal Joint, Drive Shaft, Transmission, etc.
6	6	--	--	Exhaust System
7	7	--	--	Headlights
8	8	--	--	Signal Lights
9	9	--	--	Other Lights
10	10	--	--	Horn
11	11	--	--	Mirrors
12	12	--	--	Wipers
13	13	--	--	Driver Seating and Control
14	14	--	--	Body, Doors, Hood, Other
15	15	--	--	Trailer Hitch
--	16	--	--	Wheels
--	17	--	--	Air Bags *(1995-2009)*
--	18	--	--	Other Vehicle Defects
--	19	--	--	Safety Belts *(2002-2009)*

V33 Related Factors- Vehicle Level *(continued)*

Attribute Codes

1975-1981	*1982-2009*	*2010-2013*	*2014-Later*	
--	--	30	--	3-Wheeled Motorcycle Conversion *(Since 2012)*
--	--	--	30	Multi-Wheeled Motorcycle Conversion *(Since 2012)*
--	31	--	--	Hit-and-Run Vehicle *(1982-2008)*
--	32	32	32	Vehicle Registration for Handicapped
--	33	33	33	Vehicle Being Pushed by Non-Motorist
--	34	--	--	Vehicle Impact Point- the Result of Something Set in Motion *(1998-2003)*
--	35	--	--	Reconstructed Vehicle *(1998-2007)*
--	35	35	35	Reconstructed/Altered Vehicle *(Since 2008)*
--	36	36	--	Electric/Alternative Fuel Vehicle *(Since 1999)*
--	37	37	37	Transporting Children to/from Head Start/Day Care *(Since 2000)*
--	38	--	--	Vehicle Went Airborne During Crash *(2001-2003)*
--	39	39	39	Highway Construction, Maintenance or Utility Vehicle, In Transport *(Inside or Outside Work Zone) (Since 2002)*
--	40	40	40	Highway Incident Response Vehicle *(Since 2002)*
--	41	41	41	Police Fire or EMS Vehicle Working at the Scene of an Emergency or Performing Other Traffic Control Activities *(Since 2004)*
--	42	42	42	Other Working Vehicle *(Not Construction, Maintenance, Utility, Police, Fire, or EMS Vehicle, Since 2004)*
--	43	--	--	Hazardous Materials/Cargo Released From This Vehicle *(2005-2006)*
--	44	44	44	Adaptive Equipment *(Since 2007)*
99	99	99	99	Unknown

V34 Fire Occurrence

Definition: This data element identifies whether a fire in any way related to the crash occurred in this vehicle.

Additional Information: From 1975 to 1979 if an explosion occurred in the vehicle, with or without a fire, this data element would also be set to 1.

This data element also appears in the Person data file and in the Parkwork data file as PFIRE.

SAS Name: FIRE_EXP

Attribute Codes

1975-2007	*2008*	*2009-Later*	
0	0	--	No Fire
--	--	0	No or Not Reported
1	1	--	Fire Occurred in This Vehicle during Crash
--	--	1	Yes
--	2	--	Fire Occurred in This Vehicle and Initiated Fire/Explosion in Another Vehicle

V100 Make Model Combined

Definition: This derived data element represents the 5-digit combination of two data elements, the 2-digit "Vehicle Make" code (MAKE) followed by the 3-digit "Vehicle Model" code (MODEL).

Additional Information: This data element also appears in the Person data file and in the Parkwork data file as PMAK_MOD.

SAS Name: MAK_MOD

Attribute Codes

1975-Later

See the current FARS/NASS GES Coding and Validation Manual for vehicle make and model codes.

V101 VIN Character 1

Definition: This data element represents the first character in the VIN string for this vehicle.

Additional Information: This data element also appears in the Parkwork data set as PVIN_1.

SAS Name: VIN_1

Attribute Codes

1975-Later

x First Character in the VIN String

V102 VIN Character 2

Definition: This data element represents the second character in the VIN string for this vehicle.

Additional Information: This data element also appears in the Parkwork data set as PVIN_2.

SAS Name: VIN_2

Attribute Codes

1975-Later

x Second Character in the VIN String

V103 VIN Character 3

Definition: This data element represents the third character in the VIN string for this vehicle.

Additional Information: This data element also appears in the Parkwork data set as PVIN_3.

SAS Name: VIN_3

Attribute Codes

1975-Later

x Third Character in the VIN String

V104 VIN Character 4

Definition: This data element represents the fourth character in the VIN string for this vehicle.

Additional Information: This data element also appears in the Parkwork data set as PVIN_4.

SAS Name: VIN_4

Attribute Codes

1975-Later

x Fourth Character in the VIN String

V105 VIN Character 5

Definition: This data element represents the fifth character in the VIN string for this vehicle.

Additional Information: This data element also appears in the Parkwork data set as PVIN_5.

SAS Name: VIN_5

Attribute Codes

1975-Later

x Fifth Character in the VIN String

V106 VIN Character 6

Definition: This data element represents the sixth character in the VIN string for this vehicle.

Additional Information: This data element also appears in the Parkwork data set as PVIN_6.

SAS Name: VIN_6

Attribute Codes

1975-Later

x Sixth Character in the VIN String

V107 VIN Character 7

Definition: This data element represents the seventh character in the VIN string for this vehicle.

Additional Information: This data element also appears in the Parkwork data set as PVIN_7.

SAS Name: VIN_7

Attribute Codes

1975-Later

x Seventh Character in the VIN String

V108 VIN Character 8

Definition: This data element represents the eighth character in the VIN string for this vehicle.

Additional Information: This data element also appears in the Parkwork data set as PVIN_8.

SAS Name: VIN_8

Attribute Codes

1975-Later

x Eighth Character in the VIN String

V109 VIN Character 9

Definition: This data element represents the ninth character in the VIN string for this vehicle.

Additional Information: This data element also appears in the Parkwork data set as PVIN_9.

SAS Name: VIN_9

Attribute Codes

1975-Later

x Ninth Character in the VIN String

V110 VIN Character 10

Definition: This data element represents the tenth character in the VIN string for this vehicle.

Additional Information: This data element also appears in the Parkwork data set as PVIN_10.

SAS Name: VIN_10

Attribute Codes

1975-Later

x Tenth Character in the VIN String

V111 VIN Character 11

Definition: This data element represents the eleventh character in the VIN string for this vehicle.

Additional Information: This data element also appears in the Parkwork data set as PVIN_11.

SAS Name: VIN_11

Attribute Codes

1994-Later

x Eleventh Character in the VIN String

V112 VIN Character 12

Definition: This data element represents the twelfth character in the VIN string for this vehicle.

Additional Information: This data element also appears in the Parkwork data set as PVIN_12.

SAS Name: VIN_12

Attribute Codes

1994-Later

x Twelfth Character in the VIN String

V150 Fatalities in Vehicle

Definition: This data element records the number of fatalities that occurred in this vehicle.

Additional Information: The data element is derived by counting all persons with "Injury Severity" of 4 in the vehicle. The data element "Fatalities" in the Accident data file provides the number of deaths for the entire crash.

This is a derived data element and is not coded on the form directly. In 1976, this value is always set to 0.

This data element also appears in the Parkwork data file as PDEATHS.

SAS Name: DEATHS

Attribute Codes

1975-Later

01-99	Number of Fatalities that Occurred in the Vehicle.

V151 Driver Drinking

Definition: This data element records whether the driver was drinking.

Additional Information: This data element is derived from data elements in the Vehicle and Person data files. Data are analyzed and if there is "sufficient information" to conclude that a driver was drinking, i.e., positive BAC data or police-reported alcohol involvement, then a driver is classified as drinking**.**

A driver is classified as drinking (alcohol-involved) if the driver has (1) police-reported alcohol involvement, or (2) a positive alcohol test result.

A driver who is charged with an alcohol violation does not by itself make the driver a "drinking driver" by this definition.

Note that alcohol data is often missing. For that reason this data element may under-count the actual number of drinking drivers.

SAS Name: DR_DRINK

Attribute Codes

1975-1981	*1982-Later*	
0	0	No Drinking
1	1	Drinking
9	--	Unknown

D4 Driver Presence

Definition: This data element identifies whether a driver was present in this vehicle at the onset of the unstabilized situation.

Additional Information:

SAS Name: DR_PRES

Attribute Codes

1975-1977	*1978-2008*	*2009-Later*	
--	--	0	No Driver Present/Not Applicable
1	1	--	Driver Operated Vehicle
--	--	1	Yes
2	--	--	No Driver
--	2	--	Driverless *(No Driver)*
--	3	--	Driver Left Scene
--	4	--	Motor Vehicle not In-Transport *(Parked/Stopped Off Roadway/ Working Motor Vehicle/In Motion Outside Trafficway, 2008 Only)*
--	4	--	Motor Vehicle not In-Transport *(Parked/Stopped Off Roadway/Working/ In Motion Outside Trafficway, 2005-2007)*
9	9	9	Unknown

D5 Driver's License State

Definition: This element identifies the state of issue for the license held by this driver.

Additional Information:

SAS Name: L_STATE

Attribute Codes

1975-Later

01 Alabama
02 Alaska
03 American Samoa
04 Arizona
05 Arkansas
06 California
08 Colorado
09 Connecticut
10 Delaware
11 District of Columbia
12 Florida
13 Georgia
14 Guam
15 Hawaii
16 Idaho
17 Illinois
18 Indiana
19 Iowa
20 Kansas
21 Kentucky
22 Louisiana
23 Maine
24 Maryland
25 Massachusetts
26 Michigan
27 Minnesota
28 Mississippi
29 Missouri
30 Montana
31 Nebraska
32 Nevada
33 New Hampshire
34 New Jersey
35 New Mexico
36 New York
37 North Carolina
38 North Dakota
39 Ohio
40 Oklahoma
41 Oregon
42 Pennsylvania
43 Puerto Rico
44 Rhode Island
45 South Carolina
46 South Dakota
47 Tennessee
48 Texas
49 Utah
50 Vermont
51 Virginia
52 Virgin Islands *(Since 2004)*
53 Washington
54 West Virginia
55 Wisconsin
56 Wyoming

00 No Driver Present *(Since 2010)*
93 Indian Nation *(Since 2009)*
94 Military *(1975-2006)*
94 U.S. Government *(Since 2007)*
95 Canada
96 Mexico
97 Other Foreign Country
98 Not reported *(Since 2010)*
99 Unknown

D6 Driver's ZIP Code

Definition: This data element records the zip code of the driver's address as listed in the case material.

Additional Information: Prior to 2011, if no driver was present or the driver presence was unknown, then this data element was left blank. In SAS, these blank values are represented by a single dot or period (.).

SAS Name: **DR_ZIP**

Attribute Codes

1987-2010	*2011-Later*	
00000	00000	Not a Resident of U. S. or Territories
xxxxx	xxxxx	Actual Zip Code, Five Numeric
--	99997	No Driver Present/Unknown if Driver Present
99999	99999	Unknown

D7 Non-CDL License Type/Status

D7A Non-CDL License Type

Definition: This data element identifies the type of license held by this driver at the time of the crash.

Additional Information: Prior to 2011, if no driver was present or the driver presence was unknown, then this data element was left blank. In SAS, these blank values are represented by a single dot or period (.).

SAS Name: L_TYPE

Attribute Codes

2004-2010	*2011-Later*	
0	0	Not Licensed
1	1	Full Driver License
2	2	Intermediate Driver License
--	6	No Driver Present/Unknown if Driver Present
7	7	Learner's Permit
8	8	Temporary License
9	9	Unknown License Type

D7B Non-CDL License Status

Definition: This data element identifies the status of the driver's license at the time of the crash.

Additional Information: For 1975-1981, values 3 and 7 make up the valid license category. For 1982-1986, values 2, 7, and 8 are all valid license categories. For 1987-1992, values 5, 6, 7 and 8 make up the valid license category.

Prior to 2011, if no driver was present or the driver presence was unknown, then this data element was left blank. In SAS, these blank values are represented by a single dot or period (.).

SAS Name: L_STATUS

Attribute Codes

1975-1981

0	None Required
1	No License, License Required
2	Licensed, But Not for This Type Vehicle
3	Valid License for This Type Vehicle
4	Suspended License
5	Revoked License
6	Expired License
7	Learner's Permit
9	Unknown

D7B Non- CDL License Status *(continued)*

Attribute Codes

1982-1986	*1987-1992*	*1993-2003*	*2004-2009*	*2010*	*2011-Later*	
0	--	--	--	--	--	None Required
--	0	0	0	0	0	Not Licensed
1	--	--	--	--	--	None
2	--	--	--	--	--	Valid
3	1	1	1	1	1	Suspended
4	2	2	2	2	2	Revoked
5	3	3	3	3	3	Expired
6	4	4	4	4	4	Cancelled or Denied
--	5	--	--	--	--	Single-Class License
--	6	--	--	--	--	Multiple-Class License
--	--	6	6	6	6	Valid License
7	7	--	--	--	--	Learner's Permit
--	--	7	--	--	--	Learner's Permit/Restricted
--	--	--	--	--	7	No Driver Present/Unknown if Driver Present
8	8	8	--	--	--	Temporary
9	9	9	--	--	--	Unknown
--	--	--	9	9	9	Unknown License Status

More Information on Driver License Status/Type

D8 Commercial Motor Vehicle License Status

Definition: This data element indicates the status of the driver's Commercial Driver's License (CDL) if applicable.

Additional Information: Prior to 2011, if no driver was present or the driver presence was unknown, then this data element was left blank. In SAS, these blank values are represented by a single dot or period (.).

SAS Name: CDL_STAT

Attribute Codes

1991-1992

0 No Commercial Driver's License *(CDL Not Required)*
1 No CDL *(CDL Required)*
2 No CDL *(Unknown if CDL Required)*
3 CDL *(CDL Not Required)*
4 CDL *(CDL REQUIRED)*
5 CDL *(Unknown if CDL Required)*
6 Unknown CDL *(CDL Not Required)*
7 Unknown CDL *(CDL Required)*
9 Unknown CDL *(Unknown if CDL Required)*

1993-2009	***2010***	***2011***	***2012-Later***	
0	0	0	0	No Commercial Driver's License *(CDL)*
1	1	1	1	Suspended
2	2	2	2	Revoked
3	3	3	3	Expired
4	4	4	4	Cancelled or Denied
5	5	5	5	Disqualified
6	6	6	6	Valid
7	7	7	7	Learner's Permit
8	8	8	8	Other – Not Valid
9	--	--	--	Unknown CDL
--	--	97	97	No Driver Present/Unknown if Driver Present
--	98	98	--	Not Reported
--	99	99	99	Unknown License Status

D9 Compliance with CDL Endorsements

Definition: This data element identifies whether the vehicle driven at the time of the crash required endorsement(s) on a Commercial Driver's License (CDL) and whether this driver was complying with the CDL endorsements.

Additional Information: Data was not collected prior to 1991.

Prior to 2011, if no driver was present or the driver presence was unknown, then this data element was left blank. In SAS, these blank values are represented by a single dot or period (.).

SAS Name: L_ENDORS

Attribute Codes

1991-2009	*2010*	*2011*	*2012-Later*	
0	0	0	0	No Endorsements Required For This Vehicle
1	1	1	1	Endorsement(s) Required, Complied With
2	2	2	2	Endorsement(s) Required, Not Complied With
3	3	3	3	Endorsement(s) Required, Compliance Unknown
--	--	7	7	No Driver Present/Unknown if Driver Present
--	8	8	--	Not Reported
9	9	9	9	Unknown, if Required

D10 License Compliance with Class of Vehicle

Definition: This data element identifies the type of license possessed or not possessed by this driver for the class of vehicle being driven at the time of the crash.

Additional Information: Data not available before 1982.

Since 2004, this data element addresses license compliance with class of vehicle.

Prior to 2011, if no driver was present or the driver presence was unknown, then this data element was left blank. In SAS, these blank values are represented by a single dot or period (.).

SAS Name: **L_CL_VEH** ***1982-1986***
L_COMPL ***1987-Later***

1982-1986

0	No License Required
1	No License, License Required
2	Valid License for This Class Vehicle Only
3	One Valid License, but Not for This Class Vehicle
4	Multiple Class Licenses, Valid License for This Class Vehicle
5	Multiple Class Licenses, Not Valid License for This Class Vehicle
9	Unknown

1987-1992	***1993-2009***	***2010***	***2011***	***2012-Later***	
0	0	0	0	0	Not Licensed
1	1	1	1	1	No License Required for This Class Vehicle
2	2	2	2	2	No Valid License for This Class Vehicle
3	3	3	3	3	Valid License for This Class Vehicle
--	--	--	6	6	No Driver Present/Unknown if Driver Present
--	--	7	7	--	Not Reported
--	8	8	8	8	Unknown if CDL and/or CDL Endorsement Required for This Vehicle
9	9	9	9	9	Unknown

More Information on Driver License Type Compliance

D11 Compliance with License Restrictions

Definition: This data element indicates whether this driver was compliant with restrictions on their license.

Additional Information: Prior to 2011, if no driver was present or the driver presence was unknown, then this data element was left blank. In SAS, these blank values are represented by a single dot or period (.).

SAS Name: L_RESTRI

Attribute Codes

1975-2009	*2010*	*2011*	*2012-Later*	
0	0	0	0	No Restrictions or Not Applicable
1	1	1	1	Restrictions Complied With
2	2	2	2	Restrictions Not Complied With
3	3	3	3	Restrictions, Compliance Unknown
--	--	7	7	No Driver Present/Unknown if Driver Present
--	8	8	--	Not Reported
9	9	9	9	Unknown

D12 Driver Height

Definition: This data element identifies this driver's height (in inches).

Additional Information: This information was coded in 2 sub fields which are in Feet or in Inches. If both the Driver Height in Feet and Driver Height in Inches are known then we do the conversion using (Feet)*12 + inches; If Feet is Unknown or if Inches are 98 (Other) or 99 (Unknown) then DR_HGT=999 (Unknown). Minimum height 2 feet = 24 inches, Maximum height 8 feet 11 inches = 107 inches.

In 2009, if feet and/or inches are unknown (9,99) or blank then the Driver Height is left blank. However in 2010, if feet and/or inches are unknown (9,99) then the Driver Height is computed as 999 (Unknown). The Driver Presence data element is not taken into account. In 2011, if feet and/or inches are unknown (9,99) and Driver Presence is 1, then the Driver Height is computed as 999 (Unknown) otherwise Driver Height is computed as 998 (No Driver Present/Unknown if Driver Present).

SAS Name: DR_HGT

Attribute Codes

1998-2010	*2011-Later*	
24-107	24-107	Actual Height in Inches
--	998	No Driver Present/Unknown if Driver Present
999	999	Unknown

D13 Driver Weight

Definition: This data element identifies this driver's weight (in pounds).

Additional Information: Prior to 2011, if no driver was present or the driver presence was unknown, then this data element was left blank. In SAS, these blank values are represented by a single dot or period (.).

SAS Name: DR_WGT

Attribute Codes

1998-2010	*2011-Later*	
40-700	40-700	Actual Weight in Pounds
--	997	No Driver Present/Unknown if Driver Present
998	998	Other
999	999	Unknown

D14 Previous Recorded Crashes

Definition: This data element records any previous crashes for this driver that occurred within three years of the crash date.

Additional Information: Prior to 2011, if no driver was present or the driver presence was unknown, then this data element was left blank. In SAS, these blank values are represented by a single dot or period (.).

SAS Name: **PREV_ACC**

Attribute Codes

1975-1993	*1994-2010*	*2011-Later*	
00	00	00	None
01-97	01-97	01-97	Actual Value
98	--	--	CDL Disqualified
--	98	98	Not Reported on Driving Record
99	99	99	Unknown
--	--	998	No Driver Present/Unknown if Driver Present

D15 Previous Recorded Suspensions and Revocations

Definition: This data element records any previous license suspensions or revocations for this driver that occurred within three years of the crash date.

Additional Information: If a driver has been disqualified for a CDL this event is recorded in Previous Recorded Suspensions and Revocations.

Prior to 2011, if no driver was present or the driver presence was unknown, then this data element was left blank. In SAS, these blank values are represented by a single dot or period (.).

SAS Name: **PREV_SUS**

Attribute Codes

1975-1993	*1994-2010*	*2011-Later*	
00	00	00	None
01-97	01-97	1-97	Actual Value
98	--	--	CDL Disqualified
99	99	99	Unknown
--	--	998	No Driver Present/Unknown if Driver Present

D16 Previous DWI Convictions

Definition: This data element records any previous DWI convictions for this driver that occurred within three years of the crash date.

Additional Information: Prior to 2011, if no driver was present or the driver presence was unknown, then this data element was left blank. In SAS, these blank values are represented by a single dot or period (.).

SAS Name: **PREV_DWI**

Attribute Codes

1975-1993	*1994-2010*	*2011-Later*	
00	00	00	None
01-97	01-97	01-97	Actual Value
98	--	--	CDL Disqualified
99	99	99	Unknown
--	--	998	No Driver Present/Unknown if Driver Present

D17 Previous Speeding Convictions

Definition: This data element records any previous speeding convictions for this driver that occurred within three years of the crash date.

Additional Information: Speeding violations count going too slow, as well as going too fast.

Prior to 2011, if no driver was present or the driver presence was unknown, then this data element was left blank. In SAS, these blank values are represented by a single dot or period (.).

SAS Name: **PREV_SPD**

Attribute Codes

1975-1993	*1994-2010*	*2011-Later*	
00	00	00	None
01-97	01-97	01-97	Actual Value
98	--	--	CDL Disqualified
99	99	99	Unknown
--	--	998	No Driver Present/Unknown if Driver Present

D18 Previous Other Harmful Moving Violation Convictions

Definition: This data element records any other previous moving violations or convictions for this driver that occurred within three years of the crash date.

Additional Information: Prior to 2011, if no driver was present or the driver presence was unknown, then this data element was left blank. In SAS, these blank values are represented by a single dot or period (.).

SAS Name: **PREV_OTH**

Attribute Codes

1975-1993	*1994-2010*	*2011-Later*	
00	00	00	None
01-97	01-97	01-97	Actual Value
98	--	--	CDL Disqualified
99	99	99	Unknown
--	--	998	No Driver Present/Unknown if Driver Present

D19 Date of First Crash, Suspension or Conviction

D19A Month of First Crash, Suspension or Conviction

Definition: This data element records the month of the first crash, suspension, or conviction for this driver that occurred within three years of the crash date.

Additional Information: Prior to 2011, if no driver was present or the driver presence was unknown, then this data element was left blank. In SAS, these blank values are represented by a single dot or period (.).

SAS Name: FIRST_MO

Attribute Codes

1975-2010	*2011-Later*	
00	00	No Record
01	01	January
02	02	February
03	03	March
04	04	April
05	05	May
06	06	June
07	07	July
08	08	August
09	09	September
10	10	October
11	11	November
12	12	December
--	98	No Driver Present/Unknown if Driver Present
99	99	Unknown

D19B Year of First Crash, Suspension or Conviction

Definition: This data element records the year of the first crash, suspension, or conviction for this driver that occurred within three years of the crash date.

Additional Information: Prior to 2011, if no driver was present or the driver presence was unknown, then this data element was left blank. In SAS, these blank values are represented by a single dot or period (.).

SAS Name: FIRST_YR

Attribute Codes

1975-1997	*1998-2010*	*2011-Later*	
00	0000	0000	No Record
xx	xxxx	xxxx	Actual Year
--	--	9998	No Driver Present/Unknown if Driver Present
99	9999	9999	Unknown

D20 Date of Last Crash, Suspension or Conviction

D20A Month of Last Crash, Suspension or Conviction

Definition: This data element records the month of the last crash, suspension, or conviction for this driver that occurred within three years of the crash date.

Additional Information: Prior to 2011, if no driver was present or the driver presence was unknown, then this data element was left blank. In SAS, these blank values are represented by a single dot or period (.).

SAS Name: LAST_MO

Attribute Codes

1975-2010	*2011-Later*	
00	00	No Record
01	01	January
02	02	February
03	03	March
04	04	April
05	05	May
06	06	June
07	07	July
08	08	August
09	09	September
10	10	October
11	11	November
12	12	December
--	98	No Driver Present/Unknown if Driver Present
99	99	Unknown

D20B Year of Last Crash, Suspension or Conviction

Definition: This data element records the year of the last crash, suspension, or conviction for this driver that occurred within three years of the crash date.

Additional Information: Prior to 2011, if no driver was present or the driver presence was unknown, then this data element was left blank. In SAS, these blank values are represented by a single dot or period (.).

SAS Name: LAST_YR

Attribute Codes

1975-1997	*1998-2010*	*2011-Later*	
00	0000	0000	No Record
xx	xxxx	xxxx	Actual Year
--	--	9998	No Driver Present/Unknown if Driver Present
99	9999	9999	Unknown

D22 Speeding Related

Definition: This data element records whether the driver's speed was related to the crash as indicated by law enforcement.

Additional Information: Prior to 2011, if no driver was present or the driver presence was unknown, then this data element was left blank. In SAS, these blank values are represented by a single dot or period (.). Prior to 2013, this data element was called "Speed Related."

SAS Name: SPEEDREL

Attribute Codes

2009-2010	*2011-2012*	*2013-Later*	
0	0	0	No
1	1	--	Yes
--	--	2	Yes, Racing
--	--	3	Yes, Exceeded Speed Limit
--	--	4	Yes, Too Fast for Conditions
--	--	5	Yes, Specifics Unknown
--	8	8	No Driver Present/Unknown if Driver Present
9	9	9	Unknown

More Information on Speeding

D24 Related Factors- Driver Level

Definition: This data element records factors related to this driver expressed by the investigating officer.

Additional Information: There are also crash-level related factors in the Accident data file (CF1, CF2, and CF3), vehicle-level related factors in the Vehicle data file (VEH_SC1 and VEH_SC2), and person-level related factors in the Person data file (P_SF1, P_SF2, and P_SF3).

The person-related factors P_SF1, P_SF2, and P_SF3 are all set to 0 for drivers.

The FARS Analyst may have used any of the three data elements (1975-1996) or four data elements (1997-later) to code a driver-related factor. One must test all of these data elements to ensure that the selected related factor is included.

Early data files are not consistent with the documentation of the time. The following interpretation is suggested for current/future analysis.

A police pursuit is an event that is initiated when a law enforcement officer, operating an authorized emergency vehicle, gives notice to stop (either through the use of visual or audible emergency signals or a combination of emergency devices) to a motorist who the officer is attempting to apprehend and that motorist fails to comply with the signal by either maintaining speed, increasing speed, or taking other evasive action to elude the officer's continued attempts to stop the motorist. This is recorded if any "Related Factor – Driver Level" is coded as 37.

From 1975 to 1981, see "Related Factors- Crash Level" for attributes under *Swerving Due To* and *Vision Obscured By*.

Some information that had been collected under "Related Factors- Driver Level" is now captured in "Condition (Impairment) at Time of Crash- Driver or in two Non-Motor Vehicle Occupant data elements; "Non-Motorist Action/Circumstances Prior to Crash" and "Non-Motorist Action/Circumstances at Time of Crash."

SAS Name:	**DR_CF1, DR_CF2, DR_CF3**	***1975-1996***
	DR_CF1, DR_CF2, DR_CF3, DR_CF4	***1997-2009***
	DR_SF1, DR_SF2, DR_SF3, DR_SF4	***2010-Later***

Attribute Codes

1975-1981

0 None

PHYSICAL/MENTAL CONDITION

1 Drowsy, Sleepy, Asleep, Fatigued
2 Ill, Blackout
3 Depression
4 Reaction to Drugs- Medication
5 Other Drugs *(Marijuana, Cocaine, etc.)*
6 Inattentive *(Talking, Eating, etc.)*
7 Physical Impairments
8 Died Prior to Crash

D24 Related Factors- Driver Level *(continued)*

Attribute Codes

1975-1981

MISCELLANEOUS CAUSES

20 Leaving Vehicle Unattended with Engine Running Leaving Vehicle Unattended in Roadway
21 Overloading or Improper Loading of Vehicle with Passengers or Cargo
22 Towing or Pushing Vehicle Improperly
23 Failing to Dim Lights or to Have Lights on When Required
24 Operating Without Required Equipment
25 Creating Unlawful Noise or using Equipment Prohibited by Law
26 Following Improperly
27 Improper or Erratic Lane Changing
28 Failure to Keep in Proper Lane or Running off Road
29 Illegal Driving on Road Shoulder, in Ditch or Sidewalk or on Median
30 Making Improper Entry to or Exit from Trafficway
31 Starting or Backing Improperly
32 Opening Vehicle Closure into Moving Traffic or Vehicle is in Motion
33 Passing Where Prohibited by Posted Signs, Pavement Markings, Hill or Curve, or School Bus Displaying Warning Not to Pass
34 Passing on Wrong Side
35 Passing with Insufficient Distance or Inadequate Visibility or Failing to Yield to Overtaking Vehicle
36 Operating the Vehicle in an Erratic, Reckless, Careless, or Negligent Manner
37 High-Speed Chase with Police in Pursuit *(Since 1978)*
38 Failure to Yield Right of Way
39 Failure to Obey Traffic Signs, Traffic Control Devices or Traffic Officers, Failure to Observe Safety Zone
40 Passing Through or Around Barrier
41 Failure to Observe Warnings or Instructions on Vehicle Displaying Them
42 Failure to Signal Intentions
43 Giving Wrong Signal
44 Driving Too Fast for Conditions or in Excess of Posted Speed Limit
45 Driving Less Than Posted Maximum
46 Operating at Erratic or Suddenly Changing Speeds
47 Making Right Turn from Left Turn-Lane; Making Left-Turn from Right-Turn Lane
48 Making Improper Turn
49 Failure to Comply With Physical Restrictions of License
50 Driving Wrong Way on One-Way Trafficway
51 Driving on Wrong Side of Road
52 Operator Inexperience
53 Unfamiliar With Roadway
54 Stopping in Roadway *(Since 1979)*
99 Unknown

D24 Related Factors- Driver Level *(continued)*

Attribute Codes

1982-2009	*2010-2013*	*2014-Later*	
0	0	0	None
PHYSICAL/MENTAL CONDITION			
1	--	--	Drowsy, Sleepy, Asleep, Fatigued
2	--	--	Ill, Passed Out/Blackout
3	--	--	Emotional *(e.g., Depression, Angry, Disturbed)*
4	4	4	Reaction to or Failure to Take Drugs/Medication
5	--	--	Other Drugs *(Marijuana, Cocaine, etc., 1982-1994)*
5	--	--	Under the Influence of Alcohol, Drugs, or Medication *(Since 2003)*
6	--	--	Inattentive/Careless *(Talking, Eating, Car Phones, etc.)*
--	6	6	Careless Driving *(Since 2012)*
7	--	--	Restricted to Wheelchair
8	--	--	Paraplegic *(1982-1994, See Data element 11)*
8	8	8	Road Rage/Aggressive Driving *(Since 2004)*
9	--	--	Impaired Due to Previous Injury
10	--	--	Deaf *(1982-1994)*
11	--	--	Other Physical Impairment *(Includes Paraplegic Since 1995)*
12	12	12	Mother of Dead Fetus/Mother of Infant Born Post Crash
13	13	13	Mentally Challenged *(Since 1995)*
14	--	--	Failure to Take Drugs/Medication *(1995-2004)*
15	15	15	Seat Back Not in Normal Position, Seat Back Reclined *(Since 2002)*
MISCELLANEOUS FACTORS			
16	16	16	Police or Law Enforcement Officer *(Since 2002)*
17	--	--	Running off Road *(2000-2003)*
18	18	18	Traveling on Prohibited Trafficways *(Since 1995)*
19	19	19	Legally Driving on Suspended or Revoked License
20	20	20	Leaving Vehicle Unattended with Engine Running; Leaving Vehicle Unattended in Roadway
21	21	21	Overloading or Improper Loading of Vehicle with Passenger or Cargo
22	22	22	Towing or Pushing Vehicle Improperly
23	23	23	Failing to Dim Lights or to Have Lights on When Required
24	24	24	Operating Without Required Equipment
25	--	--	Creating Unlawful Noise or Using Equipment Prohibited by Law
26	26	26	Following Improperly
27	27	27	Improper or Erratic Lane Changing
28	--	--	Failure to Keep in Proper Lane or Running off Road *(1982-1999)*
28	28	28	Failure to Keep in Proper Lane *(Since 2000)*
29	29	--	Illegal Driving on Road Shoulder, in Ditch, or Sidewalk, or on Median
--	--	29	Intentional Illegal Driving on Road Shoulder, in Ditch, or Sidewalk, or on Median

D24 Related Factors- Driver Level *(continued)*

Attribute Codes

1982-2009	*2010-2013*	*2014-Later*	
30	30	30	Making Improper Entry to or Exit from Trafficway
31	31	31	Starting or Backing Improperly
32	32	32	Opening Vehicle Closure into Moving Traffic or Vehicle is in Motion
33	33	33	Passing Where Prohibited by Posted Signs, Pavement Markings, Hill or Curve, or School Bus Displaying Warning Not to Pass
34	34	34	Passing on Wrong Side
35	35	35	Passing with Insufficient Distance or Inadequate Visibility or Failing to Yield to Overtaking Vehicle
36	36	36	Operating the Vehicle in an Erratic, Reckless, Careless or Negligent Manner or Operating at Erratic or Suddenly Changing Speeds
37	--	--	High-Speed Chase with Police in Pursuit *(See Police Pursuit Note)*
--	37	37	Police Pursuing this Driver or Police Officer in Pursuit
38	38	38	Failure to Yield Right of Way
39	39	39	Failure to Obey Actual Traffic Signs, Traffic Control Devices or Traffic Officers, Failure to Observe Safety Zone Traffic Laws
40	40	40	Passing Through or Around Barrier
41	41	41	Failure to Observe Warnings or Instructions on Vehicle Displaying Them
42	42	42	Failure to Signal Intentions
43	43	43	Driving too Fast for Conditions *(2008 Only)*
44	--	--	Driving too Fast for Conditions or in Excess of Posted Speed Limit *(1982-2007)*
44	--	--	Driving in Excess of Posted Speed Limit *(2008 Only)*
45	45	45	Driving Less Than Posted Maximum
46	--	--	Operating at Erratic or Suddenly Changing Speeds *(1982-1994)*
46	--	--	Not Used *(1995-1997)*
46	--	--	Racing *(1998-2008)*
47	47	47	Making Right Turn from Left-Turn Lane or Making Left Turn from Right-Turn Lane
48	48	48	Making Improper Turn
49	--	--	Failure to Comply With Physical Restrictions of License *(1982-2004)*
50	50	50	Driving Wrong Way on One-Way Trafficway
51	51	--	Driving on Wrong Side of Road *(Intentionally or Unintentionally)*
--	--	51	Driving on Wrong Side of Two-way Trafficway *(Intentionally or Unintentionally)*
52	52	52	Operator Inexperience
53	53	53	Unfamiliar With Roadway
54	54	54	Stopping in Roadway *(Vehicle Not Abandoned)*
55	--	--	Underriding a Parked Truck *(1982-2008)*
56	--	--	Improper Tire Pressure *(1982-2005)*
57	57	57	Locked Wheel
58	58	58	Over Correcting
59	59	59	Getting Off/Out of or On/In to Moving Vehicle
60	--	--	Getting Off/Out of or On/In to Non-Moving Vehicle *(1982-2004)*

D24 Related Factors- Driver Level *(continued)*

Attribute Codes

1982-2009	*2010-2013*	*2014-Later*	
VISION OBSCURED BY			
61	--	--	Rain, Snow, Fog, Smoke, Sand, Dust *(1982-2008)*
62	--	--	Reflected Glare, Bright Sunlight, Headlights *(1982-2008)*
63	--	--	Curve, Hill, or Other Design Features *(Including Traffic Signs, Embankment 1982-2008)*
64	--	--	Building, Billboard, etc. *(1982-2008)*
65	--	--	Trees, Crops, Vegetation *(1982-2008)*
66	--	--	Motor Vehicle *(Including Load 1982-2008)*
67	--	--	Parked Vehicle *(1982-2008)*
68	--	--	Splash or Spray of Passing Vehicle *(1982-2008)*
69	--	--	Inadequate Defrost or Defog System *(1982-2008)*
70	--	--	Inadequate Vehicle Lighting System *(1982-2008)*
71	--	--	Obstructing Angles on Vehicle *(1982-2008)*
72	--	--	Mirrors- Rear View *(1982-2008)*
73	--	--	Mirrors- Other *(1982-2001)*
SPECIAL CIRCUMSTANCES			
73	73	73	Driver Has Not Complied with Learners Permit or Intermediate Driver License Restrictions *(GDL Restrictions, Since 2004)*
74	--	--	Head Restraints *(1982-2001)*
74	74	74	Driver Has Not Complied With Physical or Other Imposed Restrictions *(Since 2004)*
75	--	--	Broken or Improperly Cleaned Windshield *(1982-2008)*
76	--	--	Other Obstruction *(1982-2008)*
SKIDDING, SWERVING, OR SLIDING DUE TO			
77	77	77	Severe Crosswind
78	78	78	Wind from Passing Truck
79	79	79	Slippery or Loose Surface
80	80	80	Tire Blow-Out or Flat
81	81	81	Debris or Objects in Road
82	82	82	Ruts, Holes, Bumps in Road
83	83	83	Live Animals in Road
84	84	84	Vehicle in Road
85	85	85	Phantom Vehicle
86	86	86	Pedestrian, Pedalcyclist, or Other Non-Motorist in Road
87	87	87	Ice, Water, Snow, Slush, Sand, Dirt, Oil, Wet Leaves on Road
88	88	88	Trailer Fishtailing or Swaying *(Since 2001)*

D24 Related Factors- Driver Level *(continued)*

Attribute Codes

1982-2009	*2010-2013*	*2014-Later*	
	OTHER MISCELLANEOUS FACTORS		
89	--	--	Carrying Hazardous Cargo Improperly *(1994-2009)*
--	89	89	Driver has a Driving Record or Driver's License from More than One State
90	--	--	Hit-and-Run Vehicle Driver
91	91	91	Non-Traffic Violation Charged *(Manslaughter, Homicide or Other Assault Offense Committed Without Malice, Since 1986)*
92	92	92	Other Non-Moving Traffic Violation *(1986-2011)*
	POSSIBLE DISTRACTIONS INSIDE VEHICLE		
93	--	--	Cellular Telephone *(Since 1991)*
94	--	--	Fax Machine *(1991-2001)*
94	--	--	Cellular Telephone in Use in Vehicle *(Since 2002)*
95	--	--	Computer *(1991-2001)*
95	--	--	Computer Fax Machines/Printers *(Since 2002)*
96	--	--	On-Board Navigation System *(Since 1991)*
97	--	--	Two-Way Radio *(Since 1991)*
98	--	--	Head-Up Display *(Since 1991)*
99	99	99	Unknown

More Information on Police Pursuits

PC5 Trafficway Description

Definition: This data element identifies the attribute that best describes the trafficway flow just prior to this vehicle's critical precrash event.

Additional Information: In 2010, this data element was no longer collected at the Accident level. It is now collected at the Vehicle level.

SAS Name: VTRAFWAY

Attribute Codes

2010-2012	*2013-Later*	
0	--	Non-Trafficway Area
--	0	Non-Trafficway or Driveway Access
1	1	Two-Way, Not Divided
2	2	Two-Way, Divided, Unprotected *(Painted > 4 Feet)* Median
3	3	Two-Way, Divided, Positive Median Barrier
4	4	One-Way Trafficway
5	5	Two-Way, Not Divided With a Continuous Left-Turn Lane
6	6	Entrance/Exit Ramp
8	8	Not Reported
9	9	Unknown

PC6 Total Lanes in Roadway

Definition: This data element identifies the attribute that best describes the number of travel lanes just prior to this vehicle's critical precrash event.

Additional Information: The number of lanes refers to the number of lanes of a continuous cross-section of roadway. For example, a local roadway with one lane going north and one lane going south would be coded as two lanes. However, if a trafficway is a divided highway with two lanes going north, a median, and two lanes going south, then the number of lanes is coded as two. If a trafficway has two lanes going north immediately adjacent to two lanes going south, one continuous cross-section of roadway, then the number of lanes is coded as four. This data element can be used with the Trafficway Description data element VTRAFWAY to determine the trafficway geometry. For example: If (VNUM_LAN= 2) AND (VTRAFWAY=1), then one has a two-lane roadway that is not physically divided, which is what most people think of as a two-lane road (i.e., one lane going in each direction).

If the roadway is a divided trafficway, the number of travel lanes counts only lanes in the direction of travel of the first harmful event. If the roadway is an undivided trafficway, the number of travel lanes are all the lanes regardless of their direction of travel.

In 2010, this data element was no longer collected at the Accident level. It is now collected at the Vehicle level.

SAS Name: VNUM_LAN

Attribute Codes

2010-2012	*2013-Later*	
0	--	Non-Trafficway Area
--	0	Non-Trafficway or Driveway Access
1	1	One Lane
2	2	Two Lanes
3	3	Three Lanes
4	4	Four Lanes
5	5	Five Lanes
6	6	Six Lanes
7	7	Seven or More Lanes
8	8	Not Reported
9	9	Unknown

PC7 Speed Limit

Definition: This data element identifies the attribute that best represents the speed limit just prior to this vehicle's critical precrash event.

Additional Information: In 2010, this data element was no longer collected at the Accident level. It is now collected at the Vehicle level.

SAS Name: VSPD_LIM

Attribute Codes

2010	*2011-2012*	*2013-Later*	
0	0	--	No Statutory Limit/Non-Trafficway Area
--	--	0	No Statutory Limit/Non-Trafficway or Driveway Access
1-97	--	--	Speed Limit *(mph)*
--	5-80	5-80	Speed Limit *(5 mph Increments)*
98	98	98	Not Reported
99	99	99	Unknown

PC8 Roadway Alignment

Definition: This data element identifies the attribute that best represents the roadway alignment prior to this vehicle's critical precrash event.

Additional Information: In 2010, this data element was no longer collected at the Accident level. It is now collected at the Vehicle level.

SAS Name: VALIGN

Attribute Codes

2010-2012	*2013-Later*	
0	--	Non-Trafficway Area
--	0	Non-Trafficway or Driveway Access
1	1	Straight
2	2	Curve Right
3	3	Curve Left
4	4	Curve – Unknown Direction
8	8	Not Reported
9	9	Unknown

PC9 Roadway Grade

Definition: This data element identifies the attribute that best represents the roadway grade prior to this vehicle's critical precrash event.

Additional Information: In 2010, this data element was no longer collected at the Accident level. It is now collected at the Vehicle level.

Prior to 2010, this data element was called Roadway Profile.

SAS Name: VPROFILE

Attribute Codes

2010-2012	*2013-Later*	
0	--	Non-Trafficway Area
--	0	Non-Trafficway or Driveway Access
1	1	Level
2	2	Grade, Unknown Slope
3	3	Hillcrest
4	4	Sag *(Bottom)*
5	5	Uphill
6	6	Downhill
8	8	Not Reported
9	9	Unknown

PC10 Roadway Surface Type

Definition: This data element identifies the attribute that best represents the roadway surface type prior to this vehicle's critical precrash event.

Additional Information: In 2010, this data element was no longer collected at the Accident level. It is now collected at the Vehicle level.

SAS Name: VPAVETYP

Attribute Codes

2010-2012	*2013-Later*	
0	--	Non-Trafficway Area
--	0	Non-Trafficway or Driveway Access
1	1	Concrete
2	2	Blacktop, Bituminous, or Asphalt
3	3	Brick or Block
4	4	Slag, Gravel or Stone
5	5	Dirt
7	7	Other
8	8	Not Reported
9	9	Unknown

PC11 Roadway Surface Condition

Definition: This data element identifies the attribute that best represents the roadway surface condition prior to this vehicle's critical precrash event.

Additional Information: In 2010, this data element was no longer collected at the Accident level. It is now collected at the Vehicle level.

SAS Name: VSURCOND

Attribute Codes

2010-2012	*2013-Later*	
0	--	Non-Trafficway Area
--	0	Non-Trafficway Area or Driveway Access
1	1	Dry
2	2	Wet
3	3	Snow
4	4	Ice/Frost
5	5	Sand
6	6	Water *(Standing or Moving)*
7	7	Oil
8	8	Other
10	10	Slush
11	11	Mud, Dirt, Gravel
98	98	Not Reported
99	99	Unknown

PC12 Traffic Control Device

Definition: This data element identifies the attribute that best describes the traffic controls in the vehicle's environment just prior to this vehicle's critical precrash event.

Additional Information: In 2010, this data element was no longer collected at the Accident level. It is now collected at the Vehicle level.

SAS Name: VTRAFCON

Attribute Codes

2010	*2011-Later*	
0	0	No Controls
TRAFFIC SIGNALS		
1	1	Traffic Control Signal *(On Colors)* Without Pedestrian Signal
2	2	Traffic Control Signal *(On Colors)* With Pedestrian Signal
3	3	Traffic Control Signal *(On Colors)* Not Known if Pedestrian Signal
4	4	Flashing Traffic Control Signal
8	8	Other Highway Traffic Signal
9	9	Unknown Highway Traffic Signal
REGULATORY SIGNS		
7	7	Lane Use Control Signal
20	20	Stop Sign
21	21	Yield Sign
28	28	Other Regulatory Sign
29	29	Unknown Regulatory Sign
32	23	School Zone Sign/Device
40	40	Warning Sign
50	50	Person
65	65	Railway Crossing Device
97	97	Not Reported
98	98	Other
99	99	Unknown

PC13 Traffic Control Device Functioning

Definition: This data element identifies the functionality of the traffic control device recorded for this vehicle in the data element "Traffic Control Device."

Additional Information: Data not collected prior to 1982.

In 2010, this data element was no longer collected at the Accident level. It is now collected at the Vehicle level.

SAS Name: VTCONT_F

Attribute Codes

2010-Later

0 No Controls
1 Device Not Functioning
2 Device Functioning – Functioning Improperly
3 Device Functioning Properly
8 Not Reported
9 Unknown

PC17 Pre-Event Movement (Prior To Recognition of Critical Event)

Definition: This data element identifies the attribute that best describes this vehicle's activity prior to the driver's realization of an impending critical event or just prior to impact if the driver took no action or had no time to attempt any evasive maneuvers.

Additional Information:

SAS Name: P_CRASH1

Attribute Codes

2010	*2011-2012*	*2013-Later*	
0	0	--	No Driver Present
--	--	0	No Driver Present/Unknown if Driver Present
1	1	1	Going Straight
2	--	--	Decelerating in Traffic Lane
--	2	2	Decelerating in Road
3	--	--	Accelerating in Traffic Lane
--	3	3	Accelerating in Road
4	--	--	Starting in Traffic Lane
--	4	4	Starting in Road
5	--	--	Stopped in Traffic Lane
--	5	5	Stopped in Roadway
6	6	6	Passing or Overtaking Another Vehicle
7	7	7	Disabled or Parked in Travel Lane
8	8	8	Leaving a Parking Position
9	9	9	Entering a Parking Position
10	10	10	Turning Right
11	11	11	Turning Left
12	12	12	Making a U-Turn
13	13	13	Backing Up *(Other Than For Parking Position)*
14	14	14	Negotiating a Curve
15	15	15	Changing Lanes
16	16	16	Merging
17	17	17	Successful Avoidance Maneuver to a Previous Critical Event
98	98	98	Other
99	99	99	Unknown

PC19 Critical Event- Precrash

Definition: This data element identifies the attribute that best describes the critical event which made this crash imminent (i.e., something occurred which made the collision possible).

Additional Information:

SAS Name: P_CRASH2

Attribute Codes

2010	*2011-Later*	
		THIS VEHICLE LOSS OF CONTROL DUE TO:
1	1	Blow Out/Flat Tire
2	2	Stalled Engine
3	3	Disabling Vehicle Failure *(e.g., Wheel Fell Off)*
4	4	Non-Disabling Vehicle Problem *(e.g., Hood Flew Up)*
5	5	Poor Road Conditions *(Puddle, Pothole, Ice, etc.)*
6	6	Traveling Too Fast For Conditions
8	8	Other Cause of Control Loss
9	9	Unknown Cause of Control Loss
		THIS VEHICLE TRAVELING
10	10	Over the Lane Line on Left Side of Travel Lane
11	11	Over the Lane Line on Right Side of Travel Lane
12	12	Off the Edge of the Road on the Left Side
13	13	Off the Edge of the Road on the Right Side
14	14	End Departure
15	--	Turning Left at Intersection
--	15	Turning Left at Junction
16	--	Turning Right at Intersection
--	16	Turning Right at Junction
17	17	Crossing Over *(Passing Through)* Intersection
18	18	This Vehicle Decelerating
19	19	Unknown Travel Direction
		OTHER MOTOR VEHICLE IN LANE
50	50	Other Vehicle Stopped
51	51	Traveling In Same Direction with Lower or Steady Speed
52	52	Traveling In Same Direction while Decelerating
53	53	Traveling In Same Direction with Higher Speed
54	54	Traveling In Opposite Direction
55	55	In Crossover
56	56	Backing
59	59	Unknown Travel Direction of the Other Motor Vehicle in Lane
		OTHER MOTOR VEHICLE ENCROACHING INTO LANE
60	60	From Adjacent Lane *(Same Direction)* Over Left Lane Line
61	61	From Adjacent Lane *(Same Direction)* Over Right Lane Line
62	62	From Opposite Direction Over Left Lane Line

PC19 Critical Event- Precrash (Event) *(continued)*

Attribute Codes

2010	*2011-Later*	
63	63	From Opposite Direction Over Right Lane Line
64	64	From Parking Lane, Median, Shoulder, Roadside
65	65	From Crossing Street, Turning Into Same Direction
66	66	From Crossing Street, Across Path
67	67	From Crossing Street, Turning Into Opposite Direction
68	68	From Crossing Street, Intended Path Unknown
70	70	From Driveway, Turning Into Same Direction
71	71	From Driveway, Across Path
72	72	From Driveway, Turning Into Opposite Direction
73	73	From Driveway, Intended Path Unknown
74	74	From Entrance to Limited Access Highway
78	78	Encroachment by Other Vehicle – Details Unknown
PEDESTRIAN OR PEDALCYCLIST OR OTHER NON-MOTORIST		
80	--	Pedestrian in Roadway
--	80	Pedestrian in Road
81	--	Pedestrian Approaching Roadway
--	81	Pedestrian Approaching Road
82	82	Pedestrian Unknown Location
83	--	Pedalcyclist/Other Non-Motorist in Roadway
--	83	Pedalcyclist/Other Non-Motorist in Road
84	--	Pedalcyclist/Other Non-Motorist Approaching Roadway
--	84	Pedalcyclist/Other Non-Motorist Approaching Road
85	85	Pedalcyclist/Other Non-Motorist Unknown Location
OBJECT OR ANIMAL		
87	--	Animal in Roadway
--	87	Animal in Road
88	--	Animal Approaching Roadway
--	88	Animal Approaching Road
89	89	Animal – Unknown Location
90	--	Object in Roadway
--	90	Object in Road
91	--	Object Approaching Roadway
--	91	Object Approaching Road
92	92	Object Unknown Location
OTHER		
98	98	Other Critical Precrash Event
99	99	Unknown

PC20 Attempted Avoidance Maneuver

Definition: This data element identifies the attribute that best describes the movements/actions taken by this driver, within a critical crash envelope, in response to the "Critical Precrash Event."

Additional Information: This data element identifies the actions taken by the driver in response to the impending danger. Because this data element focuses upon the driver's action just prior to the first harmful event it is coded independently of any maneuvers associated with this vehicle's "Crash Type."

SAS Name: P_CRASH3

Attribute Codes

2010-2012	*2013-Later*	
0	--	No Driver Present
--	0	No Driver Present/Unknown if Driver Present
1	1	No Avoidance Maneuver
2	2	Braking *(No Lockup)*
3	3	Braking *(Lockup)*
4	4	Braking *(Lockup Unknown)*
5	5	Releasing Brakes
6	6	Steering Left
7	7	Steering Right
8	8	Braking and Steering Left
9	9	Braking and Steering Right
10	10	Accelerating
11	11	Accelerating and Steering Left
12	12	Accelerating and Steering Right
98	98	Other Actions
99	99	Unknown

PC21 Pre-Impact Stability

Definition: This data element identifies the attribute that best describes the stability of this vehicle after the "Critical Precrash Event," but before the impact.

Additional Information:

SAS Name: PCRASH4

Attribute Codes

2010-2012	*2013-Later*	
0	--	No Driver Present
--	0	No Driver Present/Unknown if Driver Present
1	1	Tracking
2	2	Skidding Longitudinally – Rotation Less Than 30 Degrees
3	3	Skidding Laterally – Clockwise Rotation
4	4	Skidding Laterally – Counterclockwise Rotation
--	5	Skidding Laterally – Rotation Direction Unknown
7	7	Other Vehicle Loss-of-Control
9	9	Precrash Stability Unknown

PC22 Pre-Impact Location

Definition: This data element identifies the attribute that best describes the location of this vehicle after the "Critical Precrash Event," but before the impact.

Additional Information:

SAS Name: PCRASH5

Attribute Codes

2010-2012	*2013-Later*	
0	--	No Driver Present
--	0	No Driver Present/Unknown if Driver Present
1	1	Stayed In Original Travel Lane
2	2	Stayed On Roadway, But Left Original Travel Lane
3	3	Stayed On Roadway, Not Known if Left Original Travel Lane
4	4	Departed Roadway
5	5	Remained Off Roadway
6	6	Returned to Roadway
7	7	Entered Roadway
9	9	Unknown

PC23 Crash Type

Definition: This data element identifies the attribute that best describes the type of crash this vehicle was involved in based on the "First Harmful Event" and the precrash circumstances. For graphic descriptions of possible values see *Appendix A: PC23 Crash Type Diagram*.

Additional Information:

SAS Name: ACC_TYPE

Attribute Codes

2010-Later

0 No Impact

CATEGORY I: SINGLE DRIVER

CONFIGURATION A: RIGHT ROADSIDE DEPARTURE

1 Drive Off Road
2 Control/Traction Loss
3 Avoid Collision with Vehicle, Pedestrian, Animal
4 Specifics Other
5 Specifics Unknown

CONFIGURATION B: LEFT ROADSIDE DEPARTURE

6 Drive Off Road
7 Control/Traction Loss
8 Avoid Collision With Vehicle, Pedestrian, Animal
9 Specifics Other
10 Specifics Unknown

CONFIGURATION C: FORWARD IMPACT

11 Parked Vehicle
12 Stationary Object
13 Pedestrian/Animal
14 End Departure
15 Specifics Other
16 Specifics Unknown

CATEGORY II: SAME TRAFFICWAY, SAME DIRECTION

CONFIGURATION D: REAR END

20 Stopped
21 Stopped, Straight
22 Stopped, Left
23 Stopped, Right
24 Slower
25 Slower, Going Straight
26 Slower, Going Left
27 Slower, Going Right
28 Decelerating *(Slowing)*
29 Decelerating *(Slowing)*, Going Straight

PC23 Crash Type *(continued)*

Attribute Codes

2010-Later

30 Decelerating *(Slowing)*, Going Left
31 Decelerating *(Slowing)*, Going Right
32 Specifics Other
33 Specifics Unknown

CONFIGURATION E: FORWARD IMPACT

34 This Vehicles Frontal Area Impacts Another Vehicle.
35 This Vehicle Is Impacted by Frontal Area of Another Vehicle
36 This Vehicles Frontal Area Impacts Another Vehicle.
37 This Vehicle Is Impacted by Frontal Area of Another Vehicle
38 This Vehicles Frontal Area Impacts Another Vehicle.
39 This Vehicle Is Impacted by Frontal Area of Another Vehicle
40 This Vehicles Frontal Area Impacts Another Vehicle.
41 This Vehicle Is Impacted by Frontal Area of Another Vehicle
42 Specifics Other
43 Specifics Unknown

CONFIGURATION F: SIDESWIPE/ANGLE

44 Straight Ahead on Left.
45 Straight Ahead on Left/Right.
46 Changing Lanes to the Right
47 Changing Lanes to the Left
48 Specifics Other
49 Specifics Unknown

CATEGORY III: SAME TRAFFICWAY, OPPOSITE DIRECTION

CONFIGURATION G: HEAD-ON

50 Lateral Move *(Left/Right)*
51 Lateral Move *(Going Straight)*
52 Specifics Other
53 Specifics Unknown

CONFIGURATION H: FORWARD IMPACT

54 This Vehicles Frontal Area Impacts Another Vehicle.
55 This Vehicle Is Impacted by Frontal Area of Another Vehicle
56 This Vehicles Frontal Area Impacts Another Vehicle.
57 This Vehicle Is Impacted by Frontal Area of Another Vehicle
58 This Vehicles Frontal Area Impacts Another Vehicle.
59 This Vehicle Is Impacted by Frontal Area of Another Vehicle
60 This Vehicles Frontal Area Impacts Another Vehicle.
61 This Vehicle Is Impacted by Frontal Area of Another Vehicle
62 Specifics Other
63 Specifics Unknown

PC23 Crash Type *(continued)*

Attribute Codes

2010-Later

CONFIGURATION I: SIDESWIPE/ANGLE

64 Lateral Move *(Left/Right)*
65 Lateral Move *(Going Straight)*
66 Specifics Other
67 Specifics Unknown

CATEGORY IV: CHANGING TRAFFICWAY, VEHICLE TURNING

CONFIGURATION J: TURN ACROSS PATH

68 Initial Opposite Directions *(Left/Right)*
69 Initial Opposite Directions *(Going Straight)*
70 Initial Same Directions *(Turning Right)*
71 Initial Same Directions *(Going Straight)*
72 Initial Same Directions *(Turning Left)*
73 Initial Same Directions *(Going Straight)*
74 Specifics Other
75 Specifics Unknown

CONFIGURATION K: TURN INTO PATH

76 Turn Into Same Direction *(Turning Left)*
77 Turn Into Same Direction *(Going Straight)*
78 Turn Into Same Direction *(Turning Right)*
79 Turn Into Same Direction *(Going Straight)*
80 Turn Into Opposite Directions *(Turning Right)*
81 Turn Into Opposite Directions *(Going Straight)*
82 Turn Into Opposite Directions *(Turning Left)*
83 Turn Into Opposite Directions *(Going Straight)*
84 Specifics Other
85 Specifics Unknown

CATEGORY V: INTERSECTING PATHS (VEHICLE DAMAGE)

CONFIGURATION L: STRAIGHT PATHS

86 Striking from the Right
87 Struck on the Right
88 Striking from the Left
89 Struck on the Left
90 Specifics Other
91 Specifics Unknown

CATEGORY VI: MISCELLANEOUS

CONFIGURATION M: BACKING, ETC.

92 Backing Vehicle
93 Other Vehicle or Object *(2010-2012)*
93 Other Vehicle *(2013-Later)*
98 Other Crash Type
99 Unknown Crash Type

Discontinued VEHICLE Data Elements

Axle (discontinued)

Definition: This data element counts the total number of axles on the vehicle (and converter dolly), including the trailing units (includes raised axles).

Additional Information: The major change in this data element from 1994 to 1995 is the count of axles on the vehicle rather than the deployed axles on the ground. From 1991 to 1994, this data element counts the total number of deployed axles on the *ground* for the vehicle including trailing units. From 1995 to 2007, this data element counts the total number of axles on the *vehicle* for the vehicle including trailing units.

This data element was discontinued after 2007.

SAS Name: AXLES

Attribute Codes

1991-1994	*1995-2007*	
00	00	Not Applicable, Not a Medium/Heavy Truck or Bus
02-97	02-97	Number of Axles
98	98	Medium/Heavy Truck or Bus, Number of Axles Unknown
99	--	Unknown Vehicle Type
--	99	Unknown if Light or Medium/Heavy Truck or Bus

Carburetion (discontinued)

Definition: This data element identifies the number of barrels for the engine of this vehicle or a code indicating that the engine is high-performance, fuel-injected, turbocharged, or electronically-controlled.

Additional Information: This data element is derived by the VINA analysis system scanning the VIN for vehicles of model year 1966 and later that have verifiable VIN numbers.

This data element, formerly V129, was discontinued in 2013. See the Vindecode data file for VIN decoded data elements. Prior to 2013, this data element also appeared in the Person data file and in the Parkwork data file as PCARBUR.

SAS Name: CARBUR

Attribute Codes

2011-2012

0-8	Actual Number of Barrels
A	1 Barrel, Lower HP
B	1 Barrel, Higher HP
C	1 Barrel, Turbo
D	1 Barrel, Turbo Low HP
E	1 Barrel, Turbo High HP
F	Number of Barrels Not Specified, Fuel injection
G	1 Barrel, Electronically controlled
H	Number of Barrels Not Specified, High performance
J	2 Barrels, Lower HP
K	2 Barrels, Higher HP
L	2 Barrels, Turbo
M	2 Barrels, Turbo Low HP
N	2 Barrels, Turbo High HP
P	2 Barrels, Electronically controlled
Q	Number of Barrels Not Specified, Electronically controlled
R	4 Barrels, Electronically controlled
S	4 Barrels, Lower HP
T	1, 2 or 4 Barrels,Turbo Fuel Injected
U	4 Barrels, Higher HP
V	4 Barrels, Turbo
W	4 Barrels, Turbo Low HP
X	4 Barrels, Turbo High HP
Y	Number of Barrels Not Specified, Turbo
Z	Number of Barrels Not Specified, Super Charged

Crash Avoidance Maneuver (discontinued)

Definition: This data element is collected to indicate if an avoidance maneuver was taken by the driver to avoid the crash.

Additional Information: AVOID is the maneuver that the driver executed to attempt to avoid the crash. See VEH_MAN, Vehicle Maneuver, for the maneuver the driver was executing just prior to entering a crash situation.

This data element was discontinued after 2009.

SAS Name: AVOID

Attribute Codes

1991-2009

0 No Avoidance Maneuver Reported
1 Braking *(Skid Marks Evident)*
2 Braking *(No Skid Marks; Driver Stated)*
3 Braking *(Other Reported Evidence)*
4 Steering *(Evidence or Stated)*
5 Steering and Braking *(Evidence or Stated)*
6 Other Avoidance Maneuver
8 Not Reported / *(Inconclusive Since 1999, By Police)*

Cubic Inch Displacement (discontinued)

Definition: This data element identifies the manufacturer's cubic inch displacement of the engine pistons for this vehicle.

Additional Information: This data element is derived by the VINA analysis system scanning the VIN for vehicles of model year 1966 and later that have verifiable VIN numbers.

This data element, formerly V127, was discontinued in 2013. See the Vindecode data file for VIN decoded data elements. Prior to 2013, this data element also appeared in the Person data file and in the Parkwork data file as PDISPLACE.

SAS Name: DISPLACE

Attribute Codes

2011-2012

xxx Actual Cubic Inch Displacement *(cid)*

Curb Weight (discontinued)

Definition: This data element identifies the base weight of the series for this vehicle. This is available for Passenger Type Vehicles only (VINTYPE='P').

Additional Information: This data element is derived by the VINA analysis system scanning the VIN for vehicles of model year 1966 and later that have verifiable VIN numbers.

This data element, formerly V118, was discontinued in 2013. See the Vindecode data file for VIN decoded data elements. Prior to 2013, this data element also appeared in the Person data file and in the Parkwork data file as PVIN_WGT.

SAS Name: VIN_WGT

Attribute Codes

1975-2012

0	Not Available
1-9998	Actual weight of Automobile *(lbs)*
9999	Unavailable

More Information on VIN Weight- Auto

Driver Training (discontinued)

Definition: This data element was discontinued after 1986.

Additional Information:

SAS Name: DR_TRAIN

Attribute Codes

1975-1986

0 None
1 High School
2 Commercial
3 School Bus
4 Traffic School
5 Two or More Types
6 Training, Type Unknown *(Since 1977)*
9 Unknown

Driver's Vision Obscured by (discontinued)

Definition: This data element records impediments to a driver's visual field that were noted in the case materials.

Additional Information: Most of these data elements can be found in "Related Factor – Driver Level" from 1982 to 2008. This data element was added here in 2009. In 2010, the data element was changed to identify all that apply in the crash and was therefore moved to its own data file, Vision.

SAS Name: D_VISION1, D_VISION2, D_VISION3

Attribute Codes

2009

00 No Obstruction Noted
01 Rain, Snow, Fog, Smoke, Sand, Dust
02 Reflected Glare, Bright Sunlight, Headlights
03 Curve, Hill, or Other Roadway Design Features
04 Building, Billboard, or Other Structure
05 Trees, Crops, Vegetation
06 In-Transport Motor Vehicle *(Including Load)*
07 Not-in-Transport Motor Vehicle *(Parked, Working)*
08 Splash or Spray of Passing Vehicle
09 Inadequate Defrost or Defog System
10 Inadequate Vehicle Lighting System
11 Obstructing Interior to the Vehicle
12 External Mirrors
13 Broken or Improperly Cleaned Windshield
14 Obstructing Angles on Vehicle
97 Vision Obscured – No Details
98 Other Visual Obstruction
99 Unknown

Fuel Code (discontinued)

Definition: This data element identifies the fuel type for this vehicle determined by the manufacturer specification and recommendation.

Additional Information: This data element is derived by the VINA analysis system scanning the VIN for vehicles of model year 1966 and later that have verifiable VIN numbers.

Prior to 2010, this data element was derived for trucks only. Since 2010 this data element is coded for all vehicles.

This data element, formerly V121, was discontinued in 2013. See the Vindecode data file for VIN decoded data elements. Prior to 2013, this data element also appeared in the Person data file and in the Parkwork data file as PFUECODE.

SAS Name: **FLDCD_TR** ***1975-2009***
FUELCODE ***2010-2012***

Attribute Codes

1975-2009	***2010-2012***	
--	B	Electric and Gasoline Hybrid Engine
C	C	Gasoline Engine That Can Be Easily Converted to Gaseous-Powered Engine *(Powered by Natural Gas, Propane, etc.)*
D	D	Diesel
E	E	Electric
F	F	Flexible Fuel
G	G	Gas
H	H	Ethanol Fuel Only
M	M	Methanol Gas Only
N	N	Compressed Natural Gas
P	P	Propane
9	9	Unknown

Hazardous Material Involvement/Placard (discontinued)

Definition: This data element identifies the presence of hazardous cargo for this vehicle and records information about the hazardous cargo when present.

Additional Information: The data element HAZ_CARG is no longer in FARS. It has been replaced with the following five data elements HAZ_INV, HAZ_PLAC, HAZ_ID, HAZ_CNO, and HAZ_REL.

SAS Name: HAZ_CARG

Attribute Codes

1982-1990	*1991-2006*	
0	0	No
1	--	Yes
--	1	Yes, Placarded
--	2	Yes, Not Placarded
--	3	Yes, Unknown if Placarded
9	9	Unknown

Most Damaged Area (discontinued)

Definition: This data element identifies the area on this vehicle that was most damaged during an event in the crash.

Additional Information: Prior to 2010 this data element was called "Principal Point of Impact." In 2010 and 2011 it was called "Most Damaged Area." This data element was replaced with "Damaged Areas" (MDAREAS) in 2012 which records all damaged areas to this vehicle in the Damage data file.

The attributes Underride and Override were discontinued in 1993 and "Underride/Override" became its own data element in 1994. Prior to 1994, the striking vehicle, not the vehicle struck, determined the underride/override condition. After the crash, in the case of an override or underride one vehicle is over the other. If the striking vehicle is over the other, then the crash is an override. If the striking vehicle is under the other, the crash is an underride. See the information under "Underride/Override" about using and interpreting the data element UNDERIDE.

This data element also appears in the Person data file and in the Parkwork data file as PIMPACT2.

SAS Name: IMPACT2

Attribute Codes

1975-1993	*1994-2009*	*2010-2011*	
00	00	00	Non-Collision
01-12	01-12	01-12	Clock points
13	13	13	Top
14	14	14	Undercarriage
15	--	--	Underride *(1980-1993)*
16	--	--	Override *(1982-1993)*
--	18	--	This Vehicle Set Something in Motion Causing Injury or Damage *(Not a Clock Point, Since 2004)*
--	--	18	Set-in-Motion *(Not a Clock Point)*
--	--	61	Left
--	--	62	Left-Front Half
--	--	63	Left-Back Half
--	--	81	Right
--	--	82	Right-Front Half
--	--	83	Right-Back Half
--	--	98	Not Reported
99	99	99	Unknown

More Information on Impact

Motorcycle Dry Weight (discontinued)

Definition: This data element identifies the dry weight of this motorcycle model.

Additional Information: This data element is derived by the VINA analysis system scanning the VIN for vehicles of model year 1966 and later that have verifiable VIN numbers.

This data element, formerly V135, was discontinued in 2013. See the Vindecode data file for VIN decoded data elements. Prior to 2013, this data element also appeared in the Person data file and in the Parkwork data file as PMCYCL_WT.

SAS Name: MCYCL_WT

Attribute Codes

2011-2012

xxxx Weight *(lbs)*

Motorcycle Engine Displacement (CC) (discontinued)

Definition: This data element identifies the piston bore measured in cubic centimeters for this motorcycle.

Additional Information: This data element is derived by the VINA analysis system scanning the VIN for vehicles of model year 1966 and later that have verifiable VIN numbers.

This data element, formerly V124, was discontinued in 2013. See the Vindecode data file for VIN decoded data elements. Prior to 2013, this data element also appeared in the Person data file and in the Parkwork data file as PMCYCL_DS.

SAS Name: MCYCL_DS

Attribute Codes

1975-2012

xxxx Actual Displacement *(cc)*

Motorcycle Type (discontinued)

Definition: This is the VINA Body Type (example, Dirt Bike).

Additional Information: This data element was discontinued in 1981.

SAS Name: MCYCL_TY

Attribute Codes

1975-1981

xx Two-character representation of the motorcycle type

Number of Cylinders (discontinued)

Definition: This data element identifies the number of cylinders for the engine of this vehicle.

Additional Information: This data element is derived by the VINA analysis system scanning the VIN for vehicles of model year 1966 and later that have verifiable VIN numbers.

This data element, formerly V128, was discontinued in 2013. See the Vindecode data file for VIN decoded data elements. Prior to 2013, this data element also appeared in the Person data file and in the Parkwork data file as PCYLINDER.

SAS Name: CYLINDER

Attribute Codes

2011-2012

0-18	Number of Cylinders
R	Rotary Engine

Number of Motorcycle Engine Cycles (discontinued)

Definition: This data element identifies the number of engine cycles for this motorcycle model.

Additional Information: This data element is derived by the VINA analysis system scanning the VIN for vehicles of model year 1966 and later that have verifiable VIN numbers.

This data element, formerly V136, was discontinued in 2013. See the Vindecode data file for VIN decoded data elements. Prior to 2013, this data element also appeared in the Person data file and in the Parkwork data file as PMCYCL_CY.

SAS Name: MCYCL_CY

Attribute Codes

2011-2012

2	Two-stroke engine
4	Four-stroke engine
R	Rotary engine

Number of Wheels/Drive Wheels (discontinued)

Definition: This data element identifies the number of wheels/driving wheels for this truck (trucks only, VINTYPE='T'). The length of this data element is two digits; the first position represents the number of axles on the vehicle times two and the second position represents the number of drive axles times two.

Additional Information: This data element is derived by the VINA analysis system scanning the VIN for vehicles of model year 1966 and later that have verifiable VIN numbers.

This data element, formerly V130, was discontinued in 2013. See the Vindecode data file for VIN decoded data elements. Prior to 2013, this data element also appeared in the Person data file and in the Parkwork data file as PWHLDRWHL.

SAS Name: WHLDRWHL

Attribute Codes

2011-2012

xx Number of Wheels *(1st digit)* followed by the Number of Drive Wheels *(2nd digit)*

Original Tire Size (discontinued)

Definition: This data element identifies the manufacturer's original equipment specified tire size for the series of this vehicle. The length of this data element is six characters; the first two positions represent rim size and the remaining four positions represent tire size.

Additional Information: This data element is derived by the VINA analysis system scanning the VIN for vehicles of model year 1966 and later that have verifiable VIN numbers.

This data element, formerly V126, was discontinued in 2013. See the Vindecode data file for VIN decoded data elements. Prior to 2013, this data element also appeared in the Person data file and in the Parkwork data file as PTIRE_SZE.

SAS Name: TIRE_SZE

Attribute Codes

2011-2012

xxxxxx	6-Character Tire Size

Sequence of Events (discontinued)

Definition: The events in sequence related to this motor vehicle, regardless of injury and/or property damage. Events for the vehicle are recorded in the order in which they occur, time-wise, from the PAR narrative and diagram.

Additional Information: Starting in 2004, HARM_EV, M_HARM and the sequence of events data elements have the same values. The harmful event values were modified to be consistent with the sequence of event data elements.

SAS Name: SEQ1, SEQ2, SEQ3, SEQ4, SEQ5, SEQ6

Attribute Codes

2004-2009

01	Rollover/Overturn
02	Fire/Explosion
03	Immersion
04	Gas Inhalation
05	Fell/Jumped from Vehicle
06	Injured in Vehicle
07	Other Non-Collision
08	Pedestrian
09	Pedalcycle
10	Railway Train
11	Animal
12	Motor Vehicle in Transport on Same Roadway
13	Motor Vehicle in Transport on Other Roadway
14	Parked Motor Vehicle
15	Non-Motorist on Personal Conveyance
16	Thrown or Falling Object
17	Boulder
18	Other Object *(Not Fixed)*
19	Building
20	Impact Attenuator/Crash Cushion
21	Bridge Pier or Abutment
22	Bridge Parapet End
23	Bridge Rail
24	Guardrail Face
25	Concrete Traffic Barrier
26	Other Traffic Barrier
27	Highway/Traffic Sign Post
28	Overhead Sign Support/Sign
29	Luminary/Light Support
30	Utility Pole
31	Other Post, Other Pole, or Other Support
32	Culvert

Sequence of Events *(continued)*

Attribute Codes

2004-2009

33 Curb
34 Ditch
35 Embankment – Earth
36 Embankment – Rock, Stone, or Concrete
37 Embankment – Material Type Unknown
38 Fence
39 Wall
40 Fire Hydrant
41 Shrubbery
42 Tree *(Standing Only)*
43 Other Fixed Object
44 Pavement Surface Irregularity
45 Working Construction, Maintenance or Utility Vehicles
46 Traffic Signal Support
47 Vehicle Occupant Struck or Run Over by Own Vehicle
48 Collision With Snow Bank
49 Ridden Animal or Animal-Drawn Conveyance
50 Bridge Overhead Structure
51 Jackknife
52 Guardrail End
53 Mail Box
54 Motor Vehicle Struck by Falling/Shifting Cargo or Anything Set in Motion by Another Motor Vehicle in Transport
55 Other Not in-Transport Motor Vehicle *(2005-2007)*
55 Motor Vehicle in Motion Outside the Trafficway *(Since 2008)*
57 Cable Barrier *(Since 2008)*
60 Cargo/Equipment Loss or Shift
61 Equipment Failure *(Blown Tire, Brake Failure, etc.)*
62 Separation of Units
63 Ran Off Road – Right
64 Ran Off Road – Left
65 Cross Median/Centerline
66 Downhill Runaway
67 Vehicle Went Airborne
99 Unknown

Truck Shipping Weight (discontinued)

Definition: This data element identifies the shipping weight for the shortest wheel base of this truck model.

Additional Information: This data element is derived by the VINA analysis system scanning the VIN for vehicles of model year 1966 and later that have verifiable VIN numbers.

This data element, formerly V132, was discontinued in 2013. See the Vindecode data file for VIN decoded data elements. Prior to 2013, this data element also appeared in the Person data file and in the Parkwork data file as PTRK_WT.

SAS Name: TRK_WT

Attribute Codes

2011-2012

xxxxx	Actual Shipping Weight *(lbs)*

Truck Shipping Weight Variance (discontinued)

Definition: This data element identifies the difference (coded in 100 pound increments) between the shipping weights of the shortest wheel base and the longest wheel base for this truck model. (e.g., a 200 lb. difference appears as "02".) Incremental weights for optional equipment are not included.

Additional Information: This data element is derived by the VINA analysis system scanning the VIN for vehicles of model year 1966 and later that have verifiable VIN numbers.

This data element, formerly V133, was discontinued in 2013. See the Vindecode data file for VIN decoded data elements. Prior to 2013, this data element also appeared in the Person data file and in the Parkwork data file as PTRKWTVAR.

SAS Name: TRKWTVAR

Attribute Codes

2011-2012

xx Shipping Weight Variance *(100 lbs)*

Truck Ton Rating (discontinued)

Definition: This data element identifies the payload capacity of this vehicle based on manufacturer's specifications. The length of this data element is two characters. A single code indicates a single capacity rating. Two codes indicate a range of capacity rating. For example, a Ford F150 pickup truck with a payload capacity from ½ to ¾ tons would have a rating of "BC."

Additional Information: This data element is derived by the VINA analysis system scanning the VIN for vehicles of model year 1966 and later that have verifiable VIN numbers.

This data element, formerly V131, was discontinued in 2013. See the Vindecode data file for VIN decoded data elements. Prior to 2013, this data element also appeared in the Person data file and in the Parkwork data file as PTON_RAT.

SAS Name: TON_RAT

Attribute Codes

2011-2012

A	¼
B	½
C	¾
D	1
E	1 ½
F	1 ¾
G	2
H	2 ½
I	3
J	3 ½
K	4
L	4 ½
M	5
N	6
O	7
P	8
Q	9
R	10 and Over

Truck VIN Restraint Type (discontinued)

Definition: This data element identifies restraint type information for this truck. This includes information about vehicle seat belts and air bags.

Additional Information: This data element is derived by the VINA analysis system scanning the VIN for vehicles of model year 1966 and later that have verifiable VIN numbers.

This data element, formerly V134, was discontinued in 2013. See the Vindecode data file for VIN decoded data elements. Prior to 2013, this data element also appeared in the Person data file and in the Parkwork data file as PVIN_REST.

SAS Name: VIN_REST

Attribute Codes

2011-2012

A	Active *(Manual)* Belts
B	Driver Front Air Bag/Passenger Side Belt Unknown
C	Dual Front Air Bags/Belt System Unknown
D	Dual Front Air Bag/Passenger Side Passive Belts
E	Dual Front Air Bags/Active Belts
F	Dual Front Air Bags/Passive Belts
G	Dual Air Bags Front and Side/Belts Unknown
H	Dual Air Bags Front, Head and Sides/Belts Unknown
I	Dual Air Bags Front, Head and Sides/Passive Belts
J	Dual Air Bags Front and Sides/Passive Belts
K	Dual Air Bags Front and Sides/Active Belts
L	Dual Air Bags Front, Head and Sides/Active Belt
M	Driver Front Air Bag/Passenger Side Active Belt
N	If Unable To Determine
P	Passive *(Automatic)* Belts
R	Dual Air Bags Front and Side/Active Belts w/ Automatic Passenger Sensor
S	Dual Air Bags Front, Head, and Side/Active Belts w/ Automatic Passenger Sensor
T	Dual Air Bags Front/Active Belts/Rear Passenger Side Air Bag
U	Dual Front Air Bags/Active Belts With Passenger Side Deactivation Cutoff Switch
V	Dual Air Bags Front, Head and Side/Active Belts/Rear Dual Side Air Bags
W	Dual Air Bags Front, Head and Side/Active Belts w/ Automatic Passenger Sensor/ Rear Dual Side Airbags
X	Dual Air Bags Front/Side Air Bag, Driver-Side Only/Active Belts
Y	Dual Front and Side Air Bags With Passenger Deactivation Switch
3	Dual Front and Head Airbags With Passenger Sensor; Active Belts
4	Dual Front Airbags With Passenger Sensor; Active Belts
7	Dual Front, Side and Head Airbags, Rear Head Airbags; Active Belts
9	Unknown

Truck Weight Rating (discontinued)

Definition: This data element identifies weight ranges for this truck of model year 1966 and later based on manufacturer specifications.

Additional Information: This data element is derived by the VINA analysis system scanning the VIN for vehicles of model year 1966 and later that have verifiable VIN numbers.

Often coded as 9 for buses.

This data element, formerly V123, was discontinued in 2013. See the Vindecode data file for VIN decoded data elements. Prior to 2013, this data element also appeared in the Person data file and in the Parkwork data file as PWGTCD_TR.

SAS Name: WGTCD_TR

Attribute Codes

1975-2012

1 6,000 lbs or Less
2 6,001 - 10,000 lbs
3 10,001 - 14,000 lbs
4 14,001 - 16,000 lbs
5 16,001 - 19,500 lbs
6 19,501 - 26,000 lbs
7 26,001 - 33,000 lbs
8 33,001 and Up
9 Unknown

Vehicle Maneuver (discontinued)

Definition: This data element captures the driver's action, or intended action, prior to the commencement of the unstabilized event as indicated on the crash report.

Additional Information: This data element was discontinued after 2009.

VEH_MAN is the maneuver that the driver was executing just prior to entering a crash situation. For the maneuver that the driver executed to attempt to avoid the crash, see the data element AVOID under Crash Avoidance Maneuver.

SAS Name: VEH_MAN

Attribute Codes

1982-2009

01 Going Straight
02 Slowing or Stopping in Traffic Lane
03 Starting in Traffic Lane
04 Stopped in Traffic Lane
05 Passing or Overtaking another Vehicle
06 Leaving a Parked Position
07 Parked
08 Entering a Parked Position
09 Maneuvering to Avoid
10 Turning Right: Right Turn on Red Permitted
11 Turning Right: Right Turn on Red Not Permitted
12 Turning Right: Right Turn on Red Not Applicable or Not Known if Permitted
13 Turning Left
14 Making a U-Turn
15 Backing Up *(Not Parking)*
16 Changing Lanes or Merging
17 Negotiating a Curve
98 Other
99 Unknown

Vehicle Role (discontinued)

Definition: This data element Indicates the vehicle's role in single or multi-vehicle crashes.

Additional Information: This data element was discontinued after 2009.

Note when a vehicle is both striking and struck, i.e., Value = 3, the event cannot simultaneously be at the same point of the vehicle. A vehicle must have at least one striking impact point and a struck impact point. A classic example is a chain reaction rear-end crash, where a vehicle which is both striking and struck is located within the chain.

SAS Name: IMPACTS

Attribute Codes

1975-2009

0 Non-Collision
1 Striking
2 Struck
3 Both
9 Unknown

Violations Charged (discontinued)

Definition: This data element identifies violations charged to this driver in this crash.

Additional Information: This data element was changed in 2010 to identify all violations charged in the crash and was therefore moved to its own data file, Violatn.

SAS Name: **VIOL_CHG** ***1975-1996***
VIOLCHG1, VIOLCHG2, VIOLCHG3 ***1997-2009***

Attribute Codes

1975-1981	***1982-1996***	
0	0	None
1	--	Yes
--	1	Alcohol or Drugs
2	--	Pending
--	2	Speeding
--	3	Alcohol or Drugs and Speeding
--	4	Reckless Driving
--	5	Driving With Suspended or Revoked License
--	6	Other Moving Violation
--	7	Non-Moving Violation
--	8	Violation, Type Unknown or Other Violation
9	9	Unknown

1997-2009

00	None
RECKLESS/CARELESS/HIT-AND-RUN OFFENSES	
01	Manslaughter or Homicide
02	Willful Reckless Driving; Driving to Endanger; Negligent Driving
03	Unsafe Reckless *(Not Willful, Wanton Reckless)* Driving
04	Inattentive, Careless, Improper Driving
05	Fleeing or Eluding Police
06	Fail to Obey Police, Fireman, Authorized Person Directing Traffic
07	Hit-and-Run, Fail to Stop After Crash
08	Fail to Give Aid, Information, Wait for Police after Crash
09	Serious Violation Resulting in Death

Violations Charged *(continued)*

1997-2009

IMPAIRMENT OFFENSES

11 Driving While Intoxicated *(Alcohol or Drugs)* or BAC above Limit *(Any Detectable BAC for CDLs)*
12 Driving While Impaired; Driving Under Influence of Substance Not Intended to Intoxicate
13 Driving under Influence of Substance not intended to intoxicate
14 Drinking While Operating
15 Illegal Possession of Alcohol or Drugs
16 Driving With Detectable Alcohol
18 Refusal to Submit to Chemical Test
19 Alcohol, Drug, or Impairment Violations Generally

SPEED-RELATED OFFENSES

21 Racing
22 Speeding *(Above the Speed Limit)*
23 Speed Greater Than Reasonable and Prudent *(Not Necessarily Over the Limit)*
24 Exceeding Special Speed Limit *(e.g., for Trucks, Buses, Cycles, or on Bridge, in School Zone, etc.)*
25 Energy Speed *(Exceeding 55 mph, Non-Pointable)*
26 Driving Too Slowly
29 Speed-Related Violations Generally

RULES OF THE ROAD – TRAFFIC SIGN & SIGNALS

31 Fail to Stop for Red Signal
32 Fail to Stop for Flashing Red
33 Violation of Turn on Red *(Fail to Stop & Yield, Yield to Pedestrians before Turning)*
34 Fail to Obey Flashing Signal *(Yellow or Red)*
35 Fail to Obey Signal Generally
36 Violate RR Grade Crossing Device/Regulations
37 Fail to Obey Stop Sign
38 Fail to Obey Yield Sign
39 Fail to Obey Traffic Control Device Generally

RULES OF THE ROAD – TURNING, YIELDING, SIGNALING

41 Turn in Violation of Traffic Control *(Disobey Signs, Turn Arrow Or Pavement Markings; This Is Not A Right-On-Red Violation)*
42 Improper Method & Position of Turn *(Too Wide, Wrong Lane)*
43 Fail to Signal for Turn or Stop
45 Fail to Yield to Emergency Vehicle
46 Fail to Yield Generally
48 Enter Intersection When Space Insufficient
49 Turn, Yield, Signaling Violations Generally

Violations Charged *(continued)*

1997-2009

RULES OF THE ROAD – WRONG SIDE, PASSING & FOLLOWING

51 Driving Wrong Way on One-Way Road
52 Driving on Left, Wrong Side of Road Generally
53 Improper, Unsafe Passing
54 Pass on Right *(Drive off Pavement to Pass)*
55 Pass Stopped School Bus
56 Fail to Give Way When Overtaken
58 Following Too Closely
59 Wrong Side, Passing, Following Violations Generally

RULES OF THE ROAD – LANE USAGE

61 Unsafe or Prohibited Lane Change
62 Improper Use of Lane *(Enter of 3-Lane Road, HOV Designated Lane)*
63 Certain Traffic to Use Right Lane *(Trucks, Slow Moving, etc.)*
66 Motorcycle Lane Violations *(More than two per Lane, Riding Between Lanes, etc.)*
67 Motorcyclist Attached to another Vehicle
69 Lane Violations Generally

NON-MOVING – LICENSE & REGISTRATION VIOLATIONS

71 Driving While License Withdrawn
72 Other Driver License Violations
73 Commercial Driver Violations
74 Vehicle Registration Violations
75 Fail to Carry Insurance Card
76 Driving Uninsured Vehicle
79 Non-Moving Violations Generally

EQUIPMENT

81 Lamp Violations
82 Brake Violations
83 Failure to Require Restraint Use *(By Self or Passenger)*
84 Motorcycle Equipment Violations *(Helmet, Special Equipment)*
85 Violation of Hazardous Cargo Regulations
86 Size, Weight, Load Violations
89 Equipment Violations Generally

OTHER VIOLATIONS

91 Parking
92 Theft, Unauthorized Use of Motor Vehicle
93 Driving Where Prohibited *(Sidewalk, Limited Access, Off Truck Route)*
98 Other Moving Violation
99 Unknown Violation

VIN Body Type (discontinued)

Definition: This data element identifies the two-character representation of this vehicle's body style.

Additional Information: This data element is derived by the VINA analysis system scanning the VIN for vehicles of model year 1966 and later that have verifiable VIN numbers. The VINA program decodes these data and partitions vehicles into three classes, passenger vehicles, trucks, and motorcycles.

This data element, formerly V116, was discontinued in 2013. See the Vindecode data file for VIN decoded data elements. Prior to 2013, this data element also appeared in the Person data file and in the Parkwork data file as PVIN_BT.

SAS Name: VIN_BT

Attribute Codes

1982-2009	*2010-2012*	
2D	2D	Passenger Vehicle Sedan 2-Door
2F	2F	Passenger Vehicle Formal Hardtop 2-Door
2H	2H	Passenger Vehicle Hatchback 2-Door
2L	2L	Passenger Vehicle Liftback 3-Door
2P	2P	Passenger Vehicle Pillard Hardtop 2-Door
2T	2T	Passenger Vehicle Hardtop 2-Door
2W	2W	Truck 2-Door Wagon/Sport Utility
2W	2W	Passenger Vehicle Wagon 2-Door
--	3B	Truck 3-Door Extended Cab/Chassis
--	3C	Truck 3-Door Extended Cab Pickup
3D	3D	Passenger Vehicle Runabout 3-Door
--	3P	Passenger Vehicle Coupe 3-Door
--	4B	Truck 4-Door Extended Cab/Chassis
--	4C	Truck 4-Door Extended Cab Pickup
4D	4D	Passenger Vehicle Sedan 4-Door
4H	4H	Passenger Vehicle Hatchback 4-Door
4L	4L	Passenger Vehicle Liftback 5-Door
4P	4P	Passenger Vehicle Pillard Hardtop 4-Door
4T	4T	Passenger Vehicle Hardtop 4-Door
4W	4W	Truck 4-Door Wagon/Sport Utility
4W	4W	Passenger Vehicle Wagon 4-Door
5D	5D	Passenger Vehicle Sedan 5-Door
8V	8V	Truck 8-Passenger Sport Van
AC	AC	Truck Auto Carrier
AM	AM	Passenger Vehicle Ambulance
AR	AR	Truck Armored Truck
AT	AT	Motorcycle All-Terrain
BU	BU	Bus
--	C4	Passenger Vehicle Coupe 4-Door
CB	CB	Truck Chassis and Cab
CB	CB	Passenger Vehicle Cab & Chassis *(Luv)*

V116 VIN Body Type *(continued)*

Attribute Codes

1982-2009	*2010-Later*	
CC	CC	Truck Conventional Cab
CG	CG	Truck Cargo Van
CH	CH	Truck Crew Chassis
CL	CL	Truck Club Chassis
CM	CM	Truck Concrete or Transit Mixer
CP	CP	Truck Crew Pickup
CP	CP	Passenger Vehicle Coupe
CR	CR	Truck Crane
CS	CS	Truck Super Cab/Chassis Pickup
CU	CU	Truck Custom Pickup
CV	CV	Truck Convertible *(Jeep Commando, Suzuki Samurai, Dodge Dakota)*
CV	CV	Passenger Vehicle Convertible
CY	CY	Truck Cargo Cutaway
DP	DP	Truck Dump
DS	DS	Truck Tractor Truck *(Diesel)*
EC	EC	Truck Extended Cargo Van
EN	EN	Motorcycle Enduro
ES	ES	Truck Extended Sport Van
EV	EV	Truck Extended Van
EW	EW	Truck Extended Window Van
FB	FB	Truck Flat-bed or Platform
FC	FC	Truck Forward Control
FT	FT	Truck Fire Truck
GG	GG	Truck Garbage or Refuse
GL	GL	Truck Gliders
GN	GN	Truck Grain
HB	HB	Passenger Vehicle Hatchback Number Doors Unknown
HO	HO	Truck Hopper
HR	HR	Passenger Vehicle Hearse
HT	HT	Passenger Vehicle Hardtop Number Doors Unknown
IC	IC	Truck Incomplete Chassis
IE	IE	Truck Incomplete Ext Van
--	IN	Passenger Vehicle Incomplete Passenger
LB	LB	Passenger Vehicle Liftback
LG	LG	Truck Logger
LL	LL	Truck Suburban & Carry-All
LM	LM	Passenger Vehicle Limousine
--	LM	Truck Limousine
MH	MH	Truck Motorized Home
MK	MK	Motorcycle Mini-Bike
MN	MM	Motorcycle Mini Moto Cross
MM	MP	Motorcycle Moped

V116 VIN Body Type *(continued)*

Attribute Codes

1982-2009	*2010-Later*	
MP	MP	Truck Multipurpose
MR	MR	Motorcycle Mini Road/Trail
MS	MS	Motorcycle Motor Scooter
MV	MV	Truck Maxi-Van
--	MW	Truck Maxi Wagon
MX	MX	Motorcycle Moto Cross
MY	MY	Truck Motorized Cutaway
MY	MY	Motorcycle Mini-Cycle
NB	NB	Passenger Vehicle Notchback
--	P2	Passenger Vehicle 2-Passenger Low Speed
--	P2	Passenger Vehicle 4-Passenger Low Speed
PC	PC	Truck Club Cab Pickup
PD	PD	Truck Parcel Delivery
PK	PK	Truck Pickup
PK	PK	Passenger Vehicle Pickup, Truck Commonly Registered Passengers
PM	PM	Truck Pickup with Camper Mounted on Bed
PN	PN	Truck Panel
PS	PS	Truck Super Cab Pickup
RC	RC	Motorcycle Racer
PN	PN	Passenger Vehicle Panel, Truck Commonly Registered as Passengers
RD	RD	Truck Roadster *(Jeep, Jeep Commando)*
RD	RD	Passenger Vehicle Roadster
RS	RS	Motorcycle Road/Street
RT	RT	Motorcycle Road/Trail
S1	S1	Truck One-Seat
S2	S2	Truck Two-Seat
SB	SB	Passenger Vehicle Sport Hatchback
SC	SC	Passenger Vehicle Sport Coupe
SD	SD	Passenger Vehicle Sedan, number doors unknown
SN	SN	Truck Step Van
SP	SP	Truck Sport Pickup
ST	ST	Truck Stake or Rack
SV	SV	Truck Sports Van
SV	SV	Passenger Vehicle Sport Van
SW	SW	Passenger Vehicle Station Wagon
SW	SW	Truck Station Wagon *(Jeep Wagoneer, etc.)*
T	T	Motorcycle Dirt
TB	TB	Truck Tilt Cab
TL	TL	Truck Tilt Tandem
TL	TL	Motorcycle Trail/Dirt
TM	TM	Truck Tandem
TN	TN	Truck Tank

V116 VIN Body Type *(continued)*

Attribute Codes

1982-2009	*2010-Later*	
TR	TR	Motorcycle Trails
TR	TR	Truck Tractor *(Gasoline)*
UT	UT	Passenger Vehicle Utility, truck commonly registered as passenger
UT	UT	Truck Utility *(Blazer, Jimmy, Scout, etc.)*
VC	VC	Truck Van Camper
VD	VD	Truck Display Van
VN	VN	Truck Van
VT	VT	Truck Vanette *(Includes Metro and Handy Van)*
VW	VW	Truck Window Van
WK	WK	Truck Tow Truck Wrecker
WW	WW	Truck Wide Wheel Wagon
WW	WW	Passenger Vehicle Wide-Wheel Wagon
XT	XT	Truck Travel-all
YY	YY	Truck Cutaway
99	99	Unknown

VIN Length (discontinued)

Definition: This data element identifies the actual length of the VIN for this vehicle.

Additional Information: This data element is derived by the VINA analysis system scanning the VIN for vehicles of model year 1966 and later that have verifiable VIN numbers.

This data element, formerly V125, was discontinued in 2013. See the Vindecode data file for VIN decoded data elements. Prior to 2013, this data element also appeared in the Parkwork data file as PVIN_LNGT.

SAS Name: VIN_LNGT

Attribute Codes

1981-2012

1-17	Actual Value
99	Unknown VIN Length

VIN Make (discontinued)

Definition: This data element identifies the National Crime Information Center (NCIC) Standard Make Abbreviation for this vehicle.

Additional Information: This data element is derived by the VINA analysis system scanning the VIN for vehicles of model year 1966 and later that have verifiable VIN numbers. For a listing of these codes please refer to the Polk VINtelligence Manual.

This data element, formerly V114, was discontinued in 2013. See the Vindecode data file for VIN decoded data elements. Prior to 2013, this data element also appeared in the Person data file and in the Parkwork data file as PVINMAKE.

SAS Name: VINMAKE

Attribute Codes

2010-2012

xxxx 4-Character Make Abbreviation

VIN Model (discontinued)

Definition: This data element identifies the VIN model for this vehicle obtained from the VINA program.

Additional Information: This data element is derived by the VINA analysis system scanning the VIN for vehicles of model year 1966 and later that have verifiable VIN numbers. For a listing of these codes please refer to the Polk VINtelligence Manual.

If one needs to select cars based on make and model the data element of choice is VINA_MOD rather than MAK_MOD.

The VINA_MOD is only unique within the vehicle make. That is, different makes of vehicles can have the same VINA_MOD. To ensure that the correct vehicle is selected the data element MAKE or VIN_MAKE (available 2010 and later) must be used in conjunction with VINA_MOD. The data elements VINA_MOD, MAKE and VINMAKE are in the Vehicle data file and the Person data file.

This data element, formerly V115, was discontinued in 2013. See the Vindecode data file for VIN decoded data elements. Prior to 2013, this data element also appeared in the Person data file and in the Parkwork data file as PVINA_MOD.

SAS Name: VINA_MOD

Attribute Codes

1975-2012

xxx 3-Character Model *(Series)* Abbreviation

VIN Model Year (discontinued)

Definition: This data element identifies the model year of this vehicle.

Additional Information: This data element is derived by the VINA analysis system scanning the VIN for vehicles of model year 1966 and later that have verifiable VIN numbers.

This data element, formerly V117, was discontinued in 2013. See the Vindecode data file for VIN decoded data elements. Prior to 2013, this data element also appeared in the Person data file and in the Parkwork data file as PVINMODYR.

SAS Name: VINMODYR

Attribute Codes

2010-2012

xx 2-Digit Model Year

VIN Truck Series (discontinued)

Definition: This data element identifies the model (series) of this truck.

Additional Information: This data element is derived by the VINA analysis system scanning the VIN for vehicles of model year 1966 and later that have verifiable VIN numbers. For a listing of these codes please refer to the Polk VINtelligence Manual.

This data element, formerly V122, was discontinued in 2013. See the Vindecode data file for VIN decoded data elements. Prior to 2013, this data element also appeared in the Person data file and in the Parkwork data file as PSER_TR.

SAS Name: SER_TR

Attribute Codes

1975-2012

xxx 3-Character Model *(Series)* Abbreviation

VIN Vehicle Type (discontinued)

Definition: This data element identifies the basic vehicle type of his vehicle from the VINA program.

Additional Information: This data element is derived by the VINA analysis system scanning the VIN for vehicles of model year 1966 and later that have verifiable VIN numbers.

This data element, formerly V113, was discontinued in 2013. See the Vindecode data file for VIN decoded data elements. Prior to 2013, this data element also appeared in the Person data file and in the Parkwork data file as PVINTYPE.

SAS Name: VINTYPE

Attribute Codes

2010-2012

P	Passenger Vehicle
T	Truck
M	Motorcycle
U	Unknown

Wheelbase Short (discontinued)

Definition: This data element identifies the shortest wheelbase respectively for the manufactured model of this vehicle.

Additional Information: This data element is derived by the VINA analysis system scanning the VIN for vehicles of model year 1966 and later that have verifiable VIN numbers.

This data element, formerly V119, was discontinued in 2013. See the Vindecode data file for VIN decoded data elements. Prior to 2013, this data element also appeared in the Person data file and in the Parkwork data file as PWHLBS_SH.

SAS Name: WHLBS_SH

Attribute Codes

1975-2012

0000	Value Not Available from the VINA Program
1-9998	Actual Value *(in)*
9999	Value Not Coded

Wheelbase Long (discontinued)

Definition: This data element identifies the longest wheelbase respectively for the manufactured model of this vehicle.

Additional Information: This data element is derived by the VINA analysis system scanning the VIN for vehicles of model year 1966 and later that have verifiable VIN numbers.

This data element, formerly V120, was discontinued in 2013. See the Vindecode data file for VIN decoded data elements. Prior to 2013, this data element also appeared in the Person data file and in the Parkwork data file as PWHLBS_LG.

SAS Name: WHLBS_LG

Attribute Codes

1975-2012

0000	Value Not Available from the VINA Program
1-9998	Actual Value *(in)*
9999	Value Not Coded

The PERSON Data File

The Person data file includes motorist and non-motorist data. It contains the data elements ST_CASE, STATE, VEH_NO, and PER_NO, which are described in the beginning of the Data Element Definitions and Codes section. ST_CASE, VEH_NO, and PER_NO are the unique identifiers for each record. ST_CASE and VEH_NO should be used to merge the Person data file with the Vehicle data file. ST_CASE, VEH_NO, and PER_NO should be used to merge the Person data file with other person-level data files. The Person data file also contains the data elements on the following pages.

In the Person data file, motor vehicle occupants are PER_TYPE = 1, 2, 3, 9. Motor vehicle occupants have valid vehicle numbers. Non-motor vehicle occupants are PER_TYPE = 4, 5, 6, 7, 8, 10 or 19. VEH_NO = 0 for non-motor vehicle occupants.

P5/NM5 Age

Definition: This data element identifies this person's age at the time of the crash, in years, with respect to their last birthday.

Additional Information:

SAS Name: AGE

Attribute Codes

1975-2008

00	Up to One Year
01-96	Age of the Individual in Years
97	97 Years Old or Older
99	Unknown

2009	***2010-Later***	
000	000	Less than One Year
001-120	001-120	Age of the Individual in Years
--	998	Not Reported
999	999	Unknown

P6/NM6 Sex

Definition: This data element identifies the sex of this person involved in the crash.

Additional Information: From 1975 to 1981, if no information was known about the hit-and-run vehicle and/or driver, then neither the vehicle form nor the driver form were filled out and were not counted in the FARS census. Starting in 1982 both a vehicle and a driver form were filled out and the data were identified as unknown. This is why there were approximately only 20 to 40 drivers with unknown sex listed in the FARS data file from 1975 to 1981 and 700 to 1000 drivers with unknown sex from 1982 on.

On March 22, 1995, a quick review of the 1994 Annual Report File revealed that of the 768 persons in the 1994 data file with unknown sex; over 90 percent were involved in hit-and-run crashes.

SAS Name: SEX

Attribute Codes

1975-2009	*2010-Later*	
1	1	Male
2	2	Female
--	8	Not Reported
9	9	Unknown

P7/NM7 Person Type

Definition: This data element describes the role of this person involved in the crash.

Additional Information:

SAS Name: PER_TYP

Attribute Codes

1975-1981

1 Driver
2 Passenger
3 Non-Motorist: Pedestrian
4 Non-Motorist: Pedalcyclist
5 Non-Motorist: Occupant of Non-Traffic-Unit Vehicle
8 Non-Motorist: Other or Unknown
9 Occupant: Unknown Type

1982-1993

1 Driver of a Motor Vehicle in Transport
2 Passenger of a Motor Vehicle in Transport
3 Occupant of a Motor Vehicle Not in Transport
4 Occupant of a Non-Motor Vehicle Transport Device *(e.g., Horse and Buggy)*
5 Non-Occupant Pedestrian
6 Non-Occupant Bicyclist
7 Non-Occupant Other Cyclist
8 Non-Occupant Other or Unknown
9 Unknown Occupant Type in a Motor Vehicle in Transport

1994-2009	***2010***	***2011-Later***	
01	01	01	Driver of a Motor Vehicle In-Transport
02	02	02	Passenger of a Motor Vehicle In-Transport
03	03	03	Occupant of a Motor Vehicle Not In-Transport
04	04	04	Occupant of a Non-Motor Vehicle Transport Device
05	05	05	Pedestrian
06	06	06	Bicyclist
07	07	07	Other Cyclist
08	--	--	Other Pedestrian *(Includes Persons on Personal Conveyances, 1994-2006)*
08	08	08	Person on Personal Conveyances *(Since 2007)*
09	09	09	Unknown Occupant Type in a Motor Vehicle In-Transport
10	10	10	Persons In/On Buildings *(Since 2007)*
19	19	19	Unknown Type of Non-Motorist
--	88	--	Not Reported
99	--	--	Unknown

More Information on Person Type

P8/NM8 Injury Severity

Definition: This data element describes the severity of the injury to this person in the crash using the KABCO scale.

Additional Information: It is important to realize that some States do not always collect data on persons who were in a crash but were not injured. If the analysis being performed depends on non-injured occupants -- for example some paired comparisons -- check the data at the State level.

SAS Name: INJ_SEV

Attribute Codes

1975-2012	*2013-Later*	
0	--	No Injury *(O)*
--	0	No Apparent Injury *(O)*
1	1	Possible Injury *(C)*
2	--	Non-Incapacitating Evident Injury *(B)*
--	2	Suspected Minor Injury *(B)*
3	--	Incapacitating Injury *(A)*
--	3	Suspected Serious Injury *(A)*
4	4	Fatal Injury *(K)*
5	5	Injured, Severity Unknown *(U) (Since 1978)*
6	6	Died Prior to Crash
8	8	Not Reported *(2010 Only)*
9	9	Unknown

P9 Seating Position

Definition: This data element identifies the location of this person in or on the vehicle.

Additional Information:

SAS Name: SEAT_POS

Attribute Codes

1975-1981

00	Non-Motorist
01	Front Seat – Left Side *(Driver's Side)*
02	Front Seat – Middle
03	Front Seat – Right Side
04	Second Seat – Left Side *(Driver's Side)*
05	Second Seat – Middle
06	Second Seat – Right Side
07	Third Seat – Left Side *(Driver's Side)*
08	Third Seat – Middle
09	Third Seat – Right Side
10	Front Seat – Other
11	Second Seat – Other
12	Third Seat – Other
13	Other Passenger
14	Cab Sleeper
15	Vehicle Exterior
99	Unknown

1982-2009	***2010-Later***	
00	--	Non-Motorist *(1982-2004)*
00	00	Not a Motor Vehicle Occupant *(2005-Later)*
11	11	Front Seat – Left Side *(Driver's Side)*
12	12	Front Seat – Middle
13	13	Front Seat – Right Side
18	18	Front Seat – Other
19	19	Front Seat – Unknown
21	21	Second Seat – Left Side
22	22	Second Seat – Middle
23	23	Second Seat – Right Side
28	28	Second Seat – Other
29	29	Second Seat – Unknown
31	31	Third Seat – Left Side
32	32	Third Seat – Middle
33	33	Third Seat – Right Side
38	38	Third Seat – Other
39	39	Third Seat – Unknown

P9 Seating Position *(continued)*

Attribute Codes

1982-2009	*2010-Later*	
41	41	Fourth Seat – Left Side
42	42	Fourth Seat – Middle
43	43	Fourth Seat – Right Side
48	48	Fourth Seat – Other
49	49	Fourth Seat – Unknown
50	50	Sleeper Section of Cab *(Truck)*
51	--	Other Passenger In Enclosed Passenger or Cargo Area [Includes Passengers In 5th Row Of 15-Seat, 5-Row Vans] [Includes Injured Full-Size-Bus Occupants] *(2002-2008)*
51	51	Other Passenger in Enclosed Passenger or Cargo Area *(Since 2009)*
52	52	Other Passenger in Unenclosed Passenger or Cargo Area
53	53	Other Passenger in Passenger or Cargo Area, Unknown Whether Or Not Enclosed
54	54	Trailing Unit
55	55	Riding on Vehicle Exterior
--	98	Not Reported
99	99	Unknown

More Information on Seat Position

P10 Restraint System/Helmet Use

Definition: This data element records the restraint equipment in use by the occupant, or the helmet in use by a motorcyclist, at the time of the crash.

Additional Information: Bicycle helmets are sometimes worn while riding a variety of personal conveyances.

SAS Name: REST_USE

Attribute Codes

1991-1993

0	None Used – Vehicle Occupant/Not Applicable-Non-Motorist
1	Shoulder Belt
2	Lap Belt
3	Lap and Shoulder Belt
4	Child Safety Seat
5	Motorcycle Helmet
8	Restraint Used – Type Unknown or Other Including Other Helmet
9	Unknown

1994-2009	***2010-2012***	***2013-Later***	
00	--	--	None Used- Vehicle Occupant; Not Applicable *(1994-2004)*
00	--	--	None Used/Not Applicable – Not a Motor Vehicle Occupant *(Since 2005)*
--	00	00	Not Applicable
01	01	01	Shoulder Belt Only Used
02	02	02	Lap Belt Only Used
03	03	03	Lap and Shoulder Belt Used
04	--	--	Child Safety Seat *(1994-2007)*
04	--	--	Child Safety Seat/Booster Seat – Type Unknown/Not Reported *(Since 2008)*
--	04	04	Child Restraint Type Unknown
05	--	--	Motorcycle Helmet
--	05	05	DOT-Compliant Motorcycle Helmet
06	--	--	Bicycle Helmet
--	07	--	None Used – Motor Vehicle Occupant
--	--	07	None Used
08	08	08	Restraint Used – Type Unknown
10	10	10	Child Restraint System – Forward Facing *(Since 2008)*
11	11	11	Child Restraint System – Rear Facing *(Since 2008)*
12	--	--	Booster Seat with Lap/Shoulder Belt Used Properly *(Since 2008)*
--	12	12	Booster Seat
13	--	--	Safety Belt Used Improperly
14	--	--	Child Safety Seat Used Improperly *(1994-2007)*
14	--	--	Child Safety Seat/Booster Seat Used Improperly *(2008-2009)*
15	--	--	Helmets Used Improperly
--	16	--	Other Helmet
--	--	16	Helmet, Other than DOT-Compliant Motorcycle Helmet

P10 Restraint System/Helmet Use *(continued)*

1994-2009	*2010-2012*	*2013-Later*	
--	17	17	No Helmet
--	--	19	Helmet, Unknown if DOT-Compliant
--	--	29	Unknown if Helmet Worn
--	96	96	Not a Motor Vehicle Occupant
--	97	97	Other
--	98	98	Not Reported
99	99	99	Unknown

More Information on Restraint Use

P11 Indication of Misuse of Restraint System/Helmet

Definition: This data element indicates any misuse of the restraint system or helmet used by this person.

Additional Information:

SAS Name: REST_MIS

Attribute Codes

2010-Later

0 No
1 Yes
8 Not a Motor Vehicle Occupant

P12 Air Bag Deployed

Definition: This data element records air bag availability and deployment for this person as reported in the case materials.

Additional Information: This data element is designed to collect both air bag availability and deployment for each occupied seat position. Variation in the presentation of the source data on the state crash report forms and the selections coded on the PAR may produce unlikely combinations or missing data. For example:

1. If the seat position does not have an air bag at the time of manufacture, but the information on the PAR indicates an air bag was available or deployed, the information on the PAR may have taken precedence.
2. If the seat position has an air bag installed at the time of manufacture and the PAR indicates there is no air bag available, then the PAR information may have taken precedence.

SAS Name: AIR_BAG

Attribute Codes

1991-1997

0 Non-Motorist
3 Deployed Air Bag
4 Non-Deployed Air Bag
9 Unknown or Not Applicable

1998-2008

00 Non-Motorist *(Not a Motor Vehicle Occupant, Since 2005)*

DEPLOYED (FOR THIS SEAT)

01 Deployed Air Bag From Front *(1998-2006)*
01 From Front *(Steering Wheel, Dashboard, Since 2007)*
02 Deployed Air Bag From Side *(1998-2006)*
02 From Side *(Door, Seat, Canopy, Since 2007)*
07 Deployed Air Bag Other Direction *(1998-2006)*
07 From Other Direction *(Knee, Airbelt, etc, Since 2007)*
08 Deployed Air Bag Multiple Directions
09 Deployed Air Bag Direction Unknown

NOT DEPLOYED (FOR THIS SEAT)

20 Air Bag Available but Not Deployed for This Seat
28 Air Bag Available and Switched Off

UNKNOWN IF DEPLOYED

29 Air Bag Available, Deployment Not Known for This Seat

NOT AVAILABLE

30 Air Bag Not Available for This Seat
31 Air Bag Previously Deployed and Not Replaced
32 Air Bag Disabled or Removed
99 Unknown *(If Airbag Available)*

P12 Air Bag Deployed *(continued)*

Attribute Codes

2009	*2010-Later*	
00	--	Not a Motor Vehicle Occupant
--	00	Not Applicable
01	01	Deployed: Front
02	02	Deployed: Side *(Door, Seatback)*
03	03	Deployed: Curtain *(Roof)*
07	07	Deployed: Other *(Knee, Air Belt, etc.)*
08	08	Deployed: Combination
09	09	Deployed: Unknown Location
20	20	Not Deployed
28	28	Switched Off
--	97	Not a Motor Vehicle Occupant
--	98	Not Reported
99	99	Deployment Unknown

P13 Ejection

Definition: This data element describes the ejection status and degree of ejection for this person, excluding motorcycle occupants.

Additional Information: In the mid 1970's there were a large number of people coded as ejection unknown and a corresponding small number of people coded as not ejected. However, the totally ejected and partially ejected counts are the same magnitude as in later years.

Starting in 2011, "Not Applicable" includes people not in motor vehicles (i.e., pedestrians, bicyclists, etc.)

SAS Name: EJECTION

Attribute Codes

1975-2006

0	Not Ejected or Not Applicable
1	Totally Ejected
2	Partially Ejected
9	Unknown

2007-2009	***2010-Later***	
0	0	Not Ejected
1	1	Totally Ejected
2	2	Partially Ejected
3	3	Ejected – Unknown Degree *(Since 2008)*
--	7	Not Reported
8	8	Not Applicable
9	--	Unknown *(2007-2008)*
9	9	Unknown if Ejected *(Since 2009)*

More Information on Ejection

P14 Ejection Path

Definition: This data element identifies the path by which this person was ejected from the vehicle.

Additional Information:

SAS Name: EJ_PATH

Attribute Codes

1991-Later

0 Not Ejected/Not Applicable
1 Through Side Door Opening *(All Side Doors)*
2 Through Side Window *(All Side Windows, Bus Side Windows)*
3 Through Windshield *(Front Windshield Only)*
4 Through Back Window *(Standard Rear Window, Back Window of Bronco, Van)*
5 Through Back Door/Tailgate Opening *(Station Wagon Tailgate, Back Door of Truck, Back Door of Bronco, Van)*
6 Through Roof Opening *(Sun Roof, Convertible Top Down, T-Top, Targa Top)*
7 Through Roof *(Convertible Top Up)*
8 Other Path *(e.g., Back of Pickup Truck, Torn-Off Roof, Car Cut in Half)*
9 Unknown/Unknown Path

P15 Extrication

Definition: This data element identifies if equipment or other force was used to remove this person from the vehicle.

Additional Information: In Massachusetts, if an occupant is not injured, data for Protection system use and ejection are not coded on the PAR.

From 1975 to 1976 the EXTRICAT and EJECTION data elements were combined in a single field. The data files were changed in 1977 to the current format. In 1975 and 1976 there are fewer persons identified as not extricated than in later years. Both the count of extricated persons and unknowns seem high for these years. From 1977 to 1981 there was not an edit check to prevent one coding an occupant as being both ejected and extricated. There are 69, 48, 83, 98, and 88 persons coded as both totally ejected and extricated in the 1977, 1978, 1979, 1980, and 1981 respectively.

SAS Name: EXTRICAT

Attribute Codes

1975-Later

0 Not Extricated/Not Applicable
1 Extricated
9 Unknown

P16/NM15 Police Reported Alcohol Involvement

Definition: This data element records whether alcohol was involved for this person and reflects the judgment of law enforcement.

Additional Information: This data element does not indicate that alcohol was a cause of the crash. If a PAR indicates that opened or unopened alcohol bottles were found in the vehicle, then this information does not by itself constitute involvement.

SAS Name: DRINKING

Attribute Codes

1975-Later

0 No *(Alcohol Not Involved)*
1 Yes *(Alcohol Involved)*
8 Not Reported
9 Unknown *(Police Reported)*

More Information on Alcohol

P17/NM16 Method of Alcohol Determination by Police

Definition: This data element describes the method by which the police made the determination as to whether alcohol was involved for this person.

Additional Information: 1975 to 1979 data on the type of blood alcohol test were collected, but this data has since been removed from the analysis data files.

SAS Name: ALC_DET

Attribute Codes

1987-Later

1 Evidential Test *(Breath, Blood, Urine)*
2 Preliminary Breath Test *(PBT)*
3 Behavioral
4 Passive Alcohol Sensor *(PAS)*
5 Observed
8 Other *(e.g., Saliva Test)*
9 Not Reported

P18/NM17 Alcohol Test

P18A/NM17A Alcohol Test Status

Definition: This data element identifies whether an alcohol test was given to this person.

Additional Information:

SAS Name: **ALC_STATUS**

Attribute Codes

2009	*2010-Later*	
0	0	Test Not Given
1	1	Test Refused
2	2	Test Given
--	8	Not Reported
9	--	Unknown if Tested/Not Reported
--	9	Unknown if Tested

P18B/NM17B Alcohol Test Type

Definition: This data element identifies the type of alcohol test that was given to this person.

Additional Information:

SAS Name: ATST_TYP

Attribute Codes

1998-2003

0	Not Tested for Alcohol
1	Whole Blood
2	Breath "BAC"
3	Urine
4	Vitreous
5	Blood Plasma/Serum
6	Blood Clot
7	Liver
8	Other Test Type
9	Unknown/Not Reported *(Since 2001)*

2004-2009	***2010-Later***	
00	00	Not Tested for Alcohol
01	01	Blood Test
02	02	Breathalyzer "BAC"
03	03	Urine
04	04	Vitreous
05	05	Blood Plasma/Serum
06	06	Blood Clot
07	07	Liver
08	08	Other Test Type
09	--	Unknown/Not Reported
10	10	Preliminary Breath Test *(PBT)*
--	95	Not Reported
98	--	Positive Reading with No Actual Value *(2006-2008)*
98	98	Unknown Test Type *(Since 2009)*
99	--	Unknown if Tested/Not Reported *(2009 Only)*
--	99	Unknown if Tested

P18C/NM17C Alcohol Test Result

Definition: This data element identifies the alcohol test result for this person.

Additional Information: A value of 10 is a BAC of .10. The decimal is implied before first digit. The BAC is expressed in grams per deciliter or a clinical evaluation of the same.

SAS Name: **TEST_RES** ***1975-1990***
ALC_RES ***1991-Later***

Attribute Codes

1975-1990

00-94	Actual Value of BAC Test
95	Test Refused
96	None Given
97	AC Test Performed, Results Unknown
99	Unknown

1991-2009	***2010-Later***	
00-93	00-93	Actual Value of BAC Test
94	94	.94 or Greater *(The value 94 should be interpreted as .94 or greater, since 1995)*
95	--	Test Refused *(1991-2008)*
--	95	Not Reported
96	96	None Given
97	97	AC Test Performed, Results Unknown
98	98	PBT Positive Reading with No Actual Value *(Since 2004)*
99	--	Unknown if Tested/Not Reported
--	99	Unknown if Tested

P19/NM18 Police Reported Drug Involvement

Definition: This data element records whether drugs were involved for this person and reflects the judgment of law enforcement.

Additional Information:

SAS Name: DRUGS

Attribute Codes

1991-Later

0 No *(Drugs Not Involved)*
1 Yes *(Drugs Involved)*
8 Not Reported
9 Unknown *(Police Reported)*

P20/NM19 Method of Drug Determination by Police

Definition: This data element identifies the method by which the police made the determination as to whether drugs were involved for this person.

Additional Information:

SAS Name: **TOXCLGY** ***1987-1990***
DRUG_DET ***1991-Later***

Attribute Codes

1987-1990

0 No Blood Test Given

BLOOD TEST GIVEN, RESULTS KNOWN

1 No Drugs Reported
2 Drugs Reported *(Excluding Nicotine, Aspirin)*
3 Not tested for Drugs

BLOOD TEST GIVEN, RESULTS UNKNOWN

7 Test for Drugs, Results, Unknown
8 Unknown if Tested for Drugs
9 Unknown if Drug Test Given

1991-Later

1 Evidential Test *(Blood, Urine)*
2 Drug Recognition Technician *(DRT)* Determination
3 Behavioral
7 Other
8 Not Reported

P21/NM20 Drug Test

P21A/NM20A Drug Test Status

Definition: This data element identifies whether a drug test was given to this person.

Additional Information:

SAS Name: **DSTATUS**

Attribute Codes

2009	*2010-Later*	
0	0	Test Not Given
1	1	Test Refused
2	2	Test Given
--	8	Not Reported
9	--	Unknown if Tested/Not Reported
--	9	Unknown if Tested

P21B/NM20B Drug Test Type

Definition: This data element identifies the type of drug test that was given to this person.

Additional Information:

SAS Name: **DRUGTEST** *1991-1992*
DRUGTST1, **DRUGTST2**, **DRUGTST3** *1993-Later*

Attribute Codes

1991-1992	*1993-2009*	*2010-Later*	
0	0	0	Test Not Given
1	1	1	Blood Test
2	2	2	Urine Test
--	3	3	Both Blood and Urine Tests
--	--	6	Not Reported
7	7	7	Unknown Test Type
8	8	8	Other Test Type
--	9	--	Unknown if Tested/Not Reported
9	--	9	Unknown if Tested

P21C/NM20C Drug Test Result

Definition: This data element identifies the drug test result for this person.

Additional Information: The FARS analyst may have used any of the three data elements to code a result of a drug test. One must test all three data elements to ensure that the selected result is included. *See Specific Drug Listing in the FARS/NASS GES Coding and Validation Manual.

SAS Name: **DRUG_RES** ***1991-1992***
DRUGRES1, DRUGRES2, DRUGRES3 ***1993-Later***

Attribute Codes

1991-1992

00	Not Tested for Drugs
01	No Drugs Reported
02	Narcotic
03	Depressant
04	Stimulant
05	Hallucinogen
06	Cannabinol
07	Phencyclidine *(PCP)*
08	Inhalant
09	Multiple Drugs *(From Data elements 02 to 08)*
10	Other Drugs *(All Other Drugs Excluding Nicotine, Aspirin, Alcohol)*
97	Tested for Drugs, Results Unknown
98	Tested for Drugs, Drugs Found, Type Unknown
99	Unknown if Tested for Drugs

1993-2009	***2010-Later***	
000	000	Not Tested for Drugs
001	001	No Drugs Reported/Negative
--	095	Not Reported
100-295	100-295	Narcotic*
300-395	300-395	Depressant*
400-495	400-495	Stimulant*
500-595	500-595	Hallucinogen*
600-695	600-695	Cannabinoid*
700-795	700-795	Phencyclidine *(PCP)* *
800-895	800-895	Anabolic Steroid*
900-995	900-995	Inhalant*
996	996	Other Drugs
997	997	Tested for Drugs, Results Unknown
998	998	Tested for Drugs, Drugs Found, Type Unknown/Positive
999	--	Unknown if Tested/Not Reported
--	999	Unknown if Tested

P22/NM21 Transported to First Treatment Facility

Definition: This data element identifies the mode of transportation to a hospital or medical facility provided for this person.

Additional Information: Prior to 2008 this data element was called "Taken to Hospital or Treatment Facility." From 2008 to 2009 this data element was called "Transported for Treatment by." From 2010 to 2012 this data element was called "Transported to Medical Facility By."

This field exists in the 1975 and 1976 data file, but is not initialized, i.e., it has no values.

SAS Name: HOSPITAL

Attribute Codes

1977-2000	*2001-2006*	*2007-2009*	*2010-Later*	
0	0	--	--	No
--	--	0	0	Not Transported
1	1	--	--	Yes
--	--	1	--	Yes, EMS
--	--	--	1	EMS Air
--	--	2	--	Yes, Law Enforcement
--	--	--	2	Law Enforcement
--	--	3	--	Yes, Other
--	--	--	3	EMS Unknown Mode
--	--	4	--	Yes, Transported by Unknown Source
--	--	--	4	Transported Unknown Source
--	--	--	5	EMS Ground
--	--	--	6	Other
7	--	--	--	Died at the Scene *(1999-2000)*
8	--	--	--	Died En Route *(1999-2000)*
--	--	--	--	Not Reported
9	9	9	9	Unknown

P23/NM22 Died at Scene/En Route

Definition: This data element identifies if this person died at the scene of the crash or en route to a hospital/medical facility.

Additional Information:

SAS Name: DOA

Attribute Codes

2001-Later

0 Not Applicable
7 Died at Scene
8 Died En Route
9 Unknown

P24/NM23 Death Date

P24A/NM23A Month of Death

Definition: This data element records the month of this person's death.

Additional Information:

SAS Name: **DEATH_MO**

Attribute Codes

1975-2007	*2008-Later*	
00	88	Not Applicable *(Non-Fatal)*
01	01	January
02	02	February
03	03	March
04	04	April
05	05	May
06	06	June
07	07	July
08	08	August
09	09	September
10	10	October
11	11	November
12	12	December
--	99	Unknown *(Except 2009)*

P24B/NM23B Day of Death

Definition: This data element records the day of the month of this person's death.

Additional Information:

SAS Name: **DEATH_DA**

Attribute Codes

1975-2008	*2009-Later*	
00	88	Not Applicable *(Non-Fatal)*
01-31	01-31	Day of the Month of the Death
99	99	Unknown *(Since 2008)*

P24C/NM23C Year of Death

Definition: This data element records the year of this person's death.

Additional Information: A person can die the year after the crash year.

SAS Name: DEATH_YR

Attribute Codes

1975-1997	*1998-2008*	*2009-Later*	
--	0000	8888	Not Applicable *(Non-Fatal)*
xx	xxxx	xxxx	Year of the Death
99	9999	9999	Unknown

P25/NM24 Death Time

Definition: This data element records the hour and minute of this person's death utilizing the 24-hour clock format.

Additional Information: four digits; DEATH_HR followed by DEATH_MN, e.g., Valid Military Times 0643 for 6:43 a.m.

SAS Name: DEATH_TM

Attribute Codes

1975-2008	*2009-Later*	
2400	0000	For Midnight
0001-2359	0001-2359	Time of Death in HHMM format
--	8888	Not Applicable *(Non-Fatal)*
9999	9999	Unknown

P25A/NM24A Hour of Death

Definition: This data element records the hour of this person's death utilizing the 24-hour clock format.

Additional Information:

SAS Name: DEATH_HR

Attribute Codes

1975-2008	*2009-Later*	
00-24	00-23	Valid Military Times
--	88	Not Applicable
99	99	Unknown

P25B/NM24B Minute of Death

Definition: This data element records the minutes after the hour of this person's death.

Additional Information:

SAS Name: DEATH_MN

Attribute Codes

1975-2008	*2009-Later*	
00-59	00-59	Valid Military Times
--	88	Not Applicable
99	99	Unknown

P26/NM25 Related Factors- Person Level

Definition: This data element records factors related to motor vehicle occupants other than drivers expressed by the investigating officer.

Additional Information: There are also crash-level related factors in the Accident data file (CF1, CF2, and CF3), vehicle-level related factors in the Vehicle data file (VEH_SC1 and VEH_SC2), and driver-level related factors, also in the Vehicle data file (DR_SF1, DR_SF2, DR_SF3 and DR_SF4).

The FARS analyst may have used any of the three data elements to code a related factor. One must test all three data elements to ensure that the selected related factor is included.

Person-related factors for all drivers are coded 00. Person-related factors for non-drivers can have non-zero values as listed below.

For 1975 to 1981, values 02 to 06 correspond to 01 to 05 for the 1982 to 2009 data. Values of 20 and higher correspond directly the same values for 1982 to 2009.

SAS Name: **P_CF1, P_CF2, P_CF3** ***1975-2009***
P_SF1, P_SF2, P_SF3 ***2010-Later***

Attribute Codes

1975-1981

00 Not Applicable – Driver/None – All Other Persons
01 Physical Impairments
02 Not Visible
03 Darting or Running into Road
04 Improper Crossing of Roadway or Intersection
05 Walking/Riding With or Against Traffic, Playing, Working, Sitting, Lying, Standing, etc., in Roadway
06 Interfering with Driver *(Since 1976)*

NON-MOTOR-VEHICLE-OPERATOR-RELATED FACTORS:

20 Leaving Vehicle Unattended in Roadway
21 Overloading or Improper Loading of Vehicle with Passengers or Cargo
22 Towing or Pushing Vehicle Improperly
23 Failing to Have Lights on When Required
24 Operating Without Required Equipment
25 Creating Unlawful Noise or Using Equipment Prohibited by Law
26 Following Improperly
27 Improper or Erratic Lane-Changing
28 Failure to Keep in Proper Lane or Running off Road
29 Illegal Driving on Road Shoulder, in Ditch, on Sidewalk, on Median
30 Making Improper Entry to or Exit from Trafficway

P26/NM25 Related Factors- Person Level *(continued)*

Attribute Codes

1975-1981

33 Passing Where Prohibited by Posted Signs, Pavement Markings, Hill, or Curve, or School Bus Displaying Warning Not to Pass
34 Passing on Wrong Side
35 Passing with Insufficient Distance or Inadequate Visibility or Failing to Yield to Overtaking Vehicle
36 Operating the Vehicle in Other Erratic, Reckless, Careless or Negligent Manner
38 Failure to Yield Right of Way
39 Failure to Obey Traffic Signs, Traffic Control Devices or Traffic Officers, Failure to Observe Safety Zone
40 Passing Through or Around Barrier Positioned to Prohibit or Channel Traffic
41 Failure to Observe Warnings or Instructions on Vehicles Displaying Them
42 Failure to Signal Intentions
43 Giving Wrong Signal
44 Driving Too Fast for Conditions or in Excess of Posted Speed Limit
45 Driving Less Than Posted Maximum
46 Operating at Erratic or Suddenly Changing Speeds
47 Making Right Turn from Left Turn Lane or Making Left Turn from Right Turn Lane
48 Making Improper Turn
49 Driving Wrong Way on One-Way Roadway
50 Driving on Wrong Side of Road
51 Operator Inexperience
52 Unfamiliar with Roadway
99 Unknown

1982-2009	***2010-Later***	
00	00	None/Not Applicable-Driver
01	--	Not Visible
02	--	Darting, Running or Stumbling *(Since 1995)* Into Roadway
03	--	Improper Crossing or Roadway or Intersection
04	--	Walking/Riding With or Against Traffic, Playing, Working, Sitting, Lying, Standing Etc. In Roadway
05	05	Interfering With Driver
06	--	Ill, Passed Out *(Since 1995)*/Blackout
07	--	Emotional *(e.g., Depression, Angry, Disputed)*
08	08	Mentally Challenged *(Since 1995)*
09	09	Construction/Maintenance/Utility Worker *(Since 1995)* Highway Department, Contractor, Utility Company Personnel, etc.
10	--	Inattentive
11	--	Walking With Cane or Crutches
12	--	Restricted to Wheelchair
13	--	Paraplegic *(1982-1994)*
13	13	Motorized Wheelchair Rider

P26/NM25 Related Factors- Person Level *(continued)*

Attribute Codes

1982-2009	*2010-Later*	
14	--	Impaired Due to Previous Injury
15	--	Deaf *(1982-1994)*
15	--	Under the Influence of Alcohol, Drugs, or Medication *(Since 2008)*
16	--	Blind
17	--	Other Physical Impairment
18	18	Mother of Dead Fetus *(1982-2010)*
--	18	Mother of Dead Fetus/Mother of Infant Born Post Crash *(Since 2011)*
19	--	Pedestrian
NON-MOTOR-VEHICLE-OPERATOR-RELATED FACTORS:		
20	--	Leaving Vehicle Unattended in Roadway *(1982-1994)*
20	--	Running off Road *(2000-2001)*
21	21	Overloading or Improper Loading of Vehicle with Passengers or Cargo
22	--	Towing or Pushing Vehicle Improperly *(1982-2003)*
23	--	Failing to [Dim Lights or, Since 1995] Have Lights on When Required
24	--	Operating Without Required Equipment
25	--	Creating Unlawful Noise or Using Equipment Prohibited by Law *(1982-2002)*
26	26	Following Improperly
27	--	Improper or Erratic Lane Changing
28	--	Failure to Keep in Proper Lane or Running off Road *(1982-1999)*
28	28	Failure to Keep in Proper Lane *(Since 2000)*
29	29	Illegal Driving on Road Shoulder, in Ditch, on Sidewalk, on Median
30	--	Making Improper Entry to or Exit from Trafficway
32	32	Opening Vehicle Closure into Moving Traffic or While Vehicle is in Motion *(Since 2001)*
33	33	Passing where Prohibited by Posted Signs, Pavement Markings, Hill or Curve, or School Bus Displaying Warning not to Pass Line
34	--	Passing on Wrong Side
35	--	Passing with Insufficient Distance or Inadequate Visibility or Failing to Yield to Overtaking Vehicle
36	--	Operating the Vehicle in Other Erratic, Reckless, Careless or Negligent Manner *(or Operating at Erratic or Suddenly Changing Speeds, Since 1995)*
37	37	Traveling on Prohibited Trafficway *(Since 1995)*
38	--	Failure to Yield Right of Way
39	--	Failure to Obey Actual Traffic Signs, Traffic Control Devices or Traffic Officers; Failure to Obey Safety Zone Traffic Laws
40	40	Passing Through or Around Barrier Positioned to Prohibit or Channel Traffic
41	41	Failure to Observe Warnings or Instructions on Vehicles Displaying Them
42	42	Failure to Signal Intentions
43	--	Giving Wrong Signal *(1982-1996)*
44	44	Driving Too Fast for Conditions or in Excess of Posted Maximum
45	45	Driving Less Than Posted Maximum
46	--	Operating at Erratic or Suddenly Changing Speeds *(1982-1996)*

P26/NM25 Related Factors- Person Level *(continued)*

Attribute Codes

1982-2009	*2010-Later*	
47	47	Making Right Turn From Left-Turn Lane, Left Turn from Right-Turn Lane
48	--	Making Other Improper Turn
49	--	Driving Wrong Way on One-Way Trafficway
50	--	Driving on Wrong Side of Road *(Intentional or Unintentional, Since 1995)*
51	51	Operator Inexperience
52	52	Unfamiliar with Roadway
53	--	Stopping in Roadway *(Vehicle Not Abandoned)*
54	--	Underriding a Parked Truck *(1982-1996)*
55	--	Getting Off/Out of or On/Into Moving Transport Vehicle
56	--	Getting Off/Out of or On/Into Non-Moving Transport Vehicle *(1982-2001)*
56	56	Non-Driver Flees Scene *(Since 2005)*
57	57	Improper Tire Pressure *(Since 1995)*
58	58	Locked Wheel *(Since 1995)*
59	59	Overcorrecting *(Since 1995)*
VISION OBSCURED BY		
60	60	Rain, Snow, Fog, Smoke, Sand, Dust
61	61	Reflected Glare, Bright Sunlight, Headlights
62	62	Curve, Hill, or Other Design Features *(Including Traffic Signs, Embankment)*
63	63	Building, Billboard, Other Structures *(Since 1995)*
64	64	Trees, Crops, Vegetation
65	65	Motor Vehicle *(Including Load)*
66	66	Parked Vehicle
67	67	Splash or Spray or Passing Vehicle
68	68	Inadequate Lighting System
69	69	Obstructing Angles on Vehicle
70	70	Mirrors
71	--	Mirrors-Other*(1982-2002)*
72	72	Other Visual Obstruction
SKIDDING, SWERVING, OR SLIDING DUE TO		
73	73	Severe Crosswind
74	74	Wind From Passing Truck
75	75	Slippery or Loose Surface
76	76	Tire Blow-Out or Flat
77	77	Debris or Objects in Road
78	78	Ruts, Holes, Bumps in Road
79	--	Live Animals in Road
80	80	Vehicle in Road
81	81	Phantom Vehicle
82	--	Pedestrian, Pedalcyclist, or Other Non-Motorist
--	82	Pedestrian, Pedalcyclist, or Persons on Personal Conveyances
83	83	Ice, Snow, Slush, Water, Sand, Dirt, Oil, Wet Leaves on Road *(Since 1995)*

P26/NM25 Related Factors- Person Level *(continued)*

Attribute Codes

1982-2009	*2010-Later*	
OTHER FACTORS		
84	--	Jay Walk *(1982-1994)*
85	--	Jog *(1982-1994)*
86	86	Emergency Services Personnel *(Since 2007)*
87	87	Police or Law Enforcement Officer *(Since 2002)*
88	88	Seat Back Not in Normal Upright Position, Seat Back Reclined *(Since 2002)*
--	89	Parked Motor Vehicle With Equipment Extending into the Travel Lane *(Since 2013)*
90	90	Non-Motorist Pushing a Vehicle
91	91	Portable Electronic Devices *(Since 2008)*
--	92	Person in Ambulance Treatment Compartment *(Since 2013)*
99	99	Unknown

P100 Lag Time

P100A Lag Hours

Definition: This data element records the hours between the time of the crash and this person's time of death.

Additional Information: This is a computed data element.

SAS Name: LAG_HRS

Attribute Codes

1975-2008	*2009-Later*	
00-24	00-719	Hours
99	999	Unknown

P100B Lag Minutes

Definition: This data element records the minutes, in addition to hours ("Lag Hours"), between the time of the crash and this person's time of death.

Additional Information: This is a computed data element.

SAS Name: LAG_MINS

Attribute Codes

1975-Later	
00-59	Minutes
99	Unknown

SP1 Death Certificate Number

Definition: This data element records the sequence number from the death certificate for this person as assigned by the State Vital Statistics or Vital Records Department. This twelve-digit data element is a combination of the four-digit GSA code for the City where the death occurred, the two-digit state number, and the six-digit death certificate number.

Additional Information: .

SAS Name: **CERT_NO**

Attribute Codes

1991-Later

000000000000	Not Applicable *(Not A Fatality)* 12 0's
xxxxxxxxxxx	Any 12 digits
9997xxxxxxxx	No GSA Element for The City
9999xxxxxxxx	City Where Death Occurred Cannot Be Found on Death Certificate
999999999999	Unknown

SP2 Fatal Injury at Work

Definition: This data element records whether the death certificate indicated this person was "at work" at the time of the crash.

Additional Information:

SAS Name: WORK_INJ

Attribute Codes

1987-Later

0 No *(The Injury Was Not At Work)*
1 Yes *(The Injury Was At Work)*
8 Not Applicable *(Not A Fatality)*
9 Unknown

SP3 Race/Hispanic Origin

SP3A Race

Definition: This data element records the race of this person from the death certificate.

Additional Information: This data element is only coded for fatalities.

SAS Name: RACE

Attribute Codes

1999-2000	*2001-Later*	
00	00	Not A Fatality *(Not Applicable)*
01	01	White
02	02	Black
03	03	American Indian *(Includes Aleuts and Eskimos)*
04	04	Chinese
05	05	Japanese
06	06	Hawaiian *(Includes Part-Hawaiian)*
07	07	Filipino
18	18	Asian Indian
19	19	Other Indian *(Includes South and Central America, Since 2000)*
28	28	Korean
38	38	Samoan
48	48	Vietnamese
58	58	Guamanian
68	68	Other Asian or Pacific Islander
78	--	Combined Other Asian Or Pacific Islander, Includes Data elements 18-68 For Areas That Do Not Report Them Separately
--	78	Asian Or Pacific Islander, No Specific *(Individual)* Race
97	97	Multiple Races *(Individual Races Not Specified; ex., "Mixed", Since 2000)*
--	98	All Other Races
99	99	Unknown

SP3B Hispanic Origin

Definition: This data element records the Hispanic origin of this person from the death certificate.

Additional Information: This data element is only coded for fatalities.

SAS Name: HISPANIC

Attribute Codes

1999-2000	*2001-Later*	
00	00	Not A Fatality *(Not Applicable)*
01	01	Mexican
02	02	Puerto Rican
03	03	Cuban
04	04	Central or South American
05	--	Other or Unknown Hispanic *(1999 Only)*
05	05	European Spanish *(Since 2000)*
06	--	Hispanic, Origin Not Specified *(1999 Only)*
06	--	Other Hispanic Origin *(Since 2000)*
--	06	Hispanic, Origin Not Specified or Other Origin
07	07	Non-Hispanic
99	99	Unknown

NM4 Number of Motor Vehicle Striking Non-Motorist

Definition: This data element identifies the "Vehicle Number" (VEH_NO) of the in-transport vehicle that made contact with this non-motorist.

Additional Information: This data element applies only to non-motorists/non-occupants and reflects the vehicle that made contact with the non-motorist/non-occupant identified by the Person Number (PER_NO).

The number must match the vehicle number of the striking vehicle. This number is similar to VEH_NO, except that the non-motorist/non-occupant was struck by the vehicle, rather than being within the vehicle.

SAS Name: **N_MOT_NO** ***1982-2010***
STR_VEH ***2011-Later***

Attribute Codes

1982-2008	***2009-Later***	
00	000	Occupant of a Motor Vehicle
01-98	001-998	Vehicle Number of Striking Vehicle
99	999	Unknown

NM10 Non-Motorist Location at Time of Crash

Definition: This data element identifies the attribute which best describes the location of this non-motorist with respect to the roadway at the time of the crash.

Additional Information:

SAS Name: LOCATION

Attribute Codes

1975-1981

0	Not Applicable-Vehicle Occupant
1	Intersection-In Crosswalk
2	Intersection-Sidewalk, Median, Island, Shoulder, Other
3	Intersection-On Roadway
4	Intersection-Unknown
5	Non-Intersection-In Crosswalk
6	Non-Intersection-Sidewalk, Median, Island, Shoulder, Other
7	Non-Intersection-Bike Path
8	Non-Intersection-On Road Shoulder
9	Non-Intersection-Outside Trafficway
10	Non-Intersection-On Roadway
11	Non-Intersection-In Parking Lane *(Since 1980)*
12	Non-Intersection-Unknown
99	Unknown

1982-2009	***2010-2013***	***2014-Later***	
0	0	0	Occupant of a Motor Vehicle *(Includes Railway Train Occupants Since 2006)*
1	--	--	Intersection-In Crosswalk
--	1	--	Intersection-In Marked Crosswalk
--	--	1	At Intersection-In Marked Crosswalk
2	--	--	Intersection-On Roadway, Not in Crosswalk
--	2	--	Intersection-Unmarked Crosswalk
--	--	2	At Intersection-Unmarked/Unknown If Marked Crosswalk
3	--	--	Intersection-On Roadway, Crosswalk Not Available
--	3	--	Intersection-Not in Crosswalk
--	--	3	At Intersection-Not in Crosswalk
4	--	--	Intersection-On Roadway, Crosswalk Availability Unknown
5	--	--	Intersection-Not on Roadway
9	9	--	Intersection-Unknown Location
--	--	9	At Intersection-Unknown Location
10	--	--	Non-Intersection-In Crosswalk
--	10	--	Non-Intersection-In Marked Crosswalk
--	--	10	Not At Intersection-In Marked Crosswalk
11	--	--	Non-Intersection-On Roadway, Not in Crosswalk
--	11	--	Non-Intersection-On Roadway, Not in Marked Crosswalk
--	--	11	Non At Intersection-On Roadway, Not in Marked Crosswalk
12	--	--	Non-Intersection-On Roadway, Crosswalk Not Available

NM10 Non-Motorist Location at Time of Crash *(continued)*

Attribute Codes

1982-2009	*2010-2013*	*2014-Later*	
13	13	--	Non-Intersection-On Roadway, Crosswalk Availability Unknown
--	--	13	Not At Intersection-On Roadway, Crosswalk Availability Unknown
14	--	--	Non-Intersection-In Parking Lane
--	14	14	Parking Lane/Zone
15	--	--	Non-Intersection-On Road Shoulder
16	--	--	Non-Intersection-Bike Path
--	16	16	Bicycle Lane
17	--	--	Non-Intersection-Outside Trafficway
18	--	--	Non-Intersection-Other, Not a Roadway
19	--	--	Non-Intersection-Unknown
--	20	20	Shoulder/Roadside
--	21	21	Sidewalk
--	22	22	Median/Crossing Island
--	23	23	Driveway Access
--	24	--	Shared-Use Path/Trail
--	--	24	Shared-Use Path
--	25	25	Non-Trafficway Area
--	28	28	Other
--	98	98	Not Reported
99	99	99	Unknown Location

Discontinued PERSON Data Elements

Automatic Restraint (discontinued)

Definition: This data element was discontinued after 1990.

Additional Information:

SAS Name: **AUT_REST**

Attribute Codes

1975-1989

0 Non-Motorist or Not Applicable
1 Automatic Belt in Use
2 Automatic Belt Not in Use
3 Deployed Air Bag *(No Data 1983-1985)*
4 Non-Deployed Air Bag *(No Data 1983-1987)*
5 Passive Belt *(i.e., Passive Belt In Use, 1977-1979)*
9 Unknown

1990

0 Non-Motorist
3 Deployed Air Bag
4 Non-Deployed Air Bag
9 Unknown

Manual Restraint (discontinued)

Definition: This data element was discontinued after 1990.

Additional Information:

SAS Name: MAN_REST

Attribute Codes

1975-1990

0 None Used – Vehicle Occupant; Not Applicable – Non-Motorist
1 Shoulder Belt
2 Lap Belt
3 Lap and Shoulder Belt
4 Child Safety Seat
5 Motorcycle Helmet
8 Restraint Used – Type Unknown or Other Including Other Helmet
9 Unknown

The PARKWORK Data File

The Parkwork data file includes Vehicle data elements applicable to Parked and Working Vehicles. It contains the data elements ST_CASE, STATE, and VEH_NO, which are described in the beginning of the Data Element Definitions and Codes section. ST_CASE and VEH_NO are the unique identifiers for each record. The Parkwork data file also contains the data elements on the following pages.

The Parkwork data file replaced the Vehnit data file in 2010. The Vehnit data file ran from 2005 to 2009 and its element and attribute history is also provided here.

C4A Number of Motor Vehicles in Transport (MVIT)

Definition: This data element is a count of the number of vehicles in-transport involved in the crash. Legally parked vehicles are not included.

Additional Information: See this data element in the Accident data file section for more information.

SAS Name: **VE_FORMS** ***2005-2009***

PVE_FORMS ***2010-Later***

Attribute Codes

2005-2008	***2009-Later***	
01-99	001-999	Number of Vehicle Forms

C8 Crash Date

C8A Month of Crash

Definition: This data element records the month in which the crash occurred.

Additional Information: See this data element in the Accident data file section for more information.

SAS Name: **MONTH** ***2005-2009***

PMONTH ***2010-Later***

Attribute Codes

2005-Later

1	January
2	February
3	March
4	April
5	May
6	June
7	July
8	August
9	September
10	October
11	November
12	December

C8B Day of Crash

Definition: This data element records the day of the month on which the crash occurred.

Additional Information: See this data element in the Accident data file section for more information.

SAS Name: **DAY** ***2009***

PDAY ***2010-Later***

Attribute Codes

2005-Later

01-31	Day of the Month of the Crash

C9 Crash Time

C9A Hour of Crash

Definition: This data element records the hour at which the crash occurred.

Additional Information: See this data element in the Accident data file section for more information.

SAS Name: **HOUR** ***2009***

PHOUR ***2010-Later***

Attribute Codes

2005-Later

0-23 Hour
99 Unknown

C9B Minute of Crash

Definition: This data element records the minutes after the hour at which the crash occurred.

Additional Information: See this data element in the Accident data file section for more information.

SAS Name: **MINUTE** ***2009***

PMINUTE ***2010-Later***

Attribute Codes

2005-Later

0-59 Minute
99 Unknown

C18 First Harmful Event

Definition: This data element describes the first injury or damage producing event of the crash.

Additional Information: See this data element in the Accident data file section for more information.

SAS Name: **HARM_EV** ***2005-2009***

PHARM_EV ***2010-Later***

Attribute Codes

2005-2009	*2010-Later*	
01	01	Rollover/Overturn
02	02	Fire/Explosion
03	03	Immersion *(or Partial Immersion, Since 2012)*
04	04	Gas Inhalation
05	05	Fell/Jumped from Vehicle
06	--	Injured in Vehicle
--	06	Injured in Vehicle *(Non-Collision)*
07	07	Other Non-Collision
08	08	Pedestrian
09	--	Pedalcycle
--	09	Pedalcyclist
10	--	Railway Train
--	10	Railway Vehicle
11	--	Animal
--	11	Live Animal
12	--	Motor Vehicle in Transport on Same Roadway
--	12	Motor Vehicle in Transport
13	--	Motor Vehicle in Transport on Other Roadway
14	14	Parked Motor Vehicle *(Not In Transport)*
15	15	Non-Motorist on Personal Conveyance
16	16	Thrown or Falling Object
17	17	Boulder
18	18	Other Object *(Not Fixed)*
19	19	Building
20	20	Impact Attenuator/Crash Cushion
21	--	Bridge Pier or Abutment
--	21	Bridge Pier or Support
22	--	Bridge Parapet End
23	--	Bridge Rail
--	23	Bridge Rail *(Includes Parapet)*
24	24	Guardrail Face
25	25	Concrete Traffic Barrier
26	26	Other Traffic Barrier
27	--	Highway/Traffic Sign Post
28	--	Overhead Sign Support/Sign
29	--	Luminary/Light Support

C18 First Harmful Event *(continued)*

Attribute Codes

2005-2009	*2010-Later*	
30	--	Utility Pole
--	30	Utility Pole/Light Support
31	31	Other Post, Other Pole, or Other Support
32	32	Culvert
33	33	Curb
34	34	Ditch
35	--	Embankment – Earth
--	35	Embankment
36	--	Embankment – Rock, Stone, or Concrete
37	--	Embankment – Material Type Unknown
38	38	Fence
39	39	Wall
40	40	Fire Hydrant
41	41	Shrubbery
42	42	Tree *(Standing Only)*
43	43	Other Fixed Object
44	--	Pavement Surface Irregularity
--	44	Pavement Surface Irregularity *(Ruts, Potholes, Grates, etc.)*
45	--	Working Construction, Maintenance or Utility Vehicles
--	45	Working Motor Vehicle
46	46	Traffic Signal Support
47	--	Vehicle Occupant Struck or Run Over by Own Vehicle *(2005-2009)*
48	--	Collision With Snow Bank *(2005-2009)*
--	48	Snow Bank
49	49	Ridden Animal or Animal-Drawn Conveyance
50	50	Bridge Overhead Structure
51	--	Jackknife
--	51	Jackknife *(Harmful to This Vehicle)*
52	52	Guardrail End
53	53	Mail Box
54	--	Motor Vehicle Struck by Falling/Shifting Cargo or Anything Set in Motion by Another Motor Vehicle in Transport
--	54	Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport
55	--	Other Not in-Transport Motor Vehicle *(2005-2007)*
55	55	Motor Vehicle in Motion Outside the Trafficway *(Since 2008)*
57	57	Cable Barrier *(Since 2008)*
--	58	Ground
--	59	Traffic Sign Support
--	72	Cargo/Equipment Loss or Shift *(Harmful to This Vehicle)*
--	73	Object Fell From Motor Vehicle In-Transport *(Since 2013)*
--	98	Not Reported *(2010 Only)*
99	99	Unknown

C19 Manner of Collision

Definition: This data element describes the orientation of two motor vehicles in-transport when they are involved in the "First Harmful Event" of a collision crash. If the "First Harmful Event" is not a collision between two motor vehicles in-transport it is classified as such.

Additional Information: See this data element in the Accident data file section for more information.

SAS Name: **MAN_COLL** ***2005-2009***

PMAN_COLL ***2010-Later***

Attribute Codes

2005-2009	***2010-Later***	
0	0	Not Collision with Motor Vehicle in Transport *(Not Necessarily in Transport for 2005-2009)*
1	1	Front-to-Rear
2	2	Front-to-Front
3	--	Angle – Front-to-Side, Same Direction
4	--	Angle – Front-to-Side, Opposite Direction
5	--	Angle – Front-to-Side, Right Angle *(Includes Broadside)*
6	--	Angle – Front-to-Side/Angle-Direction Not Specified
--	6	Angle
7	7	Sideswipe – Same Direction
8	8	Sideswipe – Opposite Direction
9	9	Rear-to-Side
10	10	Rear-to-Rear
11	11	Other *(End-Swipes and Others)*
--	98	Not Reported
99	99	Unknown

More Information on Manner of Collision

V4 Number of Occupants

Definition: This data element is a count of the number of occupants in this vehicle.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **OCUPANTS** ***2005-2008***

NUMOCCS ***2009***

PNUMOCCS ***2010-Later***

Attribute Codes

2005-Later

00	None
01-95	The Actual Number of Occupants in The Vehicle
96	96 Or More Occupants in The Vehicle
98	Not Reported
99	Unknown

V5 Unit Type

Definition: This data element identifies the type of unit that applies to this motor vehicle at the time it became an involved vehicle in the crash and was reported as a unit on the PAR.

Additional Information: This data element also appears in the Vehicle data file as UNITTYPE. The only valid attribute for UNITTYPE is 1 (Motor Vehicle in Transport *(Inside or Outside the Trafficway)*).

SAS Name: **UNITTYPE** ***2005-2009***

PTYPE ***2010-Later***

Attribute Codes

2005-Later

2 Motor Vehicle Not in Transport Within the Trafficway
3 Motor Vehicle Not in Transport Outside the Trafficway
4 Working Motor Vehicle *(Highway Construction, Maintenance, Utility Only)*

V6 Hit and Run

Definition: This data element identifies whether this vehicle was a contact vehicle in the crash that did not stop to render aid (this can include drivers who flee the scene on foot). Hit and run is coded when a motor vehicle in-transport, or its driver, departs from the scene; vehicles not in-transport are excluded. It does not matter whether the hit-and-run vehicle was striking or struck.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **HIT_RUN** ***2005-2009***

PHIT_RUN ***2010-Later***

Attribute Codes

2005-2008	*2009*	*2010-2011*	*2012-Later*	
0	0	0	0	No / No Hit-and-Run
1	--	--	--	Hit Motor Vehicle in Transport
--	1	1	1	Yes
2	--	--	--	Hit Pedestrian or Non-Motorist
3	--	--	--	Hit Parked Vehicle *(Working Vehicle, Since 2004)* or Object
5	--	--	--	Other Involved Person, not a driver, left Scene *(2005-2006)*
5	--	--	--	Hit-and-Run, Other Involved Person Left Scene *(2007-2008)*
--	--	8	--	Not Reported
--	9	9	9	Unknown

V7 Registration State

Definition: This element identifies the state in which this vehicle was registered.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **REG_STAT** ***2005-2009***

PREG_STAT ***2010-Later***

Attribute Codes

2005-Later

01 Alabama
02 Alaska
03 American Samoa
04 Arizona
05 Arkansas
06 California
08 Colorado
09 Connecticut
10 Delaware
11 District of Columbia
12 Florida
13 Georgia
14 Guam
15 Hawaii
16 Idaho
17 Illinois
18 Indiana
19 Iowa
20 Kansas
21 Kentucky
22 Louisiana
23 Maine
24 Maryland
25 Massachusetts
26 Michigan
27 Minnesota
28 Mississippi
29 Missouri
30 Montana
31 Nebraska
32 Nevada
33 New Hampshire
34 New Jersey
35 New Mexico
36 New York
37 North Carolina
38 North Dakota
39 Ohio
40 Oklahoma
41 Oregon
42 Pennsylvania
43 Puerto Rico
44 Rhode Island
45 South Carolina
46 South Dakota
47 Tennessee
48 Texas
49 Utah
50 Vermont
51 Virginia
52 Virgin Islands
53 Washington
54 West Virginia
55 Wisconsin
56 Wyoming

V7 Registration State *(continued)*

Attribute Codes

2010-Later

00 Not Applicable
91 Not Reported
92 No Registration
93 Multiple State Registrations
94 U.S. Government Tags *(Includes Military)*
95 Canada
96 Mexico
97 Other Foreign Country
98 Other Registration *(Includes Native American Indian Nations)*
99 Unknown

V8 Registered Vehicle Owner

Definition: This data element identifies the type of registered owner of the vehicle.

Additional Information:

SAS Name: **OWNER** ***2005-2009***

POWNER ***2010-Later***

Attribute Codes

2005-2007	*2008-Later*	
0	0	Not Applicable, Vehicle Not Registered
1	1	Driver *(of This Vehicle)* Was Registered Owner
2	2	Driver *(of This Vehicle)* Not Registered Owner *(Other Private Owner)*
3	3	Vehicle Registered as Business/Company/Government Vehicle
4	4	Vehicle Registered as Rental Vehicle
5	5	Vehicle Was Stolen *(Reported By Police)*
6	--	Driverless Vehicle
--	6	Driverless/Motor Vehicle Parked/Stopped Off Roadway
9	9	Unknown

V9 Vehicle Make

Definition: This data element identifies the make (manufacturer) of this vehicle.

Additional Information:

SAS Name: **MAKE** ***2005-2009***

PMAKE ***2010-Later***

Attribute Codes

2005-Later

01 American Motors
02 Jeep/Kaiser-Jeep/Willys Jeep
03 AM General
06 Chrysler
07 Dodge
08 Imperial
09 Plymouth
10 Eagle
12 Ford
13 Lincoln
14 Mercury
18 Buick/Opel
19 Cadillac
20 Chevrolet
21 Oldsmobile
22 Pontiac
23 GMC
24 Saturn
25 Grumman
26 Coda *(Since 2013)*
29 Other Domestic
Avanti
Checker
DeSoto
Excalibur
Hudson
Packard
Panoz
Saleen
Studebaker
Stutz
Tesla (Since 2014)
30 Volkswagen
31 Alfa Romeo
32 Audi
33 Austin/Austin Healey

V9 Vehicle Make *(continued)*

Attribute Codes

2005-Later

34 BMW
35 Datsun/Nissan
36 Fiat
37 Honda
38 Isuzu
39 Jaguar
40 Lancia
41 Mazda
42 Mercedes-Benz
43 MG
44 Peugeot
45 Porsche
46 Renault
47 Saab
48 Subaru
49 Toyota
50 Triumph
51 Volvo
52 Mitsubishi
53 Suzuki
54 Acura
55 Hyundai
56 Merkur
57 Yugo
58 Infiniti
59 Lexus
60 Daihatsu
61 Sterling
62 Land Rover
63 Kia
64 Daewoo
65 Smart *(Since 2010)*
66 Mahindra *(2011-2013)*
67 Scion *(Since 2012)*
69 Other Imports

Aston Martin
Bentley
Bertone
Bricklin
Bugatti
Caterham
Citroen
DeLorean
Desta

V9 Vehicle Make *(continued)*

Attribute Codes

2005-Later

69 Other Imports *(continued)*
- *Ferrari*
- *Fisker*
- *Gazelle*
- *Hillman*
- *Jensen*
- *Koenigsegg*
- *Lada*
- *Lamborghini*
- *Lotus*
- *Mahindra (Since 2013)*
- *Maserati*
- *Maybach*
- *McLaren*
- *Mini Cooper*
- *Morgan*
- *Morris*
- *Reliant (British)*
- *Rolls-Royce*
- *Simca*
- *Singer*
- *Spyker*
- *Sunbeam*
- *TVR*

70 BSA
71 Ducati
72 Harley-Davidson
73 Kawasaki
74 Moto Guzzi
75 Norton
76 Yamaha
77 Victory
78 Other Make Moped *(Since 2010)*
79 Other Make Motored Cycle *(Since 2010)*
80 Brockway
81 Diamond Reo/Reo
82 Freightliner
83 FWD
84 International Harvester/Navistar
85 Kenworth
86 Mack
87 Peterbilt
88 Iveco/Magirus
89 White/Autocar, White/GMC

V9 Vehicle Make *(continued)*

Attribute Codes

2005-Later

90 Bluebird
91 Eagle Coach
92 Gillig
93 MCI
94 Thomas Built
97 Not Reported *(Since 2010)*
98 Other Make
- *Auto-Union-DKW*
- *Carpenter*
- *Collins Bus*
- *DINA*
- *Divco*
- *Hino*
- *Meyers Motors*
- *Mid Bus*
- *Neoplan*
- *Orion*
- *Oshkosh*
- *Scania*
- *Sterling*
- *Think*
- *UD*
- *Van Hool*
- *Western Star*

99 Unknown Make

V10 Vehicle Model

Definition: This data element identifies the model of this vehicle within a given make.

Additional Information:

SAS Name: **MODEL** ***2005-2009***

PMODEL ***2010-Later***

Attribute Codes

2005-Later

See the current FARS/NASS GES Coding and Validation Manual for vehicle model codes.

V11 Body Type

Definition: This data element identifies a classification of this vehicle based on its general body configuration, size, shape, doors, etc.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **BODY_TYP** ***2005-2009***

PBODYTYP ***2010-Later***

Attribute Codes

2005-2009	*2010-Later*	
01	01	Convertible *(Excludes Sunroof, T-Bar)*
02	02	2-Door Sedan/Hardtop/Coupe
03	03	3-Door/2-Door Hatchback
04	04	4-Door Sedan/Hardtop
05	05	5-Door/4-Door Hatchback
06	06	Station Wagon *(Excluding Van and Truck-Based)*
07	07	Hatchback, Number of Doors Unknown
08	08	Sedan/Hardtop, Number of Doors Unknown
09	09	Other or Unknown Automobile Type
10	10	Auto-Based Pickup
11	11	Auto-Based Panel *(Cargo Station Wagon, Auto-Based Ambulance or Hearse)*
12	12	Large Limousine – More Than Four Side Doors or Stretch Chassis
13	13	Three-Wheel Automobile or Automobile Derivative
14	14	Compact Utility *(ANSI D-16 Utility Vehicle Categories "Small" and "Midsize")*
15	15	Large Utility *(ANSI D-16 Utility Vehicle Categories "Full Size" and "Large")*
16	16	Utility Station Wagon
--	17	3-Door Coupe
19	19	Utility Unknown Body
20	20	Minivan
21	21	Large Van – Includes Van-Based Buses
22	22	Step Van or Walk-In Van
28	28	Other Van Type *(Hi-Cube Van)*
29	29	Unknown Van Type
30	30	Compact Pickup *(Gross Vehicle Weight, GVWR, < 4,500 lbs)*
31	31	Standard Pickup *(4,500 lbs GVWR < 10,000 lbs)*
32	32	Pickup with Slide-In Camper
33	33	Convertible Pickup
39	39	Unknown *(Pickup Style)* Light Conventional Truck Type
40	40	Cab Chassis-Based *(Includes Light Stake, Light Dump, Light Tow, Rescue Vehicles)*
41	41	Truck-Based Panel
42	42	Light-Truck-Based Motorhome *(Chassis Mounted)*
45	45	Other Light Conventional Truck Type *(Includes Stretched Suburban Limousine)*

V11 Body Type *(continued)*

Attribute Codes

2005-2009	*2010-Later*	
48	48	Unknown Light-Truck Type *(Not a Pickup, 2005-2012)*
--	48	Unknown Light Truck Type *(Since 2013)*
49	49	Unknown Light-Vehicle Type *(Automobile, Utility Vehicle, Van or Light Truck)*
50	50	School Bus
51	51	Cross-Country/Intercity Bus *(i.e., Greyhound)*
52	52	Transit Bus *(City Bus)*
--	55	Van-Based Bus GVWR > 10,000 lbs. *(Since 2011)*
58	58	Other Bus Type
59	59	Unknown Bus Type
60	60	Step Van
61	61	Single-Unit Straight Truck *(10,000 lbs < GVWR <= 19,500 lbs) (2005-2010)*
--	61	Single-Unit Straight Truck or Cab-Chassis *(10,000 lbs < GVWR <= 19,500 lbs) (Since 2011)*
62	62	Single-Unit Straight Truck *(19,500 lbs < GVWR <= 26,000 lbs) (2005-2010)*
--	62	Single-Unit Straight Truck or Cab-Chassis *(19,500 lbs < GVWR <= 26,000 lbs) (Since 2011)*
63	63	Single-Unit Straight Truck *(GVWR > 26,000 lbs) (2005-2010)*
--	63	Single-Unit Straight Truck or Cab-Chassis *(GVWR > 26,000 lbs) (Since 2011)*
64	--	Single-Unit Straight Truck
--	64	Single Unit Straight Truck or Cab-Chassis *(GVWR Unknown) (Since 2011)*
65	65	Medium/Heavy Truck-Based Motorhome
66	66	Truck/Tractor *(Cab Only, or with Any Number of Trailing Units: Any Weight)*
67	67	Medium/Heavy Pickup *(GVWR > 10,000 lbs)*
--	68	Single-Unit Straight Truck *(GVWR Unknown) (2010 Only)*
71	71	Unknown if Single-Unit or Combination-Unit Medium Truck *(10,000 lbs < GVWR < 26,000 lbs)*
72	72	Unknown if Single-Unit or Combination-Unit Heavy Truck *(GVWR > 26,000 lbs.)*
73	73	Camper or Motorhome, Unknown Truck Type
78	78	Unknown Medium/Heavy Truck Type
79	79	Unknown Truck Type
80	80	Motorcycle
81	81	Moped *(Motorized Bicycle)*
82	82	Three-Wheel Motorcycle/Moped- Not All-Terrain Vehicle
83	83	Off-Road Motorcycle *(2-Wheel)*
88	--	Other Motored Cycle Type *(Mini-Bikes, Motor Scooters) (2005-2007)*
88	88	Other Motored Cycle Type *(Mini-Bikes, Motor Scooters, Pocket Motorcycles, Pocket Bikes) (Since 2008)*
89	89	Unknown Motored Cycle Type
90	90	ATV *(All-Terrain Vehicle; Includes 3 or 4 Wheels)*
91	91	Snowmobile
92	92	Farm Equipment Other Than Trucks
93	93	Construction Equipment Other Than Trucks *(Includes Graders)*

V11 Body Type *(continued)*

Attribute Codes

2005-2009	*2010-Later*	
--	94	Low Speed Vehicle *(LSV)*/Neighborhood Electric Vehicle *(NEV) (Since 2011)*
--	95	Golf Cart *(Since 2012)*
97	97	Other Vehicle Type *(Includes Go-Cart, Fork-Lift, City Street Sweeper, Dune/Swamp Buggy, Golf Cart)*
--	98	Not Reported
99	99	Unknown Body Type

V12 Vehicle Model Year

Definition: This data element identifies the manufacturer's model year of this vehicle.

Additional Information:

SAS Name: **MOD_YEAR** ***2005-2009***

PMODYEAR ***2010-Later***

Attribute Codes

2005-Later

0000-9997	Actual year of vehicle manufacture
9998	Not Reported
9999	Unknown

V13 Vehicle Identification Number (VIN)

Definition: This data element records the vehicle identification number (VIN) of this vehicle assigned by the vehicle manufacturer. The VIN contains information on the vehicle such as: manufacturer, model year, model, body type, restraint type, etc.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **VIN** ***2005-2009***

PVIN ***2010-Later***

Attribute Codes

2005-2008	*2009*	*2010-Later*	
--	--	--	First 10 Characters
xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx	First 12 Characters
--	000000000000	000000000000	No VIN Required
--	--	888888888888	Not Reported
--	--	999999999999	Unknown

More Information on Vehicle Identification Number (VIN)

V14 Vehicle Trailing

Definition: This data element identifies whether this vehicle had any attached trailing units or was towing another motor vehicle. A trailing unit can be a horse trailer, fifth wheel trailer, camper, boat, truck trailer, towed vehicle or any other trailer.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **TOW_VEH** ***2005-2009***

PTRAILER ***2010-Later***

Attribute Codes

2005-2008	***2009-Later***	
0	0	No Trailing Unit
1	1	Yes, One Trailing Unit
2	2	Yes, Two Trailing Units
3	3	Yes, Three or More Trailing Units
4	4	Yes, Number of Trailing Units Unknown
5	--	Vehicle Towing another Motor Vehicle
--	5	Vehicle Towing another Motor Vehicle – Fixed Linkage
--	6	Vehicle Towing another Motor Vehicle – Non-Fixed Linkage
9	9	Unknown

V16 Motor Carrier Identification Number

Definition: This data element records the issuing authority and motor carrier identification number if applicable to this vehicle. This data element is the combination of two data elements, MCARR_I1 and MCARR_I2.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **MCARR_ID** ***2005-2009***

PMCARR_ID ***2010-Later***

Attribute Codes

2005-2009	***2010-Later***	
xxxxxxxxxxx	xxxxxxxxxxx	11-Character Combination of MCARR_I1 followed by MCARR_I2
00000000000	00000000000	Not Applicable
--	77777777777	Not Reported
88888888888	88888888888	None
99999999999	99999999999	Unknown

V16A MCID Issuing Authority

Definition: This data element records the issuing authority if applicable to this vehicle.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **MCARR_I1** ***2007-2009***

PMCARR_I1 ***2010-Later***

Attribute Codes

2007-2009	***2010-Later***	
00	00	Not Applicable
01-56	01-56	FARS State Code
57	57	US DOT
58	58	MC/MX *(ICC)*
--	77	Not Reported
88	88	None
95	95	Canada
96	96	Mexico
99	99	Unknown

V16B MCID Identification Number

Definition: This data element records the motor carrier identification number if applicable to this vehicle.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **MCARR_I2** ***2007-2009***

PMCARR_I2 ***2010-Later***

Attribute Codes

2007-Later

xxxxxxxxx	Actual 9-Digit Number
000000000	Not Applicable
777777777	Not Reported
888888888	None
999999999	Unknown

V17 Gross Vehicle Weight Rating

Definition: This data element identifies the gross vehicle weight rating of this vehicle if applicable.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **GVWR** ***2005-2009***

PGVWR ***2010-Later***

Attribute Codes

2005-2009	*2010-Later*	
0	0	Not Applicable
1	1	10,000 lbs or Less
2	2	10,001 lbs - 26,000 lbs
3	3	26,001 lbs or More
--	8	Not Reported
9	9	Unknown

V18 Vehicle Configuration

Definition: This data element identifies the general configuration of this vehicle if applicable.

Additional Information:

SAS Name: **V_CONFIG** ***2005-2009***

PV_CONFIG ***2010-Later***

Attribute Codes

2005-2009	*2010-Later*	
0	--	Not Applicable, Not a Medium/Heavy Truck or Bus or Vehicle Displaying a Hazardous Material Placard
--	0	Not Applicable
1	--	Single-Unit Truck *(2 axles, 6 tires)*
--	1	Single-Unit Truck *(2 axles and GVWR more than 10,000 lbs.)*
2	2	Single-Unit Truck *(3 or More axles)*
3	--	Single-Unit Truck *(Unknown Number of Axles, Tires)*
4	--	Truck/Trailer(s)
--	4	Truck Pulling Trailer(s)
5	5	Truck Tractor *(Bobtail, i.e., Tractor Only, No Trailer)*
6	--	Tractor/Semi-Trailer *(One Trailer)*
--	6	Tractor/Semi-Trailer
7	--	Tractor/Doubles *(Two Trailers)*
--	7	Truck Tractor/Double
8	--	Tractor/Triples *(Three Trailers)*
--	8	Truck Tractor/Triple
--	10	Vehicle 10,000 lbs or Less Placarded for Hazardous Materials
19	--	Medium/Heavy Trucks, Cannot Classify
--	19	Truck More than 10,000 lbs., Cannot Classify
20	--	Bus *(Seats for 9-15 Occupants, Including Driver)*
--	20	Bus/Large Van *(Seats for 9-15 Occupants, Including Driver)*
21	--	Bus *(Seats for More Than 15 People, Including Driver, 2005-2006)*
21	--	Bus *(Seats for 16 or More People, Including Driver, 2007-2009)*
--	21	Bus *(Seats for More Than 15 Occupants, Including Driver, 2010-Later)*
70	--	Light Truck *(Van, Mini-Van, Panel, Pickup, Sport Utility Vehicle Displaying a Hazardous Material Placard)*
80	--	Passenger Car *(Only When Displaying a Hazardous Material Placard)*
--	98	Not Reported *(2010-2012)*
--	99	Unknown
99	--	Unknown if Light or Medium/Heavy Truck/Bus

V19 Cargo Body Type

Definition: This data element identifies the primary cargo carrying capability of this vehicle if applicable.

Additional Information:

SAS Name: **CARGO_BT** ***2005-2009***

PCARGTYP ***2010-Later***

Attribute Codes

2005-2008	*2009-Later*	
0	--	Not Applicable, Not a Medium/Heavy Truck or Bus
--	0	Not Applicable
1	1	Van/Enclosed Box
2	2	Cargo Tank
3	3	Flatbed
4	4	Dump
5	5	Concrete Mixer
6	6	Auto Transporter
7	7	Garbage/Refuse
8	8	Grain, Chips, Gravel
9	--	Pole
--	9	Pole-Trailer
10	10	Log *(Since 2007)*
11	--	Intermodal Chassis *(2007-2008)*
--	11	Intermodal Container Chassis
12	12	Vehicle Towing Another Motor Vehicle *(Since 2007)*
20	--	Bus *(Seats 9-15 People, Including Driver)*
21	--	Bus *(Seats More than 15 People, Including Driver, 2005-2006)*
21	--	Bus *(Seats for 16 or More People, Including Driver, 2007-2008)*
--	22	Bus
--	28	Not Reported *(2010-2012)*
96	96	No Cargo Body Type
97	--	Medium/Heavy Truck, or Bus, Other Cargo Body Type *(Not Data elements 01-12, 20-21)*
--	97	Other
98	--	Medium/Heavy Truck, or Bus, Unknown Cargo Body Type
--	98	Unknown Cargo Body Type
--	--	Unknown Vehicle Type
99	--	Unknown if Light or Medium/Heavy Truck/Bus
--	99	Unknown

V20A/HM1 Hazardous Material Involvement

Definition: This data element identifies whether this vehicle was carrying hazardous materials.

Additional Information:

SAS Name: **HAZ_INV** ***2007-2009***

PHAZ_INV ***2010-Later***

2007-Later

1 No
2 Yes

V20B/HM2 Hazardous Material Placard

Definition: This data element identifies the presence of hazardous materials for this vehicle and whether this vehicle displayed a hazardous materials placard.

Additional Information:

SAS Name: **HAZ_PLAC** ***2007-2009***

PHAZPLAC ***2010-Later***

2007-Later

0 Not Applicable
1 No
2 Yes
8 Not Reported

V20C/HM3 Hazardous Material Identification Number

Definition: This data element identifies the 4-digit hazardous material identification number for this vehicle.

Additional Information:

SAS Name: **HAZ_ID** ***2007-2009***

PHAZ_ID ***2010-Later***

2007-Later

0000 Not Applicable
xxxx Actual 4-Digit Number
8888 Not Reported

V20D/HM4 Hazardous Material Class Number

Definition: This data element identifies the single-digit hazardous material class number for this vehicle.

Additional Information:

SAS Name: **HAZ_CNO** ***2007-2009***

PHAZ_CNO ***2010-Later***

2007

0	Not Applicable
1-7 or 9	Actual Number
8	Not Reported

2008-Later

0	Not Applicable
1-9	Actual Number
88	Not Reported

V20E/HM5 Release of Hazardous Material from the Cargo Compartment

Definition: This data element identifies whether any hazardous cargo was released from the cargo tank or compartment of this vehicle.

Additional Information:

SAS Name: **HAZ_REL** ***2007-2009***

PHAZ_REL ***2010-Later***

2007-Later

0	Not Applicable
1	No
2	Yes
8	Not Reported

V21 Bus Use

Definition: This data element describes the common type of bus service this vehicle was being used as at the time of the crash or the primary use for the bus if not in service at the time of the crash.

Additional Information:

SAS Name: **BUS_USE** ***2005-2009***

PBUS_USE ***2010-Later***

Attribute Codes

2005-2009

0 Not Used as a Bus
1 Used as a Public School Bus
2 Used as a Private School Bus
3 Used as a School Bus, Public or Private Unknown
4 Used as a Scheduled Service Bus
5 Used as a Tour Bus
6 Used as a Commuter Bus
7 Used as a Shuttle Bus
8 Modified for Personal/Private Use
9 Unknown Bus Use

2010-Later

00 Not a Bus
01 School Bus
04 Intercity Bus
05 Charter/Tour Bus
06 Transit/Commuter Bus
07 Shuttle Bus
08 Modified for Personal/Private Use
98 Not Reported
99 Unknown

V22 Special Use

Definition: This data element identifies any special use associated with this vehicle at the time of the crash..

Additional Information:

SAS Name: **SPEC_USE** ***2005-2009***

PSP_USE ***2010-Later***

Attribute Codes

2005-2009	*2010-2011*	*2012*	*2013-Later*	
0	0	0	0	No Special Use
1	1	1	1	Taxi
2	2	--	--	Vehicle Used for School Bus
--	--	2	2	Vehicle Used as School Transport
3	3	3	3	Vehicle Used as Other Bus
4	4	4	4	Military
5	5	5	5	Police
6	6	6	6	Ambulance
7	7	7	7	Fire Truck
8	8	8	--	Emergency Services Vehicle *(2009-2012)*
--	--	--	8	Non-Transport Emergency Services Vehicle
--	--	--	13	Incident Response
--	98	98	98	Not Reported
9	99	99	99	Unknown

V23 Emergency Motor Vehicle Use

Definition: This data element identifies whether this vehicle was engaged in emergency use. Emergency Use 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 while actually engaged in such response.

Additional Information: Prior to 2013 this data element was called "Emergency Use."

See this data element in the Vehicle data file section for more information.

SAS Name: **EMER_USE** ***2005-2009***

PEM_USE ***2010-Later***

Attribute Codes

2005-2009	***2010-2012***	***2013***	***2014-Later***	
0	0	--	--	No
--	--	0	0	Not Applicable
1	1	--	--	Yes
--	--	2	2	Non-Emergency, Non-Transport
--	--	3	3	Non-Emergency Transport
--	--	4	4	Emergency Operation, Emergency Warning Equipment Not In Use
--	--	5	5	Emergency Operation, Emergency Warning Equipment In Use
--	--	--	6	Emergency Operation, Emergency Warning Equipment In Use Unknown
--	8	8	8	Not Reported
--	9	9	9	Unknown

V25 Underride/Override

Definition: This data element identifies this vehicle's involvement in an underride or override during the crash.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **UNDERIDE** ***2005-2009***

PUNDERIDE ***2010-Later***

Attribute Codes

2005-Later

0 No Underride or Override *(2005-2011)*
0 No Underride or Override Noted *(2012-Later)*

WITH MOTOR VEHICLE IN TRANSPORT

1 Underride *(Compartment Intrusion)*
2 Underride *(No Compartment Intrusion)*
3 Underride *(Compartment Intrusion Unknown)*

WITH MOTOR VEHICLE NOT IN TRANSPORT

4 Underride *(Compartment Intrusion)*
5 Underride *(No Compartment Intrusion)*
6 Underride *(Compartment Intrusion Unknown)*

7 Override, Motor Vehicle in Transport
8 Override, Motor Vehicle Not in Transport
9 Unknown if Underride or Override

V28A Initial Contact Point

Definition: This data element identifies the area on this vehicle that produced the first instance of injury to non-motorists or occupants of this vehicle, or that resulted in the first instance of damage to other property or to this vehicle.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **IMPACT1** ***2005-2009***

PIMPACT1 ***2010-Later***

Attribute Codes

2005-2009	***2010-2011***	***2012***	***2013-Later***	
0	0	0	0	Non-Collision
1-12	1-12	1-12	1-12	Clock points
13	13	13	13	Top
14	14	14	14	Undercarriage
18	--	--	--	This Vehicle Set Something in Motion Causing Injury or Damage *(Not a Clock Point)*
--	18	--	--	Set-in-Motion *(Not a Clock Point)*
--	--	18	--	Set-in-Motion *(Not a Clock Value)*
--	--	--	18	Cargo/Vehicle Parts Set-In-Motion
--	--	--	19	Other Objects Set-In-Motion
--	61	61	61	Left
--	62	--	--	Left-Front Half
--	--	62	62	Left-Front Side
--	63	--	--	Left-Back Half
--	--	63	63	Left-Back Side
--	81	81	81	Right
--	82	--	--	Right-Front Half
--	--	82	82	Right-Front Side
--	83	--	--	Right-Back Half
--	--	83	83	Right-Back Side
--	98	98	98	Not Reported
99	99	99	99	Unknown

More Information on Impact

V29 Extent of Damage

Definition: This data element records the amount of damage sustained by this vehicle as indicated on the PAR based on an operational damage scale.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **VEH_SEV** ***2005-2009***

PVEH_SEV ***2010-Later***

Attribute Codes

2005-2008

0	None
2	Other *(Minor)*
4	Functional *(Moderate)*
6	Disabling *(Severe)*
9	Unknown

2009	***2010-Later***	
0	0	No Damage
2	2	Minor Damage
4	4	Functional Damage
6	6	Disabling Damage
--	8	Not Reported
9	9	Unknown

V30 Vehicle Removal

Definition: This data element describes the mode by which this vehicle left the scene of the crash.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **TOWAWAY** ***2005-2008***

TOWED ***2009***

PTOWED ***2010-Later***

Attribute Codes

2005-2008	*2009*	*2010-2012*	*2013-Later*	
1	1	1	--	Driven Away
2	--	--	--	Towed Away
--	2	2	2	Towed Due to Disabling Damage
3	--	--	--	Abandoned/Left Scene
--	3	3	3	Towed Not Due to Disabling Damage
--	4	4	--	Abandoned/Left Scene
--	--	--	5	Not Towed
--	--	8	8	Not Reported
9	9	9	9	Unknown

V32 Most Harmful Event

Definition: This data element describes the event that resulted in the most severe injury or, if no injury, the greatest property damage involving this vehicle.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **M_HARM** ***2005-2009***

PM_HARM ***2010-Later***

Attribute Codes

2005-2009	*2010-2012*	*2013-Later*	
01	01	01	Rollover/Overturn
02	02	02	Fire/Explosion
03	03	03	Immersion *(or Partial Immersion, Since 2012)*
04	04	04	Gas Inhalation
05	05	05	Fell/Jumped from Vehicle
06	--	--	Injured in Vehicle
--	06	06	Injured in Vehicle *(Non-Collision)*
07	07	07	Other Non-Collision
08	08	08	Pedestrian
09	--	--	Pedalcycle
--	09	09	Pedalcyclist
10	--	--	Railway Train
--	10	10	Railway Vehicle
11	--	--	Animal
--	11	11	Live Animal
12	--	--	Motor Vehicle in Transport on Same Roadway
--	12	12	Motor Vehicle in Transport
13	--	--	Motor Vehicle in Transport on Other Roadway
14	14	14	Parked Motor Vehicle
15	15	15	Non-Motorist on Personal Conveyance
16	16	16	Thrown or Falling Object
17	17	17	Boulder
18	18	18	Other Object *(Not Fixed)*
19	19	19	Building
20	20	20	Impact Attenuator/Crash Cushion
21	--	--	Bridge Pier or Abutment
--	21	21	Bridge Pier or Support
22	--	--	Bridge Parapet End
23	--	--	Bridge Rail
--	23	23	Bridge Rail *(Includes Parapet)*
24	24	24	Guardrail Face
25	25	25	Concrete Traffic Barrier
26	26	26	Other Traffic Barrier
27	--	--	Highway/Traffic Sign Post

V32 Most Harmful Event *(continued)*

Attribute Codes

2005-2009	*2010-2012*	*2013-Later*	
28	--	--	Overhead Sign Support/Sign
29	--	--	Luminary/Light Support
30	--	--	Utility Pole
--	30	30	Utility Pole/Light Support
31	31	31	Other Post, Other Pole, or Other Support
32	32	32	Culvert
33	33	33	Curb
34	34	34	Ditch
35	--	--	Embankment – Earth
--	35	35	Embankment
36	--	--	Embankment – Rock, Stone, or Concrete
37	--	--	Embankment – Material Type Unknown
38	38	38	Fence
39	39	39	Wall
40	40	40	Fire Hydrant
41	41	41	Shrubbery
42	42	42	Tree *(Standing Only)*
43	43	43	Other Fixed Object
44	--	--	Pavement Surface Irregularity
--	44	44	Pavement Surface Irregularity *(Ruts, Potholes, Grates, etc.)*
45	--	--	Working Construction, Maintenance or Utility Vehicles
--	45	45	Working Motor Vehicle
46	46	46	Traffic Signal Support
47	--	--	Vehicle Occupant Struck or Run Over by Own Vehicle
48	--	--	Collision With Snow Bank
--	48	48	Snow Bank
49	49	49	Ridden Animal or Animal-Drawn Conveyance
50	50	50	Bridge Overhead Structure
51	--	--	Jackknife
--	51	51	Jackknife *(Harmful to This Vehicle)*
52	52	52	Guardrail End
53	53	53	Mail Box
54	--	--	Motor Vehicle Struck by Falling/Shifting Cargo or Anything Set in Motion by Another Motor Vehicle in Transport
--	54	54	Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport
55	--	--	Other Not in-Transport Motor Vehicle *(2005-2007)*
55	55	55	Motor Vehicle in Motion Outside the Trafficway *(Since 2008)*
57	57	57	Cable Barrier *(Since 2008)*
--	58	58	Ground
--	59	59	Traffic Sign Support
--	72	72	Cargo/Equipment Loss or Shift *(Harmful to This Vehicle)*
--	--	73	Object Fell From Motor Vehicle In-Transport

V32 Most Harmful Event *(continued)*

Attribute Codes

2005-2009	*2010-2012*	*2013-Later*	
--	98	--	Not Reported *(2010 Only)*
99	99	99	Unknown

V33 Related Factors – Vehicle Level

Definition: This data element records factors related to this vehicle expressed by the investigating officer.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **VEH_CF1, VEH_CF2** ***2005-2009***
PVEH_SC1, PVEH_SC2 ***2010-Later***

Attribute Codes

2005-2009	*2010-2013*	*2014-Later*	
00	00	00	None
01	--	--	Tires *(Does Not Include Wheels, See Value 16)*
02	--	--	Brake System
03	--	--	Steering System- Tie Rod, Kingpin, Ball Joint, etc.
04	--	--	Suspension- Springs, Shock Absorbers, MacPherson struts, Axle Bearing, Control Arms, etc.
05	--	--	Power Train *(Power Train/Engine)*- Universal Joint, Drive Shaft, Transmission, etc.
06	--	--	Exhaust System
07	--	--	Headlights
08	--	--	Signal Lights
09	--	--	Other Lights
10	--	--	Horn
11	--	--	Mirrors
12	--	--	Wipers
13	--	--	Driver Seating and Control
14	--	--	Body, Doors, Hood, Other
15	--	--	Trailer Hitch
16	--	--	Wheels
17	--	--	Air Bags
18	--	--	Other Vehicle Defects
19	--	--	Safety Belts
--	30	--	3-Wheeled Motorcycle Conversion *(2012-2013)*
--	--	30	Multi-Wheeled Motorcycle Conversion
31	--	--	Hit-and-Run Vehicle *(2005-2008)*
32	32	32	Vehicle Registration for Handicapped
33	33	33	Vehicle Being Pushed by Non-Motorist
35	--	--	Reconstructed Vehicle *(2005-2007)*
35	35	35	Reconstructed/Altered Vehicle *(Since 2008)*
36	36	--	Electric/Alternative Fuel Vehicle
37	37	37	Transporting Children to/from Head Start/Day Care
39	39	39	Highway Construction, Maintenance or Utility Vehicle, In Transport *(Inside or Outside Work Zone)*

V33 Related Factors – Vehicle Level *(continued)*

Attribute Codes

2005-2009	*2010-2013*	*2014-Later*	
40	40	40	Highway Incident Response Vehicle
41	41	41	Police Fire or EMS Vehicle Working at the Scene of an Emergency or Performing Other Traffic Control Activities
42	42	42	Other Working Vehicle *(Not Construction, Maintenance, Utility, Police, Fire, or EMS Vehicle)*
43	--	--	Hazardous Materials/Cargo Released From This Vehicle *(2005-2006)*
44	44	44	Adaptive Equipment *(Since 2007)*
99	99	99	Unknown

V34 Fire Occurrence

Definition: This data element identifies whether a fire in any way related to the crash occurred in this vehicle.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **FIRE_EXP** ***2005-2009***

PFIRE ***2010-Later***

Attribute Codes

2005-2007	*2008*	*2009-Later*	
0	0	--	No Fire
--	--	0	No or Not Reported
1	1	--	Fire Occurred in This Vehicle during Crash
--	--	1	Yes
--	2	--	Fire Occurred in This Vehicle and Initiated Fire/Explosion in Another Vehicle

V100 Make Model Combined

Definition: This data element represents the 5-digit combined codes of the data elements MAKE and MODEL.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **MAK_MOD** ***2005-2009***

PMAK_MOD ***2010-Later***

Attribute Codes

2005-Later

See the current FARS/NASS GES Coding and Validation Manual for vehicle make and model codes.

V101 VIN Character 1

Definition: This data element represents the first character in the VIN string for this vehicle.

Additional Information:

SAS Name: **VIN_1** ***2005-2009***

PVIN_1 ***2010-Later***

Attribute Codes

2005-Later

x First Character in the VIN String

V102 VIN Character 2

Definition: This data element represents the second character in the VIN string for this vehicle.

Additional Information:

SAS Name: **VIN_2** ***2005-2009***

PVIN_2 ***2010-Later***

Attribute Codes

2005-Later

x Second Character in the VIN String

V103 VIN Character 3

Definition: This data element represents the third character in the VIN string for this vehicle.

Additional Information:

SAS Name: **VIN_3** ***2005-2009***

PVIN_3 ***2010-Later***

Attribute Codes

2005-Later

x Third Character in the VIN String

V104 VIN Character 4

Definition: This data element represents the fourth character in the VIN string for this vehicle.

Additional Information:

SAS Name: **VIN_4** ***2005-2009***

PVIN_4 ***2010-Later***

Attribute Codes

2005-Later

x Fourth Character in the VIN String

V105 VIN Character 5

Definition: This data element represents the fifth character in the VIN string for this vehicle.

Additional Information:

SAS Name: **VIN_5** ***2005-2009***

PVIN_5 ***2010-Later***

Attribute Codes

2005-Later

x Fifth Character in the VIN String

V106 VIN Character 6

Definition: This data element represents the sixth character in the VIN string for this vehicle.

Additional Information:

SAS Name: **VIN_6** ***2005-2009***

PVIN_6 ***2010-Later***

Attribute Codes

2005-Later

x Sixth Character in the VIN String

V107 VIN Character 7

Definition: This data element represents the seventh character in the VIN string for this vehicle.

Additional Information:

SAS Name: **VIN_7** ***2005-2009***

PVIN_7 ***2010-Later***

Attribute Codes

2005-Later

x Seventh Character in the VIN String

V108 VIN Character 8

Definition: This data element represents the eighth character in the VIN string for this vehicle.

Additional Information:

SAS Name: **VIN_8** ***2005-2009***

PVIN_8 ***2010-Later***

Attribute Codes

2005-Later

x Eighth Character in the VIN String

V109 VIN Character 9

Definition: This data element represents the ninth character in the VIN string for this vehicle.

Additional Information:

SAS Name: **VIN_9** ***2005-2009***

PVIN_9 ***2010-Later***

Attribute Codes

2005-Later

x Ninth Character in the VIN String

V110 VIN Character 10

Definition: This data element represents the tenth character in the VIN string for this vehicle.

Additional Information:

SAS Name: **VIN_10** ***2005-2009***

PVIN_10 ***2010-Later***

Attribute Codes

2005-Later

x Tenth Character in the VIN String

V111 VIN Character 11

Definition: This data element represents the eleventh character in the VIN string for this vehicle.

Additional Information:

SAS Name: **VIN_11** ***2005-2009***

PVIN_11 ***2010-Later***

Attribute Codes

2005-Later

x Eleventh Character in the VIN String

V112 VIN Character 12

Definition: This data element represents the twelfth character in the VIN string for this vehicle.

Additional Information:

SAS Name: **VIN_12** ***2005-2009***

PVIN_12 ***2010-Later***

Attribute Codes

2005-Later

x Twelfth Character in the VIN String

V150 Fatalities in Vehicle

Definition: This derived data element records the number of fatalities that occurred in this vehicle and is derived by counting all persons with "Injury Severity" of 4 in the vehicle.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **DEATHS** ***2005-2009***

PDEATHS ***2010-Later***

Attribute Codes

2005-Later

00-99 Number of Fatalities that Occurred in the Vehicle.

Discontinued PARKWORK Data Elements

Axle (discontinued)

Definition: This data element counts the total number of axles on the vehicle (and converter dolly), including the trailing units (includes raised axles).

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: AXLES

Attribute Codes

2005-2007

00	Not Applicable, Not a Medium/Heavy Truck or Bus
02-97	Number of Axles
98	Medium/Heavy Truck or Bus, Number of Axles Unknown
99	Unknown if Light or Medium/Heavy Truck or Bus

Carburetion (discontinued)

Definition: This data element identifies the number of barrels for the engine of this vehicle or a code indicating that the engine is high-performance, fuel-injected, turbocharged, or electronically-controlled.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: PCARBUR

Attribute Codes

2011-2012

0-8	Actual Number of Barrels
A	1 Barrel, Lower HP
B	1 Barrel, Higher HP
C	1 Barrel, Turbo
D	1 Barrel, Turbo Low HP
E	1 Barrel, Turbo High HP
F	Number of Barrels Not Specified, Fuel injection
G	1 Barrel, Electronically controlled
H	Number of Barrels Not Specified, High performance
J	2 Barrels, Lower HP
K	2 Barrels, Higher HP
L	2 Barrels, Turbo
M	2 Barrels, Turbo Low HP
N	2 Barrels, Turbo High HP
P	2 Barrels, Electronically controlled
Q	Number of Barrels Not Specified, Electronically controlled
R	4 Barrels, Electronically controlled
S	4 Barrels, Lower HP
T	1, 2 or 4 Barrels,Turbo Fuel Injected
U	4 Barrels, Higher HP
V	4 Barrels, Turbo
W	4 Barrels, Turbo Low HP
X	4 Barrels, Turbo High HP
Y	Number of Barrels Not Specified, Turbo
Z	Number of Barrels Not Specified, Super Charged

Crash Avoidance Maneuver (discontinued)

Definition: This data element is collected to indicate if an avoidance maneuver was taken by the driver to avoid the crash.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: AVOID

Attribute Codes

2005-2009

0 No Avoidance Maneuver Reported
1 Braking *(Skid Marks Evident)*
2 Braking *(No Skid Marks; Driver Stated)*
3 Braking *(Other Reported Evidence)*
4 Steering *(Evidence or Stated)*
5 Steering and Braking *(Evidence or Stated)*
6 Other Avoidance Maneuver
8 Not Reported / *(Inconclusive Since 1999, By Police)*

Commercial Motor Vehicle License Status (discontinued)

Definition: This data element indicates the status of the driver's Commercial Driver's License (CDL) if applicable.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: CDL_STAT

Attribute Codes

2005-2009

0 No Commercial Driver's License *(CDL)*
1 Suspended
2 Revoked
3 Expired
4 Cancelled or Denied
5 Disqualified
6 Valid
7 Learner's Permit
8 Other – Not Valid
9 Unknown CDL

Compliance with CDL Endorsements (discontinued)

Definition: This data element identifies whether the vehicle driven at the time of the crash required endorsement(s) on a Commercial Driver's License (CDL) and whether this driver was complying with the CDL endorsements.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: L_ENDORS

Attribute Codes

2005-2009

0	No Endorsements Required For This Vehicle
1	Endorsement(s) Required, Complied With
2	Endorsement(s) Required, Not Complied With
3	Endorsement(s) Required, Compliance Unknown
--	No Driver Present/Unknown if Driver Present
--	Not Reported
9	Unknown, if Required

Compliance with License Restrictions (discontinued)

Definition: This data element indicates whether this driver was compliant with restrictions on their license.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: L_RESTRI

Attribute Codes

1975-2009

0 No Restrictions or Not Applicable
1 Restrictions Complied With
2 Restrictions Not Complied With
3 Restrictions, Compliance Unknown
9 Unknown

Cubic Inch Displacement (discontinued)

Definition: This data element identifies the manufacturer's cubic inch displacement of the engine pistons for this vehicle.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: PDISPLACE

Attribute Codes

2011-2012

xxx Actual Cubic Inch Displacement *(cid)*

Curb Weight (discontinued)

Definition: This data element identifies the base weight of the series for this vehicle. This is available for Passenger Type Vehicles only (VINTYPE='P').

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **VIN_WGT** ***2005-2009***

PVIN_WGT ***2010-2012***

Attribute Codes

2005-2012

0	Not Available
1-9998	Actual weight of Automobile *(lbs)*
9999	Value Not Coded

Driver Drinking (discontinued)

Definition: This data element records whether the driver was drinking and is derived from data elements in the Vehicle and Person data files.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: DR_DRINK

Attribute Codes

2005-2009

0 No Drinking
1 Drinking

Driver Height (discontinued)

Definition: This data element identifies this driver's height (in inches).

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: DR_HGT

Attribute Codes

2005-2009

24-107	Actual Height in Inches
999	Unknown

Driver Presence (discontinued)

Definition: This data element identifies whether a driver was present in this vehicle at the onset of the unstabilized situation.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: DR_PRES

Attribute Codes

2005-2008	*2009*	
--	0	No Driver Present/Not Applicable
1	--	Driver Operated Vehicle
--	1	Yes
2	--	Driverless *(No Driver)*
3	--	Driver Left Scene
4	--	Motor Vehicle not In-Transport *(Parked/Stopped Off Roadway/ Working Motor Vehicle/In Motion Outside Trafficway, 2008 Only)*
4	--	Motor Vehicle not In-Transport *(Parked/Stopped Off Roadway/Working/ In Motion Outside Trafficway, 2005-2007)*
9	9	Unknown

Driver Weight (discontinued)

Definition: This data element identifies this driver's weight (in pounds).

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: DR_WGT

Attribute Codes

2005-2009

40-700	Actual Weight in Pounds
998	Other
999	Unknown

Driver's License State (discontinued)

Definition: This element identifies the state of issue for the license held by this driver.

Additional Information:

SAS Name: L_STATE

Attribute Codes

2005-2009

01 Alabama
02 Alaska
03 American Samoa
04 Arizona
05 Arkansas
06 California
08 Colorado
09 Connecticut
10 Delaware
11 District of Columbia
12 Florida
13 Georgia
14 Guam
15 Hawaii
16 Idaho
17 Illinois
18 Indiana
19 Iowa
20 Kansas
21 Kentucky
22 Louisiana
23 Maine
24 Maryland
25 Massachusetts
26 Michigan
27 Minnesota
28 Mississippi
29 Missouri
30 Montana
31 Nebraska
32 Nevada
33 New Hampshire
34 New Jersey
35 New Mexico
36 New York
37 North Carolina
38 North Dakota
39 Ohio
40 Oklahoma
41 Oregon
42 Pennsylvania
43 Puerto Rico
44 Rhode Island
45 South Carolina
46 South Dakota
47 Tennessee
48 Texas
49 Utah
50 Vermont
51 Virginia
52 Virgin Islands *(Since 2004)*
53 Washington
54 West Virginia
55 Wisconsin
56 Wyoming

94 Military *(2005-2006)*
94 U.S. Government *(Since 2007)*
95 Canada
96 Mexico
97 Other Foreign Country
99 Unknown

Driver's Vision Obscured by (discontinued)

Definition: This data element records impediments to a driver's visual field that were noted in the case materials.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **D_VISION1, D_VISION2, D_VISION3**

Attribute Codes

2009

00 No Obstruction Noted
01 Rain, Snow, Fog, Smoke, Sand, Dust
02 Reflected Glare, Bright Sunlight, Headlights
03 Curve, Hill, or Other Roadway Design Features
04 Building, Billboard, or Other Structure
05 Trees, Crops, Vegetation
06 In-Transport Motor Vehicle *(Including Load)*
07 Not-in-Transport Motor Vehicle *(Parked, Working)*
08 Splash or Spray of Passing Vehicle
09 Inadequate Defrost or Defog System
10 Inadequate Vehicle Lighting System
11 Obstructing Interior to the Vehicle
12 External Mirrors
13 Broken or Improperly Cleaned Windshield
14 Obstructing Angles on Vehicle
97 Vision Obscured – No Details
98 Other Visual Obstruction
99 Unknown

Driver's ZIP Code (discontinued)

Definition: This data element records the zip code of the driver's address as listed in the case material.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **DR_ZIP**

Attribute Codes

2005-2009

00000	Not a Resident of U. S. or Territories
xxxxx	Actual Zip Code, Five Numeric
99999	Unknown

Fuel Code (discontinued)

Definition: This data element identifies the fuel type for this vehicle determined by the manufacturer specification and recommendation.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **FLDCD_TR** ***2005-2009***

PFUECODE ***2010-2012***

Attribute Codes

2005-2009	***2010-2012***	
--	B	Electric and Gasoline Hybrid Engine
C	C	Gasoline Engine That Can Be Easily Converted to Gaseous-Powered Engine *(Powered by Natural Gas, Propane, etc.)*
D	D	Diesel
E	E	Electric
F	F	Flexible Fuel
G	G	Gas
H	H	Ethanol Fuel Only
M	M	Methanol Gas Only
N	N	Compressed Natural Gas
P	P	Propane
9	9	Unknown

Hazardous Material Involvement/Placard (discontinued)

Definition: This data element identifies the presence of hazardous cargo for this vehicle and records information about the hazardous cargo when present.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: HAZ_CARG

Attribute Codes

2005-2006

0	No
--	Yes
1	Yes, Placarded
2	Yes, Not Placarded
3	Yes, Unknown if Placarded
9	Unknown

Jackknife (discontinued)

Definition: This data element identifies whether this vehicle experienced a jackknife anytime during the unstabilized situation.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: J_KNIFE

Attribute Codes

2005-2009

0 Not an Articulated Vehicle
1 No
2 Yes, First Event
3 Yes, Subsequent Event

License Compliance with Class of Vehicle (discontinued)

Definition: This data element identifies the type of license possessed or not possessed by this driver for the class of vehicle being driven at the time of the crash.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **L_COMPL**

2005-2009

0 Not Licensed
1 No License Required for This Class Vehicle
2 No Valid License for This Class Vehicle
3 Valid License for This Class Vehicle
8 Unknown if CDL and/or CDL Endorsement Required for This Vehicle
9 Unknown

More Information on Driver License Type Compliance

Location of Rollover (discontinued)

Definition: This data element identifies the location of the trip point or start of this vehicle's roll.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: ROLINLOC

Attribute Codes

2009

0 No Rollover
1 On Roadway
2 On Shoulder
3 On Median/Separator
4 In Gore
5 On Roadside
6 Outside of Trafficway
9 Unknown

Month of First Crash, Suspension or Conviction (discontinued)

Definition: This data element records the month of the first crash, suspension, or conviction for this driver that occurred within three years of the crash date.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: FIRST_MO

Attribute Codes

2005-2009

00	No Record
01	January
02	February
03	March
04	April
05	May
06	June
07	July
08	August
09	September
10	October
11	November
12	December
99	Unknown

Month of Last Crash, Suspension or Conviction (discontinued)

Definition: This data element records the month of the last crash, suspension, or conviction for this driver that occurred within three years of the crash date.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: LAST_MO

Attribute Codes

2005-2009

00	No Record
01	January
02	February
03	March
04	April
05	May
06	June
07	July
08	August
09	September
10	October
11	November
12	December
99	Unknown

Most Damaged Area (discontinued)

Definition: This data element identifies the area on this vehicle that was most damaged during an event in the crash.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: PIMPACT2

Attribute Codes

2005-2009	***2010-2011***	
00	00	Non-Collision
01-12	01-12	Clock points
13	13	Top
14	14	Undercarriage
18	--	This Vehicle Set Something in Motion Causing Injury or Damage *(Not a Clock Point)*
--	18	Set-in-Motion *(Not a Clock Point)*
--	61	Left
--	62	Left-Front Half
--	63	Left-Back Half
--	81	Right
--	82	Right-Front Half
--	83	Right-Back Half
--	98	Not Reported
99	99	Unknown

More Information on Impact

Motorcycle Dry Weight (discontinued)

Definition: This data element identifies the dry weight of this motorcycle model.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: PMCYCL_WT

Attribute Codes

2011-2012

xxxx Weight *(lbs)*

Motorcycle Engine Displacement (CC) (discontinued)

Definition: This data element identifies the piston bore measured in cubic centimeters for this motorcycle.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **MCYCL_DS** ***2005-2009***

PMCYCL_DS ***2010-2012***

Attribute Codes

2005-2012

xxxx Actual Displacement *(cc)*

Non-CDL License Status (discontinued)

Definition: This data element identifies the status of the driver's license at the time of the crash.

Additional Information:

SAS Name: L_STATUS

Attribute Codes

2005-2009

0 Not Licensed
1 Suspended
2 Revoked
3 Expired
4 Cancelled or Denied
6 Valid License
9 Unknown License Status

Non-CDL License Type (discontinued)

Definition: This data element identifies the type of license held by this driver at the time of the crash.

Additional Information:

SAS Name: L_TYPE

Attribute Codes

2005-2009

0 Not Licensed
1 Full Driver License
2 Intermediate Driver License
-- No Driver Present/Unknown if Driver Present
7 Learner's Permit
8 Temporary License
9 Unknown License Type

More Information on Driver License Status/Type

Number of Cylinders (discontinued)

Definition: This data element identifies the number of cylinders for the engine of this vehicle.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: PCYLINDER

Attribute Codes

2011-2012

0-18	Number of Cylinders
R	Rotary Engine

Number of Motorcycle Engine Cycles (discontinued)

Definition: This data element identifies the number of engine cycles for this motorcycle model.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: PMCYCL_CY

Attribute Codes

2011-2012

2	Two-stroke engine
4	Four-stroke engine
R	Rotary engine

Number of Wheels/Drive Wheels (discontinued)

Definition: This data element identifies the number of wheels/driving wheels for this truck (trucks only, VINTYPE='T'). The length of this data element is two digits; the first position represents the number of axles on the vehicle times two and the second position represents the number of drive axles times two.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: PWHLDRWHL

Attribute Codes

2011-2012

xx Number of Wheels *(1st digit)* followed by the Number of Drive Wheels *(2nd digit)*

Original Tire Size (discontinued)

Definition: This data element identifies the manufacturer's original equipment specified tire size for the series of this vehicle. The length of this data element is six characters; the first two positions represent rim size and the remaining four positions represent tire size.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: PTIRE_SZE

Attribute Codes

2011-2012

xxxxxx	6-Character Tire Size

Previous DWI Convictions (discontinued)

Definition: This data element records any previous DWI convictions for this driver that occurred within three years of the crash date.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **PREV_DWI**

Attribute Codes

2005-2009

00	None
01-97	Actual Value
99	Unknown

Previous Other Harmful Moving Violation Convictions (discontinued)

Definition: This data element records any other previous moving violations or convictions for this driver that occurred within three years of the crash date.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **PREV_OTH**

Attribute Codes

2005-2009

00	None
01-97	Actual Value
99	Unknown

Previous Recorded Crashes (discontinued)

Definition: This data element records any previous crashes for this driver that occurred within three years of the crash date.

Additional Information See this data element in the Vehicle data file section for more information.

SAS Name: **PREV_ACC**

Attribute Codes

2005-2009

00	None
01-97	Actual Value
98	Not Reported on Driving Record
99	Unknown

Previous Recorded Suspensions and Revocations (discontinued)

Definition: This data element records any previous license suspensions or revocations for this driver that occurred within three years of the crash date.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **PREV_SUS**

Attribute Codes

2005-2009

00	None
01-97	Actual Value
99	Unknown

Previous Speeding Convictions (discontinued)

Definition: This data element records any previous speeding convictions for this driver that occurred within three years of the crash date.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **PREV_SPD**

Attribute Codes

2005-2009

00	None
01-97	Actual Value
99	Unknown

Related Factors- Driver Level (discontinued)

Definition: This data element records factors related to this driver expressed by the investigating officer.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: DR_CF1, DR_CF2, DR_CF3, DR_CF4

Attribute Codes

2005-2009

00 None

PHYSICAL/MENTAL CONDITION

01 Drowsy, Sleepy, Asleep, Fatigued
02 Ill, Passed Out/Blackout
03 Emotional *(e.g., Depression, Angry, Disturbed)*
04 Reaction to or Failure to Take Drugs/Medication
05 Under the Influence of Alcohol, Drugs, or Medication
06 Inattentive/Careless *(Talking, Eating, Car Phones, etc.)*
07 Restricted to Wheelchair
08 Road Rage/Aggressive Driving
09 Impaired Due to Previous Injury
11 Other Physical Impairment *(Includes Paraplegic)*
12 Mother of Dead Fetus/Mother of Infant Born Post Crash
13 Mentally Challenged
15 Seat Back Not in Normal Position, Seat Back Reclined

MISCELLANEOUS FACTORS

16 Police or Law Enforcement Officer
18 Traveling on Prohibited Trafficways
19 Legally Driving on Suspended or Revoked License
20 Leaving Vehicle Unattended with Engine Running; Leaving Vehicle Unattended in Roadway
21 Overloading or Improper Loading of Vehicle with Passenger or Cargo
22 Towing or Pushing Vehicle Improperly
23 Failing to Dim Lights or to Have Lights on When Required
24 Operating Without Required Equipment
25 Creating Unlawful Noise or Using Equipment Prohibited by Law
26 Following Improperly
27 Improper or Erratic Lane Changing
28 Failure to Keep in Proper Lane
29 Illegal Driving on Road Shoulder, in Ditch, or Sidewalk, or on Median
30 Making Improper Entry to or Exit from Trafficway
31 Starting or Backing Improperly
32 Opening Vehicle Closure into Moving Traffic or Vehicle is in Motion
33 Passing Where Prohibited by Posted Signs, Pavement Markings, Hill or Curve, or School Bus Displaying Warning Not to Pass

D24 Related Factors- Driver Level *(continued)*

Attribute Codes

2005-2009

34 Passing on Wrong Side
35 Passing with Insufficient Distance or Inadequate Visibility or Failing to Yield to Overtaking Vehicle
36 Operating the Vehicle in an Erratic, Reckless, Careless or Negligent Manner or Operating at Erratic or Suddenly Changing Speeds
37 High-Speed Chase with Police in Pursuit *(See Police Pursuit Note)*
-- Police Pursuing this Driver or Police Officer in Pursuit
38 Failure to Yield Right of Way
39 Failure to Obey Actual Traffic Signs, Traffic Control Devices or Traffic Officers, Failure to Observe Safety Zone Traffic Laws
40 Passing Through or Around Barrier
41 Failure to Observe Warnings or Instructions on Vehicle Displaying Them
42 Failure to Signal Intentions
43 Driving too Fast for Conditions *(2008 Only)*
44 Driving too Fast for Conditions or in Excess of Posted Speed Limit *(2005-2007)*
44 Driving in Excess of Posted Speed Limit *(2008 Only)*
45 Driving Less Than Posted Maximum
46 Racing *(2005-2008)*
47 Making Right Turn from Left-Turn Lane or Making Left Turn from Right-Turn Lane
48 Making Improper Turn
50 Driving Wrong Way on One-Way Trafficway
51 Driving on Wrong Side of Road *(Intentionally or Unintentionally)*
52 Operator Inexperience
53 Unfamiliar With Roadway
54 Stopping in Roadway *(Vehicle Not Abandoned)*
55 Underriding a Parked Truck *(2005-2008)*
56 Improper Tire Pressure *(2005 Only)*
57 Locked Wheel
58 Over Correcting
59 Getting Off/Out of or On/In to Moving Vehicle

VISION OBSCURED BY

61 Rain, Snow, Fog, Smoke, Sand, Dust *(2005-2008)*
62 Reflected Glare, Bright Sunlight, Headlights *(2005-2008)*
63 Curve, Hill, or Other Design Features *(Including Traffic Signs, Embankment 2005-2008)*

D24 Related Factors- Driver Level *(continued)*

Attribute Codes

2005-2009

SPECIAL CIRCUMSTANCES

73 Driver Has Not Complied with Learners Permit or Intermediate Driver License Restrictions *(GDL Restrictions)*
74 Driver Has Not Complied With Physical or Other Imposed Restrictions
75 Broken or Improperly Cleaned Windshield *(2005-2008)*
76 Other Obstruction *(2005-2008)*

SKIDDING, SWERVING, OR SLIDING DUE TO

77 Severe Crosswind
78 Wind from Passing Truck
79 Slippery or Loose Surface
80 Tire Blow-Out or Flat
81 Debris or Objects in Road
82 Ruts, Holes, Bumps in Road
83 Live Animals in Road
84 Vehicle in Road
85 Phantom Vehicle
86 Pedestrian, Pedalcyclist, or Other Non-Motorist in Road
87 Ice, Water, Snow, Slush, Sand, Dirt, Oil, Wet Leaves on Road
88 Trailer Fishtailing or Swaying

OTHER MISCELLANEOUS FACTORS

89 Carrying Hazardous Cargo Improperly *(2005-2009)*
-- Driver has a Driving Record or Driver's License from More than One State
90 Hit-and-Run Vehicle Driver
91 Non-Traffic Violation Charged *(Manslaughter, Homicide or Other Assault Offense Committed Without Malice)*
92 Other Non-Moving Traffic Violation

POSSIBLE DISTRACTIONS INSIDE VEHICLE

93 Cellular Telephone
94 Cellular Telephone in Use in Vehicle
95 Computer Fax Machines/Printers
96 On-Board Navigation System
97 Two-Way Radio
98 Head-Up Display
99 Unknown

Rollover (discontinued)

Definition: This data element identifies this vehicle's involvement in a rollover or overturn during the crash. Rollover is defined as any vehicle rotation of 90 degrees or more about any true longitudinal or lateral axis. Rollover can occur at any time during the crash.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: ROLLOVER

Attribute Codes

2005-2008	*2009*	
0	0	No Rollover
1	--	First Event
--	1	Rollover, Tripped by Object/Vehicle
2	--	Subsequent Event
--	2	Rollover, Untripped
--	9	Rollover, Unknown Type

Sequence of Events (discontinued)

Definition: The events in sequence related to this motor vehicle, regardless of injury and/or property damage. Events for the vehicle are recorded in the order in which they occur, time-wise, from the PAR narrative and diagram.

Additional Information: See this data element in the Vehicle data file section for more information..

SAS Name: SEQ1, SEQ2, SEQ3, SEQ4, SEQ5, SEQ6

Attribute Codes

2005-2009

01	Rollover/Overturn
02	Fire/Explosion
03	Immersion
04	Gas Inhalation
05	Fell/Jumped from Vehicle
06	Injured in Vehicle
07	Other Non-Collision
08	Pedestrian
09	Pedalcycle
10	Railway Train
11	Animal
12	Motor Vehicle in Transport on Same Roadway
13	Motor Vehicle in Transport on Other Roadway
14	Parked Motor Vehicle
15	Non-Motorist on Personal Conveyance
16	Thrown or Falling Object
17	Boulder
18	Other Object *(Not Fixed)*
19	Building
20	Impact Attenuator/Crash Cushion
21	Bridge Pier or Abutment
22	Bridge Parapet End
23	Bridge Rail
24	Guardrail Face
25	Concrete Traffic Barrier
26	Other Traffic Barrier
27	Highway/Traffic Sign Post
28	Overhead Sign Support/Sign
29	Luminary/Light Support
30	Utility Pole
31	Other Post, Other Pole, or Other Support
32	Culvert

Speeding Related (discontinued)

Definition: This data element records whether the driver's speed was related to the crash as indicated by law enforcement.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: SPEEDREL

Attribute Codes

2009

0 No
1 Yes
9 Unknown

More Information on Speeding

Travel Speed (discontinued)

Definition: This data element records the speed the vehicle was traveling prior to the occurrence of the crash as reported by the investigating officer.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: TRAV_SP

Attribute Codes

2005-2008	*2009*	
00	000	Stopped Motor Vehicle in Transport
01-96	001-151	Reported Speed Up to 151 mph
97	--	Speed Greater than 96 mph
--	997	Speed Greater than 151 mph
98	998	Not Reported
99	999	Unknown

Truck Ton Rating (discontinued)

Definition: This data element identifies the payload capacity of this vehicle based on manufacturer's specifications. The length of this data element is two characters. A single code indicates a single capacity rating. Two codes indicate a range of capacity rating. For example, a Ford F150 pickup truck with a payload capacity from ½ to ¾ tons would have a rating of "BC."

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: PTON_RAT

Attribute Codes

2011-2012

A	¼
B	½
C	¾
D	1
E	1 ½
F	1 ¾
G	2
H	2 ½
I	3
J	3 ½
K	4
L	4 ½
M	5
N	6
O	7
P	8
Q	9
R	10 and Over

Truck Shipping Weight (discontinued)

Definition: This data element identifies the shipping weight for the shortest wheel base of this truck model.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: PTRK_WT

Attribute Codes

2011-2012

xxxxx	Actual Shipping Weight *(lbs)*

Truck Shipping Weight Variance (discontinued)

Definition: This data element identifies the difference (coded in 100 pound increments) between the shipping weights of the shortest wheel base and the longest wheel base for this truck model. (e.g., a 200 lb. difference appears as "02".) Incremental weights for optional equipment are not included.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: PTRKWTVAR

Attribute Codes

2011-2012

xx Shipping Weight Variance *(100 lbs)*

Truck VIN Restraint Type (discontinued)

Definition: This data element identifies restraint type information for this truck. This includes information about vehicle seat belts and air bags.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: PVIN_REST

Attribute Codes

2011-2012

A	Active *(Manual)* belts
B	Driver front air bag/passenger side belt unknown
C	Dual front air bags/belt system unknown
D	Dual front air bag/passenger side passive belts
E	Dual front air bags/active belts
F	Dual front air bags/passive belts
G	Dual air bags front and side/belts unknown
H	Dual air bags front, head and sides/belts unknown
I	Dual air bags front, head and sides/passive belts
J	Dual air bags front and sides/passive belts
K	Dual air bags front and sides/active belts
L	Dual air bags front, head and sides/active belt
M	Driver front air bag/passenger side active belt
N	If unable to determine
P	Passive *(Automatic)* belts
R	Dual air bags front and side/active belts w/ automatic passenger sensor
S	Dual air bags front, head, and side/active belts w/ automatic passenger sensor
T	Dual air bags front/active belts/rear passenger side air bag
U	Dual front air bags/active belts with passenger side deactivation cutoff switch
V	Dual air bags front, head and side/active belts/rear dual side air bags
W	Dual air bags front, head and side/active belts w/ automatic passenger sensor/ rear dual side airbags
X	Dual air bags front/side air bag, driver-side only/active belts
Y	Dual front and side air bags with passenger deactivation switch
3	Dual front & head airbags with passenger sensor; active belts
4	Dual front airbags with passenger sensor; active belts
7	Dual front, side & head airbags, Rear head airbags; active belts
9	Unknown

Truck Weight Rating (discontinued)

Definition: This data element identifies weight ranges for this truck of model year 1966 and later based on manufacturer specifications.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **WGTCD_TR** ***2005-2009***

PWGTCD_TR ***2010-2012***

Attribute Codes

2005-2012

1 6,000 lbs or Less
2 6,001 - 10,000 lbs
3 10,001 - 14,000 lbs
4 14,001 - 16,000 lbs
5 16,001 - 19,500 lbs
6 19,501 - 26,000 lbs
7 26,001 - 33,000 lbs
8 33,001 and Up
9 Unknown

Vehicle Maneuver (discontinued)

Definition: This data element captures the driver's action, or intended action, prior to the commencement of the unstabilized event as indicated on the crash report.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: VEH_MAN

Attribute Codes

2005-2009

01 Going Straight
02 Slowing or Stopping in Traffic Lane
03 Starting in Traffic Lane
04 Stopped in Traffic Lane
05 Passing or Overtaking another Vehicle
06 Leaving a Parked Position
07 Parked
08 Entering a Parked Position
09 Maneuvering to Avoid
10 Turning Right: Right Turn on Red Permitted
11 Turning Right: Right Turn on Red Not Permitted
12 Turning Right: Right Turn on Red Not Applicable or Not Known if Permitted
13 Turning Left
14 Making a U-Turn
15 Backing Up *(Not Parking)*
16 Changing Lanes or Merging
17 Negotiating a Curve
98 Other
99 Unknown

Vehicle Role (discontinued)

Definition: This data element Indicates the vehicle's role in single or multi-vehicle crashes.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: IMPACTS

Attribute Codes

2005-2009

0 Non-Collision
1 Striking
2 Struck
3 Both
9 Unknown

VIN Body Type (discontinued)

Definition: This data element identifies the two-character representation of this vehicle's body style.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **VIN_BT** ***2005-2009***

PVIN_BT ***2010-2012***

Attribute Codes

2005-2009	*2010-2012*	
2D	2D	Passenger Vehicle Sedan 2-Door
2F	2F	Passenger Vehicle Formal Hardtop 2-Door
2H	2H	Passenger Vehicle Hatchback 2-Door
2L	2L	Passenger Vehicle Liftback 3-Door
2P	2P	Passenger Vehicle Pillard Hardtop 2-Door
2T	2T	Passenger Vehicle Hardtop 2-Door
2W	2W	Truck 2-Door Wagon/Sport Utility
2W	2W	Passenger Vehicle Wagon 2-Door
--	3B	Truck 3-Door Extended Cab/Chassis
--	3C	Truck 3-Door Extended Cab Pickup
3D	3D	Passenger Vehicle Runabout 3-Door
--	3P	Passenger Vehicle Coupe 3-Door
--	4B	Truck 4-Door Extended Cab/Chassis
--	4C	Truck 4-Door Extended Cab Pickup
4D	4D	Passenger Vehicle Sedan 4-Door
4H	4H	Passenger Vehicle Hatchback 4-Door
4L	4L	Passenger Vehicle Liftback 5-Door
4P	4P	Passenger Vehicle Pillard Hardtop 4-Door
4T	4T	Passenger Vehicle Hardtop 4-Door
4W	4W	Truck 4-Door Wagon/Sport Utility
4W	4W	Passenger Vehicle Wagon 4-Door
5D	5D	Passenger Vehicle Sedan 5-Door
8V	8V	Truck 8-Passenger Sport Van
AC	AC	Truck Auto Carrier
AM	AM	Passenger Vehicle Ambulance
AR	AR	Truck Armored Truck
AT	AT	Motorcycle All-Terrain
BU	BU	Bus
--	C4	Passenger Vehicle Coupe 4-Door
CB	CB	Truck Chassis and Cab
CB	CB	Passenger Vehicle Cab & Chassis *(Luv)*
CC	CC	Truck Conventional Cab
CG	CG	Truck Cargo Van
CH	CH	Truck Crew Chassis
CL	CL	Truck Club Chassis

V116 VIN Body Type *(continued)*

Attribute Codes

2005-2009	*2010-Later*	
CM	CM	Truck Concrete or Transit Mixer
CP	CP	Truck Crew Pickup
CP	CP	Passenger Vehicle Coupe
CR	CR	Truck Crane
CS	CS	Truck Super Cab/Chassis Pickup
CU	CU	Truck Custom Pickup
CV	CV	Truck Convertible *(Jeep Commando, Suzuki Samurai, Dodge Dakota)*
CV	CV	Passenger Vehicle Convertible
CY	CY	Truck Cargo Cutaway
DP	DP	Truck Dump
DS	DS	Truck Tractor Truck *(Diesel)*
EC	EC	Truck Extended Cargo Van
EN	EN	Motorcycle Enduro
ES	ES	Truck Extended Sport Van
EV	EV	Truck Extended Van
EW	EW	Truck Extended Window Van
FB	FB	Truck Flat-bed or Platform
FC	FC	Truck Forward Control
FT	FT	Truck Fire Truck
GG	GG	Truck Garbage or Refuse
GL	GL	Truck Gliders
GN	GN	Truck Grain
HB	HB	Passenger Vehicle Hatchback Number Doors Unknown
HO	HO	Truck Hopper
HR	HR	Passenger Vehicle Hearse
HT	HT	Passenger Vehicle Hardtop Number Doors Unknown
IC	IC	Truck Incomplete Chassis
IE	IE	Truck Incomplete Ext Van
--	IN	Passenger Vehicle Incomplete Passenger
LB	LB	Passenger Vehicle Liftback
LG	LG	Truck Logger
LL	LL	Truck Suburban & Carry-All
LM	LM	Passenger Vehicle Limousine
--	LM	Truck Limousine
MH	MH	Truck Motorized Home
MK	MK	Motorcycle Mini-Bike
MN	MM	Motorcycle Mini Moto Cross
MM	MP	Motorcycle Moped
MP	MP	Truck Multipurpose
MR	MR	Motorcycle Mini Road/Trail
MS	MS	Motorcycle Motor Scooter
MV	MV	Truck Maxi-Van
--	MW	Truck Maxi Wagon

V116 VIN Body Type *(continued)*

Attribute Codes

2005-2009	*2010-Later*	
MX	MX	Motorcycle Moto Cross
MY	MY	Truck Motorized Cutaway
MY	MY	Motorcycle Mini-Cycle
NB	NB	Passenger Vehicle Notchback
--	P2	Passenger Vehicle 2-Passenger Low Speed
--	P2	Passenger Vehicle 4-Passenger Low Speed
PC	PC	Truck Club Cab Pickup
PD	PD	Truck Parcel Delivery
PK	PK	Truck Pickup
PK	PK	Passenger Vehicle Pickup, Truck Commonly Registered Passengers
PM	PM	Truck Pickup with Camper Mounted on Bed
PN	PN	Truck Panel
PS	PS	Truck Super Cab Pickup
RC	RC	Motorcycle Racer
PN	PN	Passenger Vehicle Panel, Truck Commonly Registered as Passengers
RD	RD	Truck Roadster *(Jeep, Jeep Commando)*
RD	RD	Passenger Vehicle Roadster
RS	RS	Motorcycle Road/Street
RT	RT	Motorcycle Road/Trail
S1	S1	Truck One-Seat
S2	S2	Truck Two-Seat
SB	SB	Passenger Vehicle Sport Hatchback
SC	SC	Passenger Vehicle Sport Coupe
SD	SD	Passenger Vehicle Sedan, number doors unknown
SN	SN	Truck Step Van
SP	SP	Truck Sport Pickup
ST	ST	Truck Stake or Rack
SV	SV	Truck Sports Van
SV	SV	Passenger Vehicle Sport Van
SW	SW	Passenger Vehicle Station Wagon
SW	SW	Truck Station Wagon *(Jeep Wagoneer, etc.)*
T	T	Motorcycle Dirt
TB	TB	Truck Tilt Cab
TL	TL	Truck Tilt Tandem
TL	TL	Motorcycle Trail/Dirt
TM	TM	Truck Tandem
TN	TN	Truck Tank
TR	TR	Motorcycle Trails
TR	TR	Truck Tractor *(Gasoline)*
UT	UT	Passenger Vehicle Utility, truck commonly registered as passenger
UT	UT	Truck Utility *(Blazer, Jimmy, Scout, etc.)*
VC	VC	Truck Van Camper
VD	VD	Truck Display Van

V116 VIN Body Type *(continued)*

Attribute Codes

2005-2009	*2010-Later*	
VN	VN	Truck Van
VT	VT	Truck Vanette *(Includes Metro and Handy Van)*
VW	VW	Truck Window Van
WK	WK	Truck Tow Truck Wrecker
WW	WW	Truck Wide Wheel Wagon
WW	WW	Passenger Vehicle Wide-Wheel Wagon
XT	XT	Truck Travel-all
YY	YY	Truck Cutaway
99	99	Unknown

VIN Length (discontinued)

Definition: This data element identifies the actual length of the VIN for this vehicle.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **VIN_LNGT** ***2005-2009***

PVIN_LNGT ***2010-2012***

Attribute Codes

2005-2012

1-17	Actual Value
99	Unknown VIN Length

VIN Make (discontinued)

Definition: This data element identifies the National Crime Information Center (NCIC) Standard Make Abbreviation for this vehicle.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: PVINMAKE

Attribute Codes

2010-2012

xxxx 4-Character Make Abbreviation

VIN Model (discontinued)

Definition: This data element identifies the VIN model for this vehicle obtained from the VINA program.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **VINA_MOD** ***2005-2009***

PVINA_MOD ***2010-2012***

Attribute Codes

2005-2012

xxx 3-Character Model *(Series)* Abbreviation

VIN Model Year (discontinued)

Definition: This data element identifies the model year of this vehicle.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: PVINMODYR

Attribute Codes

2010-2012

xx 2-Digit Model Year

VIN Truck Series (discontinued)

Definition: This data element identifies the model (series) of this truck.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **SER_TR** ***2005-2009***

PSER_TR ***2010-2012***

Attribute Codes

2005-2012

xxx 3-Character Model *(Series)* Abbreviation

VIN Vehicle Type (discontinued)

Definition: This data element identifies the basic vehicle type of his vehicle from the VINA program.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: PVINTYPE

Attribute Codes

2010-2012

P	Passenger Vehicle
T	Truck
M	Motorcycle
U	Unknown

Violations Charged (discontinued)

Definition: This data element identifies violations charged to this driver in this crash.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: VIOLCHG1, VIOLCHG2, VIOLCHG3

Attribute Codes

2005-2009

00 None

RECKLESS/CARELESS/HIT-AND-RUN OFFENSES

01 Manslaughter or Homicide
02 Willful Reckless Driving; Driving to Endanger; Negligent Driving
03 Unsafe Reckless *(Not Willful, Wanton Reckless)* Driving
04 Inattentive, Careless, Improper Driving
05 Fleeing or Eluding Police
06 Fail to Obey Police, Fireman, Authorized Person Directing Traffic
07 Hit-and-Run, Fail to Stop After Crash
08 Fail to Give Aid, Information, Wait for Police after Crash
09 Serious Violation Resulting in Death

IMPAIRMENT OFFENSES

11 Driving While Intoxicated *(Alcohol or Drugs)* or BAC above Limit *(Any Detectable BAC for CDLs)*
12 Driving While Impaired; Driving Under Influence of Substance Not Intended to Intoxicate
13 Driving under Influence of Substance not intended to intoxicate
14 Drinking While Operating
15 Illegal Possession of Alcohol or Drugs
16 Driving With Detectable Alcohol
18 Refusal to Submit to Chemical Test
19 Alcohol, Drug, or Impairment Violations Generally

SPEED-RELATED OFFENSES

21 Racing
22 Speeding *(Above the Speed Limit)*
23 Speed Greater Than Reasonable and Prudent *(Not Necessarily Over the Limit)*
24 Exceeding Special Speed Limit *(e.g., for Trucks, Buses, Cycles, or on Bridge, in School Zone, etc.)*
25 Energy Speed *(Exceeding 55 mph, Non-Pointable)*
26 Driving Too Slowly
29 Speed-Related Violations Generally

Violations Charged *(continued)*

2005-2009

RULES OF THE ROAD – TRAFFIC SIGN & SIGNALS

31 Fail to Stop for Red Signal
32 Fail to Stop for Flashing Red
33 Violation of Turn on Red *(Fail to Stop & Yield, Yield to Pedestrians before Turning)*
34 Fail to Obey Flashing Signal *(Yellow or Red)*
35 Fail to Obey Signal Generally
36 Violate RR Grade Crossing Device/Regulations
37 Fail to Obey Stop Sign
38 Fail to Obey Yield Sign
39 Fail to Obey Traffic Control Device Generally

RULES OF THE ROAD – TURNING, YIELDING, SIGNALING

41 Turn in Violation of Traffic Control *(Disobey Signs, Turn Arrow Or Pavement Markings; This Is Not A Right-On-Red Violation)*
42 Improper Method & Position of Turn *(Too Wide, Wrong Lane)*
43 Fail to Signal for Turn or Stop
45 Fail to Yield to Emergency Vehicle
46 Fail to Yield Generally
48 Enter Intersection When Space Insufficient
49 Turn, Yield, Signaling Violations Generally

RULES OF THE ROAD – WRONG SIDE, PASSING & FOLLOWING

51 Driving Wrong Way on One-Way Road
52 Driving on Left, Wrong Side of Road Generally
53 Improper, Unsafe Passing
54 Pass on Right *(Drive off Pavement to Pass)*
55 Pass Stopped School Bus
56 Fail to Give Way When Overtaken
58 Following Too Closely
59 Wrong Side, Passing, Following Violations Generally

RULES OF THE ROAD – LANE USAGE

61 Unsafe or Prohibited Lane Change
62 Improper Use of Lane *(Enter of 3-Lane Road, HOV Designated Lane)*
63 Certain Traffic to Use Right Lane *(Trucks, Slow Moving, etc.)*
66 Motorcycle Lane Violations *(More than two per Lane, Riding Between Lanes, etc.)*
67 Motorcyclist Attached to another Vehicle
69 Lane Violations Generally

NON-MOVING – LICENSE & REGISTRATION VIOLATIONS

71 Driving While License Withdrawn
72 Other Driver License Violations
73 Commercial Driver Violations
74 Vehicle Registration Violations
75 Fail to Carry Insurance Card
76 Driving Uninsured Vehicle
79 Non-Moving Violations Generally

Violations Charged *(continued)*

2005-2009

EQUIPMENT

81 Lamp Violations
82 Brake Violations
83 Failure to Require Restraint Use *(By Self or Passenger)*
84 Motorcycle Equipment Violations *(Helmet, Special Equipment)*
85 Violation of Hazardous Cargo Regulations
86 Size, Weight, Load Violations
89 Equipment Violations Generally

OTHER VIOLATIONS

91 Parking
92 Theft, Unauthorized Use of Motor Vehicle
93 Driving Where Prohibited *(Sidewalk, Limited Access, Off Truck Route)*
98 Other Moving Violation
99 Unknown Violation

Wheelbase Long (discontinued)

Definition: This data element identifies the longest wheelbase respectively for the manufactured model of this vehicle.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **WHLBS_LG** ***2005-2009***

PWHLBS_LG ***2010-2012***

Attribute Codes

2005-2012

0000	Value Not Available from the VINA Program
1-9998	Actual Value *(in)*
9999	Value Not Coded

Wheelbase Short (discontinued)

Definition: This data element identifies the shortest wheelbase respectively for the manufactured model of this vehicle.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: **WHLBS_SH** ***2005-2009***

PWHLBS_SH ***2010-2012***

Attribute Codes

2005-2012

0000	Value Not Available from the VINA Program
1-9998	Actual Value *(in)*
9999	Value Not Coded

Year of First Crash, Suspension or Conviction (discontinued)

Definition: This data element records the year of the first crash, suspension, or conviction for this driver that occurred within three years of the crash date.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: FIRST_YR

Attribute Codes

2005-2009

0000	No Record
xxxx	Actual Year
9999	Unknown

Year of Last Crash, Suspension or Conviction (discontinued)

Definition: This data element records the year of the last crash, suspension, or conviction for this driver that occurred within three years of the crash date.

Additional Information: See this data element in the Vehicle data file section for more information.

SAS Name: LAST_YR

Attribute Codes

2005-2009

0000	No Record
xxxx	Actual Year
9999	Unknown

The CEVENT Data File

The Cevent data file includes harmful and non-harmful events in the crash. It contains the data elements ST_CASE, STATE, and EVENTNUM, which are described in the beginning of the Data Element Definitions and Codes section. ST_CASE and EVENTNUM are the unique identifiers for each record. ST_CASE should be used to merge the Cevent data file with the Accident data file. The Cevent data file also contains the data elements on the following pages.

C17 Vehicle Number (This Vehicle)

Definition: This data element identifies the "Vehicle Number" (VEH_NO) of this in-transport motor vehicle described in this event.

Additional Information: This is the vehicle described in "Sequence of Events" for this event.

SAS Name: **VNUMBER1**

Attribute Codes

2010-Later

1-999	Vehicle Number

C17 Area of Impact (This Vehicle)

Definition: This data element identifies the impact point, if any, on this in-transport motor vehicle that produced property damage or personal injury in this event.

Additional Information: This is the impact area of the vehicle recorded in "Vehicle Number (This Vehicle)" and described in "Sequence of Events."

SAS Name: **AOI1**

Attribute Codes

2010-2011	*2012*	*2013-Later*	
00	00	00	Non-Collision
01-12	01-12	01-12	Clock Points
13	13	13	Top
14	14	14	Undercarriage
18	--	--	Set-In-Motion *(Not a Clock Point)*
--	18	--	Set-In-Motion *(Not a Clock Value)*
--	--	18	Cargo/Vehicle Parts Set-In-Motion
--	--	19	Other Objects Set-In-Motion
55	55	55	Non-Harmful Event
61	61	61	Left
62	--	--	Left-Front Half
--	62	62	Left-Front Side
63	--	--	Left-Back Half
--	63	63	Left-Back Side
81	81	81	Right
82	--	--	Right-Front Half
--	82	82	Right-Front Side
83	--	--	Right-Back Half
--	83	83	Right-Back Side
98	98	98	Not Reported
99	99	99	Unknown

V31 Sequence of Events

Definition: This data element describes this event. A motor vehicle traffic crash is a series of events resulting from an unstabilized situation. This series of harmful and non-harmful events is recorded in chronological order based on the PAR narrative and diagram.

Additional Information: From 2004 to 2009, Sequence of Events was collected at the vehicle level and up to six events (SEQ1-SEQ6) were stored in the Vehicle data file.

"First Harmful Event," "Most Harmful Event," and the "Sequence of Events" data elements have the same harmful event attributes. The harmful event attributes were modified to be consistent. "Sequence of Events" also has non-harmful event attributes.

SAS Name: SOE

Attribute Codes

2010-2011	*2012*	*2013*	*2014-Later*	
1	1	1	1	Rollover/Overturn
2	2	2	2	Fire/Explosion
3	--	--	--	Immersion
--	3	3	3	Immersion or Partial Immersion
4	4	4	4	Gas Inhalation
5	5	5	5	Fell/Jumped from Vehicle
6	6	6	6	Injured in Vehicle *(Non-Collision)*
7	7	7	7	Other Non-Collision
8	8	8	8	Pedestrian
9	9	9	9	Pedalcyclist
10	10	10	10	Railway Vehicle
11	11	11	11	Live Animal
12	12	12	12	Motor Vehicle in Transport
14	14	14	14	Parked Motor Vehicle
15	15	15	15	Non-Motorist on Personal Conveyance
16	16	16	16	Thrown or Falling Object
17	17	17	17	Boulder
18	18	18	18	Other Object *(Not Fixed)*
19	19	19	19	Building
20	20	20	20	Impact Attenuator/Crash Cushion
21	21	21	21	Bridge Pier or Support
23	23	23	23	Bridge Rail *(Includes Parapet)*
24	24	24	24	Guardrail Face
25	25	25	25	Concrete Traffic Barrier
26	26	26	26	Other Traffic Barrier
30	30	30	30	Utility Pole/Light Support
31	31	31	31	Other Post, Other Pole, or Other Support
32	32	32	32	Culvert
33	33	33	33	Curb
34	34	34	34	Ditch

V31 Sequence of Events *(continued)*

Attribute Codes

2010-2011	*2012*	*2013*	*2014-Later*	
35	35	35	35	Embankment
38	38	38	38	Fence
39	39	39	39	Wall
40	40	40	40	Fire Hydrant
41	41	41	41	Shrubbery
42	42	42	42	Tree *(Standing Only)*
43	43	43	43	Other Fixed Object
44	44	44	44	Pavement Surface Irregularity *(Ruts, Potholes, Grates, etc.)*
45	45	45	45	Working Motor Vehicle
46	46	46	46	Traffic Signal Support
48	48	48	48	Snow Bank
49	49	49	49	Ridden Animal or Animal-Drawn Conveyance
50	50	50	50	Bridge Overhead Structure
51	51	51	51	Jackknife *(Harmful to This Vehicle)*
52	52	52	52	Guardrail End
53	53	53	53	Mail Box
54	54	54	54	Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport
55	55	55	55	Motor Vehicle in Motion Outside the Trafficway
57	57	57	57	Cable Barrier
58	58	58	58	Ground
59	59	59	59	Traffic Sign Support
60	60	60	60	Cargo/Equipment Loss or Shift *(Non-Harmful)*
61	61	61	61	Equipment Failure *(Blown Tire, Brake Failure, etc.)*
62	62	62	62	Separation of Units
63	63	63	63	Ran Off Road – Right
64	64	64	64	Ran Off Road – Left
65	65	65	65	Cross Median
66	66	66	66	Downhill Runaway
67	67	67	67	Vehicle Went Airborne
68	68	68	68	Cross Centerline
69	69	69	69	Re-Entering Highway
70	70	70	70	Jackknife *(Non-Harmful)*
--	71	71	71	End Departure
72	72	72	72	Cargo/Equipment Loss or Shift *(Harmful To This Vehicle)*
--	--	73	73	Object Fell From Motor Vehicle In-Transport
--	--	--	79	Ran Off Roadway – Direction Unknown
98	--	--	--	Not Reported *(2010 Only)*
99	99	99	99	Unknown

C17 Vehicle Number (Other Vehicle)

Definition: This data element identifies the "Vehicle Number" (VEH_NO) of the other motor vehicle, if any, in this event.

Additional Information: This is the vehicle contacted by the motor vehicle in-transport recorded in "Vehicle Number (This Vehicle)." Another vehicle must have been involved in this event for this data element to be a valid vehicle number (i.e., "Sequence of Events" for this event must be 12, 14, 45, 54, or 55).

SAS Name: **VNUMBER2**

Attribute Codes

2010-Later

1-999	Vehicle Number
5555	Non-Harmful Event
9999	Not a Motor Vehicle

C17 Area of Impact (Other Vehicle)

Definition: This data element identifies the impact point on the other motor vehicle, if any, in this event.

Additional Information: This is the impact area of the vehicle recorded in "Vehicle Number (Other Vehicle)." Another vehicle must have been involved in this event for this data element to be a valid impact location (i.e., "Sequence of Events" for this event must be 12, 14, 45, 54, or 55).

SAS Name: **AOI2**

Attribute Codes

2010	*2011*	*2012*	*2013-Later*	
00	00	00	00	Non-Collision
01-12	01-12	01-12	01-12	Clock Points
13	13	13	13	Top
14	14	14	14	Undercarriage
18	18	--	--	Set-In-Motion *(Not a Clock Point)*
--	--	18	--	Set-In-Motion *(Not a Clock Value)*
--	--	--	18	Cargo/Vehicle Parts Set-In-Motion
--	--	--	19	Other Objects Set-In-Motion
55	55	55	55	Non-Harmful Event
61	61	61	61	Left
62	62	--	--	Left-Front Half
--	--	62	62	Left-Front Side
63	63	--	--	Left-Back Half
--	--	63	63	Left-Back Side
--	77	77	77	Not a Motor Vehicle
81	81	81	81	Right
82	82	--	--	Right-Front Half
--	--	82	82	Right-Front Side
83	83	--	--	Right-Back Half
--	--	83	83	Right-Back Side
98	98	98	98	Not Reported
99	99	99	99	Unknown

The VEVENT Data File

The Vevent data file includes harmful and non-harmful events for each in-transport motor vehicle. It contains the data elements ST_CASE, STATE, VEH_NO, EVENTNUM, and VEVENTNUM, which are described in the beginning of the Data Element Definitions and Codes section. ST_CASE, VEH_NO, and VEVENTNUM are the unique identifiers for each record. ST_CASE and VEH_NO should be used to merge the Vevent data file with the Vehicle data file. The Vevent data file also contains the data elements on the following pages.

C17 Vehicle Number (This Vehicle)

Definition: This data element identifies the "Vehicle Number" (VEH_NO) of this in-transport motor vehicle described in this event.

Additional Information: This is the vehicle described in "Sequence of Events" for this event.

If Vehicle #1 (V1) impacts Vehicle #2 (V2), then we have at least 2 Vevent records.

Example:

VEH_NO	EVENTNUM	VNUMBER1	SOE	VNUMBER2
1	1	1	12	2
2	1	1	12	2

The explanation of these 2 records is as follows:

V1 was involved in event 1 where V1 impacts V2

V2 was involved in event 1 where V1 impacts V2

SAS Name: **VNUMBER1**

Attribute Codes

2010-Later

1-999 Vehicle Number

C17 Area of Impact (This Vehicle)

Definition: This data element identifies the impact point, if any, on this in-transport motor vehicle that produced property damage or personal injury in this event.

Additional Information: This is the impact area of the vehicle recorded in "Vehicle Number (This Vehicle)" and described in "Sequence of Events."

SAS Name: **AOI1**

Attribute Codes

2010-2011	*2012*	*2013-Later*	
00	00	00	Non-Collision
01-12	01-12	01-12	Clock Points
13	13	13	Top
14	14	14	Undercarriage
18	--	--	Set-In-Motion *(Not a Clock Point)*
--	18	--	Set-In-Motion *(Not a Clock Value)*
--	--	18	Cargo/Vehicle Parts Set-In-Motion
--	--	19	Other Objects Set-In-Motion
55	55	55	Non-Harmful Event
61	61	61	Left
62	--	--	Left-Front Half
--	62	62	Left-Front Side
63	--	--	Left-Back Half
--	63	63	Left-Back Side
81	81	81	Right
82	--	--	Right-Front Half
--	82	82	Right-Front Side
83	--	--	Right-Back Half
--	83	83	Right-Back Side
98	98	98	Not Reported
99	99	99	Unknown

V31 Sequence of Events

Definition: This data element describes this event. A motor vehicle traffic crash is a series of events resulting from an unstabilized situation. This series of harmful and non-harmful events is recorded in chronological order based on the PAR narrative and diagram.

Additional Information: From 2004 to 2009, Sequence of Events was collected at the vehicle level and up to six events (SEQ1-SEQ6) were stored in the Vehicle data file.

"First Harmful Event," "Most Harmful Event," and the "Sequence of Events" data elements have the same harmful event attributes. The harmful event attributes were modified to be consistent. "Sequence of Events" also has non-harmful event attributes.

SAS Name: SOE

Attribute Codes

2010-2011	*2012*	*2013*	*2014-Later*	
1	1	1	1	Rollover/Overturn
2	2	2	2	Fire/Explosion
3	--	--	--	Immersion
--	3	3	3	Immersion or Partial Immersion
4	4	4	4	Gas Inhalation
5	5	5	5	Fell/Jumped from Vehicle
6	6	6	6	Injured in Vehicle *(Non-Collision)*
7	7	7	7	Other Non-Collision
8	8	8	8	Pedestrian
9	9	9	9	Pedalcyclist
10	10	10	10	Railway Vehicle
11	11	11	11	Live Animal
12	12	12	12	Motor Vehicle in Transport
14	14	14	14	Parked Motor Vehicle
15	15	15	15	Non-Motorist on Personal Conveyance
16	16	16	16	Thrown or Falling Object
17	17	17	17	Boulder
18	18	18	18	Other Object *(Not Fixed)*
19	19	19	19	Building
20	20	20	20	Impact Attenuator/Crash Cushion
21	21	21	21	Bridge Pier or Support
23	23	23	23	Bridge Rail *(Includes Parapet)*
24	24	24	24	Guardrail Face
25	25	25	25	Concrete Traffic Barrier
26	26	26	26	Other Traffic Barrier
30	30	30	30	Utility Pole/Light Support
31	31	31	31	Other Post, Other Pole, or Other Support
32	32	32	32	Culvert
33	33	33	33	Curb
34	34	34	34	Ditch

V31 Sequence of Events *(continued)*

Attribute Codes

2010-2011	*2012*	*2013*	*2014-Later*	
35	35	35	35	Embankment
38	38	38	38	Fence
39	39	39	39	Wall
40	40	40	40	Fire Hydrant
41	41	41	41	Shrubbery
42	42	42	42	Tree *(Standing Only)*
43	43	43	43	Other Fixed Object
44	44	44	44	Pavement Surface Irregularity *(Ruts, Potholes, Grates, etc.)*
45	45	45	45	Working Motor Vehicle
46	46	46	46	Traffic Signal Support
48	48	48	48	Snow Bank
49	49	49	49	Ridden Animal or Animal-Drawn Conveyance
50	50	50	50	Bridge Overhead Structure
51	51	51	51	Jackknife *(Harmful to This Vehicle)*
52	52	52	52	Guardrail End
53	53	53	53	Mail Box
54	54	54	54	Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport
55	55	55	55	Motor Vehicle in Motion Outside the Trafficway
57	57	57	57	Cable Barrier
58	58	58	58	Ground
59	59	59	59	Traffic Sign Support
60	60	60	60	Cargo/Equipment Loss or Shift *(Non-Harmful)*
61	61	61	61	Equipment Failure *(Blown Tire, Brake Failure, etc.)*
62	62	62	62	Separation of Units
63	63	63	63	Ran Off Road – Right
64	64	64	64	Ran Off Road – Left
65	65	65	65	Cross Median
66	66	66	66	Downhill Runaway
67	67	67	67	Vehicle Went Airborne
68	68	68	68	Cross Centerline
69	69	69	69	Re-Entering Highway
70	70	70	70	Jackknife *(Non-Harmful)*
--	71	71	71	End Departure
72	72	72	72	Cargo/Equipment Loss or Shift *(Harmful To This Vehicle)*
--	--	73	73	Object Fell From Motor Vehicle In-Transport
--	--	--	79	Ran Off Roadway – Direction Unknown
98	--	--	--	Not Reported *(2010 Only)*
99	99	99	99	Unknown

C17 Vehicle Number (Other Vehicle)

Definition: This data element identifies the "Vehicle Number" (VEH_NO) of the other motor vehicle, if any, in this event.

Additional Information: This is the vehicle contacted by the motor vehicle in-transport recorded in "Vehicle Number (This Vehicle)." Another vehicle must have been involved in this event for this data element to be a valid vehicle number (i.e., "Sequence of Events" for this event must be 12, 14, 45, 54, or 55).

SAS Name: **VNUMBER2**

Attribute Codes

2010-Later

1-999	Vehicle Number
5555	Non-Harmful Event
9999	Not a Motor Vehicle

C17 Area of Impact (Other Vehicle)

Definition: This data element identifies the impact point on the other motor vehicle, if any, in this event.

Additional Information: This is the impact area of the vehicle recorded in "Vehicle Number (Other Vehicle)." Another vehicle must have been involved in this event for this data element to be a valid impact location (i.e., "Sequence of Events" for this event must be 12, 14, 45, 54, or 55).

SAS Name: **AOI2**

Attribute Codes

2010	*2011*	*2012*	*2013-Later*	
00	00	00	00	Non-Collision
01-12	01-12	01-12	01-12	Clock Points
13	13	13	13	Top
14	14	14	14	Undercarriage
18	18	--	--	Set-In-Motion *(Not a Clock Point)*
--	--	18	--	Set-In-Motion *(Not a Clock Value)*
--	--	--	18	Cargo/Vehicle Parts Set-In-Motion
--	--	--	19	Other Objects Set-In-Motion
55	55	55	55	Non-Harmful Event
61	61	61	61	Left
62	62	--	--	Left-Front Half
--	--	62	62	Left-Front Side
63	63	--	--	Left-Back Half
--	--	63	63	Left-Back Side
--	77	77	77	Not a Motor Vehicle
81	81	81	81	Right
82	82	--	--	Right-Front Half
--	--	82	82	Right-Front Side
83	83	--	--	Right-Back Half
--	--	83	83	Right-Back Side
98	98	98	98	Not Reported
99	99	99	99	Unknown

The VSOE Data File

The Vsoe data file includes harmful and non-harmful events for each in-transport motor vehicle. It contains the data elements ST_CASE, STATE, VEVENTNUM, and VEH_NO, which are described in the beginning of the Data Element Definitions and Codes section. ST_CASE, VEH_NO, and VEVENTNUM are the unique identifiers for each record. ST_CASE and VEH_NO should be used to merge the Vsoe data file with the Vehicle data file. The Vsoe data file also contains the data elements on the following pages.

C17 Area of Impact Associated with the Event

Definition: This data element identifies the impact point, if any, on this in-transport motor vehicle that produced property damage or personal injury in this event.

Additional Information: This is the impact area of the vehicle recorded in "Vehicle Number (This Vehicle)" and described in "Sequence of Events."

SAS Name: **AOI**

Attribute Codes

2010-2011	*2012*	*2013-Later*	
00	00	00	Non-Collision
01-12	01-12	01-12	Clock Points
13	13	13	Top
14	14	14	Undercarriage
18	--	--	Set-In-Motion *(Not a Clock Point)*
--	18	--	Set-In-Motion *(Not a Clock Value)*
--	--	18	Cargo/Vehicle Parts Set-In-Motion
--	--	19	Other Objects Set-In-Motion
55	55	55	Non-Harmful Event
61	61	61	Left
62	--	--	Left-Front Half
--	62	62	Left-Front Side
63	--	--	Left-Back Half
--	63	63	Left-Back Side
81	81	81	Right
82	--	--	Right-Front Half
--	82	82	Right-Front Side
83	--	--	Right-Back Half
--	83	83	Right-Back Side
98	98	98	Not Reported
99	99	99	Unknown

V31 Sequence of Events

Definition: This data element describes this event. A motor vehicle traffic crash is a series of events resulting from an unstabilized situation. This series of harmful and non-harmful events is recorded in chronological order based on the PAR narrative and diagram.

Additional Information: From 2004 to 2009, Sequence of Events was collected at the vehicle level and up to six events (SEQ1-SEQ6) were stored in the Vehicle data file.

"First Harmful Event," "Most Harmful Event," and the "Sequence of Events" data elements have the same harmful event attributes. The harmful event attributes were modified to be consistent. "Sequence of Events" also has non-harmful event attributes.

SAS Name: SOE

Attribute Codes

2010-2011	*2012*	*2013*	*2014-Later*	
1	1	1	1	Rollover/Overturn
2	2	2	2	Fire/Explosion
3	--	--	--	Immersion
--	3	3	3	Immersion or Partial Immersion
4	4	4	4	Gas Inhalation
5	5	5	5	Fell/Jumped from Vehicle
6	6	6	6	Injured in Vehicle *(Non-Collision)*
7	7	7	7	Other Non-Collision
8	8	8	8	Pedestrian
9	9	9	9	Pedalcyclist
10	10	10	10	Railway Vehicle
11	11	11	11	Live Animal
12	12	12	12	Motor Vehicle in Transport
14	14	14	14	Parked Motor Vehicle
15	15	15	15	Non-Motorist on Personal Conveyance
16	16	16	16	Thrown or Falling Object
17	17	17	17	Boulder
18	18	18	18	Other Object *(Not Fixed)*
19	19	19	19	Building
20	20	20	20	Impact Attenuator/Crash Cushion
21	21	21	21	Bridge Pier or Support
23	23	23	23	Bridge Rail *(Includes Parapet)*
24	24	24	24	Guardrail Face
25	25	25	25	Concrete Traffic Barrier
26	26	26	26	Other Traffic Barrier
30	30	30	30	Utility Pole/Light Support
31	31	31	31	Other Post, Other Pole, or Other Support
32	32	32	32	Culvert
33	33	33	33	Curb
34	34	34	34	Ditch

V31 Sequence of Events *(continued)*

Attribute Codes

2010-2011	*2012*	*2013*	*2014-Later*	
35	35	35	35	Embankment
38	38	38	38	Fence
39	39	39	39	Wall
40	40	40	40	Fire Hydrant
41	41	41	41	Shrubbery
42	42	42	42	Tree *(Standing Only)*
43	43	43	43	Other Fixed Object
44	44	44	44	Pavement Surface Irregularity *(Ruts, Potholes, Grates, etc.)*
45	45	45	45	Working Motor Vehicle
46	46	46	46	Traffic Signal Support
48	48	48	48	Snow Bank
49	49	49	49	Ridden Animal or Animal-Drawn Conveyance
50	50	50	50	Bridge Overhead Structure
51	51	51	51	Jackknife *(Harmful to This Vehicle)*
52	52	52	52	Guardrail End
53	53	53	53	Mail Box
54	54	54	54	Motor Vehicle In-Transport Strikes or is Struck by Cargo, Persons or Objects Set-in-Motion from/by Another Motor Vehicle In-Transport
55	55	55	55	Motor Vehicle in Motion Outside the Trafficway
57	57	57	57	Cable Barrier
58	58	58	58	Ground
59	59	59	59	Traffic Sign Support
60	60	60	60	Cargo/Equipment Loss or Shift *(Non-Harmful)*
61	61	61	61	Equipment Failure *(Blown Tire, Brake Failure, etc.)*
62	62	62	62	Separation of Units
63	63	63	63	Ran Off Road – Right
64	64	64	64	Ran Off Road – Left
65	65	65	65	Cross Median
66	66	66	66	Downhill Runaway
67	67	67	67	Vehicle Went Airborne
68	68	68	68	Cross Centerline
69	69	69	69	Re-Entering Highway
70	70	70	70	Jackknife *(Non-Harmful)*
--	71	71	71	End Departure
72	72	72	72	Cargo/Equipment Loss or Shift *(Harmful To This Vehicle)*
--	--	73	73	Object Fell From Motor Vehicle In-Transport
--	--	--	79	Ran Off Roadway – Direction Unknown
98	--	--	--	Not Reported *(2010 Only)*
99	99	99	99	Unknown

The DAMAGE Data File

The Damage data file identifies each area of damage (as a separate record). It contains the data elements ST_CASE, STATE, and VEH_NO, which are described in the beginning of the Data Element Definitions and Codes section. ST_CASE and VEH_NO are the unique identifiers for each record. ST_CASE and VEH_NO should be used to merge the Damage data file with vehicles from the Vehicle data file. The Damage data file also contains the data elements on the following pages.

V28B Damaged Areas

Definition: This data element identifies all the areas on this vehicle that were damaged in the crash as reflected in the case materials.

Additional Information:

SAS Name: MDAREAS

Attribute Codes

2012-Later

1-12	Clock points
13	Top
14	Undercarriage
15	No Damage
99	Unknown

The DISTRACT Data File

The Distract data file identifies each driver distraction (as a separate record). It contains the data elements ST_CASE, STATE, and VEH_NO, which are described in the beginning of the Data Element Definitions and Codes section. The data file also contains MDRDSTRD which is described below. ST_CASE, VEH_NO, and MDRDSTRD are the unique identifiers for each record. ST_CASE and VEH_NO should be used to merge the Distract data file with drivers from the Vehicle data file.

PC16 Driver Distracted By

Definition: This data element identifies the attribute(s) which best describe this driver's attention to driving prior to the driver's realization of an impending critical event or just prior to impact if realization of an impending critical event does not occur.

Additional Information: Distraction from the primary task of driving occurs when drivers divert their attention from the driving task to some other activity. Also, driving while daydreaming or lost in thought is identified as distracted driving by NHTSA. Physical conditions/impairments (fatigue, alcohol, medical condition, etc.) or psychological states (anger, emotional, depressed, etc.) are not identified as distractions by NHTSA.

SAS Name: MDRDSTRD

Attribute Codes

2010-2011	*2012-Later*	
00	00	Not Distracted
01	01	Looked But Did Not See
03	03	By Other Occupant(s)
04	04	By a Moving Object in Vehicle
05	05	While Talking or Listening to Cellular Phone
06	06	While Manipulating Cellular Phone
07	07	While Adjusting Audio or Climate Controls
09	09	While Using Other Component/Controls Integral to Vehicle
10	10	While Using or Reaching For Device/Object Brought Into Vehicle
12	12	Distracted by Outside Person, Object or Event
13	13	Eating or Drinking
14	14	Smoking Related
15	15	Other Cellular Phone Related
16	16	No Driver Present/Unknown if Driver Present
--	17	Distraction/Inattention
--	18	Distraction/Careless
--	19	Careless/Inattentive
92	--	Distraction/Inattention, Details Unknown
--	92	Distraction *(Distracted)*, Details Unknown
--	93	Inattention *(Inattentive)*, Details Unknown
96	96	Not Reported
97	--	Inattentive or Lost in Thought
--	97	Lost In Thought/Day Dreaming
98	98	Other Distraction
99	99	Unknown if Distracted

The DRIMPAIR Data File

The Drimpair data file identifies each driver impairment (as a separate record). It contains the data elements ST_CASE, STATE, and VEH_NO, which are described in the beginning of the Data Element Definitions and Codes section. The data file also contains DRIMPAIR which is described below. ST_CASE, VEH_NO, and DRIMPAIR are the unique identifiers for each record. ST_CASE and VEH_NO should be used to merge the Drimpair data file with drivers from the Vehicle data file.

D23 Condition (Impairment) at Time of Crash- Driver

Definition: This data element identifies physical impairments to this driver that may have contributed to the crash as identified by law enforcement.

Additional Information: This data element attempts to identify physical impairments to this driver which may have contributed to the cause of the crash. These impairments can appear anywhere in the case materials--in the narrative section, in the violations section, in a column entitled "Contributing Factors" or "Driver Action," etc.

Some information that had been collected under "Related Factors- Driver Level" is now captured under this new data element.

SAS Name: DRIMPAIR

Attribute Codes

2010	*2011-2013*	*2014-Later*	
0	0	0	None/Apparently Normal
1	1	1	Ill, Blackout
2	2	2	Asleep or Fatigued
3	3	--	Walking with a Cane or Crutches
--	--	3	Walking with a Cane or Crutches, etc.
4	4	4	Paraplegic or Restricted to Wheelchair
5	5	5	Impaired Due to Previous Injury
6	6	6	Deaf
7	7	7	Blind
8	8	8	Emotional *(Depressed, Angry, Disturbed, etc.)*
9	9	9	Under the Influence of Alcohol, Drugs or Medication
10	10	10	Physical Impairment – No Details
--	95	95	No Driver Present/Unknown if Driver Present
96	96	96	Other Physical Impairment
98	98	98	Not Reported
99	99	99	Unknown if Impaired

The FACTOR Data File

The Factor data file identifies each vehicle factor (as a separate record). It contains the data elements ST_CASE, STATE, and VEH_NO, which are described in the beginning of the Data Element Definitions and Codes section. The data file also contains MFACTOR which is described below. ST_CASE, VEH_NO, and MFACTOR are the unique identifiers for each record. ST_CASE and VEH_NO should be used to merge the Factor data file with the Vehicle data file.

PC4 Contributing Circumstances, Motor Vehicle

Definition: This data element describes this vehicle's possible pre-existing defects or maintenance conditions that may have contributed to the crash.

Additional Information: Most of these data elements can be found in Related Factor- Vehicle Level (SAS names VEH_CF1 and VEH_CF2 in the Vehicle data file in 2009 and prior, and VEH_SC1-VEH_SC2 in 2010).

SAS Name: MFACTOR

Attribute Codes

2010-Later

00	None
01	Tires
02	Brake System
03	Steering
04	Suspension
05	Power Train
06	Exhaust System
07	Head Lights
08	Signal Lights
09	Other Lights
10	Wipers
11	Wheels
12	Mirrors
13	Windows/Windshield
14	Body, Doors
15	Truck Coupling / Trailer Hitch / Safety Chains
16	Safety Systems
17	Vehicle Contributing Factors – No Details
97	Other
98	Not Reported
99	Unknown

The MANEUVER Data File

The Maneuver data file identifies each avoidance attempt (as a separate record). It contains the data elements ST_CASE, STATE, and VEH_NO, which are described in the beginning of the Data Element Definitions and Codes section. The data file also contains MDRMANAV which is described below. ST_CASE, VEH_NO, and MDRMANAV are the unique identifiers for each record. ST_CASE and VEH_NO should be used to merge the Maneuver data file with the Vehicle data file.

PC15 Driver Maneuvered to Avoid

Definition: This data element identifies the thing(s) this driver attempted to avoid while the vehicle was on the road portion of the trafficway, just prior to the first harmful event for this vehicle.

Additional Information:

SAS Name: MDRMANAV

Attribute Codes

2010-Later

00 Driver Did Not Maneuver To Avoid
01 Object
02 Poor Road Conditions *(Puddle, Ice, Pothole, etc.)*
03 Live Animal
04 Motor Vehicle
05 Pedestrian, Pedalcyclist or Other Non-Motorist
92 Phantom/Non-Contact Motor Vehicle
95 No Driver Present/Unknown if Driver Present
98 Not Reported
99 Unknown

The VIOLATN Data File

The Violatn data file identifies each violation (as a separate record). It contains the data elements ST_CASE, STATE, and VEH_NO, which are described in the beginning of the Data Element Definitions and Codes section. The data file also contains MVIOLATN which is described below. ST_CASE, VEH_NO, and MVIOLATN are the unique identifiers for each record. ST_CASE and VEH_NO should be used to merge the Violatn data file with the Vehicle data file.

D21 Violations Charged

Definition: This data element identifies all violations charged to this driver.

Additional Information: Prior to 2010, this data element was in the Vehicle data file. In 2010, this data element changed to identify all violations charged in the crash and was therefore moved here to its own data file.

SAS Name: MVIOLATN

Attribute Codes

2010-Later

00 None

RECKLESS/CARELESS/HIT-AND-RUN OFFENSES

01 Manslaughter or Homicide
02 Willful Reckless Driving; Driving to Endanger; Negligent Driving
03 Unsafe Reckless *(Not Willful, Wanton Reckless)* Driving
04 Inattentive, Careless, Improper Driving
05 Fleeing or Eluding Police
06 Fail to Obey Police, Fireman, Authorized Person Directing Traffic
07 Hit-and-Run, Fail to Stop After Crash
08 Fail to Give Aid, Information, Wait for Police after Crash
09 Serious Violation Resulting in Death

IMPAIRMENT OFFENSES

11 Driving While Intoxicated *(Alcohol or Drugs)* or BAC above Limit *(Any Detectable BAC for CDLs)*
12 Driving While Impaired
13 Driving under Influence of Substance not intended to intoxicate
14 Drinking While Operating
15 Illegal Possession of Alcohol or Drugs
16 Driving With Detectable Alcohol
18 Refusal to Submit to Chemical Test
19 Alcohol, Drug, or Impairment Violations Generally

SPEED-RELATED OFFENSES

21 Racing
22 Speeding *(Above the Speed Limit)*
23 Speed Greater Than Reasonable and Prudent *(Not Necessarily Over the Limit)*
24 Exceeding Special Speed Limit *(e.g., for Trucks, Buses, Cycles, or on Bridge, in School Zone, etc.)*
25 Energy Speed *(Exceeding 55 mph, Non-Pointable)*
26 Driving Too Slowly
29 Speed-Related Violations Generally

RULES OF THE ROAD – TRAFFIC SIGN & SIGNALS

31 Fail to Stop for Red Signal
32 Fail to Stop for Flashing Red
33 Violation of Turn on Red *(Fail to Stop & Yield, Yield to Pedestrians before Turning)*

D21 Violations Charged *(continued)*

2010-Later

34 Fail to Obey Flashing Signal *(Yellow or Red)*
35 Fail to Obey Signal Generally
36 Violate RR Grade Crossing Device/Regulations
37 Fail to Obey Stop Sign
38 Fail to Obey Yield Sign
39 Fail to Obey Traffic Control Device Generally

RULES OF THE ROAD – TURNING, YIELDING, SIGNALING

41 Turn in Violation of Traffic Control *(Disobey Signs, Turn Arrow or Pavement Markings; this is not a Right-on-Red violation)*
42 Improper Method & Position of Turn *(Too Wide, Wrong Lane)*
43 Fail to Signal for Turn or Stop
45 Fail to Yield to Emergency Vehicle
46 Fail to Yield Generally
48 Enter Intersection When Space Insufficient
49 Turn, Yield, Signaling Violations Generally

RULES OF THE ROAD – WRONG SIDE, PASSING & FOLLOWING

51 Driving Wrong Way on One-Way Road
52 Driving on Left, Wrong Side of Road Generally
53 Improper, Unsafe Passing
54 Pass on Right *(Drive off Pavement to Pass)*
55 Pass Stopped School Bus
56 Fail to Give Way When Overtaken
58 Following Too Closely
59 Wrong Side, Passing, Following Violations Generally

RULES OF THE ROAD – LANE USAGE

61 Unsafe or Prohibited Lane Change
62 Improper Use of Lane *(Enter of 3-Lane Road, HOV Designated Lane)*
63 Certain Traffic to Use Right Lane *(Trucks, Slow Moving, etc.)*
66 Motorcycle Lane Violations *(More than two per Lane, Riding Between Lanes, etc.)*
67 Motorcyclist Attached to another Vehicle
69 Lane Violations Generally

NON-MOVING – LICENSE & REGISTRATION VIOLATIONS

71 Driving While License Withdrawn *(Including Violation of Provisions of Work Permit) (2010-2013)*
71 Driving While License Withdrawn *(Since 2014)*
72 Other Driver License Violations
73 Commercial Driver Violations
74 Vehicle Registration Violations
75 Fail to Carry Insurance Card
76 Driving Uninsured Vehicle
79 Non-Moving Violations Generally

D21 Violations Charged *(continued)*

2010-Later

EQUIPMENT

81 Lamp Violations
82 Brake Violations
83 Failure to Require Restraint Use *(By Self or Passenger)*
84 Motorcycle Equipment Violations *(Helmet, Special Equipment)*
85 Violation of Hazardous Cargo Regulations
86 Size, Weight, Load Violations
89 Equipment Violations Generally

LICENSE, REGISTRATION & OTHER VIOLATIONS

91 Parking
92 Theft, Unauthorized Use of Motor Vehicle
93 Driving Where Prohibited *(Sidewalk, Limited Access, Off Truck Route)*
95 No Driver Present/Unknown if Driver Present
97 Not Reported
98 Other Moving Violation
99 Unknown Violation(s)

The VISION Data File

The Vision data file identifies each visual obstruction (as a separate record). It contains the data elements ST_CASE, STATE, and VEH_NO, which are described in the beginning of the Data Element Definitions and Codes section. The data file also contains MVISOBSC which is described below. ST_CASE, VEH_NO, and MVISOBSC are the unique identifiers for each record. ST_CASE and VEH_NO should be used to merge the Vision data file with the Vehicle data file.

PC14 Driver's Vision Obscured by

Definition: This data element records impediments to this driver's visual field that were noted in the case materials.

Additional Information: Most of these data elements can be found in "Related Factor – Driver Level" from 1982 to 2008. This data element was added to the Vehicle data file in 2009. In 2010, the data element was changed to identify all that apply in the crash and was therefore moved here to its own data file.

SAS Name: MVISOBSC

Attribute Codes

2010-Later

00 No Obstruction Noted
01 Rain, Snow, Fog, Smoke, Sand, Dust
02 Reflected Glare, Bright Sunlight, Headlights
03 Curve, Hill, or Other Roadway Design Features
04 Building, Billboard, or Other Structure
05 Trees, Crops, Vegetation
06 In-Transport Motor Vehicle *(Including Load*)
07 Not-in-Transport Motor Vehicle *(Parked, Working)*
08 Splash or Spray of Passing Vehicle
09 Inadequate Defrost or Defog System
10 Inadequate Vehicle Lighting System
11 Obstructing Interior to the Vehicle
12 External Mirrors
13 Broken or Improperly Cleaned Windshield
14 Obstructing Angles on Vehicle
95 No Driver Present/Unknown if Driver Present
97 Vision Obscured – No Details
98 Other Visual Obstruction
99 Unknown

The NMCRASH Data File

The Nmcrash data file identifies each non-motorist action at the time of the crash (as a separate record). It contains the data elements ST_CASE, STATE, VEH_NO, and PER_NO, which are described in the beginning of the Data Element Definitions and Codes section. The data file also contains MTM_CRSH which is described below. ST_CASE, PER_NO, and MTM_CRSH are the unique identifiers for each record. ST_CASE, VEH_NO, and PER_NO should be used to merge the Nmcrash data file with non-motorists from the Person data file.

NM12 Non-Motorist Contributing Circumstances

Definition: This data element describes the action(s) and/or circumstances of this non-motorist that law enforcement indicated may have contributed to the crash.

Additional Information: Some information that had been collected under Person Level Related Factors are now captured under this new data element. Please note the "non-motorist" may include people in not-in-transport motor vehicles, however this data element is only collected for people who are not occupants of motor vehicles. Prior to 2014 this data element was called "Non-Motorist Action/Circumstances at Time of Crash".

SAS Name: MTM_CRSH

Attribute Codes

2010-2013	*2014-Later*	
0	--	No Improper Action
--	0	None Noted
1	--	Dart/Dash
--	1	Dart-Out
2	2	Failure to Yield Right-Of-Way
3	3	Failure to Obey Traffic Signs, Signals or Officer
4	4	In Roadway Improperly *(Standing, Lying, Working, Playing)*
5	--	Entering/Exiting Vehicle
--	5	Entering/Exiting Parked or Stopped Vehicle
6	6	Inattentive *(Talking, Eating, etc.)*
7	7	Improper Turn/Merge
8	8	Improper Passing
9	9	Wrong-Way Riding or Walking
10	--	Driving on Wrong Side of Road
--	10	Riding on Wrong Side of Road
--	11	Dash
12	12	Improper Crossing of Roadway or Intersection *(Jaywalking)*
13	13	Failing to Have Lights on When Required
14	14	Operating Without Required Equipment
15	15	Improper or Erratic Lane Changing
16	16	Failure to Keep in Proper Lane or Running Off Road
17	17	Making Improper Entry to or Exit from Trafficway
18	--	Operating the Vehicle in Other Erratic, Reckless, Careless or Negligent Manner
--	18	Operating in Other Erratic, Reckless, Careless or Negligent Manner
19	19	Not Visible *(Dark Clothing, No Lighting, etc.)*
20	20	Passing with Insufficient Distance or Inadequate Visibility or Failing to Yield to Overtaking Vehicle
21	21	Other
98	--	Not Reported
99	99	Unknown

The NMIMPAIR Data File

The Nmimpair data file identifies each non-motorist impairment (as a separate record). It contains the data elements ST_CASE, STATE, VEH_NO, and PER_NO, which are described in the beginning of the Data Element Definitions and Codes section. The data file also contains NMIMPAIR which is described below. ST_CASE, PER_NO, and NMIMPAIR are the unique identifiers for each record. ST_CASE, VEH_NO, and PER_NO should be used to merge the Nmimpair data file with non-motorists from the Person data file.

NM14 Condition (Impairment) at Time of Crash- Non-Motorist

Definition: This data element identifies physical impairments to this non-motorist that may have contributed to the crash as identified by law enforcement.

Additional Information: This data element attempts to identify physical impairments to this non-motorist which may have contributed to the cause of the crash. These impairments can appear anywhere in the case materials--in the narrative section, in the violations section, in a column entitled "Contributing Factors" or "Driver Action," etc.

Some information that had been collected under "Related Factors- Person Level" is now captured under this new data element.

SAS Name: NMIMPAIR

Attribute Codes

2010-2013	***2014-Later***	
0	0	None/Apparently Normal
1	1	Ill, Blackout
2	2	Asleep or Fatigued
--	3	Walking with a Cane or Crutches
3	--	Walking with a Cane or Crutches, etc.
4	4	Paraplegic or Restricted to Wheelchair
5	5	Impaired Due to Previous Injury
6	6	Deaf
7	7	Blind
8	8	Emotional *(Depressed, Angry, Disturbed, etc.)*
9	9	Under the Influence of Alcohol, Drugs or Medication
10	10	Physical Impairment – No Details
96	96	Other Physical Impairment
98	98	Not Reported
99	99	Unknown if Impaired

The NMPRIOR Data File

The Nmprior data file identifies each non-motorist action immediately prior to the crash (as a separate record). It contains the data elements ST_CASE, STATE, VEH_NO, and PER_NO, which are described in the beginning of the Data Element Definitions and Codes section. The data file also contains MPR_ACT which is described below. ST_CASE, PER_NO, and MPR_ACT are the unique identifiers for each record. ST_CASE, VEH_NO, and PER_NO should be used to merge the Nmprior data file with non-motorists from the Person data file.

NM11 Non-Motorist Action/Circumstances

Definition: This data element describes the action(s) of the non-motorist immediately prior to their involvement in the crash.

Additional Information: Some information that had been collected under Person Level Related Factors are now captured under this new data element. Please note the "non-motorist" may include people in not-in-transport motor vehicles, however this data element is only collected for people who are not occupants of motor vehicles. Prior to 2014 this data element was called "Non-Motorist Action/Circumstances Prior to Crash".

SAS Name: MPR_ACT

Attribute Codes

2010-2013	*2014-Later*	
1	1	Going to or from School *(K-12)*
2	2	Waiting to Cross Roadway
3	3	Crossing Roadway
4	4	Jogging/Running
5	5	Movement Along Roadway with Traffic *(In or Adjacent to Travel Lane)*
6	6	Movement Along Roadway Against Traffic *(In or Adjacent to Travel Lane)*
7	--	Movement on Sidewalk
8	8	In Roadway-Other *(Working, Playing, etc.)*
9	9	Adjacent to Roadway *(e.g., Shoulder, Median)*
10	10	Working in Trafficway *(Incident Response)*
11	--	Entering/Exiting a Vehicle
--	11	Entering/Exiting a Parked or Stopped Vehicle
12	12	Disabled Vehicle Related *(Working on, Pushing, Leaving/Approaching)*
14	14	Other
15	--	None
16	16	Movement Along Roadway – Direction Unknown *(Since 2012)*
98	98	Not Reported
99	99	Unknown

The SAFETYEQ Data File

The Safetyeq data file identifies each item of safety equipment (as a separate record). It contains the data elements ST_CASE, STATE, VEH_NO, and PER_NO, which are described in the beginning of the Data Element Definitions and Codes section. The data file also contains MSAFEQMT which is described below. ST_CASE, PER_NO, and MSAFEQMT are the unique identifiers for each record. ST_CASE, VEH_NO, and PER_NO should be used to merge the Safetyeq data file with non-motorists from the Person data file.

NM13 Non-Motorist Safety Equipment

Definition: This data element indicates the safety equipment that was used by this non-motorist involved in the crash.

Additional Information: There can be one or more safety equipment responses for each non-motorist.

SAS Name: MSAFEQMT

Attribute Codes

2010-Later

1 None Used
2 Helmet
3 Reflective Equipment/Clothing *(Jacket, Backpack, etc.)*
4 Protective Pads Used *(Elbows, Knees, Shins, etc.)*
5 Lighting
7 Other Safety Equipment
8 Not Reported
9 Unknown if Used

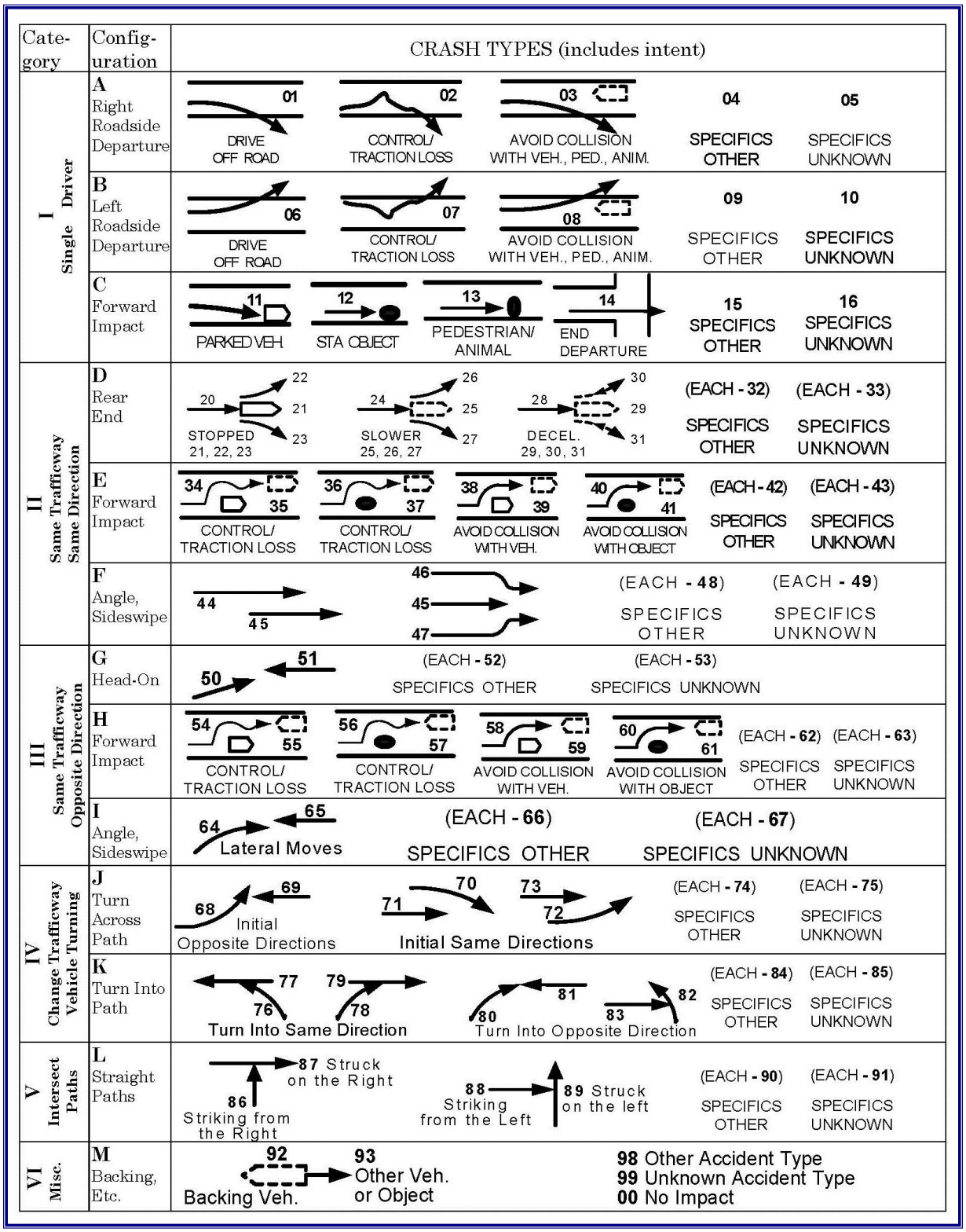
The VINDECODE Data File

The Vindecode data file provides vehicle specification data for all vehicle types, mainly passenger vehicles, trucks and motorcycles. It contains the data elements ST_CASE, STATE, and VEH_NO, which are described in the beginning of the Data Element Definitions and Codes section. ST_CASE and VEH_NO are the unique identifiers for each record. ST_CASE and VEH_NO should be used to merge the Vindecode data file with the Vehicle or Parkwork data file.

The Vindecode data file contains 81 data elements derived from the VIN using the RL Polk VIN verification and decoding program, VINtelligence. Descriptions of the data elements and their contents can be found in the Polk VINtelligence Deluxe Package and Field Descriptions documentation in *Appendix F: Changes to the FARS VIN Decoded Data Elements*.

Appendices

Appendix A:
PC23 Crash Type Diagram



Appendix B:
Rules for Derived Data Elements

Several derived data elements are included in the data files. A derived data element is any element that is not coded (i.e., data directly entered into the system) but translated from existing data. Derived data elements include:

- translations from coded data elements (e.g., "Driver Drinking")
- records counted from vehicle and person levels as crash level counters (e.g., "Number of Parked/Working Vehicles"),
- data extracted across several records (e.g., "First Harmful Event"), and
- element combinations (e.g., "Motor Carrier Issuing Authority and ID Number").

The derived data elements are provided to facilitate analyses and as a common platform for presenting findings. These elements and the translations used to derive them are described in this Appendix.

Crash Level Counts

Number of Motor Vehicles in Transport (MVIT)

Accident. VE_FORMS

(also provided as Vehicle.VE_FORMS, Parkwork.PVE_FORMS, Person.VE_FORMS)

Logic of Derivation

All Vehicle records linked to the crash are used. This data element is derived as the count of all vehicles in the crash where "Unit Type" = 1. It is the number of records in the Vehicle data file.

Number of Parked/Working Vehicles

Accident. PVH_INVL

Logic of Derivation

All Vehicle records linked to the crash are used. This data element is derived as the count of all vehicles in the crash where "Unit Type" is in (2, 3 or 4). It is the number of records in the Parkwork data file.

Number of Persons in Motor Vehicles in Transport (MVIT)

Accident. PERMVIT

Logic of Derivation

All Person records linked to the crash are used. This data element is derived as the count of all persons in the crash where "Person Type" is in (1, 2 or 9).

Number of Persons Not in Motor Vehicles in Transport (MVIT)

Accident. PERNOTMVIT

Logic of Derivation

All Person records linked to the crash are used. This data element is derived as the count of all persons in the crash where "Person Type" is in (3, 4, 5, 6, 7, 8, 10 or 19).

Crash and Vehicle Level Derived Data Elements

Fatalities

Accident.FATALS

Logic of Derivation

All Person records linked to the crash are used. This data element records the number of fatally injured persons in the crash and is derived by counting all persons with "Injury Severity" of 4 in the crash.

Fatalities in Vehicle

Vehicle.DEATHS

Logic of Derivation

All Person records linked to the vehicle are used. This data element records the number of fatally injured persons in the vehicle and is derived by counting all persons with "Injury Severity" of 4 in the vehicle.

Drunk Drivers

Accident.DRUNK_DR

Attribute Labels	1988-Later
No Drunk Drivers Involved in the Crash	0
Number of Drunk Drivers Involved in the Crash	x

Logic of Derivation

All Person records linked to the crash are used. The data element is derived as the sum of drivers in a crash that have (1) police-reported alcohol involvement, or (2) a positive alcohol test result. That is, it is the sum of records where "Person Type" equals 1 (Driver of a Motor Vehicle In Transport), and "Police Reported Alcohol Involvement" equals 1 (Yes, Alcohol Involved) or "Alcohol Test Result" greater than 0 and less than 95.

Driver Drinking

Vehicle.DR_DRINK

Attribute Labels	1975-1981	1982-Later
No Drinking	0	0
Drinking	1	1
Unknown	9	--

Logic of Derivation

All Person records linked to the vehicle are used. Driver Drinking is derived as drivers that have (1) police-reported alcohol involvement, or (2) a positive alcohol test result. That is, if it is a vehicle where "Person Type" equals 1 (Driver of a Motor Vehicle In Transport), and "Police Reported Alcohol Involvement" equals 1 (Yes, Alcohol Involved) or "Alcohol Test Result" is greater than 0 and less than 95, then 1 (Drinking), otherwise 0 (No Drinking).

Atmospheric Conditions

Accident.WEATHER

Attribute Labels	1988-2009	2010-2012	2013-Later
No Additional Atmospheric Conditions	1	0	0
Clear		1	1
Cloudy		10	10
Rain	2	2	2
Sleet, Hail (Freezing Rain or Drizzle)	3	3	
Sleet or Hail			3
Freezing Rain or Drizzle			12
Snow	4	4	4
Blowing Snow	5	11	11
Rain and Fog	6		
Sleet and Fog	7		
Fog, Smog, Smoke		5	5
Severe Crosswinds		6	6
Blowing Sand, Soil, Dirt		7	7
Other	8	8	8
Not Reported		98	98
Unknown	9	99	99

Logic of Derivation

This data element is derived from the coded data elements, Accident.WEATHER1 and Accident.WEATHER2. To derive WEATHER from these two data elements, the priority ranking of each attribute is as follows:

- Snow
- Blowing Snow
- Sleet or Hail
- Freezing Rain or Drizzle
- Rain
- Fog, Smog, Smoke
- Severe Crosswinds
- Blowing Sand, Soil, Dirt
- Other
- Cloudy
- Clear
- Not Reported
- Unknown
- No Additional Atmospheric Conditions

First Harmful Event

Accident.HARM_EV

(also provided as Vehicle.HARM_EV, Parkwork.PHARM_EV, Person.HARM_EV)

Logic of Derivation

Since 2010, this data element is derived from the set of all crash events. Each event in a crash is recorded in chronological order. The data element that records the event is "Sequence of Events" and includes both harmful and non-harmful events. First Harmful Event, therefore, is the first "Sequence of Events" value that is not between codes 60 and 71 (non-harmful events).

Initial Contact Point

Vehicle. IMPACT1, Parkwork.PIMPACT1

(also provided as Person.IMPACT1)

Logic of Derivation

Since 2010, this data element is derived from the set of all crash events for a vehicle. Each event in a crash is recorded in chronological order. The data element that records each impact for a vehicle is "Area of Impact (This Vehicle)") for "This Vehicle" or "Area of Impact (Other Vehicle)" for the "Other Vehicle". The area of impact is only coded for harmful events, that is "Sequence of Events" values that are not between codes 60 and 71. Initial Contact Point, therefore, is the vehicle's first recorded Area of Impact value for a harmful event. Note that the vehicle may be "This Vehicle" or the "Other Vehicle" in the crash event.

Make Model Combined

Vehicle. MAK_MOD, Parkwork. PMAK_MOD

(also provided as Person. MAK_MOD)

Logic of Derivation

This 5-digit data element is the combination of two data elements, the 2-digit "Vehicle Make" code followed by the 3-digit "Vehicle Model" code.

Motor Carrier Identification Number

Vehicle. MCARR_ID, Parkwork. PMCARR_ID

Logic of Derivation

This 11-character data element is the combination of two data elements, the 2-digit "Motor Carrier Issuing Authority" code followed by the 9-character "Identification Number".

Appendix C:
Additional Data Element Information

Date of Crash

Time of Day/Day of Week

Classification	Data Year and Code
	1975-Later
Time of Day	**HOUR (Military)**
Daytime (6:00 a.m. – 5:59 p.m.)	6-17
Nighttime (6:00 p.m. – 5:59 a.m.)	0-5, 18-24*
Unknown	99
Day of Week	**DAY_WEEK w/ HOUR**
Weekday 6 a.m. Monday thru 5:59 p.m. Friday	(DAY_WEEK=2 and 6<=HOUR<=23) or (DAY_WEEK in (3,4,5)) or (DAY_WEEK=6 and (0<= HOUR <=17 or HOUR=24*))
Weekend 6 p.m. Friday thru 5:59 a.m. Monday	(DAY_WEEK=6 and 18<= HOUR <=23) or (DAY_WEEK in (1,7)) or (DAY_WEEK=2 and (0<= HOUR <=5 or HOUR=24*))
Unknown	(DAY_WEEK =9) or (DAY_WEEK in (2,6) and HOUR =99)

* Hour 24 is the beginning of the day. In 2009 attribute 24 was dropped since 0 means the same thing.

Holidays

The length of a "FARS holiday" depends on the day on which the holiday occurs. NHTSA uses the following times for holiday analysis:

DAY OF HOLIDAY	TIME PERIOD USED FOR ANALYSIS
Sunday or Monday	6 p.m. Friday to 5:59 a.m. Tuesday
Tuesday	6 p.m. Friday to 5:59 a.m. Wednesday
Wednesday	6 p.m. Tuesday to 5:59 a.m. Thursday
Thursday	6 p.m. Wednesday to 5:59 a.m. Monday
Friday or Saturday	6 p.m. Thursday to 5:59 a.m. Monday

HOLIDAY DESCRIPTIONS AND CALENDARS

The following table gives a detailed description of the time periods included within the following major holidays: New Year's, Memorial Day, Fourth of July, Labor Day, Thanksgiving and Christmas. The number of whole days in the holiday period is shown in parentheses. Since the holiday period data retrieval is associated with the alcohol related data, the holiday periods are given from 1982 onwards to match with the BAC data.

Note: When using the Alcohol data files, the New Year's Day holiday period for 1982 will be incomplete since no Alcohol data files exist prior to 1982.

Date of Crash (continued)

HOLIDAY CALENDAR

Year	New Year's Day	Memorial Day	Fourth of July	Labor Day	Thanksgiving Day	Christmas Day
1982	6:00 PM Thu. 12/31/1981 to 5:59 AM Mon. 01/04/1982 (3)	6:00 PM Fri. 05/28/1982 to 5:59 AM Tue. 06/01/1982 (3)	6:00 PM Fri. 07/02/1982 to 5:59 AM Tue. 07/06/1982 (3)	6:00 PM Fri. 09/03/1982 to 5:59 AM Tue. 09/07/1982 (3)	6:00 PM Wed. 11/24/1982 to 5:59 AM Mon. 11/29/1982 (4)	6:00 PM Thu. 12/23/1982 to 5:59 AM Mon. 12/27/1982 (3)
1983	6:00 PM Thu. 12/30/1982 to 5:59 AM Mon. 01/03/1983 (3)	6:00 PM Fri. 05/27/1983 to 5:59 AM Tue. 05/31/1983 (3)	6:00 PM Fri. 07/01/1983 to 5:59 AM Tue. 07/05/1983 (3)	6:00 PM Fri. 09/02/1983 to 5:59 AM Tue. 09/06/1983 (3)	6:00 PM Wed. 11/23/1983 to 5:59 AM Mon. 11/28/1983 (4)	6:00 PM Fri. 12/23/1983 to 5:59 AM Tue. 12/27/1983 (3)
1984	6:00 PM Fri. 12/30/1983 to 5:59 AM Tue. 01/03/1984 (3)	6:00 PM Fri. 05/25/1984 to 5:59 AM Tue. 05/29/1984 (3)	6:00 PM Tue. 07/03/1984 to 5:59 AM Thu. 07/05/1984 (1)	6:00 PM Fri. 08/31/1984 to 5:59 AM Tue. 09/04/1984 (3)	6:00 PM Wed. 11/21/1984 to 5:59 AM Mon. 11/26/1984 (4)	6:00 PM Fri. 12/21/1984 to 5:59 AM Wed. 12/26/1984 (4)
1985	6:00 PM Fri. 12/28/1984 to 5:59 AM Wed. 01/02/1985 (4)	6:00 PM Fri. 05/24/1985 to 5:59 AM Tue. 05/28/1985 (3)	6:00 PM Wed. 07/03/1985 to 5:59 AM Mon. 07/08/1985 (4)	6:00 PM Fri. 08/30/1985 to 5:59 AM Tue. 09/03/1985 (3)	6:00 PM Wed. 11/27/1985 to 5:59 AM Mon. 12/02/1985 (4)	6:00 PM Tue. 12/24/1985 to 5:59 AM Thu. 12/26/1985 (1)
1986	6:00 PM Tue. 12/31/1985 to 5:59 AM Thu. 01/02/1986 (1)	6:00 PM Fri. 05/23/1986 to 5:59 AM Tue. 05/27/1986 (3)	6:00 PM Thu. 07/03/1986 to 5:59 AM Mon. 07/07/1986 (3)	6:00 PM Fri. 08/29/1986 to 5:59 AM Tue. 09/02/1986 (3)	6:00 PM Wed. 11/26/1986 to 5:59 AM Mon. 12/01/1986 (4)	6:00 PM Wed. 12/24/1986 to 5:59 AM Mon. 12/29/1986 (4)
1987	6:00 PM Wed. 12/31/1986 to 5:59 AM Mon. 01/05/1987 (4)	6:00 PM Fri. 05/22/1987 to 5:59 AM Tue. 05/26/1987 (3)	6:00 PM Thu. 07/02/1987 to 5:59 AM Mon. 07/06/1987 (3)	6:00 PM Fri. 09/04/1987 to 5:59 AM Tue. 09/08/1987 (3)	6:00 PM Wed. 11/25/1987 to 5:59 AM Mon. 11/30/1987 (4)	6:00 PM Thu. 12/24/1987 to 5:59 AM Mon. 12/28/1987 (3)
1988	6:00 PM Thu. 12/31/1987 to 5:59 AM Mon. 01/04/1988 (3)	6:00 PM Fri. 05/27/1988 to 5:59 AM Tue. 05/31/1988 (3)	6:00 PM Fri. 07/01/1988 to 5:59 AM Tue. 07/05/1988 (3)	6:00 PM Fri. 09/02/1988 to 5:59 AM Tue. 09/06/1988 (3)	6:00 PM Wed. 11/23/1988 to 5:59 AM Mon. 11/28/1988 (4)	6:00 PM Fri. 12/23/1988 to 5:59 AM Tue. 12/27/1988 (3)
1989	6:00 PM Fri. 12/30/1988 to 5:59 AM Tue. 01/03/1989 (3)	6:00 PM Fri. 05/26/1989 to 5:59 AM Tue. 05/30/1989 (3)	6:00 PM Fri. 06/30/1989 to 5:59 AM Wed. 07/05/1989 (4)	6:00 PM Fri. 09/01/1989 to 5:59 AM Tue. 09/05/1989 (3)	6:00 PM Wed. 11/22/1989 to 5:59 AM Mon. 11/27/1989 (4)	6:00 PM Fri. 12/22/1989 to 5:59 AM Tue. 12/26/1989 (3)
1990	6:00 PM Fri. 12/29/1989 to 5:59 AM Tue. 01/02/1990 (3)	6:00 PM Fri. 05/25/1990 to 5:59 AM Tue. 05/29/1990 (3)	6:00 PM Tue. 07/03/1990 to 5:59 AM Thu. 07/05/1990 (1)	6:00 PM Fri. 08/31/1990 to 5:59 AM Tue. 09/04/1990 (3)	6:00 PM Wed. 11/21/1990 to 5:59 AM Mon. 11/26/1990 (4)	6:00 PM Fri. 12/21/1990 to 5:59 AM Wed. 12/26/1990 (4)
1991	6:00 PM Fri. 12/28/1990 to 5:59 AM Wed. 01/02/1991 (4)	6:00 PM Fri. 05/24/1991 to 5:59 AM Tue. 05/28/1991 (3)	6:00 PM Wed. 07/03/1991 to 5:59 AM Mon. 07/08/1991 (4)	6:00 PM Fri. 08/30/1991 to 5:59 AM Tue. 09/03/1991 (3)	6:00 PM Wed. 11/27/1991 to 5:59 AM Mon. 12/02/1991 (4)	6:00 PM Tue. 12/24/1991 to 5:59 AM Thu. 12/26/1991 (1)
1992	6:00 PM Tue. 12/31/1991 to 5:59 AM Thu. 01/02/1992 (1)	6:00 PM Fri. 05/22/1992 to 5:59 AM Tue. 05/26/1992 (3)	6:00 PM Thu. 07/02/1992 to 5:59 AM Mon. 07/06/1992 (3)	6:00 PM Fri. 09/04/1992 to 5:59 AM Tue. 09/08/1992 (3)	6:00 PM Wed. 11/25/1992 to 5:59 AM Mon. 11/30/1992 (4)	6:00 PM Thu. 12/24/1992 to 5:59 AM Mon. 12/28/1992 (3)

Date of Crash (continued)

HOLIDAY CALENDAR

Year	New Year's Day	Memorial Day	Fourth of July	Labor Day	Thanksgiving Day	Christmas Day
1993	6:00 PM Thu. 12/31/1992 to 5:59 AM Mon. 01/04/1993 (3)	6:00 PM Fri. 05/28/1993 to 5:59 AM Tue. 06/01/1993 (3)	6:00 PM Fri. 07/02/1993 to 5:59 AM Tue. 07/06/1993 (3)	6:00 PM Fri. 09/03/1993 to 5:59 AM Tue. 09/07/1993 (3)	6:00 PM Wed. 11/24/1993 to 5:59 AM Mon. 11/29/1993 (4)	6:00 PM Thu. 12/23/1993 to 5:59 AM Mon. 12/27/1993 (3)
1994	6:00 PM Thu. 12/30/1993 to 5:59 AM Mon. 01/03/1994 (3)	6:00 PM Fri. 05/27/1994 to 5:59 AM Tue. 05/31/1994 (3)	6:00 PM Fri. 07/01/1994 to 5:59 AM Tue. 07/05/1994 (3)	6:00 PM Fri. 09/02/1994 to 5:59 AM Tue. 09/06/1994 (3)	6:00 PM Wed. 11/23/1994 to 5:59 AM Mon. 11/28/1994 (4)	6:00 PM Fri. 12/23/1994 to 5:59 AM Tue. 12/27/1994 (3)
1995	6:00 PM Fri. 12/30/1994 to 5:59 AM Tue. 01/03/1995 (3)	6:00 PM Fri. 05/26/1995 to 5:59 AM Tue. 05/30/1995 (3)	6:00 PM Fri. 06/30/1995 to 5:59 AM Wed. 07/05/1995 (4)	6:00 PM Fri. 09/01/1995 to 5:59 AM Tue. 09/05/1995 (3)	6:00 PM Wed. 11/22/1995 to 5:59 AM Mon. 11/27/1995 (4)	6:00 PM Fri. 12/22/1995 to 5:59 AM Tue. 12/26/1995 (3)
1996	6:00 PM Fri. 12/29/1995 to 5:59 AM Tue. 01/02/1996 (3)	6:00 PM Fri. 05/24/1996 to 5:59 AM Tue. 05/28/1996 (3)	6:00 PM Wed. 07/03/1996 to 5:59 AM Mon. 07/08/1996 (4)	6:00 PM Fri. 08/30/1996 to 5:59 AM Tue. 09/03/1996 (3)	6:00 PM Wed. 11/27/1996 to 5:59 AM Mon. 12/02/1996 (4)	6:00 PM Tue. 12/24/1996 to 5:59 AM Thu. 12/26/1996 (1)
1997	6:00 PM Tue. 12/31/1996 to 5:59 AM Thu. 01/02/1997 (1)	6:00 PM Fri. 05/23/1997 to 5:59 AM Tue. 05/27/1997 (3)	6:00 PM Thu. 07/03/1997 to 5:59 AM Mon. 07/07/1997 (3)	6:00 PM Fri. 08/29/1997 to 5:59 AM Tue. 09/02/1997 (3)	6:00 PM Wed. 11/26/1997 to 5:59 AM Mon. 12/01/1997 (4)	6:00 PM Wed. 12/24/1997 to 5:59 AM Mon. 12/29/1997 (4)
1998	6:00 PM Wed. 12/31/1997 to 5:59 AM Mon. 01/05/1998 (4)	6:00 PM Fri. 05/22/1998 to 5:59 AM Tue. 05/26/1998 (3)	6:00 PM Thu. 07/02/1998 to 5:59 AM Mon. 07/06/1998 (3)	6:00 PM Fri. 09/04/1998 to 5:59 AM Tue. 09/08/1998 (3)	6:00 PM Wed. 11/25/1998 to 5:59 AM Mon. 11/30/1998 (4)	6:00 PM Thu. 12/24/1998 to 5:59 AM Mon. 12/28/1998 (3)
1999	6:00 PM Thu. 12/31/1998 to 5:59 AM Mon. 01/04/1999 (3)	6:00 PM Fri. 05/28/1999 to 5:59 AM Tue. 06/01/1999 (3)	6:00 PM Fri. 07/02/1999 to 5:59 AM Tue. 07/06/1999 (3)	6:00 PM Fri. 09/03/1999 to 5:59 AM Tue. 09/07/1999 (3)	6:00 PM Wed. 11/24/1999 to 5:59 AM Mon. 11/29/1999 (4)	6:00 PM Thu. 12/23/1999 to 5:59 AM Mon. 12/27/1999 (3)
2000	6:00 PM Thu. 12/30/1999 to 5:59 AM Mon. 01/03/2000 (3)	6:00 PM Fri. 05/26/2000 to 5:59 AM Tue. 05/30/2000 (3)	6:00 PM Fri. 06/30/2000 to 5:59 AM Wed. 07/05/2000 (4)	6:00 PM Fri. 09/01/2000 to 5:59 AM Tue. 09/05/2000 (3)	6:00 PM Wed. 11/22/2000 to 5:59 AM Mon. 11/27/2000 (4)	6:00 PM Fri. 12/22/2000 to 5:59 AM Tue. 12/26/2000 (3)
2001	6:00 PM Fri. 12/29/2000 to 5:59 AM Tue. 01/02/2001 (3)	6:00 PM Fri. 05/25/2001 to 5:59 AM Tue. 05/29/2001 (3)	6:00 PM Tue. 07/03/2001 to 5:59 AM Thu. 07/05/2001 (1)	6:00 PM Fri. 08/31/2001 to 5:59 AM Tue. 09/04/2001 (3)	6:00 PM Wed. 11/21/2001 to 5:59 AM Mon. 11/26/2001 (4)	6:00 PM Fri. 12/21/2001 to 5:59 AM Wed. 12/26/2001 (4)
2002	6:00 PM Fri. 12/28/2001 to 5:59 AM Wed. 01/02/2002 (4)	6:00 PM Fri. 05/24/2002 to 5:59 AM Tue. 05/28/2002 (3)	6:00 PM Wed. 07/03/2002 to 5:59 AM Mon. 07/08/2002 (4)	6:00 PM Fri. 08/30/2002 to 5:59 AM Tue. 09/03/2002 (3)	6:00 PM Wed. 11/27/2002 to 5:59 AM Mon. 12/02/2002 (4)	6:00 PM Tue. 12/24/2002 to 5:59 AM Thu. 12/26/2002 (1)
2003	6:00 PM Tue. 12/31/2002 to 5:59 AM Thu. 01/02/2003 (1)	6:00 PM Fri. 05/23/2003 to 5:59 AM Tue. 05/27/2003 (3)	6:00 PM Thu. 07/03/2003 to 5:59 AM Mon. 07/07/2003 (3)	6:00 PM Fri. 08/29/2003 to 5:59 AM Tue. 09/02/2003 (3)	6:00 PM Wed. 11/26/2003 to 5:59 AM Mon. 12/01/2003 (4)	6:00 PM Wed. 12/24/2003 to 5:59 AM Mon. 12/29/2003 (4)

Date of Crash (continued)

HOLIDAY CALENDAR

Year	New Year's Day	Memorial Day	Fourth of July	Labor Day	Thanksgiving Day	Christmas Day
2004	6:00 PM Wed. 12/31/2003 to 5:59 AM Mon. 01/05/2004 (4)	6:00 PM Fri. 05/28/2004 to 5:59 AM Tue. 06/01/2004 (3)	6:00 PM Fri. 07/02/2004 to 5:59 AM Tue. 07/06/2004 (3)	6:00 PM Fri. 09/03/2004 to 5:59 AM Tue. 09/07/2004 (3)	6:00 PM Wed. 11/24/2004 to 5:59 AM Mon. 11/29/2004 (4)	6:00 PM Thu. 12/23/2004 to 5:59 AM Mon. 12/27/2004 (3)
2005	6:00 PM Thu. 12/30/2004 to 5:59 AM Mon. 01/03/2005 (3)	6:00 PM Fri. 05/27/2005 to 5:59 AM Tue. 05/31/2005 (3)	6:00 PM Fri. 07/01/2005 to 5:59 AM Tue. 07/05/2005 (3)	6:00 PM Fri. 09/02/2005 to 5:59 AM Tue. 09/06/2005 (3)	6:00 PM Wed. 11/23/2005 to 5:59 AM Mon. 11/28/2005 (4)	6:00 PM Fri. 12/23/2005 to 5:59 AM Tue. 12/27/2005 (3)
2006	6:00 PM Fri. 12/30/2005 to 5:59 AM Tue. 01/03/2006 (3)	6:00 PM Fri. 05/26/2006 to 5:59 AM Tue. 05/30/2006 (3)	6:00 PM Fri. 06/30/2006 to 5:59 AM Wed. 07/05/2006 (4)	6:00 PM Fri. 09/01/2006 to 5:59 AM Tue. 09/05/2006 (3)	6:00 PM Wed. 11/22/2006 to 5:59 AM Mon. 11/27/2006 (4)	6:00 PM Fri. 12/22/2006 to 5:59 AM Tue. 12/26/2006 (3)
2007	6:00 PM Fri. 12/29/2006 to 5:59 AM Tue. 01/02/2007 (3)	6:00 PM Fri. 05/25/2007 to 5:59 AM Tue. 05/29/2007 (3)	6:00 PM Tue. 07/03/2007 to 5:59 AM Thu. 07/05/2007 (1)	6:00 PM Fri. 08/31/2007 to 5:59 AM Tue. 09/04/2007 (3)	6:00 PM Wed. 11/21/2007 to 5:59 AM Mon. 11/26/2007 (4)	6:00 PM Fri. 12/21/2007 to 5:59 AM Wed. 12/26/2007 (4)
2008	6:00 PM Fri. 12/28/2007 to 5:59 AM Wed. 01/02/2008 (4)	6:00 PM Fri. 05/23/2008 to 5:59 AM Tue. 05/27/2008 (3)	6:00 PM Thu. 07/03/2008 to 5:59 AM Mon. 07/07/2008 (3)	6:00 PM Fri. 08/29/2008 to 5:59 AM Tue. 09/02/2008 (3)	6:00 PM Wed. 11/26/2008 to 5:59 AM Mon. 12/01/2008 (4)	6:00 PM Wed. 12/24/2008 to 5:59 AM Mon. 12/29/2008 (4)
2009	6:00 PM Wed. 12/31/2008 to 5:59 AM Mon. 01/05/2009 (4)	6:00 PM Fri. 05/22/2009 to 5:59 AM Tue. 05/26/2009 (3)	6:00 PM Thu. 07/02/2009 to 5:59 AM Mon. 07/06/2009 (3)	6:00 PM Fri. 09/04/2009 to 5:59 AM Tue. 09/08/2009 (3)	6:00 PM Wed. 11/25/2009 to 5:59 AM Mon. 11/30/2009 (4)	6:00 PM Thu. 12/24/2009 to 5:59 AM Mon. 12/28/2009 (3)
2010	6:00 PM Thu. 12/31/2009 to 5:59 AM Mon. 01/04/2010 (3)	6:00 PM Fri. 05/28/2010 to 5:59 AM Tue. 06/01/2010 (3)	6:00 PM Fri. 07/02/2010 to 5:59 AM Tue. 07/06/2010 (3)	6:00 PM Fri. 09/03/2010 to 5:59 AM Tue. 09/07/2010 (3)	6:00 PM Wed. 11/24/2010 to 5:59 AM Mon. 11/29/2010 (4)	6:00 PM Thu. 12/23/2010 to 5:59 AM Mon. 12/27/2010 (3)
2011	6:00 PM Thu. 12/30/2010 to 5:59 AM Mon. 01/03/2011 (3)	6:00 PM Fri. 05/27/2011 to 5:59 AM Tue. 05/31/2011 (3)	6:00 PM Fri. 07/01/2011 to 5:59 AM Tue. 07/05/2011 (3)	6:00 PM Fri. 09/02/2011 to 5:59 AM Tue. 09/06/2011 (3)	6:00 PM Wed. 11/23/2011 to 5:59 AM Mon. 11/28/2011 (4)	6:00 PM Fri. 12/23/2011 to 5:59 AM Tue. 12/27/2011 (3)
2012	6:00 PM Fri. 12/30/2011 to 5:59 AM Tue. 01/03/2012 (3)	6:00 PM Fri. 05/25/2012 to 5:59 AM Tue. 05/29/2012 (3)	6:00 PM Tue. 07/03/2012 to 5:59 AM Thu. 07/05/2012 (1)	6:00 PM Fri. 08/31/2012 to 5:59 AM Tue. 09/04/2012 (3)	6:00 PM Wed. 11/21/2012 to 5:59 AM Mon. 11/26/2012 (4)	6:00 PM Fri. 12/21/2012 to 5:59 AM Wed. 12/26/2012 (4)
2013	6:00 PM Fri. 12/28/2012 to 5:59 AM Wed. 01/02/2013 (4)	6:00 PM Fri. 05/24/2013 to 5:59 AM Tue. 05/28/2013 (3)	6:00 PM Wed. 07/03/2013 to 5:59 AM Mon. 07/08/2013 (4)	6:00 PM Fri. 08/30/2013 to 5:59 AM Tue. 09/03/2013 (3)	6:00 PM Wed. 11/27/2013 to 5:59 AM Mon. 12/02/2013 (4)	6:00 PM Tue. 12/24/2013 to 5:59 AM Thu. 12/26/2013 (1)
2014	6:00 PM Tue. 12/31/2013 to 5:59 AM Thu. 01/02/2014 (1)	6:00 PM Fri. 05/23/2014 to 5:59 AM Tue. 05/27/2014 (3)	6:00 PM Thu. 07/03/2014 to 5:59 AM Mon. 07/07/2014 (3)	6:00 PM Fri. 08/29/2014 to 5:59 AM Tue. 09/02/2014 (3)	6:00 PM Wed. 11/26/2014 to 5:59 AM Mon. 12/01/2014 (4)	6:00 PM Wed. 12/24/2014 to 5:59 AM Mon. 12/29/2014 (4)

Note: The number of whole days in the holiday period is shown in parenthesis.

Return

Manner of Collision

Note: From 1975 to 2001, the manner of collision is totally dependent on the directions of travel of the vehicles involved. The direction of travel of the vehicles is often misunderstood. The direction of a vehicle is determined by the precrash condition direction of travel, just before the vehicle goes out of control. Example (1): Assume two vehicles are heading toward each other on the same roadway, one going north and the other going south. If the southbound vehicle skids on a patch of ice and turns 180° and immediately is struck in the rear by the vehicle going north, then the manner of collision is "Head-On," not "Rear-End." Example (2): Had the vehicle going north sideswiped the southbound vehicle, which after the ice skid was pointed north, the manner of collision would be "Sideswipe Opposite Direction," even though both vehicles are pointed north at the time of the sideswipe. The precrash condition directions of travel, for both vehicles, determine the outcome. These examples involve a rotation of a vehicle just before the crash and can account for 20 to 30 percent of the coded cases. See *Impact* also in this Appendix.

Starting in 2002 and later, the manner of collision is dependent on the geometry of the points of impact. That is, Example (1) above is now coded 01, Front-to-Rear (includes Rear-End) and Example (2), is now coded 07 Sideswipe, Same Direction. This is a major change in the MAN_COLL data element. Care must be taken when using this data element over a time period that spans 2001 to 2002.

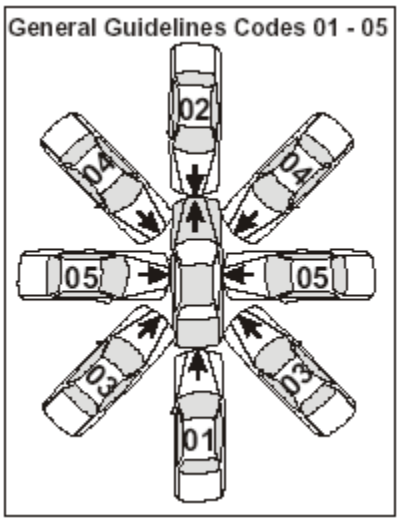
NHTSA'S Manner Of Collision Convention			
Classification (MAN_COLL)	Data Year and Code		
	1975-1977	1978-2001	2002-Later
Not Collision with Motor Vehicle in Transport	0	0	00
Rear-End	1	1	01
Head-On	2	2	02
Angle	4	4	03-06
Sideswipe	7	5, 6	07-08
Other	3	3	09-11
Unknown	9	9	99, *98 (2010)

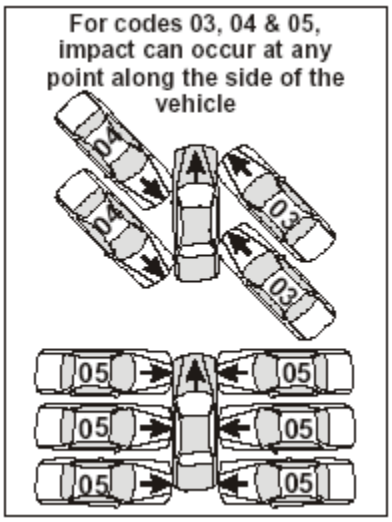
Since 2002, this data element has been based on the impact location (front, side, or rear) and vehicle orientation (facing in the same or opposite directions) of the contact vehicles in the First Harmful Event. The use of "direction of force" will no longer be used in determining this data element. Prior to 2002, the "direction of force" immediately preceding the collision was allowed to be considered, especially in head-on collisions.

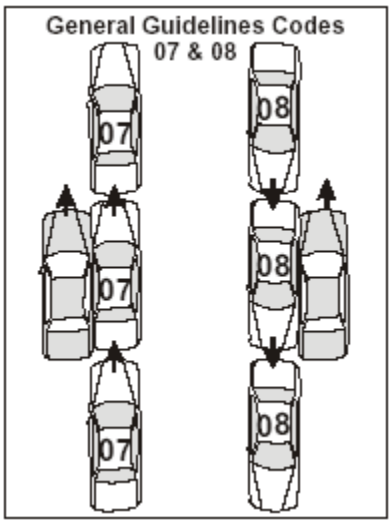
Notes: Refers only to crashes in which the "First Harmful Event" is a collision between two motor vehicles in-transport (codes 12 and 13).

Manner of Collision (continued)

Use the Diagrams below to help determine Manner of Collision codes 01-05, 07-08







Return

School Bus Related

School Bus – refers to a motor vehicle which satisfies the following criteria:

- externally identifiable to other traffic units as a school/pupil transport vehicle;
- operated or owned by a public school or private school;
- where the institution's students may range from pre-school through high school;
- whose occupants, if any, are associated with the institution; and,
- the vehicle is in operations at the time of the crash to and from the school or on a school-sponsored activity or trip.

Also check the data element SPEC_USE in the Vehicle data file. When the data element SPEC_USE is set to the value 2 then the vehicle is used as a school bus.

This code applies to crashes in which a vehicle functioning as a school bus was directly or indirectly involved. The "school bus" does not have to be a traffic unit in the crash, but it must have been involved in some school-related activity (e.g., children boarding or alighting from the bus; bus stopping at or pulling from a location of such activity, etc.)

If school-bus-related is yes, then the crash and all fatalities in that crash are school-bus-related.

Additional explanation – inclusions:

- A collision involving a motor vehicle in-transport in which one or more than one school bus strikes or is struck by another road vehicle (directly involved).
- A collision involving a pedestrian in which a child approaching or leaving a school bus, stopped and with its red lights flashing, is struck and injured by a motor vehicle (indirectly involved).
- A collision crash or non-collision crash involving a motor vehicle in-transport passing a school bus stopped and with its red lights flashing (the school bus is a non-contact vehicle indirectly involved).
- A collision crash in which a child approaching or leaving a school bus, stopped and with its red light flashing, is struck and injured by a pedalcyclist (school bus indirectly involved).

Additional explanation – exclusions:

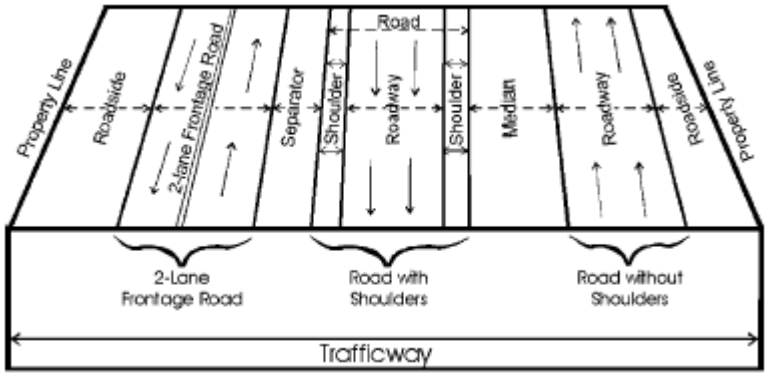
- A collision crash or non-collision crash involving a motor vehicle which is normally used as a school bus, but is carrying only senior citizens when the collision occurs.

Return

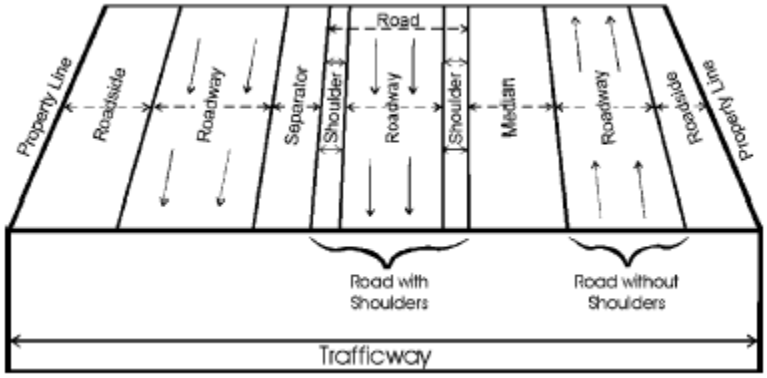
Relation to Trafficway

Note: Two-way continuous left-turn lane was captured under Median prior to 2001.

Trafficway with frontage road



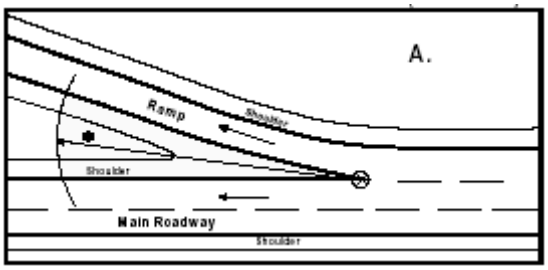
Trafficway with multiple roadways in the same direction

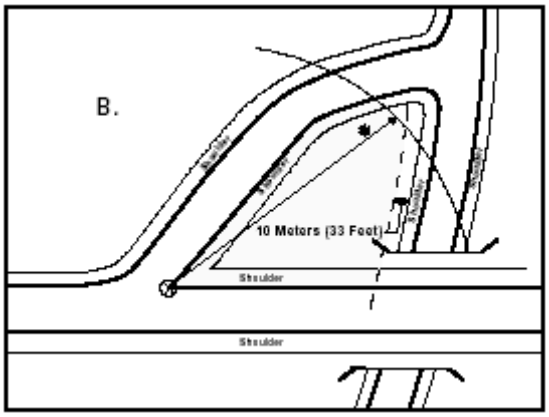


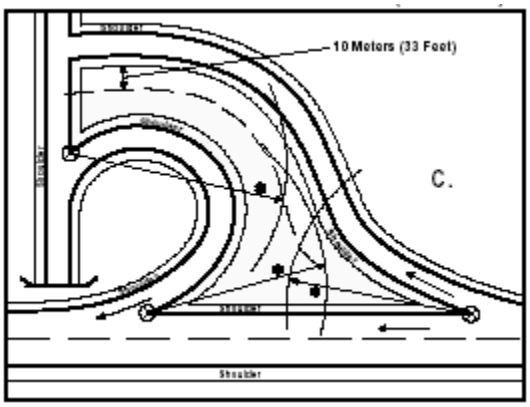
Relation to Trafficway (continued)

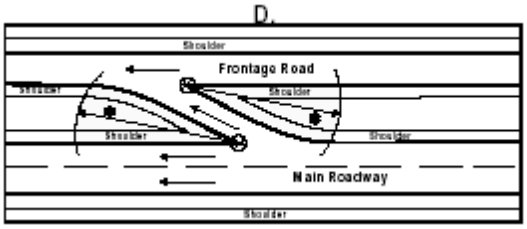
Gore

* Radius of 60 Meters (About 200 Feet)









Return

Roadway Function Class and Land Use

NHTSA'S Roadway Function Class Convention		
Classification (ROAD_FNC)	**Data Year and Code**	
	1981-1986	**1987-Later**
Interstate, principal arterial	1	01, 11
Freeway and expressway, principal arterial	2	12
Principal arterial, other	3	02, 13
Minor arterial	4	03, 14
Collector	5, 6, 7	04, 05, 15
Local	8	06, 16
Unknown	9	09, 19, 99

NHTSA'S Land Use (Rural/Urban) Convention		
Classification	**Data Year and Code**	
	1981-1986 (LAND_USE)	**1987-Later (ROAD_FNC)**
Rural	2	01-06, 09
Urban	1	11-16, 19
Unknown	9	99

NHTSA'S Interstate and Non-Interstate Convention			
Classification	**Data Year and Code**		
	1975-1980 (CL_TWAY)	**1981-1986 (ROAD_FNC)**	**1987-Later (ROAD_FNC)**
Interstate	1	1	01, 11
Non-Interstate	2-8	2-8	02-06, 12-16
Unknown	9	9	09, 19, 99

Return

Trafficway Identifier

If "Route Signing" is 1 (Interstate), then "I-" is in the first two spaces of "Trafficway Identifier"

If "Route Signing" is 2 (US Highway), then "US-" is in the first three spaces of "Trafficway Identifier"

If "Route Signing" is 3 (State Highway), then "SR-" is in the first three spaces of "Trafficway Identifier"

If Route Signing is 4 (County Road), then "CR-" is in the first three spaces of Trafficway Identifier followed by the route number OR name if there is no number.

If Route Signing is other than 1, 2, 3 or 4, the route name or identifier is left-justified.

Immediately after the route designation (I-, US- or SR-), the corresponding highway number appears. For example, Interstate 70 should be coded as "I-70" and US 66 should be coded as "US-66." A dash is used in the highway designation between the capital letters and the number.

If one trafficway is both a State Highway and an Interstate Highway, "Route Signing" must always be coded "1-Interstate."

(a) If the "Trafficway Identifier" and "Milepoint" are available for only the State Highway then the "Route Signing" is coded as "1-Interstate." "I-" is in the first two spaces of "Trafficway Identifier" followed by the full State Highway Identifier as normal (including any letters.) If California business loop (CA215) is also Interstate 15, then "Trafficway Identifier" is code as "I-SR215" or "I-CA215."

(b) If the "Trafficway Identifier" and "Milepoint" are available for both the State Highway and the Interstate Highway, then "I-" appears in the first two spaces of "Trafficway Identifier" followed by the Interstate number. The Interstate "Milepoint" is coded. E.g., "I-15" (SR215) or "I-15" (CA215).

Similarly, if a State Highway is also a U.S. Highway, then the "Route Signing" is coded as "2-US Highway."

(a) If the "Trafficway Identifier" and "Milepoint" are available only for the State Highway, then the "Route Signing" is coded as "2-US Highway." "US-" appears in the first three spaces of "Trafficway Identifier" followed by the full State Highway Identifier as normal (including any letters). The State Highway "Milepoint" is coded. E.g.; If Florida Route 25 is also US Route 27, then code "US-SR25" or "US-FL25."

(b) If the "Trafficway Identifier" and "Milepoint" are available for both the U.S. Highway and the State Highway, then "US-" is in the first three spaces of "Trafficway Identifier" followed by the U.S. route number. The State Highway Identifier appears anywhere after the US route number. The US Route "Milepoint" is coded. E.g. "US-27" (SR25) or "US-27" (FL25).

Return

Vehicle (Body Type) Classification

BODY_TYP by NHTSA vehicle category

NHTSA has precise definitions for several vehicle categories, such as passenger cars, pickups, buses, etc. For some categories, one will also need the data element TOW_VEH.

NHTSA's Vehicle Body Type Classification			
Classification (BODY_TYP)	**Data Year and Code**		
	1975-1981	**1982-1990**	**1991-Later**
Passenger Cars	01-09	01-11, 67	01-11, 17 (since 2010)
Light Trucks & Vans [4]	43, 50-52, or (60 and tow_veh=0)	12, 40, 41, 48-51, 53-56, 58, 59, 68, 69, or (79 and tow_veh=0 or 9)	14-22, 24[1,6], 25[2,6], 28-41, 45-49, or (79 and tow_veh =0 or 9)
Large Trucks	53-59, or (60 and tow_veh=1)	70-72, 74-76, 78, or (79 and tow_veh in 1-5[8])	60-64, 66, 67[5], 71, 72, 78, or (79 and tow_veh[7] in 1-4)
Motorcycles	15-18	20-29	80-89
Buses	25-29	30-39	50-59 (55 van-based >10k lbs since 2011)
Other/Unknown Vehicles	35-42, 44, 45, 99	13, 14, 42, 52, 73, 77, 80, 81, 82, 83, 88, 89, 90, 99	12, 13, 23[6], 42, 65, 73, 90, 91, 92, 93, 94[3], 95 (since 2012), 97, 99 Also, since 2004 (79 and tow_veh[7] =5 or 6) or 98 (since 2010)
Passenger Vehicles	01-09, 43, 50-52, or (60 and tow_veh=0)	01-12, 40, 41, 48-51, 53-56, 58, 59, 67-69, or (79 and tow_veh-0 or 9)	01-11, 14-22, 24[1], 25[2], 28-41, 45-49, or (79 and tow_veh=0 or 9) , or 17 (since 2010)
Utility Vehicles (a.k.a. On/Off Road)	43	12, 56, 68	14-16, 19
Pickups	50	50, 51	30-39
Vans	51	40, 41, 48, 49	20-22, 24[1,6], 25[2,6], 28, 29
Medium Trucks	53, 54, 56	70, 71, 75, 78	60-62, 64, 67[5], 71
Heavy Trucks	55, 57-59, or (60 and tow_veh=1)	72, 74, 76, or (79 and tow_veh in 1-5[8])	63, 66, 72, 78, or (79 and tow_veh[7] in 1-4)
Combination Trucks	((53-56, 60) and tow_veh=1) or 57-59	((70-72, 75, 76, 78, 79) and tow_veh in 1-5[8]) or 74	((60-64, 71, 72, 78, 79) and tow_veh[7] in 1-4) or 66
Single Unit Trucks	(53-56, 60) and tow_veh =0	(70-72, 75, 76, 78, 79) and tow_veh in (0,9)	(60-62,63,64,67,71,72,78,79) and tow_veh in (0,5,6[7],9)

[1] Body type code 24 (van-based school bus) was added in 1993. When solely defining School Buses be sure to include body type code 24.

[2] Body type code 25 (van-based transit bus) was added in 1993. When solely defining Transit Buses be sure to include body type code 25.

[3] Body type coded 94 (motorized wheelchair) was added in 1997 and deleted in 1998.

[4] "Light Trucks & Vans" is frequently referred to as just "Light Trucks."

Vehicle (Body Type) Classification (continued)

(5) Body type code 67 (medium/heavy pickup (Ford Super Duty 450/550)) was added in 2001. For the purposes of medium and heavy truck classifications, this body type will be considered a medium truck.

(6) Van-based bus (24, 25) and van-based motor home (23) body type codes were deleted in 2003.

These attributes were removed because a review of the FARS Analyst coding revealed that they were rarely capturing them.

(7) New code was added in 2004 for Vehicle Trailing (tow_veh) - 5 (vehicle towing another motor vehicle). In 2009 the attribute was split into two to distinguish between fixed and non-fixed linkages (5 and 6). This attribute is not a part of the selection criteria for Light, Large, Heavy, or Combination Truck classifications. Beginning with 2004, an unknown truck type (light/medium/heavy) that was towing another vehicle - (BODY_TYP=79 and TOW_VEH=5,6) - should be classified as Other/Unknown. This classification is subject to change.

(8) From 1982 to 1990, Vehicle Trailing (TOW_VEH) attribute value 5 (yes, two or more trailing units) existed in 1982 only. Including "5" in the range from 1982 to 1990 does not affect the classification.

Return

Driver License Type Compliance

NHTSA'S Driver License Type Compliance			
Classification	Data Year and Code		
	1982-1986 (L_CL_VEH)	1987-1992 (L_COMPL)	1993-Later (L_COMPL)
Valid	0, 2, 4	1, 3	1, 3
Invalid	1, 3, 5	0, 2	0, 2
Unknown	9	9	6 (since 2011), 7 (2010-2011), 8, 9

Return

Driver License Status/Type

		NHTSA'S Driver License Status & Non-CDL Status				
Classification (L_STATUS)			Data Year and Code			
	1975-1981	1982-1986	1987-1992	1993-2003	2004-2010	2011-Later
Valid	0, 3, 7	0, 2, 7-8	5-8	6-8	6	6
Invalid	1-2, 4-6	1, 3-6	0-4	0-4	0-4	0-4
Unknown	9	9	9	9	9	7, 9

Return

Speeding

A fatal crash is "speeding" related if any of the following applies:

1. At least one driver involved in the crash had a speeding related "Related Factor-Driver Level." Note that in 2009 the "Related Factor-Driver Level" attributes associated with speeding related were deleted and a new data element, "Speed Related," was introduced to capture this information. The element name was changed in 2013 to "Speeding Related."
2. At least one driver involved in the crash had a speeding related "Violations Charged."

Note: This definition was revised in 2002. The previous definition for "speeding" only looked at "Related Factor-Driver Level." By expanding the definition to include "Violations Charged," "speeding" fatal crashes and fatalities increase by less than one percent.

Fatal speeding-related crashes are not captured prior to 1982 using this scheme because "Violations Charged" did not identify speeding violations prior to 1982. This method only applies to 1982 through 2008 data.

NHTSA's Speeding Convention	Data Year and Codes			
	1982-1996	1997	1998-2007	2008
1. Related Factor- Driver Level	**DR_CF1, DR_CF2, DR_CF3, DR_CF4 (DR_CF4 added in 1997)**			
Driving too fast for conditions or in excess of the posted maximum	44			
Driving too fast for conditions	-			43
Driving in Excess of Posted Maximum	-			44
Racing	-		46	
2. Violations Charged	**VIOL_CHG**		**VIOLCHG1, VIOLCHG2, VIOLCHG3 (starting in 2002)**	
Speeding	2		-	
Alcohol or drugs and speeding	3		-	
Racing	-		21	
Speeding (above the speed limit)	-		22	
Speed greater than reasonable and prudent (not necessarily over the limit)	-		23	
Exceeding special speed limit (e.g.: for trucks, buses, cycles, or on bridge, in school zone, etc.)	-		24	
Energy speed (exceeding 55 mph, non-pointable)	-		25	
Speed related violations generally	-		29	

Speeding (continued)

A "Speeding Related" data element was added to the Vehicle file in 2009. A crash is "speeding" related if at least one driver involved in the crash was "Speeding Related" Yes. Only the "Speed Related" data element needs to be considered for 2009 and later data.

NHTSA's Speeding Convention	Data Year and Codes 2009-2012	Classification
No	0	Not Speeding
Yes (includes the following): • Speed greater than reasonable or prudent (not necessarily over the limit) • Driving too fast for conditions • Speeding (above the speed limit) • Exceeding special limit (e.g.; for trucks, buses, cycles, on bridge, at night, in school zone, etc.) • Racing	1	Speeding
No Driver Present/Unknown if Driver Present	8 *(2011-2012)*	Not Speeding
Unknown	9	Unknown

The "Speeding Related" data element was expanded in 2013.

NHTSA's Speeding Convention	Data Year and Codes 2013-Later	Classification
No	0	Not Speeding
Yes, Racing	2	Speeding
Yes, Exceeded Speed Limit	3	
Yes, Too Fast for Conditions	4	
Yes, Specifics Unknown	5	
Unknown	9	Unknown

Return

Impact

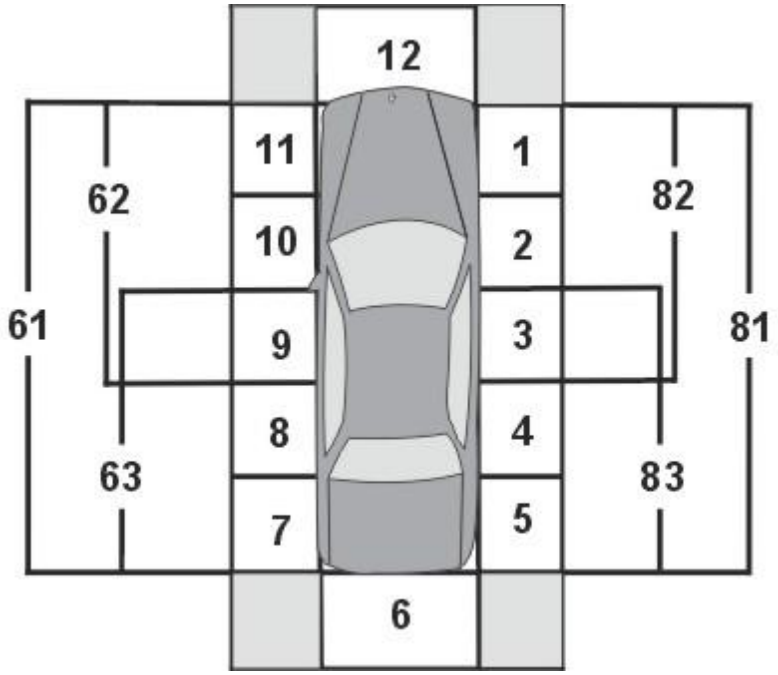
FARS Description IMPACT1 and IMPACT2 (and MDAREAS*)	Data Year and Code				Classification
	Initial/Principal Point of Impact		Areas of Impact – Initial/Most Damaged	Initial Contact Point/ Damaged Areas	
	1975-1993	1994-2009	2010-2011	2012-Later	
Non-Collision	00		00	00	Non-Collision
1 o'clock	01		01	01*	Front
11 o'clock	11		11	11*	
12 o'clock	12		12	12*	
2 o'clock	02		02	02*	Right Side / Side
3 o'clock	03		03	03*	
4 o'clock	04		04	04*	
Right	-		81	81	
Right-Front Half/Side	-		82	82	
Right-Back Half/Side	-		83	83	
8 o'clock	08		08	08*	Left Side / Side
9 o'clock	09		09	09*	
10 o'clock	10		10	10*	
Left	-		61	61	
Left-Front Half/Side	-		62	62	
Left-Back Half/Side	-		63	63	
5 o'clock	05		05	05*	Rear
6 o'clock	06		06	06*	
7 o'clock	07		07	07*	
Top	13		13	13*	Other
Undercarriage	14		14	14*	
Underride	15 (since 1980)	-	-	-	
Override	16 (since 1982)	-	-	-	
Special Condition: This vehicle set something in motion causing injury of damage (not a clock value)	-	18 (since 2004)	18	18	
				19 (since 2013)	
Not Reported	-		98	98	Unknown
Unknown	99*				

Impact (continued)

Note: In 2010, "Initial Point of Impact" and "Principal Point of Impact" became "Area of Impact- Initial Damaged Area" and "Area of Impact- Most Damaged Area". In 2012, "Area of Impact- Initial Damaged Area" became "Initial Contact Point" and "Area of Impact- Most Damaged Area" was discontinued. It was replaced with Damaged Areas which records all damaged areas to the vehicle in the Damage data file. The applicable attributes for this element are marked with an asterisk in the table (*).

2010-Later

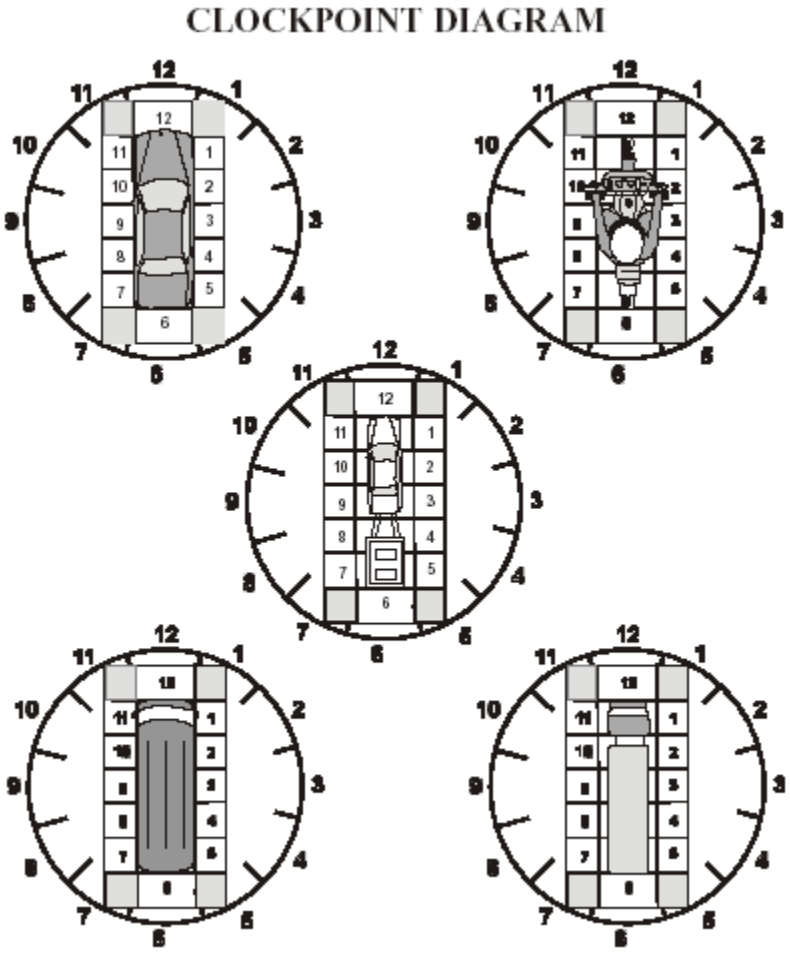
Areas of Impact- Initial/Most Damaged (2010-2011)
Initial Contact Point (2012-Later)



Impact (continued)

1975-2009

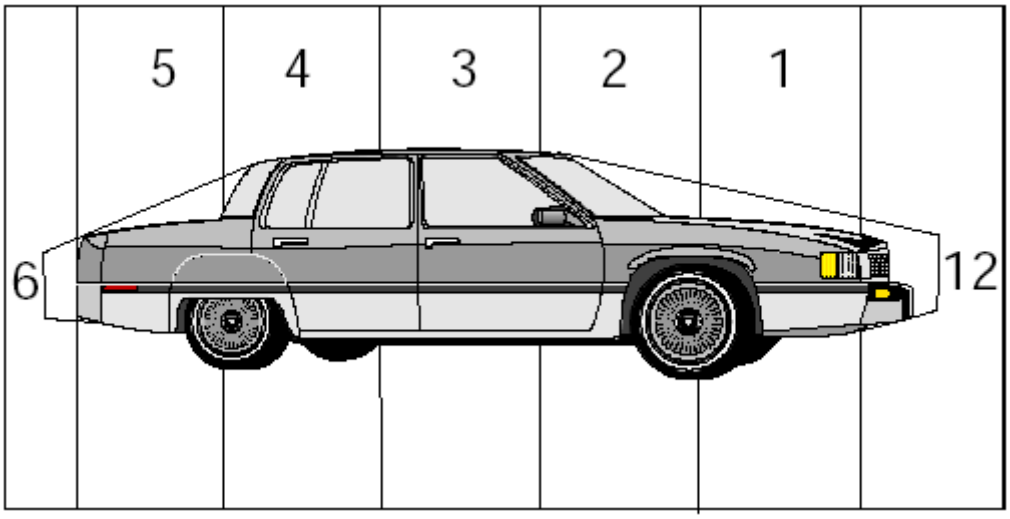
Initial Impact Point and Principal Impact Point



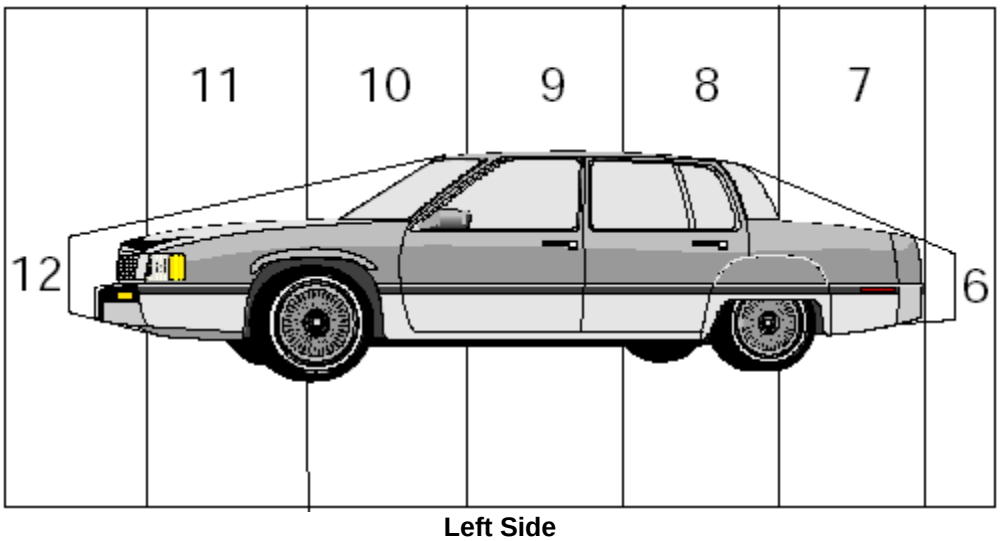
Impact (continued)

1975-Later

Impact Points



Right Side

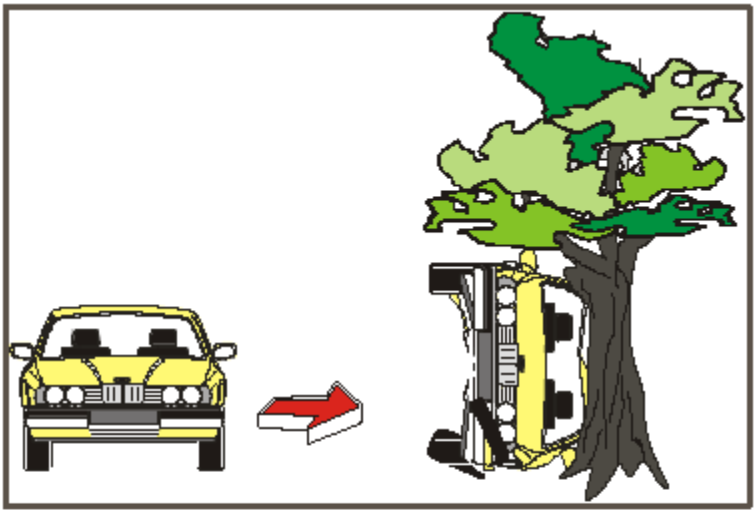


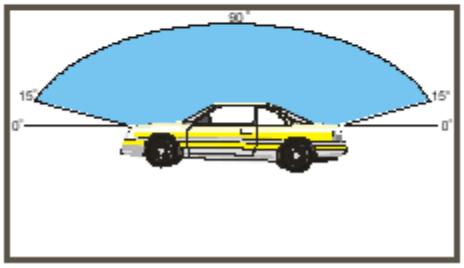
Left Side

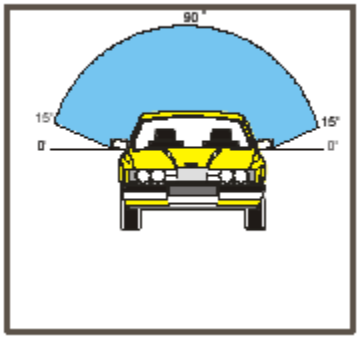
Source: FARS Coding Manual

Impact (continued)

Data element 13 Examples







Return

VIN Weight- Auto

FARS collects information on the weight of cars involved in fatal crashes. Vehicle weight is not generally available for light trucks, however, the weight data element, WGTCD_TR, is. NHTSA often partitions car weight into six classes. This has been done in *An Analysis of Fires in Passenger Cars, Light Trucks, and Vans*, Tessmer, DOT HS 808 208, 1994; *Passenger Car Weight and Injury Severity in Single-Vehicle Nonrollover Crashes*, Partyka and Boehly, 1989; ESV Report 89-2b-O-005 and *Development of Databases in Support of an Analysis of Fire Incidence Using the Fatal Accident Reporting System*, Walz and Klein, September 14, 1993. The partition is defined as:

Car Weight Classes	
Class	**Weight Range in Pounds**
Class 1	Car Weight < 1,950
Class 2	1,950 ≤ Car Weight < 2,450
Class 3	2,450 ≤ Car Weight < 2,950
Class 4	2,950 ≤ Car Weight < 3,450
Class 5	3,450 ≤ Car Weight < 3,950
Class 6	3,950 ≤ Car Weight

Note: If you are going to use this data element as a continuous data element, consider defining a new data element, say AUTO_WT as AUTO_WT = VIN_WT/1000. That is, AUTO_WT is the weight of the car in 1,000s of lbs. Its coefficient is less likely to be zero.

Vehicle Identification Number (VIN)

Data elements = VIN_1 ... VIN_12 The 1st to 12th character of the vehicle identification number

The first character of the VIN usually identifies the country or Nation of Origin; the most common are:

VIN_1 =	1	U.S.
	2	Canada
	3	Mexico
	J	Japan
	K	Korea
	L	Taiwan
	S	England
	VF	France (V for Europe, F for France)
	W	West Germany
	Y	Sweden
	Z	Italy

1981-Later

The second and third characters of the VIN, more or less, identify the make of the vehicle; the most common AUTOMOBILE makes are:

VIN_2|VIN_3 =

2A - AVANTI
A3 - MITSUBISHI
AB - ISUZU
AJ - JAGUAR
AM - MASERATI (IF VIN_1 = Z)
AM - AMERICAN MOTORS (IF VIN_1 = 1)
AR - ALPHA ROMEO
AW - AUDI
AX - STERLING
B3 - DODGE
BA - BMW
BB - BERTONE
C3 - CHRYSLER
CA - ROLLS ROYCE
CC - LOTUS
CE - DELOREAN
CF - ASTON MARTIN
DB - MERCEDES BENZ
E3 - EAGLE
F1 - EAGLE MEDALLION (IF VIN_1 = V SEE RENAULT)
F1 - MERKUR (IF VIN_1 = W)
F1 - RENAULT (IF VIN_1 = V SEE EAGLE MEDALLION)
F1 - SUBARU (IF VIN_1 = J)
F3 - PEUGEOT
FA - FORD (IF VIN_1 = 1)
FA - FIAT (IF VIN_1 = Z)
FF - FERRARI
FR - PININFARINA
G1 - CHEVROLET
G2 - PONTIAC
G3 - OLDSMOBILE
G4 - BUICK
G6 - CADILLAC
G8 - SATURN
H4 - ACURA
HM - HONDA
JC - JEEP
LN - LINCOLN
M1 - MAZDA
ME - MERCURY
MH - HYUNDAI
N1 - NISSAN
P3 - PLYMOUTH
PO - PORSCHE
S3 - SAAB
S3 - SUZUKI
T2 - TOYOTA
V1 - VOLVO
VW - VOLKSWAGEN

Vehicle Identification Number (VIN) (continued)

1981-Later

The 10th letter or number of the VIN tells you the model year of the vehicle. Note that this may be different from when it was manufactured, as many automobile manufacturers start to produce next year's model this year. Find the model year by matching the 10th digit of your VIN to the table below:

VIN_10 =

A = 1980	A = 2010
B = 1981	B = 2011
C = 1982	C = 2012
D = 1983	D = 2013
E = 1984	E = 2014
F = 1985	F = 2015
G = 1986	G = 2016
H = 1987	H = 2017
J = 1988	J = 2018
K = 1989	K = 2019
L = 1990	L = 2020
M = 1991	M = 2021
N = 1992	N = 2022
P = 1993	P = 2023
R = 1994	R = 2024
S = 1995	S = 2025
T = 1996	T = 2026
V = 1997	V = 2027
W = 1998	W = 2028
X = 1999	X = 2029
Y = 2000	Y = 2030
1 = 2001	1 = 2031
2 = 2002	2 = 2032
3 = 2003	3 = 2033
4 = 2004	4 = 2034
5 = 2005	5 = 2035
6 = 2006	6 = 2036
7 = 2007	7 = 2037
8 = 2008	8 = 2038
9 = 2009	9 = 2039

As shown, each letter or number has been assigned to two different years. To find out which one applies, compare it to the 7th letter or number in the VIN. If the 7th VIN position is a letter, then the vehicle is made in 2010 through 2039. If the 7th VIN position is a number, then the vehicle is made prior to 2010.

Return

Police Pursuits

A pursuit is an event that is initiated when a law enforcement officer, operating an authorized emergency vehicle, gives notice to stop (either through the use of visual or audible emergency signals or a combination of emergency devices) to a motorist who the officer is attempting to apprehend and that motorist fails to comply with the signal by either maintaining his/her speed, increasing speed or taking other evasive action to allude the officer's continued attempts to stop the motorist.

Police Pursuits		
Classification	**Data Year and Codes**	
	1982-1993	**1994-Later**
Related Factor- Accident Level	**CF1, CF2, CF3**	
Police Pursuit Involved	-	20
Related Factor- Driver Level	**DR_CF1, DR_CF2, DR_CF3 *(1982-2009)* DR_CF4 *(1997-2009)* DR_SF1, DR_SF2, DR_SF3, DR_SF4 *(2010-Later)***	
High Speed Chase with Police in Pursuit	37	

FARS 1982-1993

If at least one driver in a crash has a "Related Factor-Driver Level" of *High Speed Chase with Police in Pursuit* (37) then that crash is considered a "police pursuit" crash and all fatalities in that crash are considered "fatalities in crashes involving police in pursuit."

(DR_CF1=37) or (DR_CF2=37) or(DR_CF3=37)

Specific fatality types in a "police pursuit" crash can be identified as follows:

1. *occupant of police vehicle* - all occupants (*PER_TYP IN (1,2,9)*) of special use vehicle police (*SPEC_USE=5*)
2. *occupant of chased vehicle* - all occupants (*PER_TYP IN (1,2,9)*) of vehicle with a driver having a "driver related factor" of high speed chase with police in pursuit (*DR_CF1=37 OR DR_CF2=37 OR DR_CF3=37*)
3. *occupant of other vehicle* - all other occupants (*PER_TYP IN (1,2,9)*) - excludes occupant of police vehicle and chased vehicle
4. *non-occupant* - pedestrians, pedalcyclists, and other non-occupants (*PER_TYP IN (3,4,5,6,7,8)*)

Police Pursuits (continued)

FARS 1994 and later

If a crash has a "Related Factor- Accident Level" of *Police Pursuit Involved* (20) or a driver in the crash has a "Related Factor-Driver Level" of *High Speed Chase with Police in Pursuit* (37), then that crash is considered a "police pursuit crash" and all fatalities in that crash are considered "fatalities in crashes involving police in pursuit."

(CF1=20) or (CF2=20) or (CF3=20) or (DR_CF1=37) or (DR_CF2=37) or (DR_CF3=37) (or (DR_CF4=37) since 1997)

Note that data elements DR_**C**F1-DR_**C**F4 were renamed to DR_**S**F1-DR_**S**F4 in 2010.

Specific fatality types can be identified as follows:

1. *occupant of police vehicle* - all occupants (*PER_TYP IN (1,2,9)) o*f special use vehicle police (*SPEC_USE=5*)
2. *occupant of chased vehicle* - all occupants (*PER_TYP IN (1,2,9)*) of vehicle with a driver having a driver related factor of high speed chase with police in pursuit (*DR_CF1=37 OR DR_CF2=37 OR DR_CF3=37)*. In 1997, DR_CF4 was added.
3. *occupant of other vehicle* - all other occupants (*PER_TYP IN (1,2,9)*) - excludes occupant of police vehicle and chased vehicle
4. *non-occupant* - pedestrians, pedalcyclists, and other non-occupants (*PER_TYP IN (3,4,5,6,7,8,10,19)*)
5. *unknown* - (*PER_TYP=99*), this code existed for one year – 1996

Return

Alcohol

References:

Subramanian, R. (2002) *Transitioning to Multiple Imputation: A New Method to Estimate Missing BAC in FARS*, Report DOT-HS-809-403, National Highway Traffic Safety Administration, Department of Transportation.

http://www-nrd.nhtsa.dot.gov/pdf/nrd-30/NCSA/Rpts/2002/809-403.pdf)

(This report has detailed tabulations of the extent of alcohol involvement from 1982 to 2000 using estimates generated with both the old and new methods. Alcohol Involvement is reported according to various categories of interest (age, sex, time of day, day of week, etc.)

Rubin, D.B., Schafer, J.L., and Subramanian, R. (1998) *Multiple Imputation of Missing Blood Alcohol Concentration (BAC) values in FARS*, Report DOT-HS-808-816, National Highway Traffic Safety Administration, Department of Transportation.

(This report presents an in-depth technical view of the Multiple Imputation process and its implementation in the FARS. Detailed specifications of the statistical models used to estimate missing BACs are provided. Examples are also given of how the new data can be analyzed and used in models.)

Return

Ejection

NHTSA'S Ejection		
Classification (EJECTION)	**Data Year and Data element**	
	1975-2006	**2007-Later**
Not Ejected	0	0, 8
Ejected	1, 2	1, 2, 3
Unknown	9	9, 7 (since in 2010)

Return

Person Type

FARS Description (PER_TYP)	Data Year and Code					Classification
	1975-1981	1982-1993	1994-2004	2005-2006	2007-Later	
Occupants						
Driver of a motor vehicle in-transport	1	1	01	01	01	Driver
Passenger of a motor vehicle in-transport	2	2	02	02	02	Passenger
Unknown occupant type of a motor vehicle in-transport (1)	9	9	09	09	09	Passenger
Non-occupants						
Occupant of a motor vehicle not in-transport (2)	-	3	03	03	03	Other non-occupant
Occupant of a non-motor vehicle transport device (3)	5	4	04	04	04	Other non-occupant
Pedestrian	3	5	05	05	05	Pedestrian
Bicyclist	4	6	06	06	06	Pedalcyclist
Other cyclist		7	07	07	07	Pedalcyclist
Other or unknown non-occupant	8	8	-	-	-	Other/unknown non-occupant
Other pedestrian (4)	-	-	08	-	-	Other non-occupant
Other persons on personal conveyances/ vehicles (5)	-	-	-	08	-	Other non-occupant
Persons on personal conveyances (6)	-	-	-	-	08	Other non-occupant
Persons in/on buildings (6)	-	-	-	-	10	Other non-occupant
Unknown type of non-occupant	-	-	19	19	19	Unknown non-occupant type
Unknown						
Unknown person type (7)	-	-	99	-	-	Unknown person type
Not Reported*	-	-	-	-	88 (2010)	

**Not reported was introduced in 2010 although none appeared on the file in 2010. This attribute was deleted in 2011.*

Person Type (continued)

Note: The early data has been modified to fit this format. For example, from 1975 to 1977 there was a value for fatal crashes involving a non-motorist in an animal drawn vehicle. This data has been reclassified into one of the values below.

(1) Customarily, "Unknown Occupant" is placed in the "Passenger" category, unless they need to be distinguished from "Passengers".

(2) "Occupant of motor vehicle not in-transport" refers to occupants of parked motor vehicles (any motor vehicle stopped off the roadway). In 2005, this definition was expanded to include parked/stopped off roadway/working motor vehicles and occupants of motor vehicles in motion outside the trafficway boundaries. Prior to 2005, occupants of working motor vehicles (working highway maintenance vehicles, cherry pickers, etc.) were coded "08." At that time, code "08" was labeled "Other Pedestrians."

(3) "Occupant of non-motor vehicle transport device" refers to persons riding in an animal-drawn conveyance, on an animal, or injured occupants of railway trains, etc.

(4) The code for "other pedestrians (08)" was created in FARS in 1994. This code was the result of further detailing the previous coding of "other or unknown non-occupant (8)" as 1) other pedestrians and 2) unknown non-occupant. Since it is not possible to differentiate "other pedestrians" from "unknown non-occupants" prior to 1994, we have kept them in the "other non-occupant" category for consistency across data years. "Other pedestrians" is used for occupant of a transport device used as equipment (working highway maintenance trucks, cherry pickers, etc.), pedestrians using conveyances, and people in buildings. Examples of pedestrian conveyances are skateboard riders, people in wheelchairs, people on roller skates, and sled riders.

(5) Prior to 2005, code "08" was labeled "Other Pedestrians" and also included occupants of motor vehicles used as equipment (working highway maintenance vehicles, cherry pickers, etc.). For occupants of working motor vehicles, see code "03."

(6) Prior to 2007, code "08" included persons in buildings. For persons in buildings, see code "10 – Persons In/On Buildings."

(7) "Unknown person type" existed in data years 1995 and 1996 only. It was found that this attribute did not add any value to the data element.

Return

Restraint System/Helmet Use

FARS Description	Data Year and Code						Classi-fication
	1975-1990	1991-1993	1994-2007	2008-2009	2010-2012	2013-Later	
	(MAN_REST)	(REST_USE)					
None used (vehicle occupant) or Not applicable (non-occupant)	0	0	00	00	-	-	Not Used
Not Applicable – no restraint available in seat position of occupant (ex. sleeper cab or exterior)	-	-	-	-	00	00	
None Used – vehicle occupant	-	-	-	-	07	07	
Helmets used improperly	-	-	15	15	(5, 16) and *REST_MIS =1	(5, 16, 19) and *REST_MIS =1	
No helmet	-	-	-	-	17	17	
Shoulder belt	1	1	01	01	01	01	Used
Lap belt	2	2	02	02	02	02	
Lap and shoulder belt	3	3	03	03	03	03	
Child safety seat	4	4	04	-	-	-	
Child Safety/ Booster Seat – Type Unknown/ Not Reported	-	-	-	04	04	04	
Child Safety Seat – Forward Facing	-	-	-	10	10	10	
Child Safety Seat – Rear Facing	-	-	-	11	11	11	
Booster Seat (with lap/shoulder belt used properly)	-	-	-	12	12	12	
Motorcycle helmet	5	5	05	05	-	-	
DOT-Compliant motorcycle helmet					05 and *REST_MIS =0	05 and *REST_MIS =0	
Other Helmet					16 and *REST_MIS =0	(16, 19) and *REST_MIS =0	
Restraint used - type unknown or other including other helmet	8	8	08	08	08	08	

Restraint System/Helmet Use (continued)

FARS Description	Data Year and Code						Classi-fication
	1975-1990	1991-1993	1994-2007	2008-2009	2010-2012	2013-Later	
	(MAN_REST)	(REST_USE)					
Safety belt used improperly	-		13	13	-	-	
Child safety seat/booster seat used improperly	-		14	14	-	-	
Bicycle Helmet	-		06	06	-	-	
Other	-		-	-	97	97	
Unknown if used	9	9	99	99	99	99	
Unknown if helmet worn						29	Unknown
Not Reported					98	98	

**Improperly used* helmets are classified as "Not Used." In 2010, the Restraint/Helmet Mis-Use (REST_MIS) data element was introduced and "*Improperly Used*" attributes were removed from the Restraint Use (REST_USE) data element.

Historically, *child safety seat used improperly* was classified as "Not Used" in FARS. In June of 2003, this attribute was re-classified as USED. All other *improperly used* restraint systems were placed in categories as appropriate.

The majority of restraint usage analysis focuses on 1) child safety seat or belt use for passenger vehicle occupants or; 2) helmet use for motorcyclists. Be sure to include the appropriate body types in your selection criteria - see the section on Vehicle (Body Type) Classification.

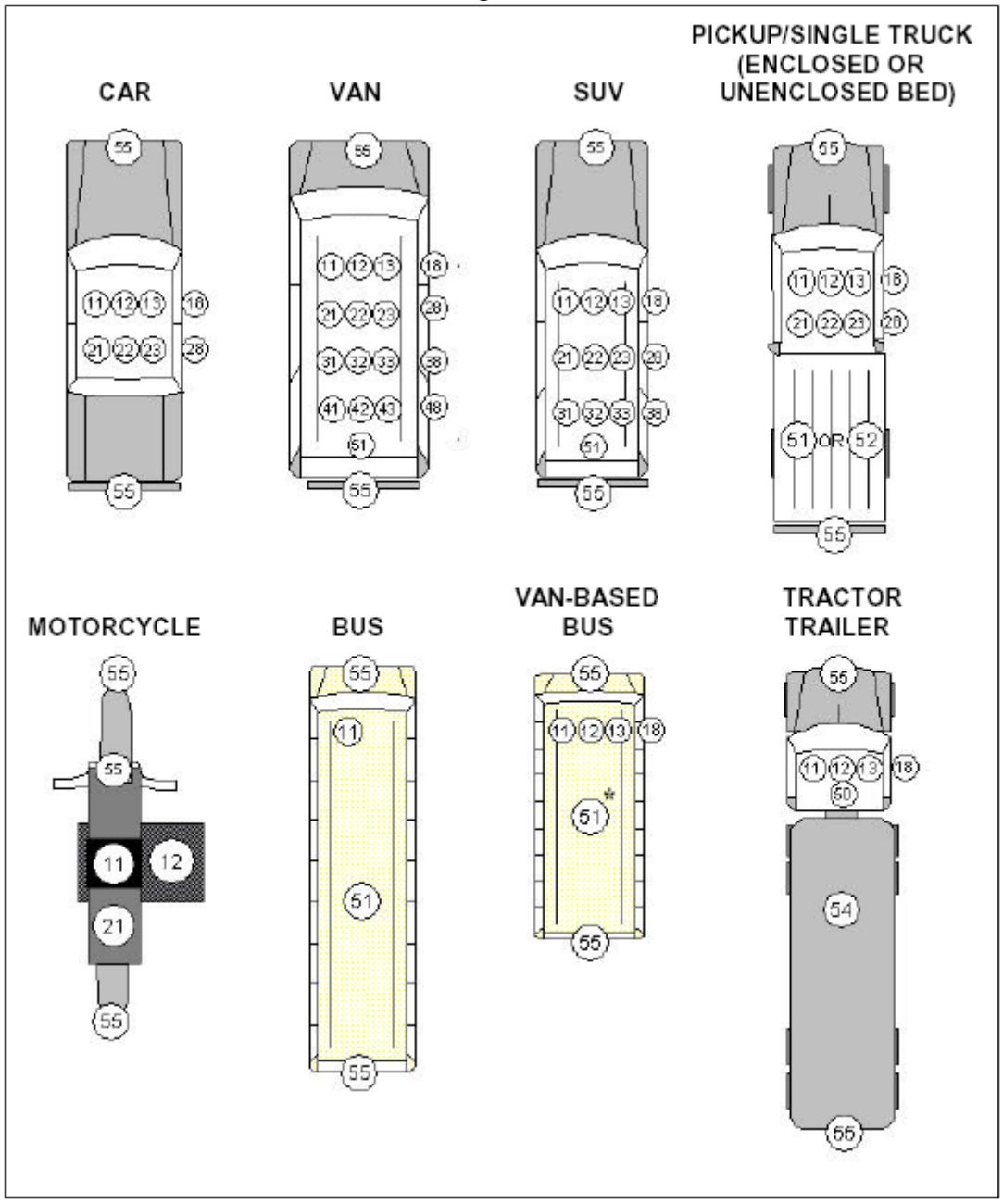
Return

Seating Position

Starting in 2003 Person Level Forms are submitted for uninjured occupants of van-based buses.

1982-Later

Seating Position



* For van-based buses, use the actual seating position if known, or use data element 51 for the second, third, and fourth rows, if actual seating position is not known.

Return

Appendix D:
Changes in FARS Data Elements by SAS Data File and Year

The tables below show each year a change was made to a data element. Elements are shown within the data set in which they can be found. Elements that appear in more than one data set are shown within the primary data set to which they belong. For example, MOD_YEAR is a Vehicle level element (V12. Vehicle Model Year) and primarily belongs to the Vehicle data set but it is also provided in the Person data file as a courtesy. Therefore, changes to this data element can be found in the Vehicle table below.

This is a note for how to read the tables below:

The first row in which the letter "A" appears is the first year that data element was coded. If the letter "A" appears through the column there have been no significant changes in the way in which the data element has been coded. If the letter "B" appears in a column, there has been a significant change in the way the data element has been coded. The first row, which contains the letter "B," indicates which year the first change was made. The letter "C" indicates the year the second change was made, and so on.

Accident Data Set

Year	ALIGNMNT	ARR_HOUR	ARR_MIN	C_M_ZONE	CF1, CF2, CF3	CITY	CL_TWAY	COUNTY	DAY	DAY_WEEK	DRUNK_DR	FATALS	FED_AID
1975	A	A	A	-	A	A	A	A	A	A	A	A	-
1976	A	A	A	-	A	A	A	A	A	A	A	A	-
1977	A	A	A	-	A	A	A	A	A	A	A	A	-
1978	A	A	A	-	A	A	A	A	A	A	A	A	-
1979	A	A	A	-	B	A	A	A	A	A	A	A	-
1980	A	A	A	A	B	A	A	A	A	A	A	A	-
1981	A	A	A	A	B	A	-	A	A	A	A	A	-
1982	A	A	A	B	C	A	B	A	A	A	A	A	A
1983	A	A	A	B	D	A	B	A	A	A	A	A	A
1984	A	A	A	B	D	A	B	A	A	A	A	A	A
1985	A	A	A	B	D	A	B	A	A	A	A	A	A
1986	A	A	A	B	D	A	B	A	A	A	A	A	A
1987	A	A	A	B	D	A	-	A	A	A	A	A	B
1988	A	A	A	B	E	A	-	A	A	A	A	A	B
1989	A	A	A	B	F	A	-	A	A	A	A	A	B
1990	A	A	A	B	F	A	-	A	A	A	A	A	B
1991	A	A	A	B	F	A	-	A	A	A	A	A	B
1992	A	A	A	B	F	A	-	A	A	A	A	A	B
1993	A	A	A	B	F	A	-	A	A	A	A	A	B
1994	A	A	A	B	G	A	-	A	A	A	A	A	-
1995	A	A	A	B	H	A	-	A	A	A	A	A	-
1996	A	A	A	B	H	A	-	A	A	A	A	A	-
1997	A	A	A	B	H	A	-	A	A	A	A	A	-
1998	A	A	A	B	H	A	-	A	A	A	A	A	-
1999	A	B	B	B	I	A	-	A	A	A	A	A	-
2000	A	B	B	B	I	A	-	A	A	A	A	A	-
2001	A	B	B	B	I	A	-	A	A	A	A	A	-
2002	A	B	B	B	J	A	-	A	A	A	A	A	-
2003	A	B	B	B	J	A	-	A	A	A	A	A	-
2004	A	B	B	B	J	A	-	A	A	A	A	A	-
2005	A	B	B	B	K	A	-	A	A	A	A	A	-
2006	A	B	B	B	L	A	-	A	A	A	A	A	-
2007	A	B	B	B	L	A	-	A	A	A	A	A	-
2008	A	B	B	B	M	A	-	A	A	A	A	A	-
2009	A	C	C	-	M	A	-	A	A	A	A	A	-
2010	-	C	C	-	M	B	-	B	B	B	A	A	-
2011	-	C	C	-	M	B	-	B	B	B	A	A	-
2012	-	C	C	-	N	B	-	B	B	B	A	A	-
2013	-	C	C	-	O	B	-	B	B	B	A	A	-
2014	-	C	C	-	O	B	-	B	B	B	A	A	-

Accident Data Set *(continued)*

Year	HARM_EV	HIT_RUN	HOSP_HR	HOSP_MIN	HOUR	LAND_USE	LATTITUDE	LGT_COND	LONGITUD	MAN_COLL	MILEPT	MINUTE	MONTH	NHS
1975	A	A	-	-	A	A	-	A	-	A	-	A	A	-
1976	A	A	-	-	A	A	-	A	-	A	-	A	A	-
1977	A	B	-	-	A	A	-	A	-	A	-	A	A	-
1978	A	B	-	-	A	A	-	A	-	B	-	A	A	-
1979	B	B	-	-	A	A	-	A	-	B	-	A	A	-
1980	B	B	-	-	A	A	-	B	-	B	-	A	A	-
1981	B	B	-	-	A	A	-	B	-	B	-	A	A	-
1982	C	C	-	-	A	A	-	B	-	B	A	A	A	-
1983	C	C	-	-	A	A	-	B	-	B	A	A	A	-
1984	C	C	-	-	A	A	-	B	-	B	A	A	A	-
1985	C	C	-	-	A	A	-	B	-	B	A	A	A	-
1986	C	C	-	-	A	A	-	B	-	B	A	A	A	-
1987	C	C	A	A	A	-	-	B	-	B	A	A	A	-
1988	C	C	A	A	A	-	-	B	-	B	A	A	A	-
1989	C	C	A	A	A	-	-	B	-	B	A	A	A	-
1990	C	C	A	A	A	-	-	B	-	B	A	A	A	-
1991	C	C	A	A	A	-	-	B	-	B	A	A	A	-
1992	C	C	A	A	A	-	-	B	-	B	A	A	A	-
1993	D	C	A	A	A	-	-	B	-	B	A	A	A	-
1994	E	C	A	A	A	-	-	B	-	B	A	A	A	A
1995	E	C	A	A	A	-	-	B	-	B	A	A	A	A
1996	E	C	A	A	A	-	-	B	-	B	A	A	A	A
1997	F	C	A	A	A	-	-	B	-	B	A	A	A	A
1998	F	C	A	A	A	-	-	B	-	B	A	A	A	A
1999	F	C	B	B	A	-	A	B	A	B	A	A	A	A
2000	F	C	B	B	A	-	A	B	A	B	A	A	A	A
2001	F	C	B	B	A	-	A	B	A	B	A	A	A	A
2002	F	D	B	B	A	-	A	B	A	C	A	A	A	A
2003	F	E	B	B	A	-	A	B	A	C	A	A	A	A
2004	G	F	B	B	A	-	A	B	A	C	A	A	A	A
2005	H	G	B	B	A	-	A	B	A	D	A	A	A	A
2006	H	G	B	B	A	-	A	B	A	D	A	A	A	A
2007	H	H	B	B	A	-	A	B	A	D	A	A	A	A
2008	I	H	B	B	A	-	A	B	A	D	A	A	A	A
2009	I	-	C	C	B	-	A	C	A	D	A	B	B	A
2010	J	-	C	C	C	-	B	D	B	E	B	C	B	A
2011	K	-	C	C	C	-	B	D	B	E	B	C	B	A
2012	L	-	C	C	C	-	B	D	B	E	B	C	B	A
2013	M	-	C	C	C	-	B	D	B	E	B	C	B	A
2014	M	-	C	C	C	-	B	D	B	E	B	C	B	A

Accident Data Set *(continued)*

Year	NO_LANES	NOT_HOUR	NOT_MIN	PAVE_TYP	PEDS	PERMVIT	PERNOMVIT	PERSONS	PROFILE	PVH_INVL	RAIL	REL_JUNC	RELJCT1	RELJCT2
1975	A	A	A	A	-	-	-	A	A	-	-	A	-	-
1976	A	A	A	A	-	-	-	A	A	-	-	A	-	-
1977	A	A	A	A	-	-	-	A	A	-	-	A	-	-
1978	A	A	A	A	-	-	-	A	A	-	-	B	-	-
1979	A	A	A	A	-	-	-	A	A	-	A	C	-	-
1980	B	A	A	A	-	-	-	A	A	-	A	D	-	-
1981	B	A	A	A	-	-	-	A	A	-	A	D	-	-
1982	B	A	A	A	-	-	-	B	B	-	A	D	-	-
1983	B	A	A	A	-	-	-	B	B	-	A	D	-	-
1984	B	A	A	A	-	-	-	B	B	-	A	D	-	-
1985	B	A	A	A	-	-	-	B	B	-	A	D	-	-
1986	B	A	A	A	-	-	-	B	B	-	A	D	-	-
1987	B	A	A	A	-	-	-	B	B	-	A	D	-	-
1988	B	A	A	A	-	-	-	B	B	-	A	D	-	-
1989	B	A	A	A	-	-	-	B	B	-	A	D	-	-
1990	B	A	A	A	-	-	-	B	B	-	A	D	-	-
1991	B	A	A	A	A	-	-	B	B	-	A	E	-	-
1992	B	A	A	A	A	-	-	B	B	-	A	E	-	-
1993	B	A	A	A	A	-	-	B	B	-	A	E	-	-
1994	B	A	A	A	A	-	-	B	B	-	A	E	-	-
1995	B	A	A	A	A	-	-	B	B	-	A	E	-	-
1996	B	A	A	A	A	-	-	B	B	-	A	E	-	-
1997	B	A	A	A	A	-	-	B	B	-	A	E	-	-
1998	B	A	A	A	A	-	-	B	B	-	A	E	-	-
1999	B	B	B	A	A	-	-	B	B	-	A	E	-	-
2000	B	B	B	A	A	-	-	B	B	-	A	E	-	-
2001	B	B	B	A	A	-	-	B	B	-	A	E	-	-
2002	B	B	B	A	A	-	-	B	B	-	A	E	-	-
2003	B	B	B	A	A	-	-	B	B	-	A	F	-	-
2004	B	B	B	A	A	-	-	B	B	-	A	F	-	-
2005	B	B	B	A	A	-	-	B	B	-	A	F	-	-
2006	B	B	B	A	A	-	-	B	B	-	A	F	-	-
2007	B	B	B	A	A	-	-	B	B	-	A	F	-	-
2008	B	B	B	A	A	-	-	B	B	-	A	F	-	-
2009	B	C	C	A	A	-	-	C	B	-	A	F	-	-
2010	-	C	C	-	A	-	-	C	-	-	A	-	A	A
2011	-	C	C	-	B	A	A	C	-	A	A	-	A	A
2012	-	C	C	-	B	A	A	C	-	A	A	-	A	A
2013	-	C	C	-	B	A	A	C	-	A	A	-	A	B
2014	-	C	C	-	B	A	A	C	-	A	A	-	A	C

Accident Data Set *(continued)*

Year	REL_ROAD	ROAD_FLO	ROAD_FNC	ROUTE	SCH_BUS	SP_JUR	SP_LIMIT	ST_CASE	STATE	SUR_COND	T_CONT_F	TA_1_CL	TRA_CONT	TRAF_FLO
1975	A	A	-	-	-	A	A	A	A	A	-	-	A	-
1976	A	A	-	-	-	B	A	A	A	A	-	-	A	-
1977	A	A	-	-	A	C	B	A	A	A	-	-	A	-
1978	A	A	-	-	A	C	B	A	A	A	-	A	A	-
1979	A	A	-	-	A	C	C	A	A	A	-	A	A	-
1980	B	A	-	-	A	C	D	A	A	A	-	A	A	-
1981	B	A	A	-	A	C	D	A	A	A	-	A	A	-
1982	C	-	A	-	A	C	D	A	A	A	A	-	B	-
1983	C	-	A	-	A	C	D	A	A	A	A	-	B	-
1984	C	-	A	-	A	C	D	A	A	A	A	-	B	-
1985	C	-	A	-	A	C	D	A	A	A	A	-	B	-
1986	C	-	A	-	A	C	D	A	A	A	A	-	B	-
1987	C	-	B	A	A	C	D	A	A	A	A	-	B	A
1988	C	-	B	A	A	C	D	A	A	A	A	-	B	A
1989	C	-	B	A	A	C	D	A	A	A	A	-	B	A
1990	C	-	B	A	A	C	D	A	A	A	A	-	B	A
1991	C	-	B	A	A	C	D	A	A	A	A	-	B	A
1992	C	-	B	A	A	C	D	A	A	A	A	-	B	A
1993	C	-	B	A	A	C	D	A	A	A	A	-	B	A
1994	C	-	B	A	A	C	D	A	A	A	A	-	B	A
1995	C	-	B	A	A	C	D	A	A	A	A	-	B	A
1996	C	-	B	A	A	C	D	A	A	A	A	-	B	A
1997	C	-	B	A	A	C	D	A	A	A	A	-	B	A
1998	D	-	B	A	A	C	D	A	A	A	A	-	B	A
1999	D	-	B	A	A	C	D	A	A	A	A	-	B	A
2000	D	-	B	A	A	C	D	A	A	A	A	-	B	A
2001	E	-	B	A	A	C	D	A	A	A	A	-	B	B
2002	E	-	B	A	A	C	D	A	A	A	A	-	C	B
2003	E	-	B	A	A	C	D	A	A	A	A	-	C	C
2004	E	-	B	A	A	C	D	A	B	A	A	-	C	C
2005	E	-	B	A	A	C	D	A	B	A	A	-	C	C
2006	E	-	B	A	A	C	D	A	B	A	A	-	C	C
2007	F	-	B	A	A	C	D	A	B	B	A	-	C	C
2008	F	-	B	A	A	D	D	A	B	B	A	-	C	C
2009	F	-	B	A	A	D	D	A	B	B	A	-	C	C
2010	G	-	B	A	B	D	-	A	B	-	-	-	-	-
2011	G	-	B	A	B	D	-	A	B	-	-	-	-	-
2012	G	-	B	A	B	D	-	A	B	-	-	-	-	-
2013	G	-	B	A	C	D	-	A	B	-	-	-	-	-
2014	G	-	B	A	C	D	-	A	B	-	-	-	-	-

Accident Data Set *(continued)*

Year	TWAY_FLO	TWAY_ID	TWAY_ID2	TYP_INT	VE_FORMS	VE_TOTAL	VEHICLES	WEATHER	WEATHER1, WEATHER2	WRK_ZONE	YEAR
1975	-	-	-	-	-	-	-	A	-	-	A
1976	-	-	-	-	A	-	A	A	-	-	A
1977	-	-	-	-	A	-	A	A	-	-	A
1978	-	-	-	-	A	-	A	A	-	-	A
1979	-	-	-	-	A	-	A	A	-	-	A
1980	-	-	-	-	A	-	A	B	-	-	A
1981	-	-	-	-	A	-	A	B	-	-	A
1982	A	A	-	-	B	-	-	C	-	-	A
1983	A	A	-	-	B	-	-	C	-	-	A
1984	A	A	-	-	B	-	-	C	-	-	A
1985	A	A	-	-	B	-	-	C	-	-	A
1986	A	A	-	-	B	-	-	C	-	-	A
1987	-	A	-	-	B	-	-	C	-	-	A
1988	-	A	-	-	B	-	-	C	-	-	A
1989	-	A	-	-	B	-	-	C	-	-	A
1990	-	A	-	-	B	-	-	C	-	-	A
1991	-	A	-	-	B	-	-	C	-	-	A
1992	-	A	-	-	B	-	-	C	-	-	A
1993	-	A	-	-	B	-	-	C	-	-	A
1994	-	A	-	-	B	-	-	C	-	-	A
1995	-	A	-	-	B	-	-	C	-	-	A
1996	-	A	-	-	B	-	-	C	-	-	A
1997	-	A	-	-	B	-	-	C	-	-	A
1998	-	B	-	-	B	-	-	C	-	-	B
1999	-	B	-	-	B	-	-	C	-	-	B
2000	-	B	-	-	B	-	-	C	-	-	B
2001	-	B	-	-	B	-	-	C	-	-	B
2002	-	B	-	-	B	-	-	C	-	-	B
2003	-	B	-	-	B	-	-	C	-	-	B
2004	-	B	A	-	B	-	-	C	-	-	B
2005	-	B	A	-	B	A	-	C	-	-	B
2006	-	B	A	-	B	A	-	C	-	-	B
2007	-	B	A	-	B	A	-	D	A	-	B
2008	-	B	A	-	B	A	-	D	A	-	B
2009	-	B	A	-	C	B	-	D	A	A	B
2010	-	B	A	A	C	B	-	E	B	B	B
2011	-	B	A	A	C	B	-	E	B	B	B
2012	-	C	B	A	C	B	-	E	B	C	B
2013	-	C	B	B	C	B	-	F	C	C	B
2014	-	C	B	B	C	B	-	F	C	C	B

Vehicle Data Set

Year	ACC_TYPE	AVOID	AXLES	BODY_TYP	BUS_USE	CARBUR	CARGO_BT	CDL_STAT	CHAS_TR	CYLINDER	D_VISION1, D_VISION2, D_VISION3	DEATHS	DEFORMED	DISPLACE
1975	-	-	-	A	-	-	-	-	A	-	-	A	-	-
1976	-	-	-	A	-	-	-	-	A	-	-	A	-	-
1977	-	-	-	A	-	-	-	-	A	-	-	A	-	-
1978	-	-	-	A	-	-	-	-	A	-	-	A	A	-
1979	-	-	-	A	-	-	-	-	A	-	-	A	A	-
1980	-	-	-	B	-	-	-	-	A	-	-	A	A	-
1981	-	-	-	B	-	-	-	-	A	-	-	A	A	-
1982	-	-	-	C	-	-	-	-	-	-	-	A	A	-
1983	-	-	-	C	-	-	-	-	-	-	-	A	A	-
1984	-	-	-	C	-	-	-	-	-	-	-	A	A	-
1985	-	-	-	C	-	-	-	-	-	-	-	A	A	-
1986	-	-	-	C	-	-	-	-	-	-	-	A	A	-
1987	-	-	-	C	-	-	-	-	-	-	-	A	A	-
1988	-	-	-	C	-	-	-	-	-	-	-	A	A	-
1989	-	-	-	C	-	-	-	-	-	-	-	A	A	-
1990	-	-	-	C	-	-	-	-	-	-	-	A	A	-
1991	-	A	A	D	-	-	A	A	-	-	-	A	A	-
1992	-	A	A	D	-	-	A	A	-	-	-	A	A	-
1993	-	A	A	E	-	-	A	B	-	-	-	A	A	-
1994	-	A	A	F	-	-	A	B	-	-	-	A	A	-
1995	-	A	B	F	-	-	B	B	-	-	-	A	A	-
1996	-	A	B	F	-	-	B	B	-	-	-	A	A	-
1997	-	A	B	G	-	-	B	B	-	-	-	A	A	-
1998	-	A	B	H	-	-	B	B	-	-	-	A	A	-
1999	-	A	B	H	-	-	B	B	-	-	-	A	A	-
2000		A	B	H	-		B	B	-			A	A	
2001	-	A	B	I	A	-	C	B	-	-	-	A	A	-
2002	-	A	B	I	A	-	C	B	-	-	-	A	A	-
2003	-	A	B	J	A	-	C	B	-	-	-	A	A	-
2004	-	A	B	K	A	-	C	B	-	-	-	A	A	-
2005	-	A	B	K	A	-	C	B	-	-	-	A	A	-
2006	-	A	B	K	A	-	C	B	-	-	-	A	A	-
2007	-	A	B	K	A	-	D	B	-	-	-	A	A	-
2008	-	A	-	L	A	-	D	B	-	-	-	A	A	-
2009	-	A	-	L	A	-	E	B	-	-	A	A	B	-
2010	A	-	-	M	B	-	F	C	-	-	-	A	C	-
2011	A	-	-	N	B	A	F	D	-	A	-	A	C	A
2012	A	-	-	O	B	A	F	E	-	A	-	A	C	A
2013	B	-	-	P	B	-	G	E	-	-	-	A	C	-
2014	B	-	-	P	B	-	G	E	-	-	-	A	C	-

Vehicle Data Set *(continued)*

Year	DR_CF1, DR_CF2, DR_CF3	DR_CF4	DR_DRINK	DR_HGT	DR_PRES	DR_SF1 – DR_SF4	DR_TRAIN	DR_WGT	DR_ZIP	EMER_USE	FIRE_EXP	FIRST_MO	FIRST_YR
1975	A	-	A	-	A	-	A	-	-	-	A	A	A
1976	A	-	A	-	A	-	A	-	-	-	A	A	A
1977	A	-	A	-	B	-	A	-	-	A	A	A	A
1978	B	-	A	-	B	-	A	-	-	A	A	A	A
1979	C	-	A	-	B	-	A	-	-	A	A	A	A
1980	C	-	A	-	B	-	A	-	-	A	A	A	A
1981	C	-	A	-	B	-	A	-	-	A	A	A	A
1982	D	-	B	-	B	-	A	-	-	A	A	A	A
1983	D	-	B	-	B	-	A	-	-	A	A	A	A
1984	D	-	B	-	B	-	A	-	-	A	A	A	A
1985	D	-	B	-	B	-	A	-	-	A	A	A	A
1986	E	-	B	-	B	-	A	-	-	A	A	A	A
1987	E	-	B	-	B	-	-	-	A	A	A	A	A
1988	E	-	B	-	B	-	-	-	A	A	A	A	A
1989	E	-	B	-	B	-	-	-	A	A	A	A	A
1990	E	-	B	-	B	-	-	-	A	A	A	A	A
1991	F	-	B	-	B	-	-	-	A	A	A	A	A
1992	F	-	B	-	B	-	-	-	A	A	A	A	A
1993	F	-	B	-	B	-	-	-	A	A	A	A	A
1994	G	-	B	-	B	-		-	A	A	A	A	A
1995	H	-	B	-	B	-	-	-	A	A	A	A	A
1996	H	-	B	-	B	-	-	-	A	A	A	A	A
1997	H	A	B	-	B	-	-	-	A	A	A	A	A
1998	I	S	B	A	B	-	-	A	A	A	A	A	B
1999	I	S	B	A	B	-	-	A	A	A	A	A	B
2000	J	C	B	A	B	-	-	A	A	A	A	A	B
2001	K	D	B	A	B	-	-	A	A	A	A	A	B
2002	L	E	B	A	B	-	-	A	A	A	A	A	B
2003	M	F	B	A	B	-	-	A	A	A	A	A	B
2004	N	G	B	A	B	-	-	A	A	A	A	A	B
2005	O	H	B	A	C	-	-	A	A	A	A	A	B
2006	P	I	B	A	C	-	-	A	A	A	A	A	B
2007	P	I	B	A	C	-	-	A	A	A	A	A	B
2008	Q	J	B	A	D	-	-	A	A	A	B	A	B
2009	R	K	B	B	E	-	-	A	A	A	C	A	B
2010	-	-	B	C	E	A	-	A	A	B	C	A	B
2011	-	-	B	D	E	A	-	B	B	B	C	B	C
2012	-	-	B	D	E	B	-	B	B	B	C	B	C
2013	-	-	B	D	E	B	-	B	B	C	C	B	C
2014	-	-	B	D	E	C	-	B	B	D	C	B	C

Vehicle Data Set *(continued)*

Year	FLDCD_TR	FUELCODE	GWVR	HAZ_CARG	HAZ_CNO	HAZ_ID	HAZ_INV	HAZ_PLAC	HAZ_REL	HIT_RUN	IMPACT1	IMPACT2	IMPACTS	J_KNIFE
1975	A	-	-	-	-	-	-	-	-	A	A	A	A	-
1976	A	-	-	-	-	-	-	-	-	A	A	A	A	-
1977	A	-	-	-	-	-	-	-	-	B	A	A	A	-
1978	A	-	-	-	-	-	-	-	-	B	A	A	A	-
1979	A	-	-	-	-	-	-	-	-	B	A	A	A	
1980	A	-	-	-	-	-	-	-	-	B	B	B	A	A
1981	A	-	-	-	-	-	-	-	-	B	B	B	A	A
1982	A	-	-	A	-	-	-	-	-	C	C	C	A	B
1983	A	-	-	A	-	-	-	-	-	C	C	C	A	B
1984	A	-	-	A	-	-	-	-	-	C	C	C	A	B
1985	A	-	-	A	-	-	-	-	-	C	C	C	A	B
1986	A	-	-	A	-	-	-	-	-	C	C	C	A	B
1987	A	-	-	A	-	-	-	-	-	C	C	C	A	B
1988	A	-	-	A	-	-	-	-	-	C	C	C	A	B
1989	A	-	-	A	-	-	-	-	-	C	C	C	A	B
1990	A	-	-	A	-	-	-	-	-	C	C	C	A	B
1991	A	-	-	B	-	-	-	-	-	C	C	C	A	B
1992	A	-	-	B	-	-	-	-	-	C	C	C	A	B
1993	A	-	-	B	-	-	-	-	-	C	C	C	A	B
1994	A	-	-	B	-	-	-	-	-	C	D	D	A	B
1995	A	-	-	B	-	-	-	-	-	C	D	D	A	B
1996	A	-	-	B	-	-	-	-	-	C	D	D	A	B
1997	A	-	-	B	-	-	-	-	-	C	D	D	A	B
1998	A	-	-	B	-	-	-	-	-	C	D	D	A	B
1999	A	-	-	B	-	-	-	-	-	C	D	D	A	B
2000	A	-	-	B	-	-	-	-	-	C	D	D	A	B
2001	A	-	A	B	-	-	-	-	-	C	D	D	A	B
2002	A	-	B	B	-	-	-	-	-	D	D	D	A	B
2003	A	-	B	B	-	-	-	-	-	E	D	D	A	B
2004	A	-	B	B	-	-	-	-	-	F	E	E	A	B
2005	A	-	B	B	-	-	-	-	-	G	E	E	A	B
2006	A	-	B	B	-	-	-	-	-	G	E	E	A	B
2007	A	-	B	-	A	A	A	A	A	H	E	E	A	B
2008	A	-	B	-	B	A	A	A	A	H	E	E	A	B
2009	A	-	B	-	B	A	A	A	A	I	E	E	A	B
2010	-	A	B	-	B	A	A	A	A	J	F	F	-	B
2011	-	A	B	-	B	A	A	A	A	J	F	F	-	B
2012	-	A	B	-	B	A	A	A	A	K	G	-	-	B
2013	-	-	B	-	B	A	A	A	A	K	H	-	-	B
2014	-	-	B	-	B	A	A	A	A	K	H	-	-	B

Vehicle Data Set *(continued)*

Year	L_CL_VEH	L_COMPL	L_ENDORS	L_RESTRI	L_STATE	L_STATUS	L_TYPE	LAST_MO	LAST_YR	M_HARM	MAK_MOD	MAKE	MCARR_I1, MCARR_I2	MCARR_ID
1975	-	-	-	A	A	A	-	A	A	-	A	A	-	-
1976	-	-	-	A	A	A	-	A	A	-	A	A	-	-
1977	-	-	-	A	A	A	-	A	A	-	A	A	-	-
1978	-	-	-	A	A	A	-	A	A	-	A	A	-	-
1979	-	-	-	A	A	A	-	A	A	A	A	A	-	-
1980	-	-	-	A	A	A	-	A	A	A	A	A	-	-
1981	-	-	-	A	A	A	-	A	A	A	A	A	-	-
1982	A	-	-	A	A	B	-	A	A	B	B	B	-	-
1983	A	-	-	A	A	B	-	A	A	B	B	B	-	-
1984	A	-	-	A	A	B	-	A	A	B	B	B	-	-
1985	A	-	-	A	A	B	-	A	A	B	B	B	-	-
1986	A	-	-	A	A	B	-	A	A	B	B	B	-	-
1987	-	A	-	A	A	C	-	A	A	B	C	C	-	-
1988	-	A	-	A	A	C	-	A	A	B	C	D	-	-
1989	-	A	-	A	A	C	-	A	A	B	C	D	-	-
1990	-	A	-	A	A	C	-	A	A	B	C	D	-	-
1991	-	A	A	A	A	C	-	A	A	B	D	E	-	-
1992	-	A	A	A	A	C	-	A	A	B	D	E	-	-
1993	-	B	A	A	A	D	-	A	A	C	D	E	-	-
1994	-	B	A	A	A	D	-	A	A	D	D	E	-	-
1995	-	B	A	A	A	D	-	A	A	D	D	E	-	-
1996	-	B	A	A	A	D	-	A	A	D	D	E	-	-
1997	-	B	A	A	A	D	-	A	A	E	D	E	-	-
1998	-	B	A	A	A	D	-	A	B	F	D	E	-	A
1999	-	B	A	A	A	D	-	A	B	F	D	E	-	A
2000	-	B	A	A	A	D	-	A	B	F	D	E	-	A
2001	-	B	A	A	A	D	-	A	B	F	D	E	-	A
2002	-	B	A	A	A	D	-	A	B	F	D	E	-	A
2003		B	A	A	A	D	-	A	B	F	D	E	-	A
2004		B	A	A	B	E	A	A	B	G	D	E	-	A
2005	-	B	A	A	B	E	A	A	B	H	D	E	-	A
2006	-	B	A	A	B	E	A	A	B	H	D	E	-	A
2007	-	B	A	A	C	E	A	A	B	H	D	E	A	A
2008	-	B	A	A	C	E	A	A	B	I	D	E	A	A
2009	-	B	A	A	D	E	A	A	B	J	D	E	A	A
2010	-	C	B	B	E	F	A	A	B	K	D	F	B	B
2011	-	D	C	C	E	G	B	B	C	L	D	G	B	B
2012	-	E	D	D	E	G	B	B	C	M	D	H	B	B
2013	-	E	D	D	E	G	B	B	C	N	D	I	B	B
2014	-	E	D	D	E	G	B	B	C	N	D	I	B	B

Vehicle Data Set *(continued)*

Year	MCYCL_CY	MCYCL_DS	MCYCL_TY	MCYCL_WT	MOD_YEAR	MODEL	NUMOCCS	OCUPANTS	OWNER	P_CRASH1	P_CRASH2	P_CRASH3	PCRASH4	PCRASH5
1975	-	A	A	-	A	A	-	A	-	-	-	-	-	-
1976	-	A	A	-	A	A	-	A	-	-	-	-	-	-
1977	-	A	A	-	A	A	-	A	-	-	-	-	-	-
1978	-	A	A	-	A	A	-	A	-	-	-	-	-	-
1979	-	A	A	-	A	A	-	A	-	-	-	-	-	-
1980	-	A	A	-	A	A	-	A	-	-	-	-	-	-
1981	-	A	A	-	A	A	-	A	-	-	-	-	-	-
1982	-	A	-	-	A	B	-	A	-	-	-	-	-	-
1983	-	A	-	-	A	B	-	A	-	-	-	-	-	-
1984	-	A	-	-	A	B	-	A	-	-	-	-	-	-
1985	-	A	-	-	A	B	-	A	-	-	-	-	-	-
1986	-	A	-	-	A	B	-	A	-	-	-	-	-	-
1987	-	A	-	-	A	C	-	A	-	-	-	-	-	-
1988	-	A	-	-	A	C	-	A	-	-	-	-	-	-
1989	-	A	-	-	A	C	-	A	-	-	-	-	-	-
1990	-	A	-	-	A	C	-	A	-	-	-	-	-	-
1991	-	A	-	-	A	D	-	A	A	-	-	-	-	-
1992	-	A	-	-	A	D	-	A	A	-	-	-	-	-
1993	-	A	-	-	A	D	-	A	A	-	-	-	-	-
1994	-	A	-	-	A	D	-	A	A	-	-	-	-	-
1995	-	A	-	-	A	D	-	A	A	-	-	-	-	-
1996	-	A	-	-	A	D	-	A	A	-	-	-	-	-
1997	-	A	-	-	A	D	-	A	A	-	-	-	-	-
1998	-	A	-	-	B	D	-	A	A	-	-	-	-	-
1999	-	A	-	-	B	D	-	A	A	-	-	-	-	-
2000		A	-		B	D	-	A	A	-	-	-	-	-
2001	-	A	-	-	B	D	-	A	A	-	-	-	-	-
2002	-	A	-	-	B	D	-	A	A	-	-	-	-	-
2003	-	A	-	-	B	D	-	A	A	-	-	-	-	-
2004	-	A	-	-	B	D	-	A	A	-	-	-	-	-
2005	-	A	-	-	B	D	-	A	A	-	-	-	-	-
2006	-	A	-	-	B	D	-	A	A	-	-	-	-	-
2007	-	A	-	-	B	D	-	A	A	-	-	-	-	-
2008	-	A	-	-	B	D	-	A	B	-	-	-	-	-
2009	-	A	-	-	B	D	A	-	B	-	-	-	-	-
2010	-	A	-	-	C	D	A	-	B	A	A	A	A	A
2011	A	A	-	A	C	D	A	-	B	B	B	A	A	A
2012	A	A	-	A	C	D	A	-	B	B	B	A	A	A
2013	-	-	-	-	C	D	A	-	B	C	B	B	B	B
2014	-	-	-	-	C	D	A	-	B	C	B	B	B	B

Vehicle Data Set *(continued)*

Year	PREV_ACC	PREV_DWI	PREV_OTH	PREV_SPD	PREV_SUS	REG_STAT	ROLINLOC	ROLLOVER	SEQ1, SEQ2, SEQ3, SEQ4, SEQ5, SEQ6	SER_TR	SPEC_USE	SPEEDREL	TIRE_SZE
1975	A	A	A	A	A	A	-	-	-	A	A	-	-
1976	A	A	A	A	A	A	-	-	-	A	A	-	-
1977	A	A	A	A	A	A	-	-	-	A	A	-	-
1978	A	A	A	A	A	A	-	A	-	A	A	-	-
1979	A	A	A	A	A	A	-	A	-	A	A	-	-
1980	A	A	A	A	A	A	-	A	-	A	A	-	-
1981	A	A	A	A	A	A	-	A	-	A	A	-	-
1982	A	A	A	A	A	A	-	A	-	A	A	-	-
1983	A	A	A	A	A	A	-	A	-	A	A	-	-
1984	A	A	A	A	A	A	-	A	-	A	A	-	-
1985	A	A	A	A	A	A	-	A	-	A	A	-	-
1986	A	A	A	A	A	A	-	A	-	A	A	-	-
1987	A	A	A	A	A	A	-	A	-	A	A	-	-
1988	A	A	A	A	A	A	-	A	-	A	A	-	-
1989	A	A	A	A	A	A	-	A	-	A	A	-	-
1990	A	A	A	A	A	A	-	A	-	A	A	-	-
1991	A	A	A	A	A	A	-	A	-	A	A	-	-
1992	A	A	A	A	A	A	-	A	-	A	A	-	-
1993	A	A	A	A	A	A	-	A	-	A	A	-	-
1994	B	B	B	B	B	A	-	A	-	A	A	-	-
1995	B	B	B	B	B	A	-	A	-	A	A	-	-
1996	B	B	B	B	B	A	-	A	-	A	A	-	-
1997	B	B	B	B	B	B	-	A	-	A	A	-	-
1998	B	B	B	B	B	B	-	A	-	A	A	-	-
1999	B	B	B	B	B	B	-	A	-	A	A	-	-
2000	B	B	B	B	B	B	-	A	-	A	A	-	-
2001	B	B	B	B	B	B	-	A	-	A	A	-	-
2002	B	B	B	B	B	B	-	A	-	A	A	-	-
2003	B	B	B	B	B	B	-	A	-	A	A	-	-
2004	B	B	B	B	B	C	-	A	A	A	A	-	-
2005	B	B	B	B	B	C	-	A	B	A	A	-	-
2006	B	B	B	B	B	C	-	A	B	A	A	-	-
2007	B	B	B	B	B	C	-	A	B	A	A	-	-
2008	B	B	B	B	B	D	-	A	C	A	A	-	-
2009	B	B	B	B	B	D	A	B	C	A	B	A	-
2010	B	B	B	B	B	E	A	B	-	A	C	A	-
2011	C	C	C	C	C	E	B	B	-	A	C	B	A
2012	C	C	C	C	C	E	B	B	-	A	D	B	A
2013	C	C	C	C	C	E	B	B	-	-	E	C	-
2014	C	C	C	C	C	E	B	B	-	-	E	C	-

Vehicle Data Set *(continued)*

Year	TON_RAT	TOW_VEH	TOWAWAY	TOWED	TRAV_SP	TRK_WT	UNDERIDE	UNITTYPE	V_CONFIG	VALIGN	VEH_CF1, VEH_CF2	VEH_MAN	VEH_NO	VEH_SC1, VEH_SC2
1975	-	A	A	-	A	-	-	-	-	-	A	-	A	-
1976	-	A	B	-	A	-	-	-	-	-	A	-	A	-
1977	-	A	B	-	A	-	-	-	-	-	A	-	A	-
1978	-	A	B	-	A	-	-	-	-	-	A	-	A	-
1979	-	A	B	-	A	-	-	-	-	-	A	-	A	-
1980	-	A	B	-	-	-	-	-	-	-	A	-	A	-
1981	-	A	B	-	-	-	-	-	-	-	A	-	A	-
1982	-	B	B	-	A	-	-	-	-	-	B	A	A	-
1983	-	C	B	-	A	-	-	-	-	-	B	A	A	-
1984	-	C	B	-	A	-	-	-	-	-	B	A	A	-
1985	-	C	B	-	A	-	-	-	-	-	B	A	A	-
1986	-	C	B	-	A	-	-	-	-	-	B	A	A	-
1987	-	C	B	-	A	-	-	-	-	-	B	A	A	-
1988	-	C	B	-	A	-	-	-	-	-	B	A	A	-
1989	-	C	B	-	A	-	-	-	-	-	B	A	A	-
1990	-	C	B	-	A	-	-	-	-	-	B	A	A	-
1991	-	C	B	-	A	-	-	-	A	-	B	A	A	-
1992	-	C	B	-	A	-	-	-	A	-	B	A	A	-
1993	-	C	B	-	A	-	-	-	A	-	B	A	A	-
1994	-	C	B	-	A	-	A	-	A	-	B	A	A	-
1995	-	C	B	-	A	-	A	-	B	-	C	A	A	-
1996	-	C	B	-	A	-	A	-	B	-	C	A	A	-
1997	-	C	B	-	A	-	A	-	B	-	C	A	A	-
1998	-	C	B	-	A	-	A	-	B	-	D	A	A	-
1999	-	C	B	-	A	-	A	-	B	-	E	A	A	-
2000	-	C	B	-	A	-	A	-	B	-	F	A	A	-
2001	-	C	B	-	A	-	A	-	C	-	G	A	A	-
2002	-	C	B	-	A	-	A	-	C	-	H	A	A	-
2003	-	C	B	-	A	-	A	-	C	-	H	A	A	-
2004	-	D	B	-	A	-	A	-	C	-	I	A	A	-
2005	-	D	B	-	A	-	A	A	C	-	J	A	A	-
2006	-	D	B	-	A	-	A	A	C	-	J	A	A	-
2007	-	D	B	-	A	-	A	A	D	-	K	A	A	-
2008	-	D	B	-	A	-	A	B	D	-	L	A	A	-
2009	-	E	-	A	B	-	A	B	D	-	M	A	B	-
2010	-	E	-	B	B	-	A	B	E	A	-	-	B	A
2011	A	E	-	B	B	A	A	B	E	A	-	-	B	A
2012	A	E	-	C	B	A	A	B	E	A	-	-	B	A
2013	-	E	-	D	B	-	A	B	F	B	-	-	B	A
2014	-	E	-	D	B	-	A	B	F	B	-	-	B	A

Vehicle Data Set *(continued)*

Year	VIN	VIN_1 – VIN_10	VIN_11 – VIN_12	VIN_BT	VIN_LNGT	VIN_REST	VIN_WGT	VINA_MOD	VINMAKE	VINMODYR	VINTYPE	VIOL_CHG	VIOLCHG1 VIOLCHG2 VIOLCHG3
1975	A	A	-	-	A	-	A	A	-	-	-	A	-
1976	A	A	-	-	A	-	A	A	-	-	-	A	-
1977	A	A	-	-	A	-	A	A	-	-	-	A	-
1978	A	A	-	-	A	-	A	A	-	-	-	A	-
1979	A	A	-	-	A	-	A	A	-	-	-	A	-
1980	A	A	-	-	A	-	A	A	-	-	-	A	-
1981	A	A	-	-	A	-	A	A	-	-	-	A	-
1982	A	A	-	A	A	-	A	A	-	-	-	B	-
1983	A	A	-	A	A	-	A	A	-	-	-	B	-
1984	A	A	-	A	A	-	A	A	-	-	-	B	-
1985	A	A	-	A	A	-	A	A	-	-	-	B	-
1986	A	A	-	A	A	-	A	A	-	-	-	B	-
1987	A	A	-	A	A	-	A	A	-	-	-	B	-
1988	A	A	-	A	A	-	A	A	-	-	-	B	-
1989	A	A	-	A	A	-	A	A	-	-	-	B	-
1990	A	A	-	A	A	-	A	A	-	-	-	B	-
1991	A	A	-	A	A	-	A	A	-	-	-	B	-
1992	A	A	-	A	A	-	A	A	-	-	-	B	-
1993	A	A	-	A	A	-	A	A	-	-	-	B	-
1994	B	A	A	A	A	-	A	A	-	-	-	B	-
1995	B	A	A	A	A	-	A	A	-	-	-	B	-
1996	B	A	A	A	A	-	A	A	-	-	-	B	-
1997	B	A	A	A	A	-	A	A	-	-	-	-	A
1998	B	A	A	A	A	-	A	A	-	-	-	-	A
1999	B	A	A	A	A	-	A	A	-	-	-	-	A
2000	B	A	A	A	A	-	A	A	-	-	-	-	A
2001	B	A	A	A	A	-	A	A	-	-	-	-	A
2002	B	A	A	A	A	-	A	A	-	-	-	-	A
2003	B	A	A	A	A	-	A	A	-	-	-	-	A
2004	B	A	A	A	A	-	A	A	-	-	-	-	A
2005	B	A	A	A	A	-	A	A	-	-	-	-	A
2006	B	A	A	A	A	-	A	A	-	-	-	-	A
2007	B	A	A	A	A	-	A	A	-	-	-	-	A
2008	B	A	A	A	A	-	A	A	-	-	-	-	A
2009	C	B	B	A	A	-	A	A	-	-	-	-	A
2010	D	B	B	B	A	-	A	A	A	A	A	-	-
2011	D	B	B	B	A	A	A	A	A	A	A	-	-
2012	D	B	B	B	A	A	A	A	A	A	A	-	-
2013	D	B	B	-	-	-	-	-	-	-	-	-	-
2014	D	B	B	-	-	-	-	-	-	-	-	-	-

Vehicle Data Set *(continued)*

Year	VNUM_LAN	VPAVETYP	VPROFILE	VSPD_LIM	VSURCOND	VTCONT_F	VTRAFCON	VTRAFWAY	WGTCD_TR	WHLBS_LG	WHLBS_SH	WHLDRWHL
1975	-	-	-	-	-	-	-	-	A	A	A	-
1976	-	-	-	-	-	-	-	-	A	A	A	-
1977	-	-	-	-	-	-	-	-	A	A	A	-
1978	-	-	-	-	-	-	-	-	A	A	A	-
1979	-	-	-	-	-	-	-	-	A	A	A	-
1980	-	-	-	-	-	-	-	-	A	A	A	-
1981	-	-	-	-	-	-	-	-	A	A	A	-
1982	-	-	-	-	-	-	-	-	A	A	A	-
1983	-	-	-	-	-	-	-	-	A	A	A	-
1984	-	-	-	-	-	-	-	-	A	A	A	-
1985	-	-	-	-	-	-	-	-	A	A	A	-
1986	-	-	-	-	-	-	-	-	A	A	A	-
1987	-	-	-	-	-	-	-	-	A	A	A	-
1988	-	-	-	-	-	-	-	-	A	A	A	-
1989	-	-	-	-	-	-	-	-	A	A	A	-
1990	-	-	-	-	-	-	-	-	A	A	A	-
1991	-	-	-	-	-	-	-	-	A	A	A	-
1992	-	-	-	-	-	-	-	-	A	A	A	-
1993	-	-	-	-	-	-	-	-	A	A	A	-
1994	-	-	-	-	-	-	-	-	A	A	A	-
1995	-	-	-	-	-	-	-	-	A	A	A	-
1996	-	-	-	-	-	-	-	-	A	A	A	-
1997	-	-	-	-	-	-	-	-	A	A	A	-
1998	-	-	-	-	-	-	-	-	A	A	A	-
1999	-	-	-	-	-	-	-	-	A	A	A	-
2000	-	-	-	-	-	-	-	-	A	A	A	-
2001	-	-	-	-	-	-	-	-	A	A	A	-
2002	-	-	-	-	-	-	-	-	A	A	A	-
2003	-	-	-	-	-	-	-	-	A	A	A	-
2004	-	-	-	-	-	-	-	-	A	A	A	-
2005	-	-	-	-	-	-	-	-	A	A	A	-
2006	-	-	-	-	-	-	-	-	A	A	A	-
2007	-	-	-	-	-	-	-	-	A	A	A	-
2008	-	-	-	-	-	-	-	-	A	A	A	-
2009	-	-	-	-	-	-	-	-	A	A	A	-
2010	A	A	A	A	A	A	A	A	A	A	A	-
2011	A	A	A	B	A	A	B	A	A	A	A	A
2012	A	A	A	B	A	A	B	A	A	A	A	A
2013	B	B	B	C	A	A	B	B	-	-	-	-
2014	B	B	B	C	A	A	B	B	-	-	-	-

Person Data Set

Year	AGE	ACL_RES	ACL_STATUS	AIR_BAG	ALC_DET	ATST_TYP	AUT_REST	CERT_NO	DEATH_DA	DEATH_HR	DEATH_MN	DEATH_MO	DEATH_TM	DEATH_YR
1975		-	-	-	-	-	A	-	A	A	A	A	A	A
1976		-	-	-	-	-	A	-	A	A	A	A	A	A
1977	A	-	-	-	-	-	B	-	A	A	A	A	A	A
1978	A	-	-	-	-	-	B	-	A	A	A	A	A	A
1979	A	-	-	-	-	-	B	-	A	A	A	A	A	A
1980	A	-	-	-	-	-	C	-	A	A	A	A	A	A
1981	A	-	-	-	-	-	C	-	A	A	A	A	A	A
1982	A	-	-	-	-	-	C	-	A	A	A	A	A	A
1983	A	-	-	-	-	-	C	-	A	A	A	A	A	A
1984	A	-	-	-	-	-	C	-	A	A	A	A	A	A
1985	A	-	-	-	-	-	C	-	A	A	A	A	A	A
1986	A	-	-	-	-	-	C	-	A	A	A	A	A	A
1987	A	-	-	-	A	-	C	-	A	A	A	A	A	A
1988	A	-	-	-	A	-	C	-	A	A	A	A	A	A
1989	A	-	-	-	A	-	C	-	A	A	A	A	A	A
1990	A	-	-	-	A	-	D	-	A	A	A	A	A	A
1991	A	A	-	A	A	-	-	A	A	A	A	A	A	A
1992	A	A	-	A	A	-	-	A	A	A	A	A	A	A
1993	A	A	-	A	A	-	-	A	A	A	A	A	A	A
1994	A	A	-	A	A	-	-	A	A	A	A	A	A	A
1995	A	B	-	A	A	-	-	A	A	A	A	A	A	A
1996	A	B	-	A	A	-	-	A	A	A	A	A	A	A
1997	A	B	-	A	A	-	-	A	A	A	A	A	A	A
1998	A	B	-	B	A	A	-	A	A	A	A	A	A	B
1999	A	B	-	B	A	A	-	A	A	A	A	A	A	B
2000	A	B	-	B	A	A	-	A	A	A	A	A	A	B
2001	A	B	-	B	A	B	-	A	A	A	A	A	A	B
2002	A	B	-	B	A	B	-	A	A	A	A	A	A	B
2003	A	B	-	B	A	B	-	A	A	A	A	A	A	B
2004	A	C	-	B	A	C	-	A	A	A	A	A	A	B
2005	A	C	-	C	A	C	-	A	A	A	A	A	A	B
2006	A	C	-	C	A	D	-	A	A	A	A	A	A	B
2007	A	C	-	D	A	D	-	A	A	A	A	A	A	B
2008	A	C	-	D	A	D	-	A	B	A	A	A	A	B
2009	B	D	A	E	A	E	-	A	C	B	B	B	B	C
2010	C	E	B	F	A	F	-	A	C	B	B	C	B	C
2011	C	E	B	F	A	F	-	A	C	B	B	C	B	C
2012	C	E	B	F	A	F	-	A	C	B	B	C	B	C
2013	C	E	B	F	A	F	-	A	C	B	B	C	B	C
2014	C	E	B	F	A	F	-	A	C	B	B	C	B	C

Person Data Set *(continued)*

Year	DOA	DRINKING	DRUG_DET	DRUG_RES	DRUGRES1, DRUGRES2, DRUGRES3	DRUGS	DRUGTEST	DRUGTST1, DRUGTST2, DRUGTST3	DSTATUS	EJ_PATH	EJECTION	EXTRICAT	HISPANIC	HOSPITAL	INJ_SEV
1975	-	A	-	-	-	-	-	-	-	-	A	A	-	-	A
1976	-	A	-	-	-	-	-	-	-	-	A	A	-	-	A
1977	-	A	-	-	-	-	-	-	-	-	A	A	-	A	A
1978	-	A	-	-	-	-	-	-	-	-	A	A	-	A	A
1979	-	A	-	-	-	-	-	-	-	-	A	A	-	A	A
1980	-	A	-	-	-	-	-	-	-	-	A	A	-	A	A
1981	-	A	-	-	-	-	-	-	-	-	A	A	-	A	A
1982	-	A	-	-	-	-	-	-	-	-	A	A	-	A	A
1983	-	A	-	-	-	-	-	-	-	-	A	A	-	A	A
1984	-	A	-	-	-	-	-	-	-	-	A	A	-	A	A
1985	-	A	-	-	-	-	-	-	-	-	A	A	-	A	A
1986	-	A	-	-	-	-	-	-	-	-	A	A	-	A	A
1987	-	A	-	-	-	-	-	-	-	-	A	A	-	A	A
1988	-	A	-	-	-	-	-	-	-	-	A	A	-	A	A
1989	-	A	-	-	-	-	-	-	-	-	A	A	-	A	A
1990	-	A	-	-	-	-	-	-	-	-	A	A	-	A	A
1991	-	A	A	A	-	A	A	-	-	A	A	A	-	A	A
1992	-	A	A	A	-	A	A	-	-	A	A	A	-	A	A
1993	-	A	A	-	A	A	-	A	-	A	A	A	-	A	A
1994	-	A	A	-	A	A	-	A	-	A	A	A	-	A	A
1995	-	A	A	-	A	A	-	A	-	A	A	A	-	A	A
1996	-	A	A	-	A	A	-	A	-	A	A	A	-	A	A
1997	-	A	A	-	A	A	-	A	-	A	A	A	-	A	A
1998	-	A	A	-	A	A	-	A	-	A	A	A	-	A	A
1999	-	A	A	-	A	A	-	A	-	A	A	A	A	B	A
2000	-	A	A	-	A	A	-	A	-	A	A	A	B	B	A
2001	A	A	A	-	A	A	-	A	-	A	A	A	C	C	A
2002	A	A	A	-	A	A	-	A	-	A	A	A	C	C	A
2003	A	A	A	-	A	A	-	A	-	A	A	A	C	C	A
2004	A	A	A	-	A	A	-	A	-	A	A	A	C	C	A
2005	A	A	A	-	A	A	-	A	-	A	A	A	C	C	A
2006	A	A	A	-	A	A	-	A	-	A	A	A	C	C	A
2007	A	A	A	-	A	A	-	A	-	A	B	A	C	D	A
2008	A	A	A	-	A	A	-	A	-	A	C	A	C	D	A
2009	A	A	A	-	A	A	-	B	A	A	D	A	C	D	B
2010	A	A	A	-	B	A	-	B	B	A	E	A	C	E	C
2011	A	A	A	-	B	A	-	B	B	A	E	A	C	E	C
2012	A	A	A	-	B	A	-	B	B	A	E	A	C	E	C
2013	A	A	A	-	B	A	-	B	B	A	E	A	C	E	D
2014	A	A	A	-	B	A	-	B	B	A	E	A	C	E	D

Person Data Set *(continued)*

Year	LAG_HRS	LAG_MINS	LOCATION	MAN_REST	N_MOT_NO	P_CF1, P_CF2, P_CF3	PER_NO	PER_TYP	RACE	REST_MIS	REST_USE	SEAT_POS	SEX	TEST_RES	TOXCLGY	WORK_INJ
1975	A	A	A	A	-	A	A	A	-	-	-	A	A	A	-	-
1976	A	A	A	A	-	B	A	A	-	-	-	A	A	A	-	-
1977	A	A	A	A	-	B	A	A	-	-	-	A	A	A	-	-
1978	A	A	A	A	-	B	A	A	-	-	-	A	A	A	-	-
1979	A	A	A	A	-	B	A	A	-	-	-	A	A	A	-	-
1980	A	A	B	A	-	B	A	A	-	-	-	A	A	A	-	-
1981	A	A	B	A	-	B	A	A	-	-	-	A	A	A	-	-
1982	A	A	C	A	A	C	A	B	-	-	-	B	A	A	-	-
1983	A	A	C	A	A	C	A	B	-	-	-	B	A	A	-	-
1984	A	A	C	A	A	C	A	B	-	-	-	B	A	A	-	-
1985	A	A	C	A	A	C	A	B	-	-	-	B	A	A	-	-
1986	A	A	C	A	A	C	A	B	-	-	-	B	A	A	-	-
1987	A	A	C	A	A	C	A	B	-	-	-	B	A	A	A	A
1988	A	A	C	A	A	C	A	B	-	-	-	B	A	A	A	A
1989	A	A	C	A	A	C	A	B	-	-	-	B	A	A	A	A
1990	A	A	C	A	A	C	A	B	-	-	-	B	A	A	A	A
1991	A	A	C	-	A	C	A	B	-	-	A	B	A	-	-	A
1992	A	A	C	-	A	C	A	B	-	-	A	B	A	-	-	A
1993	A	A	C	-	A	C	A	B	-	-	A	B	A	-	-	A
1994	A	A	C	-	A	C	A	C	-	-	B	B	A	-	-	A
1995	A	A	C	-	A	D	A	C	-	-	B	B	A	-	-	A
1996	A	A	C	-	A	D	A	C	-	-	B	B	A	-	-	A
1997	A	A	C	-	A	E	A	C	-	-	B	B	A	-	-	A
1998	A	A	C	-	A	E	A	C	-	-	B	B	A	-	-	A
1999	A	A	C	-	A	E	A	C	A	-	B	B	A	-	-	A
2000	A	A	C	-	A	F	A	C	B	-	B	B	A	-	-	A
2001	A	A	C	-	A	G	A	C	C	-	B	B	A	-	-	A
2002	A	A	C	-	A	H	A	C	C	-	B	C	A	-	-	A
2003	A	A	C	-	A	I	A	C	C	-	B	C	A	-	-	A
2004	A	A	C	-	A	J	A	C	C	-	B	C	A	-	-	A
2005	A	A	C	-	A	K	A	C	C	-	C	D	A	-	-	A
2006	A	A	D	-	A	K	A	C	C	-	C	D	A	-	-	A
2007	A	A	D	-	A	L	A	D	C	-	C	D	A	-	-	A
2008	A	A	D	-	A	M	A	D	C	-	D	D	A	-	-	A
2009	B	A	D	-	B	M	B	D	C	-	D	E	A	-	-	A
2010	B	A	E	-	B	N	B	E	C	A	E	F	B	-	-	A
2011	B	A	E	-	-	O	B	F	C	A	E	F	B	-	-	A
2012	B	A	E	-	-	O	B	F	C	A	E	F	B	-	-	A
2013	B	A	E	-	-	P	B	F	C	A	F	F	B	-	-	A
2014	B	A	F	-	-	P	B	F	C	A	F	F	B	-	-	A

Vehnit Data Set

Year	AVOID	AXLES	BODY_TYP	BUS_USE	CARGO_BT	CDL_STAT	D_VISION1, D_VISION2, D_VISION3	DEATHS	DEFORMED	DR_CF1, DR_CF2, DR_CF3	DR_CF4	DR_DRINK	DR_HGT	DR_PRES
2005	A	A	A	A	A	A	-	A	A	A	A	A	A	A
2006	A	A	A	A	A	A	-	A	A	B	B	A	A	A
2007	A	A	A	A	B	A	-	A	A	B	B	A	A	A
2008	A	-	B	A	B	A	-	A	A	C	C	A	A	B
2009	A	-	B	A	C	A	A	A	B	D	D	A	B	C

Vehnit Data Set *(continued)*

Year	DR_WGT	DR_ZIP	EMER_USE	FIRE_EXP	FIRST_MO	FIRST_YR	FLDCD_TR	GWVR	HAZ_CARG	HAZ_CNO	HAZ_ID	HAZ_INV	HAZ_PLAC	HAZ_REL	HIT_RUN
2005	A	A	A	A	A	A	A	A	A	-	-	-	-	-	A
2006	A	A	A	A	A	A	A	A	A	-	-	-	-	-	A
2007	A	A	A	A	A	A	A	A	-	A	A	A	A	A	B
2008	A	A	A	B	A	A	A	A	-	B	A	A	A	A	B
2009	A	A	A	C	A	A	A	A	-	B	A	A	A	A	C

Vehnit Data Set *(continued)*

Year	IMPACT1	IMPACT2	IMPACTS	J_KNIFE	L_COMPL	L_ENDORS	L_RESTRI	L_STATE	L_STATUS	L_TYPE	LAST_MO	LAST_YR	M_HARM	MAK_MOD	MAKE
2005	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
2006	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
2007	A	A	A	A	A	A	A	B	A	A	A	A	A	A	A
2008	A	A	A	A	A	A	A	B	A	A	A	A	B	A	A
2009	A	A	A	A	A	A	A	C	A	A	A	A	C	A	A

Vehnit Data Set *(continued)*

Year	MAN_COLL	MCARR_I1, MCARR_I2	MCARR_ID	MCYCL_DS	MOD_YEAR	MODEL	NUMOCCS	OCUPANTS	OWNER	PREV_ACC	PREV_DWI	PREV_OTH	PREV_SPD	PREV_SUS	REG_STAT
2005	A	-	A	A	A	A	-	A	A	A	A	A	A	A	A
2006	A	-	A	A	A	A	-	A	A	A	A	A	A	A	A
2007	A	A	A	A	A	A	-	A	A	A	A	A	A	A	A
2008	A	A	A	A	A	A	-	A	B	A	A	A	A	A	B
2009	A	A	A	A	A	A	A	-	B	A	A	A	A	A	B

Vehnit Data Set *(continued)*

Year	ROLINLOC	ROLLOVER	SEQ1, SEQ2, SEQ3, SEQ4, SEQ5, SEQ6	SER_TR	SPEC_USE	SPEEDREL	TOW_VEH	TOWAWAY	TOWED	TRAV_SP	UNDERIDE	UNITTYPE	V_CONFIG	VEH_CF1, VEH_CF2
2005	-	A	A	A	A	-	A	A	-	A	A	A	A	A
2006	-	A	A	A	A	-	A	A	-	A	A	A	A	A
2007	-	A	A	A	A	-	A	A	-	A	A	A	B	B
2008	-	A	B	A	A	-	A	A	-	A	A	B	B	C
2009	A	B	B	A	B	A	B	-	A	B	A	B	B	D

Vehnit Data Set *(continued)*

Year	VEH_MAN	VEH_NO	VIN	VIN_1 – VIN_12	VIN_BT	VIN_LNGT	VIN_WGT	VINA_MOD	VIOLCHG1 VIOLCHG2 VIOLCHG3	WGTCD_TR	WHLBS_LG	WHLBS_SH
2005	A	A	A	A	A	A	A	A	A	A	A	A
2006	A	A	A	A	A	A	A	A	A	A	A	A
2007	A	A	A	A	A	A	A	A	A	A	A	A
2008	A	A	A	A	A	A	A	A	A	A	A	A
2009	A	B	B	B	A	A	A	A	A	A	A	A

Parkwork Data Set

Year	PBODYTYP	PBUS_USE	PCARGTYP	PMINUTE	PCARBUR	PCYLINDER	PDAY	PDEATHS	PDISPLACE	PEM_USE	PFIRE	PFUECODE	PGVWR	PHARM_EV	PHOUR
2010	A	A	A	A	-	-	A	A	-	A	A	A	A	A	A
2011	B	A	A	A	A	A	A	A	A	A	A	A	A	B	A
2012	C	A	A	A	A	A	A	A	A	A	A	A	A	C	A
2013	D	A	B	A	-	-	A	A	-	B	A	-	A	D	A
2014	D	A	A	A	-	-	A	A	-	C	A	-	A	D	A

Parkwork Data Set *(continued)*

Year	PHAZ_CNO	PHAZ_ID	PHAZ_INV	PHAZ_REL	PHAZPLAC	PHIT_RUN	PIMPACT1	PIMPACT2	PM_HARM	PMAKE	PMAK_MOD	PMAN_COLL	PMCARR_I1, PMCARR_I2	PMCARR_ID	PMCYCL_DS
2010	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
2011	A	A	A	A	A	A	A	A	B	B	A	A	A	A	A
2012	A	A	A	A	A	B	B	-	C	C	A	A	A	A	A
2013	A	A	A	A	A	B	C	-	D	D	A	A	A	A	-
2014	A	A	A	A	A	A	C	-	D	D	A	A	A	A	-

Parkwork Data Set *(continued)*

Year	PMCYCL_CY	PMCYCL_WT	PMINUTE	PMODEL	PMODYEAR	PMONTH	PNUMOCCS	POWNER	PREG_STAT	PSER_TR	PSP_USE	PTIRE_SZE	PTOWED	PTON_RAT	PTRAILER
2010	-	-	A	A	A	A	A	A	A	A	A	-	A	-	A
2011	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
2012	A	A	A	A	A	A	A	A	A	A	B	A	A	A	A
2013	-	-	A	A	A	A	A	A	A	-	C	-	A	-	A
2014	-	-	A	A	A	A	A	A	A	-	A	-	A	-	A

Parkwork Data Set *(continued)*

Year	PTRK_WT	PTRKWTVAR	PUNDERIDE	PTTYPE	PV_CONFIG	PVE_FORMS	PVEH_SEV	PVEH_SC1, PVEH_SC2	PVIN	PVINA_MOD	PVIN_1 – PVIN_12	PVIN_BT	PVIN_LNGT	PVIN_REST	PVINMAKE
2010	-	-	A	A	A	A	A	A	A	A	A	A	A	-	A
2011	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
2012	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A
2013	-	-	B	A	B	A	A	A	A	A	A	A	-	-	-
2014	-	-	B	A	B	A	A	B	A	A	A	A	-	-	-

Parkwork Data Set *(continued)*

Year	PVINMODYR	PVINTYPE	PVIN_WGT	PWGTCD_TR	PWHLBS_LG	PWHLBS_SH	PWHLDRWHL
2010	A	A	A	A	A	A	-
2011	A	A	A	A	A	A	A
2012	A	A	A	A	A	A	A
2013	-	-	-	-	-	-	-
2014	-	-	-	-	-	-	-

Cevent Data Set

Year	VNUMBER1	AOI1	SOE	VNUMBER2	AOI2
2010	A	A	A	A	A
2011	A	B	A	A	B
2012	A	C	B	A	C
2013	A	D	C	A	D
2014	A	D	D	A	D

Vevent Data Set

Year	VNUMBER1	AOI1	SOE	VNUMBER2	AOI2
2010	A	A	A	A	A
2011	A	B	A	A	B
2012	A	C	B	A	C
2013	A	D	C	A	D
2014	A	D	D	A	D

Vsoe Data Set

Year	AOI	SOE
2010	A	A
2011	B	A
2012	C	B
2013	D	C
2014	D	D

Distract Data Set

Year	MDRDSTRD
2010	A
2011	A
2012	B
2013	B
2014	B

Drimpair Data Set

Year	DRIMPAIR
2010	A
2011	B
2012	B
2013	B
2014	C

Factor Data Set

Year	MFACTOR
2010	A
2011	A
2012	A
2013	A
2014	A

Maneuver Data Set

Year	MDRMANAV
2010	A
2011	A
2012	A
2013	A
2014	A

Violatn Data Set

Year	MVIOLATN
2010	A
2011	A
2012	A
2013	A
2014	B

Vision Data Set

Year	MVISIOBSC
2010	A
2011	A
2012	A
2013	A
2014	A

Nmcrash Data Set

Year	MTM_CRSH
2010	A
2011	A
2012	A
2013	A
2014	B

Nmimpair Data Set

Year	NMIMPAIR
2010	A
2011	A
2012	A
2013	A
2014	C

Nmprior Data Set

Year	MPR_ACT
2010	A
2011	A
2012	A
2013	A
2014	B

Safetyeq Data Set

Year	MSAFEQMT
2010	A
2011	A
2012	A
2013	A
2014	A

Damage Data Set

Year	MDAREAS
2012	A
2013	A
2014	A

Appendix E:
Summary of 2010 and 2011 FARS Changes

2010 FARS/NASS GES Standardization

The purpose of this document is to inform users of NHTSA's Fatality Analysis Reporting System (FARS) and National Automotive Sampling System General Estimates System (NASS GES) data about some of the more significant changes to the 2010 data as a result of the standardization of the data elements between the two systems. In addition to the changes outlined below, a listing of all specific data element changes can be found in the following table:

Variables with Changes in Definitions and Attributes

The FARS/NASS GES Standardization began in 2006, with the second phase being implemented in the 2010 data collection year. The definition and element attribute changes introduced in 2010 are the most substantive and most numerous changes in one year in the reconciliation of the FARS and NASS GES data systems. In the 2011 data collection year – the third and final planned phase of the FARS/NASS GES Standardization – nearly all remaining data element attribute and file structure differences will be addressed. As a single, unified data entry system, FARS/NASS GES will be compatible with the Model Minimum Uniform Crash Criteria (MMUCC), the guideline used by nearly all States to develop and revise their crash forms and databases. Once complete, the FARS/NASS GES Standardization will simplify crash data coding and analysis as well as reduce costs and errors.

Probably the most notable changes were the introduction of precrash information in FARS (already collected in NASS GES) and a change to case structure or how the groups of related data elements are organized. For example, in 2009 a FARS case consisted of Crash, Vehicle, Driver and Person coding forms. In 2010, the Person level form was split into Motor Vehicle Occupant and Non-Motor Vehicle Occupant forms, and the Precrash form was added (new to FARS, though not to NASS GES).

These structure changes also include changes to how the data are now stored and made available. For example, for FARS, there are now 16 data tables rather than 4. This results from the changes in the number of coding forms and from changes in specific data elements. Several data elements that used to allow only a specified number of responses now have a "select-all-that-apply" format. There is a separate data table for each of these data elements.

At the Crash level, a Crash Events Table was added to FARS (and modified in NASS GES). In NASS GES, Non-Harmful Events were added to the Crash Events Table.

The precrash information represents not only a new coding form, but more importantly, largely a new concept for FARS, attempting to collect data about the conditions, events and driver actions that preceded and may have contributed to the crash. Precrash data is intended to improve crash avoidance research and has been included in NASS GES since 1992.

The new FARS Precrash form information consists of 23 data elements, 9 of which were previously coded at the Crash level, 3 each at the Vehicle and Driver levels, and 8 new elements. Nine trafficway descriptor data elements were moved from the crash level to the new precrash level. These elements provide details about the characteristics of the trafficway selected for each vehicle.

A Pedestrian/Bicycle crash typing software application was added to the Non-Motor Vehicle Occupant form for both systems to help identify the precrash actions for parties involved in certain non-motorist-related crashes. (Please see *Appendix E: Pedestrian and Bicyclist Data Availability Change* for updates.)

Type of Intersection was added to both systems. Bus Use and Vehicle Configuration were two Vehicle level elements that are new to NASS GES in 2010 and modified for FARS (element attributes were consolidated and redefined). Condition at Time of Crash was added at the Driver and the Non-Motor Vehicle Occupant levels for both systems. For motor vehicle occupants, there is now an Indication of Misuse of Restraint System or Helmet Use in both systems.

Some of the information that had been collected under FARS Related Factors was redistributed to new data elements. For example, some Person Related Factors have been removed and are now captured in two new Non-Motor Vehicle Occupant elements; Non-Motorist Action/Circumstances Prior to Crash and Non-Motorist Action/Circumstances at Time of Crash. Some Vehicle Related Factors are now captured under the new Precrash elements, Contributing Circumstances, Motor Vehicle and Driver Distracted By. The Driver Level element, Violations Charged, is now a "Select-all-That-Apply" element.

Multiple data elements that are part of the Model Minimum Uniform Crash Criteria (MMUCC) had the attribute "Not Reported" added in 2010 to account for information missing from the case source materials.

To ensure that data quality was not compromised as a result of the standardization, NHTSA refined and enhanced its quality control processes. These enhancements enable the identification of coding discrepancies and development of training tailored to eliminate or reduce these discrepancies.

The final phase of the FARS/NASS GES standardization will occur during the 2011 data collection year, at which point FARS and NASS GES, while remaining separate data systems, will share a single data entry system and uniform set of data elements.

New in 2010 FARS

There were many changes to the 2010 FARS, most of which are the result of NHTSA's efforts to standardize variables in FARS and the National Automotive Sampling System's (NASS) General Estimates System (GES). Additions, deletions, and changes are listed below.

2010 Data Elements with Changes in Definitions and Attributes

Below is a list of FARS data elements that had substantial changes for 2010.

ELEMENT #	ELEMENT NAME	NEW/ REVISED VALUES	NEW/ REVISED REMARKS	COMMENTS
C6	County	X	X	• Added new attribute ***998 – Not Reported***. • Added new remarks.
C7	City	X	X	• Added new attribute ***9898 – Not Reported***. • Added new remarks.
C8	Crash Date	X	X	• Added GES element information. • Added new GES Special Instructions. • **UPDATE - Deleted attribute 98 - Not Reported for both Month and Day**
C9	Crash Time	X	X	• Added GES element information. • Added new GES Special Instructions. • **UPDATE - Deleted attribute 9998 - Not Reported.**
C13	Trafficway Identifier		X	• Updated remarks section. • Added new GES Special Instructions.
C14	Milepoint	X	X	• Added new attribute ***99998 – Not Reported***. • Added new remarks.
C15	Global Position	X	X	• Added new attribute ***7s – Not Reported***. • Added new remarks.
C17	***Crash Events***	X	X	• Filled in by MDE. • Added new attributes. • Added new remarks. • GES and FARS Special Instruction Sections.

ELEMENT #	ELEMENT NAME	NEW/ REVISED VALUES	NEW/ REVISED REMARKS	COMMENTS
Old C17 New ***C18***	First Harmful Event	X	X	• Added new attributes: ***58 – Ground, 59 – Traffic Sign Support*** and ***98 – Not Reported***. • Updated attributes 01 – Rollover/Overturn, 09 – Pedalcyclist, 10 – Railway ~~**Train**~~ ***Vehicle,*** 12 – Motor Vehicle In-Transport ~~**On Same Roadway,**~~14 – Parked Motor Vehicle~~**or Motor Vehicle Stopped Off Roadway**~~, 51 – Jackknife ***(harmful to this vehicle),*** 45 – Working Motor Vehicle ~~**(Construction, Maintenance or Utility Vehicle),**~~ 21 – Bridge Pier or ~~**Abutment**~~ ***Support,*** 23 – Bridge Rail ***(Includes Parapet)***, 30 – Utility Pole***/Light Support***, 35 – Embankment-~~**Earth**~~, 42 – Tree (Standing ~~**Tree**~~ Only),46 – Traffic Signal Support~~**/Signal**~~, 72 – Cargo/Equipment Loss or Shift ***(harmful to this vehicle)***. • Deleted attributes: ~~**13 – Motor Vehicle In-Transport on Different Roadway**~~, ~~**22 – Bridge Parapet End**~~, ~~**27 – Highway/Traffic Sign Post/Sign**~~, ~~**28 – Overhead Sign Support/Sign**~~, ~~**29 – Luminaire/Light Support**~~, ~~**36 – Embankment – Rock, Stone, or Concrete**~~, ~~**37 – Embankment – Material Type Unknown**~~, ~~**47 – Vehicle Occupant Struck or Run Over by Own Vehicle.**~~ • Updated/Added new remarks.
Old C18 New ***C19***	Manner of Collision	X	X	• Added new attribute ***98 – Not Reported***. • Updated attributes: 00 – Not a Collision with a Motor Vehicle ***In-Transport,*** 01 – Front-to-Rear ~~**(includes Rear-End)**~~, 02 – Front-to-Front ~~**(includes Head-On)**~~, 06 – ~~**Front-to-Side/**~~Angle~~**– Direction Not Specified**~~, 11 – Other ~~**(End-Swipes and Others)*.**~~ • Deleted attributes: ~~**03 – Front-to-Side, Same Direction**~~, ~~**04 – Front-to-Side, Opposite Direction**~~, ~~**05 – Front-to-Side, Right Angle (includes Broadside).**~~ • Updated/Added new remarks.

ELEMENT #	ELEMENT NAME	NEW/ REVISED VALUES	NEW/ REVISED REMARKS	COMMENTS
Old C19 New ***C20***	Relation to Junction	X	X	• Divided element into two data entries ***(a) Within Interchange Area*** and ***(b) Specific Location.*** • Format change from **1 numeric**, to **2 numeric and 1 numeric one time**. • Added new attributes: ***16 – Shared-Use Path or Trail, 17 – Acceleration/ Deceleration Lane, 18 – Through Roadway, 98 – Not Reported.*** • Updated attributes: ~~**15**~~19 – ~~**Unknown, Interchange Area**~~ Other Location With Interchange Area, ~~**0**~~9 – Unknown , ~~**Non-Interchange.**~~ • Deleted attributes: ~~**10 – Intersection**~~, ~~**11 – Intersection Related**~~, ~~**12 – Driveway Access**~~, ~~**13 – Entrance/Exit Ramp Related, 14 – Crossover-Related.**~~ • Updated/Added new Remarks.
New C21	***Type of Intersection***	X	X	• Added new element. • Added new attributes: ***1 – Not an Intersection, 2 – Four-Way Intersection, 3 – T-Intersection, 4 – Y-Intersection, 5 – Traffic Circle, 6 – Roundabout, 7 – Five Point, or More, 8 – Not Reported, 9 – Unknown.*** • Added new remarks and diagram.
Old C20 New ***C22***	Relation to Trafficway	X	X	• Added new attribute ***98 – Not Reported***. • Updated attributes: 02 – ***On*** Shoulder, 03 – ***On*** Median, 04 – ***On*** Roadside, 05 – Outside Trafficway~~***/Outside Right-of-Way***~~, 11 – ~~**Two-way**~~ Continuous Left-Turn Lane. • Updated/Added new remarks.
Old C28 New ***C23***	Work Zone	X	X	• Added new attribute **8 – Not Reported**. • Added new remarks.
Old C31 New ***C24***	Light Condition	X	X	• Added new attribute **8 – Not Reported**. • Added new remarks.

ELEMENT #	ELEMENT NAME	NEW/ REVISED VALUES	NEW/ REVISED REMARKS	COMMENTS
Old C32 New ***C25***	Atmospheric Conditions	X	X	• Format change from **1 numeric** to **2 numeric**. • Added new attributes: ***10 – Cloudy, 11 – Blowing Snow, 98 – Not Reported*** • Updated attributes: ***00*** – No Additional Atmospheric Conditions, ***01*** – Clear~~/Cloudy (No Adverse Conditions)~~, ***02*** – Rain, ***03*** – Sleet, Hail ***(Freezing Rain or Drizzle), 04*** – Snow ~~**or Blowing Snow**~~, ***05*** – Fog, Smog, Smoke, ***06*** – Severe Crosswinds, ***07*** – Blowing Sand, Soil, Dirt, ***08*** – Other, ***99*** – Unknown. • Added new remarks.
Old C33 New C***26***	School Bus Related	X	X	• Added new attribute **8 – Not Reported**. • Added new remarks. • Added ANSI Definition for bus.
V3	Vehicle Number	X	X	• Deleted attribute ~~**000 – Persons Not in Motor Vehicles**~~. • Updated remarks. • Added GES Special Instructions.
V4	Number of Occupants	X	X	• Added new attribute ***98 – Not Reported***. • Updated/Added new remarks. • Added GES Special Instructions.
Old V37 New ***V6***	Hit-and-Run	X	X	• Added new attribute ***8 – Not Reported***. • Updated/Added new remarks.
Old V8 New ***V9***	Vehicle Make	X	X	• Added new attributes: ***78 – Other Make Moped, 79 – Other Make Motored Cycle, 97 – Not Reported*** • Update/Added new remarks. • Added GES Special Instructions.
Old V9 New ***V10***	Vehicle Model	X	X	• Added new attribute ***997 – Not Reported***. • Updated/Added new remarks. • Added GES Special Instructions

ELEMENT #	ELEMENT NAME	NEW/ REVISED VALUES	NEW/ REVISED REMARKS	COMMENTS
Old V10 New ***V11***	Body Type	X	X	• Added ***new*** attributes: ***17 – 3-door coupe, 98 – Not Reported.*** • Updated/Added new remarks.
Old V11 New ***V12***	Model Year	X	X	• Added new attribute ***9998 – Not Reported.*** • Updated/Added new remarks.
Old V12 New ***V13***	Vehicle Identification Number	X	X	• Added new attribute ***88888888888888888 – Not Reported*** • Updated/Added new remarks.
Old V27 New ***V16***	Motor Carrier Identification Number	X	X	• Added new attribute to Issuing Authority and Identification Number: ***77 – Not Reported***, ***777777777 – Not Reported*** • Updated/Added new remarks. • Added GES Special Instructions.
Old V30 New ***V17***	GVWR/GCWR	X	X	• Added new attribute ***8 – Not Reported***. • Updated/Added new remarks.
Old V28 New ***V18***	Vehicle Configuration	X	X	• Added new attributes: ***10 – Vehicle 10,000 pounds or less placarded for Hazardous Materials, 98 – Not Reported.*** • Deleted attributes: ~~**03 – Single-Unit Truck (unknown number of axles, tires)**~~, ~~**70 – Light Truck (van, minivan, panel, pickup, sport utility vehicle displaying a hazardous materials placard)**~~, ~~**80 – Passenger Car (only when displaying a hazardous materials placards).**~~ • Updated attributes: 00 – Not Applicable~~**, not a medium/heavy truck, bus or vehicle displaying a hazardous material placard**~~, 01 – Single-Unit Truck (two axles~~**, 6 tires** ~~& GVWR~~ ~~**of**~~ more than 10,000 pounds), 04 – Truck ***Pulling*** Trailer(s), 06 – Tractor/Semi-Trailer~~**(one trailer)**~~, 07 – ***Truck*** Tractor/Double~~**s (two trailers)**~~, 08 – ***Truck*** Tractor/Triple~~**s (three trailers)**~~, 19 – ~~**Medium/Heavy**~~ ***Truck more than 10,000 lbs***, cannot classify, 20 – Bus (seats for 9-15 ~~**people**~~ occupants,

ELEMENT #	ELEMENT NAME	NEW/ REVISED VALUES	NEW/ REVISED REMARKS	COMMENTS
				including driver), 21 – Bus (seats for ~~**16 or**~~ more than 15 ~~**people**~~ occupants, including driver), 99 – Unknown ~~**If Light or Medium/Heavy Truck/Bus**~~. • Added new remarks.
Old V31 New ***V19***	Cargo Body Type	X	X	• Added new attribute ***28 – Not Reported***. • Added new remarks.
Old V13 New ***V21***	Bus Use	X	X	• Format change from **1 numeric** to **2 numeric**. • Added new attribute ***98 – Not Reported***. • Deleted attributes: ~~**01 – Not Used as a Bus**~~, ~~**02 – Used as a Private School Bus**~~, ~~**03 – Used as a School Bus, Public or Private Unknown**~~ • Updated attributes: 00 – Not ~~**Used as**~~ a Bus, 01 – ~~**Used as a Public**~~ School ~~**Bus,**~~ 04 – ~~**Used as Scheduled Service Bus**~~ ***Intercity,*** 05 – ~~**Used as a Tour Bus**~~ ***Charter/Tour,*** 06 – ~~**Used as a Commuter Bus**~~ ***Transit/Commuter,*** 07 – ~~**Used as a**~~ Shuttle ~~**Bus,**~~ 99 – Unknown ~~**Bus Use**~~ • Added new remarks
Old V14 New ***V22***	Special Use	X	X	• Format change from **1 numeric** to **2 numeric**. • Added new attribute ***98 – Not Reported***. • Added new remarks
Old V15 New ***V23***	Emergency Use	X	X	• Added new attribute ***8 – Not Reported***. • Added new remarks
Old V16 New ***V24***	Travel Speed	X	X	• Added new attribute ***998 – Not Reported***. • Added new remarks.
V17	Vehicle Maneuver			• Deleted Element

ELEMENT #	ELEMENT NAME	NEW/ REVISED VALUES	NEW/ REVISED REMARKS	COMMENTS
V18	Crash Avoidance Maneuver			• Deleted Element
V28	Vehicle Role			• Deleted Element
Old V22 New ***V28***	Impact Points - Initial/ Principal changed to ***Areas of Impact – Initial Damaged /Most Damaged***	X	X	• Added new attributes: ***61 – Left, 62 – Left-Front Half, 63 – Left-Back Half, 81 – Right, 82 – Right-Front Half, 83 – Right-Back Half, 98 – Not Reported.*** • Updated attribute 18 – ~~**This Vehicle Set Something in Motion Causing Injury or Damage (Not a Clock Point)**~~ ***Set-In-Motion (Not a Clock Point).*** • Added new remarks and examples. • Added new diagram.
Old V25 New ***V29***	Extent of Damage	X	X	• Added new attribute ***8 – Not Reported***. • Added new remarks.
Old V26 New ***V30***	Vehicle Removal	X	X	• Added new attribute ***8 – Not Reported***. • Added new remarks.
Old V33 New ***V31***	Sequence of Events	X	X	• Added new attributes: ***58 – Ground, 59 – Traffic Sign Support, 68 – Cross Centerline, 69 – Re-entering Highway, 70 – Jackknife (non-harmful), 72 – Cargo/Equipment (harmful to this vehicle), 98 – Not Reported.*** • Updated attributes: 01 - ~~**Overturn/Rollover**~~ ***Rollover/Overturn,*** 02 – Fire/Explosion ~~(Always code if present)~~, 06 – Injured in Vehicle ***(Non-Collision),*** 09 ~~**– Pedal Cycle**~~ ***Pedalcyclist,*** 10 – Railway ~~**Train**~~ ***Vehicle,*** 12 – Motor Vehicle In-Transport ~~**on Same Roadway,**~~ 14 – Parked Motor Vehicle~~**or Motor Vehicle Stopped Off Roadway,**~~ 21 – Bridge Pier or ~~**Abutment**~~ ***Support,*** 23 – Bridge Rail ***(Includes Parapet),*** 30 – Utility Pole***/Light Support,*** 35 – Embankment ~~**– Earth**~~, 42 – Tree (Standing ~~**Tree**~~ Only), 44 - Pavement Surface Irregularity ~~**(Pothole, Grooved, Grates)**~~ (***Ruts, Potholes, Grates, etc.)***, 45 –

ELEMENT #	ELEMENT NAME	NEW/ REVISED VALUES	NEW/ REVISED REMARKS	COMMENTS
				Working Motor Vehicle ~~**(Construction, Maintenance or Utility Vehicle)**~~, 51 – Jackknife ***(harmful to this vehicle),*** 46 – Traffic Signal Support~~**/Signal**~~, 60 – Cargo/Equipment Loss or Shift ***(non-harmful),*** 65 – Cross Median~~**/Centerline.**~~ • Deleted attributes: ~~**13 – Motor Vehicle In-Transport on Different Roadway, 22 – Bridge Parapet End, 27 – Highway/Traffic Sign Post/Sign, 28 – Overhead Sign Support/Sign, 29 – Luminaire/Light Support, 36 – Embankment – Rock, Stone, or Concrete, 37 – Embankment – Material Type Unknown, 47 – Vehicle Occupant Struck or Run Over by Own Vehicle.**~~ • Added new remarks. • Updated remarks and examples.
Old V34 New ***V32***	Most Harmful Event	X	X	• Added new attributes: ***58 – Ground, 59 – Traffic Sign Support, 98 – Not Reported*** • Updated attributes: 01 - ~~**Overturn/Rollover**~~ ***Rollover/Overturn,*** 02 – Fire/Explosion ~~(Always code if present)~~, 06 – Injured in Vehicle ***(Non-Collision),*** 09 ~~**– Pedal Cycle**~~ ***Pedalcyclist,*** 10 – Railway ~~**Train**~~ ***Vehicle,*** 12 – Motor Vehicle In-Transport ~~**on Same Roadway,**~~ 14 – Parked Motor Vehicle~~**or Motor Vehicle Stopped Off Roadway,**~~ 21 – Bridge Pier or ~~**Abutment**~~ ***Support,*** 23 – Bridge Rail ***(Includes Parapet),*** 30 – Utility Pole***/Light Support,*** 35 – Embankment ~~**– Earth**~~, 42 – Tree (Standing ~~**Tree**~~ Only), 44 - Pavement Surface Irregularity ~~**(Pothole, Grooved, Grates)**~~ (***Ruts, Potholes, Grates, etc.)***, 45 – Working Motor Vehicle ~~**(Construction, Maintenance or Utility Vehicle)**~~, 51 – Jackknife ***(harmful to this vehicle,*** 46 – Traffic Signal Support~~**/Signal**~~, 72 – Cargo/Equipment Loss or Shift ***(harmful),*** 65 – Cross Median~~**/Centerline.**~~ • Deleted attributes: ~~**13 – Motor Vehicle**~~

ELEMENT #	ELEMENT NAME	NEW/ REVISED VALUES	NEW/ REVISED REMARKS	COMMENTS
				~~**In-Transport on Different Roadway, 22 – Bridge Parapet End, 27 – Highway/Traffic Sign Post/Sign, 28 – Overhead Sign Support/Sign, 29 – Luminaire/Light Support, 36 – Embankment – Rock, Stone, or Concrete, 37 – Embankment – Material Type Unknown, 47 – Vehicle Occupant Struck or Run Over by Own Vehicle.**~~ • Added new remarks.
Old V35 New ***V33***	Related Factors – Vehicle Level	X		• Deleted attributes: ~~**01 – Tires**~~, ~~**02 – Brake System**~~, ~~**03 – Steering System**~~, ~~**04 – Suspension**~~, ~~**05 – Power Train**~~, ~~**06 – Exhaust System**~~, ~~**07 – Headlights**~~, ~~**08 – Signal Lights**~~, ~~**09 – Other Lights**~~, ~~**10 – Horn**~~, ~~**11 – Mirrors**~~, ~~**12 – Wipers**~~, ~~**13 – Driver Seating and Control**~~, ~~**14 – Body, Doors, Hood and Other**~~, ~~**15 – Trailer Hitch**~~, ~~**16 – Wheels**~~, ~~**17 – Air Bag, 18 – Other Vehicle Defects**~~, ~~**19 – Safety Belts.**~~
D5	Driver's License State	X	X	• Added new attributes: ***00 – No Driver Present, 98 – Not Reported.*** • Added new remarks.
D6	Driver's Zip Code	X	X	• Added new attribute ***99998 – No Driver Present.*** • Added new remarks. • Added new GES Special Instructions.
D8	Commercial Motor Vehicle License Status	X	X	• Format change from **1 numeric** to **2 numeric**. • Added new attribute ***98 – Not Reported***. • Updated attribute – ***99 – Unknown***. • Added new remarks.
D9	Compliance with License Endorsements changed to ***Compliance***	X	X	• Added new attribute ***8 – Not Reported***. • Added new remarks.

ELEMENT #	ELEMENT NAME	NEW/ REVISED VALUES	NEW/ REVISED REMARKS	COMMENTS
	with CDL Endorsements			
D10	License Compliance with Class of Vehicle	X	X	• Added new attribute ***7 – Not Reported***. • Updated reference table. • Added new remarks.
D11	Compliance with License Restrictions	X	X	• Added new attribute ***8 – Not Reported***. • Added new remarks.
D21	Violations Charged	X	X	• Format change from **2 numeric, 3 times** to **select all that apply**. • Added new attribute ***97 – Not Reported***. • Added new remarks.
New D23 New NM14	***Condition (Impairment) at Time of Crash***	X	X	• Add new element which is located on two forms. • Format – select all that apply. • New attributes: ***00 – None/Apparently Normal, 01 – Ill, Blackout, 02 – Asleep or Fatigued, 03 – Walking with a Cane or Crutches, 04 – Paraplegic Or Restricted To A Wheelchair, 05 – Impaired Due To Previous Injury, 06 – Deaf, 07 – Blind, 08 – Emotional (depressed, angry, disturbed, etc.), 09 – Under the Influence of Alcohol, Drugs or Medication, 10 – Physical Impairment – No Details, 96 – Other Physical Impairment, 98 – Not Reported, 99 – Unknown If Physically Impaired.*** • New remarks.
D24	Related Factors – Driver Level	X		• Deleted attributes: ~~**01 – Drowsy, Sleepy, Asleep Fatigued**~~, ~~**02 – Ill, Passed Out/Blackout**~~, ~~**03 – Emotional (e.g., Depression, Angry, Disturbed)**~~, ~~**05 – Under the Influence of Alcohol, Drugs or Medication**~~, ~~**07 – Restricted to Wheelchair**~~, ~~**06 – Operating the Vehicle in Careless or Inattentive Thought In**~~, ~~**09 – Impaired Due to Previous Injury**~~, ~~**11 – Other Physical**~~

ELEMENT #	ELEMENT NAME	NEW/ REVISED VALUES	NEW/ REVISED REMARKS	COMMENTS
				~~**Impairment**~~, ~~**93 – Cellular Telephone Present in Vehicle, 94 – Cellular Telephone in Use in Vehicle**~~, ~~**95 – Computer/Fax Machines/Printers**~~, ~~**96 – Onboard Navigation System**~~, ~~**97 – Two-way Radio**~~, ~~**98 – Head-up Display.**~~
New ***PC4***	***Contributing Circumstances, Motor Vehicle***	X	X	• Added new element. • Format – 2 digits • Added new attributes: ***00 – None, 01 – Tires, 02 – Brake System, 03 – Steering, 04 – Suspension, 05 – Power Train, 06 – Exhaust System, 07 – Head Lights, 08 – Signal Lights, 09 – Other Lights, 10 – Wipers, 11 – Wheels, 12 – Mirrors, 13 – Windows/Windshield, 14 – Body, Doors, 15 – Truck Coupling / Trailer Hitch / Safety Chains, 16 – Safety Systems, 17 – Vehicle Contributing Factors – No Details, 97 – Other, 98 – Not Reported, 99 – Unknown.*** • Added new remarks.
Old C21 New ***PC5***	Trafficway Flow change to ***Trafficway Description***	X	X	• Element moved from Crash Level to Precrash (Vehicle/Driver) Level. • Added new attributes: ***0 – Non-Trafficway Area, 8 – Not Reported.*** • Updated attributes: 1 – ~~**Not Physically Divided**~~ (Two-Way, ~~**Trafficway**~~ ***Not Divided***), 5 – ~~**Not Physically Divided (With**~~ Two-Way, ***Not Divided with a*** Continuous Left-Turn Lane), 2 – ~~**Divided Highway, Median Strip (Without Traffic Barrier)**~~ ***Two-Way, Divided, Unprotected (Painted > 4 Feet) Median,*** 3 – ~~**Divided Highway, Median Strip (With Traffic Barrier)**~~ ***Two-Way, Divided, Positive Median Barrier.*** • Added new remarks.
Old C22 New ***PC6***	Number of Travel Lanes changed to ***Total Lanes in***	X	X	• Element moved from Crash Level to Precrash (Vehicle/Driver) Level. • Added new attributes: ***0 – Non-Trafficway Area, 8 – Not Reported.***

ELEMENT #	ELEMENT NAME	NEW/ REVISED VALUES	NEW/ REVISED REMARKS	COMMENTS
	Roadway			• Added new remarks.
Old C23 New ***PC7***	Speed Limit	X	X	• Element moved from Crash Level to Precrash (Vehicle/Driver) Level. • Added new attribute ***98 – Not Reported***. • Updated remark 00 – No Statutory Limit/***Non-Trafficway Area.*** • Added new remarks.
Old C24 New ***PC8***	Roadway Alignment	X	X	• Element moved from Crash Level to Precrash (Vehicle/Driver) Level. • Added new attributes: ***0 – Non-Trafficway Area, 3 – Curve Left, 4 – Curve – Unknown Direction, 8 – Not Reported.*** • Updated attribute 2 – Curve ***Right.***
Old C25 New ***PC9***	Roadway Profile changed to Roadway ***Grade***	X	X	• Element moved from Crash Level to Precrash (Vehicle/Driver) Level. • Added new attributes: ***0 – Non-Trafficway Area, 5 – Uphill, 6 – Downhill, 8 – Not Reported.*** • Updated attributes: 2 – Grade, ***Unknown Slope,*** 4 – Sag ***(Bottom).*** • Added new remarks. • Added new diagram.
Old C26 New ***PC10***	Roadway Surface Type	X	X	• Element moved from Crash Level to Precrash (Vehicle/Driver) Level. • Added new attributes: ***0 – Non-Trafficway Area, 8 – Not Reported.*** • Updated attribute ***7*** ~~***8***~~ – Other. • Added new remarks.
Old C27 New ***PC11***	Roadway Surface Conditions	X	X	• Element moved from Crash Level to Precrash (Vehicle/Driver) Level. • Format change from **1 numeric** to **2 numeric**. • Added new attributes: ***00 – Non-Trafficway Area, 10 – Slush, 11 – Mud, Dirt or Gravel, 98 – Not Reported.*** • Updated attributes: 03 – Snow ~~***or Slush,***~~ 05 – Sand~~***, Dirt, Mud, Gravel,***~~

ELEMENT #	ELEMENT NAME	NEW/ REVISED VALUES	NEW/ REVISED REMARKS	COMMENTS
				99 – Unknown. • Added new remarks.
Old C29 New ***PC12***	Traffic Control Device	X	X	• Element moved from Crash Level to Precrash (Vehicle/Driver) Level. • Added new attributes: ***32 – School Zone Sign/Device, 65 – Railway Crossing Device, 97 – Not Reported.*** • Updated attributes: 29 – Unknown ~~***Type***~~ Regulatory Sign, 50 – ~~***Officer, crossing guard, flagman, etc.***~~ ***Person.*** • Deleted attributes: ~~***05 – Flashing beacon, 06 – Flashing highway traffic signal, type unknown or other than traffic control or beacon, 30 – School speed limit sign, 31 – School advance or crossing sign, 38 – Other school related sign, 39 – Unknown type school zone sign, 41 – Electric Warning Sign, 60 – Gates, 61 – Flashing Lights, 62 – Traffic Control Signal, 63 – Wigwags, 64 – Bells, 68 – Other train activated device, 69 – Active device, type unknown, 70 – Cross bucks, 71 – Stop sign, 72 – Other railroad crossing sign, 73 – Special warning device - watchman, flagged by crew, 78 – Other passive device, 79 – Passive device, type unknown, 80 – Grade crossing controlled, type unknown.***~~ • Added new remarks.
Old C30 New ***PC13***	Traffic Control Device Functioning changed to ***Device Functioning***	X	X	• Element moved from Crash Level to Precrash (Vehicle/Driver) Level. • Added new attribute ***8 – Not Reported***. • Attribute change to element values ~~***"00 - Not Applicable-Occupant of a Motor Vehicle In-Transport or Not In-Transport (Including Motor Vehicle Parked/Stopped Off Roadway/Working/In Motion Outside the Trafficway)***~~ to ***000 - Not Applicable-Occupant of a Motor Vehicle In-Transport or Not In-Transport (Including Motor Vehicle Parked/Stopped Off Roadway/Working/In Motion Outside***

ELEMENT #	ELEMENT NAME	NEW/ REVISED VALUES	NEW/ REVISED REMARKS	COMMENTS
				the Trafficway). • Updated/Added new remarks.
New PC14	***Driver Distracted By***	X	X	• Moved from Driver level to Precrash Level. • Format change from **2 numeric** to **select all that apply**. • Add new attribute ***95 – No Driver Present.*** • Update/Added new remarks.
New PC15	***Driver Maneuvered to Avoid***	X	X	• Added new attributes: ***00 – Driver Did Not Maneuver To Avoid, 01 – Object, 02 – Poor Road Conditions (Puddle, Ice, Pothole, etc.), 03 – Live Animal, 04 – Motor Vehicle, 05 – Pedestrian, Pedalcyclist or Other Non-Motorist, 92 – Phantom/Non-contact Motor Vehicle, 95 – No Driver Present, 98 – Not Reported, 99 – Unknown.*** • Format – select all that apply. • Added new remarks.
New PC16	***Driver's Vision Obscured By***	X	X	• Added new attributes: ***00 – Not Distracted, 01 – Looked But Did Not See, 03 – By Other Occupant(s), 04 – By Moving Object in Vehicle, 05 – While Talking or Listening to Cellular Phone, 06 – While Dialing Cellular Phone, 07 – Adjusting Audio And/or Climate Controls, 09 – While Using Other Device/Controls Integral to Vehicle, 10 – While Using or Reaching For Device/Object Brought Into Vehicle, 12 – Distracted by Outside Person, Object or Event, 13 – Eating or Drinking, 14 – Smoking Related, 15 – Other Cellular Phone Related, 16 – No Driver Present, 92 – Distraction/ Inattention, Details Unknown, 96 – Not Reported, 97 – Inattentive or Lost in Thought, 98 – Other Distraction, 99 – Unknown if Distracted.*** • Format – select all that apply. • Added new remarks.

ELEMENT #	ELEMENT NAME	NEW/ REVISED VALUES	NEW/ REVISED REMARKS	COMMENTS
New PC17	***Pre-Event Movement (Prior to Recognition of Critical Event)***	X	X	• Added new attributes: ***00 – No Driver Present, 01 – Going Straight, 02 – Decelerating in Traffic Lane, 03 – Accelerating in Traffic Lane, 04 – Starting in Traffic Lane, 05 – Stopped in Traffic Lane, 06 – Passing or Overtaking Another Vehicle, 07 – Disabled or Parked in Travel Lane, 08 – Leaving a Parking Position, 09 – Entering a Parking Position, 10 – Turning Right, 11 – Turning Left, 12 – Making a U-Turn, 13 – Backing Up (other than for Parking Position), 14 – Negotiating a Curve, 15 – Changing Lanes, 16 – Merging, 17 – Successful Avoidance to a Previous Critical Event, 98 – Other (specify:), 99 – Unknown.*** • Format – 2 numeric. • Added new remarks.
New PC18	***Critical Event – Precrash (Category)***	X	X	• Added new attributes: ***1 – This Vehicle Loss of Control Due To:, 2 – This Vehicle Traveling. 3 – Other Motor Vehicle in Lane, 4 – Other Motor Vehicle Encroaching into Lane, 5 – Pedestrian or Pedalcyclist or Other Non-Motorist, 6 – Object or Animal, 7 – Other (specify:), 9 – Unknown.*** • Format – 1 numeric. • Added new remarks.
New PC19	***Critical Event – Precrash (Event)***	X	X	• Added new attributes: ***01 – This Vehicle Loss Of Control Due To: Blow out/flat tire, 02 – This Vehicle Loss Of Control Due To: Stalled Engine, 03 – This Vehicle Loss Of Control Due To: Disabling vehicle failure (e.g., wheel fell off) (specify:), 04 – This Vehicle Loss Of Control Due To: Non-disabling vehicle problem (e.g., hood flew up)(specify:), 05 – This Vehicle Loss Of Control Due To: Poor road conditions (puddle, pothole, ice, etc.) (specify:), 06 – This Vehicle Loss Of Control Due To: Traveling too fast for conditions, 08 – This Vehicle Loss Of***

ELEMENT #	ELEMENT NAME	NEW/ REVISED VALUES	NEW/ REVISED REMARKS	COMMENTS
				Control Due To: Other cause of control loss (specify:), 09 – This Vehicle Loss Of Control Due To: Unknown cause of control loss, 10 – This Vehicle Traveling: Over the lane line on left side of travel lane, 11 – This Vehicle Traveling: Over the lane line on right side of travel lane, 12 – This Vehicle Traveling: Off the edge of the road on the left side, 13 – This Vehicle Traveling: Off the edge of the road on the right side, 14 – This Vehicle Traveling: End departure, 15 – This Vehicle Traveling: Turning left at intersection, 16 – This Vehicle Traveling: Turning right at intersection, 17 – This Vehicle Traveling: Crossing over (passing through) intersection, 18 – This Vehicle Traveling: This vehicle decelerating, 19 – This Vehicle Traveling: Unknown travel direction, 50 – Other Motor Vehicle in Lane: Other vehicle stopped, 51 – Other Motor Vehicle in Lane: Traveling in same direction with lower steady speed, 52 – Other Motor Vehicle in Lane: Traveling in same direction while decelerating, 53 – Other Motor Vehicle in Lane: Traveling in same direction with higher speed, 54 – Other Motor Vehicle in Lane: Traveling in opposite direction, 55 – Other Motor Vehicle in Lane: In crossover, 56 – Other Motor Vehicle in Lane: Backing, 59 – Other Motor Vehicle in Lane: Unknown travel direction of the other motor vehicle in lane, 60 – Other Motor Vehicle Encroaching into Lane: From adjacent lane (same direction) over left lane line, 61 – Other Motor Vehicle Encroaching into Lane: From adjacent lane (same direction) over right lane line, 62 – Other Motor Vehicle Encroaching into Lane: From opposite direction over left lane line, 63 – Other Motor Vehicle Encroaching into Lane: From opposite direction over right lane

ELEMENT #	ELEMENT NAME	NEW/ REVISED VALUES	NEW/ REVISED REMARKS	COMMENTS
				line, 64 – Other Motor Vehicle Encroaching into Lane: From parking lane, median, shoulder, roadside, 65 – Other Motor Vehicle Encroaching into Lane: From crossing street, turning into same direction, 66 – Other Motor Vehicle Encroaching into Lane: From crossing street, across path, 67 – Other Motor Vehicle Encroaching into Lane: From crossing street, turning into opposite direction, 68 – Other Motor Vehicle Encroaching into Lane: From crossing street, intended path not known, 70 – Other Motor Vehicle Encroaching into Lane: From driveway, turning into same direction, 71 – Other Motor Vehicle Encroaching into Lane: From driveway, across path, 72 – Other Motor Vehicle Encroaching into Lane: From driveway, turning into opposite direction, 73 – Other Motor Vehicle Encroaching into Lane: From driveway, intended path not known, 74 – Other Motor Vehicle Encroaching into Lane: From entrance to limited access highway, 78 – Other Motor Vehicle Encroaching into Lane: Encroachment by other vehicle details unknown, 80 – Pedestrian, Pedalcyclist Or Other Non-Motorist: Pedestrian in roadway, 81 – Pedestrian, Pedalcyclist Or Other Non-Motorist: Pedestrian approaching roadway, 82 – Pedestrian, Pedalcyclist Or Other Non-Motorist: Pedestrian unknown location, 83 – Pedestrian, Pedalcyclist Or Other Non-Motorist: Pedalcyclist or other non-motorist in roadway (specify:), 84 – Pedestrian, Pedalcyclist Or Other Non-Motorist: Pedalcyclist or other non-motorist approaching roadway (specify:), 85 – Pedestrian, Pedalcyclist Or Other Non-Motorist: Pedalcyclist or other non-motorist unknown location (specify:), 87 – Object or Animal:

ELEMENT #	ELEMENT NAME	NEW/ REVISED VALUES	NEW/ REVISED REMARKS	COMMENTS
				Animal in roadway, 88 – Object or Animal: Animal approaching roadway, 89 – Object or Animal: Animal -unknown location, 90 – Object or Animal: Object in roadway, 91 – Object or Animal: Object approaching roadway, 92 – Object or Animal: Object unknown location, 98 – Other critical precrash event (specify:), 99 – Unknown. • Format – 2 numeric. • Added new remarks.
New PC20	***Attempted Avoidance Maneuver***	X	X	• Added new attributes: ***00 – No Driver Present, 01 – No Avoidance Maneuver, 02 – Braking (no lockup), 03 – Braking (lockup), 04 – Braking (lockup unknown), 05 – Releasing brakes, 06 – Steering left, 07 – Steering right, 08 – Braking and steering left, 09 – Braking and steering right, 10 – Accelerating, 11 – Accelerating and steering left, 12 – Accelerating and steering right, 98 – Other Action (specify:), 99 – Unknown.*** • Format – 2 numeric. • Added new remarks. • Added GES Special Instructions.
New PC21	***Pre-Impact Stability***	X	X	• Added new attributes: ***0 – No Driver Present, 1 – Tracking, 2 – Skidding longitudinally — rotation less than 30 degrees, 3 – Skidding laterally — clockwise rotation, 4 – Skidding laterally — counter-clockwise rotation, 7 – Other vehicle loss-of-control (specify:), 9 – Precrash stability unknown.*** • Format – 1 numeric. • Added new remarks.
New PC22	***Pre-Impact Location***	X	X	• New attributes: ***0 – No Driver Present, 1 – Stayed in Original Travel Lane, 2 – Stayed on Roadway, but Left Original Travel Lane, 3 – Stayed on Roadway, not Known if Left Original Travel***

ELEMENT #	ELEMENT NAME	NEW/ REVISED VALUES	NEW/ REVISED REMARKS	COMMENTS
				Lane, 4 – Departed Roadway, 5 – Remained off Roadway, 6 – Returned to Roadway, 7 – Entered Roadway, 9 – Unknown. • Format – 1 numeric. • Added new remarks
New PC23	***Crash Type***	X	X	• Added new attributes: ***00 – No Impact, Actual attribute 01-93, 98 – Other Crash Type, 99 – Unknown.*** • Format – 2 numeric. • Added new remarks. • Added GES Special Instructions.
P3	Vehicle Number - Person Level	X		• Deleted attribute 000 – ~~**Not a Motor Vehicle Occupant.**~~ • Added GES Special Instructions.
Old P6 ***New P5 and NM5***	Age	X	X	• Element located on two forms. • Added new attribute ***998 – Not Reported.*** • Added new remarks.
Old P7 ***New P6 and NM6***	Sex	X	X	• Element located on two forms. • Added new attribute ***8 – Not Reported.*** • Added new remarks.
Old P8 ***New P7***	Person Type	X	X	• Element was split between Occupant and Non-Motorist Person Level forms. • Added attribute ***88 – Not Reported.*** • Attributes moved to Person Type NM7 - ***04 – Occupant of a Non-Motor Vehicle Transport Device, 05 – Pedestrian, 06 – Bicyclist, 07 – Other Bicyclist, 08 – Person on Personal Conveyance,10 – Persons in/On Buildings, 19 – Unknown Type of Non-Motorist.*** • Added new remarks. • Added GES Special Instructions.
Old P22 ***New P8 and NM8***	Injury Severity	X	X	• Element located on two forms. • Added new attribute ***8 – Not Reported.*** • Added new remarks.

ELEMENT #	ELEMENT NAME	NEW/ REVISED VALUES	NEW/ REVISED REMARKS	COMMENTS
				• Added GES Special Instructions.
P9	Seating Position	X	X	• Added new attribute ***98 – Not Reported***. • Deleted attribute ~~**00 – Not a Motor Vehicle Occupant**~~. • Added new remarks. • Added GES Special Instructions.
P10	Protection System Use changed to ***Restraint System/ Helmet Use***	X	X	• Added new attributes: ***07 – None Used-Motor Vehicle Occupant, 16 – Other Helmet, 17 – No Helmet, 97 – Other, 98 – Not Reported.*** • Updated attributes: 00 – ~~**None Used/**~~Not Applicable ~~**– Not a Motor Vehicle Occupant,**~~01 – Shoulder Belt ***Only Used,*** 02 – Lap Belt ***Only Used,*** 03 – ~~**Lap and Shoulder**~~ ***Shoulder and Lap*** Belt ***Used,*** 04 – Child ~~**Safety Seat/Booster**~~ ***Restraint*** Type Unknown/~~**Not Reported,**~~05 – ***DOT Compliant*** Motorcycle Helmet, 10 – Child ~~**Safety Seat-**~~***Restraint System*** – Forward Facing, 11 – Child ~~**Safety Seat**~~ ***Restraint System*** – Rear Facing, 12 – Booster Seat (~~**lap and shoulder belt used properly).**~~ • Deleted attributes: ~~**06 – Bicycle Helmet, 14 – Child Safety Seat/Booster Seat Used Properly, 15 – Helmets Used Improperly.**~~ • Added new remarks. • Added FARS Special Instructions. • Added GES Special Instructions.
New P11	***Any Indication of Mis-Use of Restraint System or Helmet Use***	X	X	• Added new element. • Added new attributes: ***0 – No, 1 – Yes.*** • Added new remarks.
Old P11 ***New P12***	Air Bag Deployed	X	X	• Added new attribute ***98 – Not Reported.*** • Added new remarks. • Added GES Special Instructions.

ELEMENT #	ELEMENT NAME	NEW/ REVISED VALUES	NEW/ REVISED REMARKS	COMMENTS
Old P12 ***New P13***	Ejection	X	X	• Added new attribute ***7 – Not Reported.*** • Added new remarks.
P18 and NM17	Alcohol Test	X	X	• Element is now located on two forms. • Added new attributes: Status: ***8 – Not Reported,*** Type: ***95 – Not Reported,*** Result: ***95 – Not Reported.*** • Updated attributes: Status: 9 – Unknown if Tested ~~***/ Not Reported,***~~ Type: 99 – Unknown if Tested ~~***/ Not Reported,***~~ Result: 99 – Unknown if Tested ~~***/ Not Reported.***~~ • Updated/Added new remarks.
P21 and NM20	Drug Test	X	X	• Element now located on two forms. • Added new attributes: Status: ***8 – Not Reported,*** Type: ***6 – Not Reported,*** Result: ***095 – Not Reported.*** • Updated attributes: Status: 9 – Unknown if Tested ~~***/ Not Reported,***~~ Type: 9 – Unknown if Tested ~~***/ Not Reported,***~~ Result: 999 – Unknown if Tested ~~***/ Not Reported.***~~ • Updated/Added new remarks. • Updated Drug Lists.
Old P23 New P22 and NM21	Transported for Treatment By changed to ***Transported to Medical Facility By***	X	X	• Element located on two forms. • Added new attributes: ***5 – EMS Ground, 6 – Other, 8 – Not Reported*** • Updated attributes: 1 – ~~**Yes,**~~ EMS ***Air,*** 2 – ~~**Yes,**~~ Law Enforcement, 3 – ~~**Yes, Other**~~ EMS Unknown Mode, 4 – ~~**Yes,**~~ Transported ~~**by**~~ Unknown Source. • Added new remarks. • Added GES Special Instructions.
Old P27 New P26	Related Factors - Person Level changed to Related Factors - ***(Motor Vehicle Occupant)*** Person Level			• Deleted attributes: ~~**01 – Not Visible, 02 – Darting, Running or Stumbling Into Roadway, 03 – Improper Crossing of Roadway or Intersection, 04 – Walking/Riding With or Against Traffic, Playing, Working, Sitting, Lying, Standing, etc., in Roadway, 06 – Ill, Passed Out/Blackout, 07 – Emotional (e.g., Depression, Angry, Disturbed), 10 – Inattentive, 11 –**~~

ELEMENT #	ELEMENT NAME	NEW/ REVISED VALUES	NEW/ REVISED REMARKS	COMMENTS
				~~**Walking with Cane or Crutches, 12 – Restricted to Wheelchair, 13 – Motorized Wheelchair Rider, 14 – Impaired Due to Previous Injury, 15 – Under the Influence of Alcohol, Drugs or Medication, 16 – Blind, 17 – Other Physical Impairment, 19 – Pedestrian Jogging, 23 – Failure to Dim Lights or Have Lights on When Required, 24 – Operating Without Required Equipment, 27 – Improper or Erratic Lane Changing, 30 – Making Improper Entry to or Exit from Trafficway, 34 – Passing on Wrong Side, 35 – Passing with Insufficient Distance or Inadequate Visibility or Failing to Yield to Overtaking Vehicle, 36 – Operating the Vehicle in an Erratic, Reckless, Careless or Negligent Manner, 38 – Failure to Yield the Right of Way, 39 – Failure to Obey Actual Traffic Sign, 48 – Making Other Improper Turn, 49 – Driving Wrong Way on One Way Trafficway, 50 – Driving on Wrong Side of Road, 53 – Stopped in Roadway (Vehicle Not Abandoned), 55 – Getting Off/Out of or On/In to a Transport Vehicle, 79 – Live Animals in Road, 90 – Non-Motorist Pushing a Vehicle.**~~ • Added new remarks.
Old P5 ***New NM4***	Non-Occupant Striking Vehicle Number changed to ***Number of Motor Vehicle Striking Non-Motorist***	X	X	• Element moved to Non-Motorist Person Level form. • Deleted attribute ~~**000 – Not Applicable – Occupant of a Motor Vehicle In-Transport or Not In-Transport (Including Parked/Stopped Off Roadway/Working/In Motion Outside In Trafficway).**~~ • Added new remarks. • Added GES Special Instructions.
NM7	Person Type	X	X	• Add new attribute: ***88 – Not Reported.*** • Moved attributes from P7 – Person Type: ***04 – Occupant of a Non-Motor Vehicle Transport Device, 05 – Pedestrian, 06 – Bicyclist, 07 – Other***

ELEMENT #	ELEMENT NAME	NEW/ REVISED VALUES	NEW/ REVISED REMARKS	COMMENTS
				Cyclist, 08 – Person on Personal Conveyance, 10 – Person In/On Buildings, 88 – Not Reported, 19 – Unknown Type of Non-Motorist. • Added new remarks.
NM9	***Pedestrian/ Bike Typing***	X	X	• Added new element. • Format – Element entered in MDE system. • Remarks added by headquarters
Old P15 ***New NM10***	Non-Occupant Location changed to ***Non-Motorist Location at Time of Crash***			• Element moved to Non-Motorist Person Level form. • Added attributes: ***14 – Parking Lane Zone, 20 – Shoulder/Roadside, 21 – Sidewalk, 22 – Median/Crossing Island, 23 – Driveway Access, 24 – Shared-Use Path/Trail, 25 – Non-Trafficway Area, 28 – Other, 98 – Not Reported.*** • Deleted attributes: ~~**00 – No Applicable – Occupant of a Motor Vehicle In-Transport or Not In-Transport (Including Motor Vehicles Parked/Stopped Off Roadway/Working/In Motion Outside the Trafficway) and Injured Railway Train Occupants, 04 – Intersection – On Roadway, Crosswalk Availability Unknown, 05 – Intersection – Not on Roadway, 12 – Non-Intersection – On Roadway, Crosswalk not Available, 15 – Non-Intersection – On Road Shoulder, 17 – Non-Intersection – Outside Trafficway, 18 – Non-Intersection – Other, Not on Roadway, 19 – Non-Intersection – Unknown.**~~ • Updated to attributes: 01 – Intersection – In ***Marked*** Crosswalk, 02 – Intersection – ~~**On Roadway, Not in**~~ ***Unmarked*** Crosswalk, 03 – Intersection – ~~**On Roadway,**~~ ***Not In*** Crosswalk ~~**not Available,**~~ 09 – Intersection – Unknown ***Location,*** 10 – Non-Intersection – In ***Marked*** Crosswalk, 14 – ~~**Non-Intersection – In**~~ Parking Lane***/Zone,*** 16 – ~~**Non-Intersection – Bike Path***~~

ELEMENT #	ELEMENT NAME	NEW/ REVISED VALUES	NEW/ REVISED REMARKS	COMMENTS
				Bicycle Lane, 99 – Unknown ***Location.*** • Added new remarks.
New NM11	***Non-Motorist Action/Circumstances Prior to Crash***	X	X	• Added new element. • Added attributes: ***01 – Going To or From School (K-12), 02 – Waiting to Cross Roadway, 03 – Crossing Roadway, 04 – Jogging/Running, 05 – Movement Along Roadway with Traffic (In or Adjacent to Travel Lane), 06 – Movement Along Roadway Against Traffic (In or Adjacent to Travel Lane, 07 – Movement on Sidewalk, 08 – In Roadway – Other (Working, Playing, Etc.), 09 – Adjacent to Roadway (e.g., Shoulder, Median), 10 – Working in Trafficway (Incident Response), 11 – Entering/Exiting a Vehicle, 12 – Disabled Vehicle Related (Working on, Pushing, Leaving/ Approaching), 14 – Other, 15 – None, 98 – Not Reported, 99 – Unknown.*** • Format: select all that apply. • Added new remarks.
New NM12	***Non-Motorist Action/Circumstances at Time of Crash***	X	X	• Added new element. • Added new attributes: ***00 – No Improper Action, 01 – Dart/Dash, 02 – Failure to Yield Right-Of-Way, 3 – Failure to Obey Traffic Signs, Signals or Officer, 04 – In Roadway Improperly (Standing, Lying, Working, Playing), 05 – Entering/ Exiting a Vehicle, 06 – Inattentive (Talking, Eating, Etc.), 07 – Improper Turn/Merge, 08 – Improper Passing, 09 – Wrong-Way Riding or Walking, 10 – Driving on Wrong Side of Road, 12 – Improper Crossing of Roadway or Intersection (Jaywalking), 13 – Failing to Have Lights on When Required, 14 – Operating Without Required Equipment, 15 – Improper or Erratic Lane Changing, 16 – Failure to Keep in Proper Lane or Running Off Road, 17 – Making Improper Entry to or Exit from***

ELEMENT #	ELEMENT NAME	NEW/ REVISED VALUES	NEW/ REVISED REMARKS	COMMENTS
				Trafficway, 18 – Operating the Vehicle in other Erratic, Reckless, Careless or Negligent Manner, 19 – Not Visible (Dark clothing, No Lighting, etc.), 20 – Passing with Insufficient Distance or Inadequate Visibility or Failing to Yield to Overtaking Vehicle, 21 – Other, 98 – Not Reported, 99 – Unknown. • Format: select all that apply. • Added new remarks.
New NM13	***Non-Motorist Safety Equipment***	X	X	• Added new element. • Added new attributes: ***0 – Not Applicable, 1 – None Used, 2 – Helmet, 4 – Protective Pads Used (elbows, knees, shins, etc.), 3 – Reflective Equipment/Clothing (jacket, backpack, etc.), 5 – Lighting, 7 – Other Safety Equipment, 8 – Not Reported, 9 – Unknown if Used.*** • Format: select all that apply. • Added new remarks.
New NM25	***Related Factors – Person Level (Not a Motor Vehicle Occupant)***	X	X	• Added new element to form. Carry over from Related Factors – Person Level. • Deleted attributes: ~~**01 – Not Visible, 02 – Darting, Running or Stumbling Into Roadway, 03 – Improper Crossing of Roadway or Intersection, 04 – Walking/Riding With or Against Traffic, 05 – Interfering With Driver, 06 – Ill, Passed Out/Blackout, 07 – Emotional (e.g., Depression, Angry, Disturbed), 10 – Inattentive, 11 – Walking with Cane or Crutches, 12 – Restricted to Wheelchair, 14 – Impaired Due to Previous Injury, 15 – Under the Influence of Alcohol, Drugs or Medication, 16 – Blind, 17 – Other Physical Impairment, 19 – Pedestrian Jogging, 23 – Failure to Dim Lights or Have Lights on When Required, 24 – Operating Without Required Equipment, 27 – Improper or Erratic Lane Changing, 28 – Failure to Keep in Proper Lane, 29 – Illegal Driving on Road Shoulder, in Ditch, on Sidewalk~~

ELEMENT #	ELEMENT NAME	NEW/ REVISED VALUES	NEW/ REVISED REMARKS	COMMENTS
				~~or on Median, 30 – Making Improper Entry to or Exit from Trafficway, 32 – Opening Vehicle Closure into Moving Traffic or While Vehicle is in Motion, 33 – Passing Where Prohibited by Posted Signs, Pavement Markings, Hill or Curve, or School Bus Displaying Warning Not to Pass Line, 34 – Passing on Wrong Side, 35 – Passing with Insufficient Distance or Inadequate Visibility or Failing to Yield to Overtaking Vehicle, 36 – Operating the Vehicle in an Erratic, Reckless, Careless or Negligent Manner, 38 – Failure to Yield the Right of Way, 39 – Failure to Obey Actual Traffic Sign, 44 – Driving Too Fast for Conditions or in Excess of Posted Maximum, 45 – Driving Less Than Posted Minimum, 47 – Making Right Turn from Left-Turn Lane, Left Turn from Right Turn Lane, 48 – Making Other Improper Turn, 49 – Driving Wrong Way on One Way Trafficway, 50 – Driving on Wrong Side of Road, 53 – Unfamiliar with Roadway, 55 – Getting Off/Out of or On/In to a Transport Vehicle, 59 – Overcorrecting, 79 – Live Animals in Road, 87 – Police or Law Enforcement Officer, 88 – Seat Back Not in Normal Upright Position, Seat Back Reclined.~~ • Added new remarks.

New SAS Data Files in 2010

Locator Code	2009 SAS Name	New 2010 SAS Names	Data Element Name
C17	N/A	Cevent.AOI1	Area of Impact (this)
C17	N/A	Cevent.AOI2	Area of Impact (other)
C17	N/A	Cevent.EVENTNUM	Event Number
C17	N/A	Cevent.SOE	Sequence of Event
C2/V2/D2/PC2/P2/NM2	N/A	Cevent.ST_CASE	Consecutive Number
C1/V1/D1/PC1/P1/NM1	N/A	Cevent.STATE	State Number
C17	N/A	Cevent.VNUMBER1	Vehicle Number (this)
C17	N/A	Cevent.VNUMBER2	Vehicle Number (other)
C17	N/A	Vevent.AOI1	Area of Impact (this)
C17	N/A	Vevent.AOI2	Area of Impact (other)
C17	N/A	Vevent.EVENTNUM	The number of the first event in the crash in which this vehicle is involved (could be this vehicle or the other vehicle in the SAS event data file).
C17	N/A	Vevent.SOE	Sequence of Event
C2/V2/D2/PC2/P2/NM2	N/A	Vevent.ST_CASE	Consecutive Number
C1/V1/D1/PC1/P1/NM1	N/A	Vevent.STATE	State Number
C17	N/A	Vevent.VNUMBER1	Vehicle Number (this)
C17	N/A	Vevent.VNUMBER2	Vehicle Number (other)
V3/D3/PC3/P3	N/A	Vevent.VEH_NO	Vehicle Number
New id data element	N/A	Vevent.VEVENTNUM	The number of event sequentially ordered for each vehicle.
C2/V2/D2/PC2/P2/NM2	N/A	Vsoe.ST_CASE	Consecutive Number
C1/V1/D1/PC1/P1/NM1	N/A	Vsoe.STATE	State Number
C17	N/A	Vsoe.SOE	Sequence of Event
C17	N/A	Vsoe.AOI	Area of Impact associated with the event
New id data element	N/A	Vsoe.VEVENTNUM	The number of event sequentially ordered for each vehicle.
V3/D3/PC3/P3	N/A	Vsoe.VEH_NO	Vehicle Number

Locator Code	2009 SAS Name	New 2010 SAS Names	Data Element Name
V3/D3/PC3/ P3	N/A	Parkwork.VEH_NO	Vehicle Number & Unit Type
V5	N/A	Parkwork.PTYPE	Unit Type
V9	N/A	Parkwork.PMAKE	Vehicle Make
V10	N/A	Parkwork.PMODEL	Vehicle Model
V11	N/A	Parkwork.PBODYTYP	Body Type
V12	N/A	Parkwork.PMODYEAR	Model Year
V13	N/A	Parkwork.PVIN	VIN
V7	N/A	Parkwork.PREG_STAT	Registration State
V22	N/A	Parkwork.PSP_USE	Special Use
V23	N/A	Parkwork.PEM_USE	Emergency use
V4	N/A	Parkwork.PNUMOCCS	Number of Occupants
V14	N/A	Parkwork.PTRAILER	Vehicle trailing
V34	N/A	Parkwork.PFIRE	Fire Occurrence
V29	N/A	Parkwork.PVEH_SEV	Extent of damage
V30	N/A	Parkwork.PTOWED	Vehicle Removal
V28	N/A	Parkwork.PIMPACT1	Area of Impact- Initial Damaged
V28	N/A	Parkwork.PIMPACT2	Area of Impact- Most Damaged
V19	N/A	Parkwork.Pcargtyp	Cargo body type
V20 - HM1	N/A	Parkwork.PHAZ_INV	Hazardous Material Involvement/Placard - Involvement
V20 - HM2	N/A	Parkwork.PHAZPLAC	Hazardous Material Involvement/Placard - Placard
V20 - HM3	N/A	Parkwork.PHAZ_ID	Hazardous Material Involvement/Placard - Identification Number
V20 - HM4	N/A	Parkwork.PHAZ_CNO	Hazardous Material Involvement/Placard - Class Number
V20 - HM5	N/A	Parkwork.PHAZ_REL	Hazardous Material Involvement/Placard - Released
V100	N/A	Parkwork.MAK_MOD	Make Model
V21	N/A	Parkwork.PBUS_USE	Bus Use
C8	N/A	Parkwork.PDAY	Day
V150	N/A	Parkwork.PDEATHS	Fatals in Vehicle

Locator Code	2009 SAS Name	New 2010 SAS Names	Data Element Name
V121	N/A	Parkwork.PFUECODE	Fuel Code
V17	N/A	Parkwork.PGVWR	GVWR
C18	N/A	Parkwork.PHARM_EV	First Harmful Event
V6	N/A	Parkwork.PHIT_RUN	Hit and Run
C9	N/A	Parkwork.PHOUR	Crash Time (HOUR)
V124	N/A	Parkwork.PMCYCL_DS	Motorcycle Engine Displacement (CC)
V16A	N/A	Parkwork.PMCARR_I1	MCID Issuing Authority
V16	N/A	Parkwork.PMCARR_I2	MCID Identification Number
V16B	N/A	Parkwork.PMCARR_ID	Motor Carrier Identification Number
V32	N/A	Parkwork.PM_HARM	Most Harmful Event
C19	N/A	Parkwork.PMAN_COLL	Manner of Collision
C9	N/A	Parkwork.PMINUTE	Crash Time (MINUTE)
C8	N/A	Parkwork.PMONTH	Crash Date (Month)
V8	N/A	Parkwork.POWNER	Registered Vehicle Owner
V122	N/A	Parkwork.PSER_TR	VIN Truck Series
V25	N/A	Parkwork.PUNDERIDE	Underride/Override
C4AA	N/A	Parkwork.PVE_FORMS	Number of Vehicle Forms Submitted for MV In Transport
V13	N/A	Parkwork.PVIN	Vehicle Identification Number
V101	N/A	Parkwork.PVIN_1	VIN Character 1
V102	N/A	Parkwork.PVIN_2	VIN Character 2
V103	N/A	Parkwork.PVIN_3	VIN Character 3
V104	N/A	Parkwork.PVIN_4	VIN Character 4
V105	N/A	Parkwork.PVIN_5	VIN Character 5
V106	N/A	Parkwork.PVIN_6	VIN Character 6
V107	N/A	Parkwork.PVIN_7	VIN Character 7
V108	N/A	Parkwork.PVIN_8	VIN Character 8
V109	N/A	Parkwork.PVIN_9	VIN Character 9

Locator Code	2009 SAS Name	New 2010 SAS Names	Data Element Name
V110	N/A	Parkwork.PVIN_10	VIN Character 10
V111	N/A	Parkwork.PVIN_11	VIN Character 11
V112	N/A	Parkwork.PVIN_12	VIN Character 12
V115	N/A	Parkwork.PVINA_MOD	VIN Model
V114	N/A	Parkwork.PVINMAKE	VIN Make
V117	N/A	Parkwork.PVINMODYR	VIN Model Year
V113	N/A	Parkwork.PVINTYPE	VIN Vehicle Type
V116	N/A	Parkwork.PVIN_BT	VIN Body Type
V125	N/A	Parkwork.PVIN_LNGT	VIN Length
V118	N/A	Parkwork.PVIN_WGT	Curb Weight
V18	N/A	Parkwork.PV_CONFIG	Vehicle Configuration
V33	N/A	Parkwork.PVEH_SC1	Related Factors -1
V33	N/A	Parkwork.PVEH_SC2	Related Factors -2
V123	N/A	Parkwork.PWGTCD_TR	Truck Weight Rating
V120	N/A	Parkwork.PWHLBS_LG	Wheelbase Long
V119	N/A	Parkwork.PWHLBS_SH	Wheelbase Short
C1/V1/D1/PC1/P1/NM1	N/A	Parkwork.STATE	State Number
C2/V2/D2/PC2/P2/NM2	N/A	Parkwork.ST_CASE	Consecutive Number
V3/D3/PC3/P3	N/A	Parkwork.VEH_NO	Vehicle Number
PC16	N/A	Distract.MDRDSTRD	Driver Distracted By
C2/V2/D2/PC2/P2/NM2	N/A	Distract.ST_CASE	Consecutive Number
C1/V1/D1/PC1/P1/NM1	N/A	Distract.STATE	State Number
V3/D3/PC3/P3	N/A	Distract.VEH_NO	Vehicle Number
PC4	N/A	Factor.MFACTOR	Contributing Circumstances, Motor Vehicle
C2/V2/D2/PC2/P2/NM2	N/A	Factor.ST_CASE	Consecutive Number
C1/V1/D1/PC1/P1/NM1	N/A	Factor.STATE	State Number

Locator Code	2009 SAS Name	New 2010 SAS Names	Data Element Name
V3/D3/PC3/ P3	N/A	Factor.VEH_NO	Vehicle Number
D23	N/A	Drimpair.DRIMPAIR	Condition (Impairment) at Time of Crash
C2/V2/D2/P C2/P2/NM2	N/A	Drimpair.ST_CASE	Consecutive Number
C1/V1/D1/P C1/P1/NM1	N/A	Drimpair.STATE	State Number
V3/D3/PC3/ P3	N/A	Drimpair.VEH_NO	Vehicle Number
NM14	N/A	Nmimpair.NMIMPAIR	Condition (Impairment) at Time of Crash
C2/V2/D2/P C2/P2/NM2	N/A	Nmimpair.ST_CASE	Consecutive Number
C1/V1/D1/P C1/P1/NM1	N/A	Nmimpair.STATE	State Number
V3/D3/PC3/ P3	N/A	Nmimpair.VEH_NO	Vehicle Number
P4/NM4	N/A	Nmimpair.PER_NO	Person Number
PC15	AVOID	Maneuver.MDRMANAV	Driver Maneuvered to Avoid
C2/V2/D2/P C2/P2/NM2	N/A	Maneuver.ST_CASE	Consecutive Number
C1/V1/D1/P C1/P1/NM1	N/A	Maneuver.STATE	State Number
V3/D3/PC3/ P3	N/A	Maneuver.VEH_NO	Vehicle Number
NM12	N/A	Nmcrash.MTM_CRSH	Non Motorists Action/Circumstance at Time of Crash
C2/V2/D2/P C2/P2/NM2	N/A	Nmcrash.ST_CASE	Consecutive Number
C1/V1/D1/P C1/P1/NM1	N/A	Nmcrash.STATE	State Number
P4/NM4	N/A	Nmcrash.PER_NO	Person Number
V3/D3/PC3/ P3	N/A	Nmcrash.VEH_NO	Vehicle Number
NM11	N/A	Nmprior.MPR_ACT	Non Motorists Action/Circumstance Prior to Crash
C2/V2/D2/P C2/P2/NM2	N/A	Nmprior.ST_CASE	Consecutive Number
C1/V1/D1/P C1/P1/NM1	N/A	Nmprior.STATE	State Number
P4/NM4	N/A	Nmprior.PER_NO	Person Number
V3/D3/PC3/ P3	N/A	Nmprior.VEH_NO	Vehicle Number
NM13	N/A	Safetyeq.MSAFEQMT	Non Motorists Safety Equipment
C2/V2/D2/P C2/P2/NM2	N/A	Safetyeq.ST_CASE	Consecutive Number

Locator Code	2009 SAS Name	New 2010 SAS Names	Data Element Name
C1/V1/D1/PC1/P1/NM1	N/A	Safetyeq.STATE	State Number
P4/NM4	N/A	Safetyeq.PER_NO	Person Number
V3/D3/PC3/P3	N/A	Safetyeq.VEH_NO	Vehicle Number
D21	N/A	Violatn.MVIOLATN	Violations Charged
C2/V2/D2/PC2/P2/NM2	N/A	Violatn.ST_CASE	Consecutive Number
C1/V1/D1/PC1/P1/NM1	N/A	Violatn.STATE	State Number
V3/D3/PC3/P3	N/A	Violatn.VEH_NO	Vehicle Number
PC14	D_VISION1, D_VISION2, D_VISION3	Vision.MVISOBSC	Driver's Vision Obscured By
C2/V2/D2/PC2/P2/NM2	N/A	Vision.ST_CASE	Consecutive Number
C1/V1/D1/PC1/P1/NM1	N/A	Vision.STATE	State Number
V3/D3/PC3/P3	N/A	Vision.VEH_NO	Vehicle Number

Summary of the SAS Naming Changes in 2010

Locator Code	2009 SAS Name	New 2010 SAS Name	Data Element Name
C20a	N/A	RELJCT1	Relation to Junction - Within Interchange Area
C20b	REL_JUNC	RELJCT2	Relation to Junction - Specific Location
PC5	TRAF_FLO	VTRAFWAY	Trafficway Description
PC6	NO_LANES	VNUM_LAN	Total Lanes in Roadway
PC7	SP_LIMIT	VSPD_LIM	Speed Limit
PC8	ALIGNMNT	VALIGN	Roadway Alignment
PC9	PROFILE	VPROFILE	Roadway Grade
PC10	PAVE_TYP	VPAVETYP	Roadway Surface Type
PC11	SUR_COND	VSURCOND	Roadway Surface Condition
PC12	TRA_CONT	VTRAFCON	Traffic Control Device
PC13	T_CONT_F	VTCONT_F	Traffic Control Device Functioning
C21	N/A	TYP_INT	Type of Intersection
V113	N/A	VINTYPE	VIN Vehicle Type
V114	N/A	VINMAKE	VIN Make
V117	N/A	VINMODYR	VIN Model Year
PC23	N/A	ACC_TYPE	Accident Type
V121	N/A	FUELCODE	Fuel Code
V126	N/A	TIRE_SZE	Original Tire Size
V127	N/A	DISPLACE	Cubic Inch Displacement
V128	N/A	CYLINDER	Number of Cylinders
V129	N/A	CARBUR	Carburetion
V130	N/A	WHLDRWHL	Number of wheels/driver wheels
V131	N/A	TON_RAT	Ton Rating
V132	N/A	TRK_WT	Shipping Weight
V133	N/A	TRKWTVAR	Shipping Weight Variance

Locator Code	2009 SAS Name	New 2010 SAS Name	Data Element Name
V134	N/A	VIN_REST	VIN Restraint Type
V135	N/A	MCYCL_WT	Dry Weight
V136	N/A	MCYCL_CY	Number of Engine Cycles
P11	N/A	REST_MIS	Any Indication of Mis-Use of Restraint System/Helmet Use

The data elements in RED are new to 2010 FARS.
The data elements in BLUE are changed in 2010 FARS.

Trafficway Descriptor Data Elements 2010

As part of the data standardization effort to harmonize the data in FARS and NASS GES and align both data systems with the data elements recommended in MMUCC, nine data elements were moved from the Crash Level in FARS to the a new Precrash Level method of collection. Some data elements also had title changes as a result. The changes are identified below with ***bold/italics***. Those data elements are:

2009 Crash Level Data elements	2010 Precrash Level Data elements
C21 Trafficway Flow (TRAF_FLO)	***PC5*** Trafficway ***Description*** (VTRAFWAY)
C22 Number of Travel Lanes (NO_LANES)	***PC6 Total Lanes in Roadway*** (VNUM_LAN)
C23 Speed Limit (SP_LIMIT)	***PC7*** Speed Limit (VSPD_LIM)
C24 Roadway Alignment (ALIGNMNT)	***PC8*** Roadway Alignment (VALIGN)
C25 Roadway Profile (PROFILE)	***PC9*** Roadway ***Grade*** (VPROFILE)
C26 Roadway Surface Type (PAVE_TYP)	***PC10*** Roadway Surface Type (VPAVETYP)
C27 Roadway Surface Condition (SUR_COND)	***PC11*** Roadway Surface Condition (VSURCOND)
C29 Traffic Control Device (TRAF_CON)	***PC12*** Traffic Control Device (VTRAFCON)
C30 Traffic Control Device Functioning (T_CONT_F)	***PC13*** Traffic Control Device Functioning (VTCONT_F)

In the FARS data collection years 2009 and prior, the set of data elements above-left (C21-C27) provided details about the characteristics of the trafficway to which the crash had been assigned. Crashes were assigned to the trafficway on which the First Harmful Event occurred. If the First Harmful Event occurred outside the boundaries of a trafficway (e.g. private property), the crash was assigned to the trafficway on which the vehicle was traveling when the Unstabilized Situation began.

In at-intersection crashes, assignment was to the highest function class of trafficway at the intersection. If the vehicles were traveling on two different trafficways of equal function class prior to an at-intersection crash, it was assigned to the trafficway on which the motor vehicle precipitating the crash was traveling.

The data elements C29 Traffic Control Device and C30 Traffic Control Device Functioning were coded with respect to the control most applicable to the crash. If more than one device was present, the highest device (lowest number on the attribute list) most related to the crash was selected.

In the FARS data collection years starting in 2010, this set of data elements above-right (PC5-PC13) provide details about the characteristics of the trafficway that each in-transport motor vehicle was traveling on just prior to its Critical Precrash Event. The Critical Precrash Event is the event which made the crash imminent (i.e., something occurred which made the collision possible). For vehicles departing the trafficway prior to their critical precrash events, the trafficway selected for classification is the one the vehicle departed. If this vehicle is in a junction just prior to its critical precrash event, the trafficway selected for classification is the one it is on before entering the junction.

While these data elements were still collecting the same general information in 2010, there are some important differences to note. First, by being collected for each vehicle, different trafficway characteristics could be recorded for each vehicle in the crash. Second, in some circumstances the procedural change to being recorded for each vehicle based on its precrash location rather than the location of the first harmful event resulted in different data being provided than would have been in the same crash in prior years.

The types of crashes most affected by the change were those that occur in junction. For example, in a crash where two vehicles were traveling on the same trafficway in opposite directions (e.g. North-South) that have an at-intersection crash in the junction of a higher function class trafficway, the characteristics of the lower class trafficway that each of the vehicles were traveling on before entering the intersection area are recorded in the data elements PC5-PC13 for each vehicle. In prior years, the characteristics of the higher functional class trafficway would have appeared on the Crash Level. Also note that in such a case, on the Crash Level this crash would still be recoded to the higher functional class trafficway in the data elements C10 National Highway System, C11 Roadway Function Class, C12 Route Signing, and C13 Trafficway Identifier and none of the vehicle level characteristics can be attributed to this trafficway.

New in 2011 FARS

2011 Data Elements with Changes in Definitions and Attributes

Below is a list of FARS data elements that have substantial changes for 2011.

DATA ELEMENT #	DATA ELEMENT NAME	NEW/ REVISED VALUES	NEW/ REVISED REMARKS	COMMENTS
C3	Number of Forms Submitted for Persons Not in Motor Vehicles	X		▪ Update Range to: ***00***-99.
C14	Milepoint	X	X	▪ Changed format from **5 ~~alphanumeric~~** to ***5 numeric***. ▪ Updated element attributes with the addition of the decimal point.
C17	Crash Events-Sequence of Events		X	▪ Delete attribute ***~~98 – Not Reported~~***
C18	First Harmful Event	X	X	▪ Delete attribute ***~~98 – Not Reported~~***
C30	EMS Time at Hospital	X	X	▪ Added new attribute ***9996 – Transport Terminated***.
V4	Number of Occupants	X	X	▪ Delete attribute ***~~98 - Not Reported~~***
V9	Vehicle Make	X	X	▪ Added new Make ***66 - Mahindra***
V10	Vehicle Model	X		▪ Add new attribute ***598 – Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV)*** and ***870 – Medium/Heavy Van-Based Vehicle.***

DATA ELEMENT #	DATA ELEMENT NAME	NEW/ REVISED VALUES	NEW/ REVISED REMARKS	COMMENTS
V10	Body Type	X	X	▪ Added new attributes: ***55 – Van-Based Bus GVWR > 10,000 lbs.*** and ***94 – Low Speed Vehicle (LSV) / Neighborhood Electric Vehicle (NEV)*** ▪ Updated attributes: 61 – Single-unit straight truck ***or Cab-Chassis*** (10,000 lbs. < GVWR < or = 19,500 lbs.), 62 – Single-unit straight truck ***or Cab-Chassis*** (19,500 lbs. < GVWR < or = 26,000 lbs.), 63 – Single-unit straight truck ***or Cab-Chassis*** (GVWR > 26,000 lbs.), 64 – Single-unit straight truck ***or Cab-Chassis*** (GVWR unknown).
V27	Location of Rollover	X	X	▪ Add new attribute: ***7 – In Parking Lane/Zone***
V31	Sequence of Events	X	X	▪ Removal of attribute ~~**98 - Not Reported**~~
V32	Most Harmful Event		X	▪ Added new remarks. ▪ Removal of attribute ~~**98 - Not Reported**~~
D5	Driver's License State	X	X	▪ Delete attribute ~~**00 - No Driver Present**~~
D6	Driver's Zip Code	X	X	▪ Delete attribute ~~**99997 - No Driver Present**~~
D23/ NM14	Condition (Impairment) at Time of Crash	X	X	▪ Updated attribute ***99 – Unknown If ~~Physically~~ Impaired.***
D24	Related Factors-Driver Level		X	▪ Updated attribute 12 – Mother of Dead Fetus/ ***Mother of Infant Born Post Crash***
PC7	Speed Limit	X	X	▪ Change attribute range from ~~**01-95**~~ to ***05-80 (in 5 mph increments)***.
PC12	Traffic Control Device	X	X	▪ Updated attributes: ~~***22***~~ ***23 – School Zone***

DATA ELEMENT #	DATA ELEMENT NAME	NEW/ REVISED VALUES	NEW/ REVISED REMARKS	COMMENTS
PC14	Driver Vision Obscured By	X	X	▪ Updated attribute: 95 - No Driver Present ***/ Unknown if Driver Present***
PC15	Driver Maneuvered to Avoid	X	X	▪ Updated attribute: 95 - No Driver Present ***/ Unknown if Driver Present***
PC16	Driver Distracted By	X	X	▪ Updated attribute: 16 - No Driver Present ***/ Unknown if Driver Present***
PC17	Pre-Event Movement (Prior to Recognition of Critical Event)	X	X	▪ Updated attributes: 02 – Decelerating in ***Road***~~way,~~ 03 – Accelerating in ***Road***~~way,~~ 04 – Starting in ***Road***~~way~~, 05 – Stopped ~~**in Traffic Lane** **in Roadway***~~. 07 – Disabled or ***"Parked"*** in ***Travel*** Lane
PC19	Critical Event-Precrash (Event)	X	X	▪ Updated attributes: 15 – Turning left at ~~**trafficway** **junction,*~~ 16 – Turning right at ~~**trafficway** **junction,*~~ 80 – Pedestrian in ~~**roadway** **road,*~~ 81 – Pedestrian approaching ~~**roadway** **road,*~~ 83 – Pedalcyclist or other non-motorist in ~~**roadway** **road** **(specify:)***~~, 84 – Pedalcyclist or other non-motorist approaching ~~**roadway** **road** **(specify:)***~~, 85 – Pedalcyclist or other non-motorist unknown location ~~**(specify:),***~~87 – Animal in ~~**roadway***~~ **road,** 88 – Animal approaching ~~roadway~~ ***road,*** 90 – Object in ~~**roadway** **road,*~~ 91 – Object approaching ~~roadway~~ ***road***
P7/NM7	Person Type	X	X	▪ Deleted attribute: ~~**88 – Not Reported**~~.
P8/NM8	Injury Severity		X	▪ Deleted attribute: ~~***8 – Not Reported***~~
P26/NM25	Related Factors-Person Level (Motor Vehicle Occupant)	X	X	▪ Updated attributes: 18 – Mother of Dead Fetus/ ***Mother of Infant Born Post Crash***

Summary of the SAS Naming Changes in 2011

Locator Code	2010 SAS Name	New 2011 SAS Name	Data Element Name
C3A	N/A	PERNOTMVIT	Number of Persons Not in Motor Vehicles in Transport (MVIT)
C4B	N/A	PVH_INVL	Number of Parked/Working Vehicles Involved
C5A	N/A	PERMVIT	Number of Persons in Motor Vehicles in Transport (MVIT)
V126	N/A	TIRE_SZE	Original Tire Size
V127	N/A	DISPLACE	Cubic Inch Displacement
V128	N/A	CYLINDER	Number of Cylinders
V129	N/A	CARBUR	Carburetion
V130	N/A	WHLDRWHL	Number of Wheels/Drive Wheels
V131	N/A	TON_RAT	Ton Rating
V132	N/A	TRK_WT	Shipping Weight
V133	N/A	TRKWTVAR	Shipping Weight Variance
V134	N/A	VIN_REST	VIN Restraint Type
V135	N/A	MCYCL_WT	Dry Weight
V136	N/A	MCYCL_CY	Number of Engine Cycles
NM4	N_MOT_NO	STR_VEH	Number of Motor Vehicle Striking Non-Motorist

The data elements in RED are new to 2011 FARS.
The data elements in BLUE are changed in 2011 FARS.

Appendix F:
Pedestrian and Bicyclist Data Availability Change

In 2010, NHTSA added new precrash data elements for pedestrians and bicyclists (non-motorist) to the data collected in the Fatality Analysis Reporting System (FARS) and the National Automotive Sampling System (NASS) General Estimates System (GES). These data are intended for countermeasure research and development. However, NHTSA's National Center for Statistics and Analysis (NCSA) quality control team has identified inconsistencies between the new non-motorist data elements and comparable pre-existing FARS elements that can lead to different results. Consequently, NHTSA has removed the Pbtype data file from the 2010 and 2011 FARS and NASS GES while research is conducted on how improvements can be made. This Pbtype data file includes some non-motorist data (see below). The following data elements have been removed:

- PB30 – Crash Type - Pedestrian
- PB31 – Crash Type Location - Pedestrian
- PB32 – Pedestrian Position
- PB33 – Pedestrian Initial Direction of Travel
- PB34 – Motorist Direction
- PB35 – Motorist Maneuver
- PB36 – Intersection Leg
- PB37 – Pedestrian Scenario
- PB38 – Crash Group – Pedestrian
- PB30B – Crash Type - Bicycle
- PB31B – Crash Location - Bicycle
- PB32B – Bicyclist Position
- PB33B – Bicyclist Direction
- PB38B – Crash Group - Bicyclist

Appendix G:
Changes to the FARS VIN Decoded Data Elements

FARS implemented a new structure for its VIN decoded data elements in 2013. This was warranted due to the renovation of the RL Polk VIN verification and decoding program. RL Polk upgraded their PC VINA VIN validation and decoding program to their new VINtelligence application, and no longer supports PC VINA. The FARS data collection software was therefore retooled to work with the VINtelligence application. The output is now stored in the Vindecode data file. The data file contains 100 VIN decoded data elements. Descriptions of these data elements are provided below from the Polk VINtelligence Deluxe Package and Field Descriptions documentation.

Note: The twelve characters of the VIN are still provided as individual data elements (V101-V112) in the Vehicle and Parkwork data files. The 24 VIN decoded data elements that used to be on the Vehicle, Parkwork and Person data files were discontinued in 2013. These data elements can still be found in the discontinued sections of the Vehicle and Parkwork data files in this Manual.

Element Identifier	SAS Name	Field Description
V200	ABS	(Brakes- ABS Code) A code that describes whether a vehicle has or does not have anti-lock brakes, and what kind of brakes they are. (Not coded for heavy truck). This is based on the series code that is assigned the vehicle from VINA.
V201	ABS_T	(Brakes- ABS Code) description
V202	BATKWRTG	The measure of total battery power expressed in kilowatts. For example: 71KW, 85KW, 75KW, 67KW.
V203	BATTYP	A value that identifies the kind of battery in the vehicle. For example: PbA- Lead Acid, NMH- Nickel Metal Hydride.
V204	BATTYP_T	The description of the Polk assigned code for the Battery Type Code. For example: PbA- Lead Acid, NMH- Nickel Metal Hydride.
V205	BATVOLT	The voltage rating of the battery as provided by the manufacturer.
V206	BLOCKTYPE	(Block Type) Description
V207	BODYSTYL	A Polk assigned code that describes the body style of the vehicle. For example, CP=Coupe.
V208	BODYSTYL_T	The description of the Polk assigned code Body Style Code For example: Coupe
V209	CARBBRLS	The number of barrels on a carbureted engine.
V210	CARBTYPE	Carburetion types include "Carburetor", "Fuel Injection", N/A
V211	CARBTYPE_T	The description of the Polk assigned code which identifies the vehicle carburetion type. For example Carburetor, Fuel Injection, Unknown or Electric.
V212	CYCLES	(Cycle Count) Refers to the cycle or stroke of an engine. 2-strokes are lightweight and simpler, but they burn oil, by design. Few cars on the road in North America are two-strokes, the last one offered was a 1967 Saab.
V213	CYLNDRS	Contains a code that represents the number of cylinders a vehicle's combustion engine can have.
V214	DISPCLMT	(Displacement Liters) displacement in rounded Liters, where 1,000 cubic centimeters = 1 liter. Even domestic makes will advertise displacement in terms of liters (e.g. 5.0 liter mustang, which equates to a 302 CID or 4967 cc displacement).
V215	DISPLCC	(Displacement CC) displacement in cubic centimeters. We intend to use this as the definitive, exact displacement value, i.e. 4967 cc.
V216	DISPLCI	(Displacement CID) displacement in cubic inches. This is a rounded, marketing

Element Identifier	SAS Name	Field Description
		value, like 302 cubic inches, instead of 4967 cc.
V217	DOORS	The number of doors the vehicle has
V218	DRIVETYP	(Drive Type) This element describes type of driving configuration for cars and trucks such as FWD, AWD, RWD.
V219	DRIVETYP_T	(Drive Type) description
V220	DRIVWHLS	Number of wheels driven by the power train. For example in a 6x4 configuration this would be the 4.
V221	DRL	(Daytime Running Lights)A Polk assigned code that identifies whether or not the vehicle has daytime running lights.
V222	DRL_T	(Daytime Running Lights) description
V223	ENGHEAD	(Head Configuration) Describes the cylinder head's camshaft/valve configuration.
V224	ENGHEAD_T	(Head Configuration) description
V225	ENGMFG	(Mfr.) A Polk assigned code given to the original equipment manufacture of the within a vehicle
V226	ENGMFG_T	(Mfr.) description
V227	ENGMODEL	(Model) description
V228	ENGVINCD	(Code) Code derived from the VIN (not the secondary VIN for a motorcycle). Usually a single character, some manufactures give full positions 4-8 and engine information from that; they do not break it down any further.
V229	ENGVVT	Used to determine if a car has Variable Valve Timing
V230	FUEL	(Fuel) What an internal combustion burns to move a piston in a cylinder
V231	FUEL_T	(Fuel) description
V232	FUELINJ	The type of fuel injection
V233	FUELINJ_T	The type of fuel injection used by a vehicle. For example, Direct, Throttle body
V234	GVWRANGE	Contains a code that identifies the Polk standard groupings of gross vehicle weights to which a vehicle may belong. This information is typically captured only for trucks.
V235	GVWRANGE_T	The description for the manufacturers assigned Gross Vehicle Weight (GVW) for trucks. This rating may or may not equal the actual GVW.
V236	INCOMPLT	Indicator that signifies whether the vehicle is consider "incomplete" (Y/N)
V237	MCYUSAGE	A further breakdown of body style for motorcycles to indicate if is it On-Road or Off-Road.
V238	MCYUSAGE_T	A further breakdown of body style for motorcycles to indicate if is it On-Road or Off-Road.
V239	MFG	(Vehicle Manufacturer Name) Standard abbreviation of the name of the vehicle manufacturer, i.e. General Motors, as defined by the National Crime Information Center
V240	MFG_T	(Vehicle Manufacturer Name) The name of the vehicle manufacturer, i.e. General Motors, as defined by the National Crime Information Center
V241	MSRP	Contains the base price of the vehicle as designated by the OEM's specifications. BASE PRICE includes only the price for the base model of the vehicle, excluding any optional equipment that may have been added as a result of the vehicle's TRIM LEVEL.
V242	NCICMAKE	Contains the Polk standardized abbreviation for the OEM's vehicle make. The vehicle make generally contains what the general public usually considers to be a vehicle brand name, for example, Chrysler, Dodge, Ford, Mercury, Toyota,

Element Identifier	SAS Name	Field Description
		GMC, Chevy, etc.
V243	ORIGIN	(Origin) A code that indicates the origin of a vehicle.
V244	ORIGIN_T	(Origin) description
V245	PLANT	(Plant Code) Plant code where vehicle was manufactured.
V246	PLNTCITY	(City) This is the city where the plant is located.
V247	PLNTCTRY	A code representing the country the plant is in.
V248	PLNTCTRY_T	(Country) This is the country where the plant is located. Example values are USA, Canada and Japan.
V249	PLNTSTAT	A code representing the state or province the plant is in.
V250	PLNTSTAT_T	(State or Province) This is the state or province (Canada) location of the plant.
V251	PSI_F	(Front Tire Pressure) Vehicle Mfr. recommendation for tire pressure, in pounds/sq. in.
V252	PSI_R	(Rear Tire Pressure) Vehicle Mfr. recommendation for tire pressure, in pounds/sq. in.
V253	REARSIZE	The size of the rear tires. example "17R245"
V254	REARSIZE_T	(Rear Tire Size Description) As in "17R245"
V255	RSTRNT	(Restraint Type) A Polk assigned code that identifies the type of restraints that a vehicle has based on VIN.
V256	RSTRNT_T	(Restraint Type) description
V257	SALECTRY	(Country Sold / Specific Market) Country where the vehicle is planned to be sold (may have different emissions standards).
V258	SALECTRY_T	(Country Sold / Specific Market) description
V259	SECURITY	(Security Type) Describes the security system (if any) installed on this model.
V260	SECURITY_T	(Security Type) description
V261	SEGMNT	The Polk standard segmentation code
V262	SEGMNT_T	Description of SEGMENTATION_CODE that represents the Polk Standard Segmentation applied.
V263	SHIPWEIGHT	Contains the base weight of the vehicle, rounded to the nearest one hundred pounds, as defined in the OEM's specifications. The base weight of a vehicle is the empty weight of the base model of the vehicle (i.e., the stripped down version of the vehicle)
V264	SUPCHRGR	Indicates if the engine has a supercharger or not.
V265	SUPCHRGR_T	Indicates if the engine has a supercharger or not. Yes, No or Unknown.
V266	TIREDESC_F	(Front Tire) More specific tire description (ex. Michelin Eagle P245/40ZR)"
V267	TIREDESC_R	(Rear Tire) More specific tire description (ex. Michelin Eagle P245/40ZR)"
V268	TIRESZ_F	Describes the size of the front tire. For example "17R245"
V269	TIRESZ_F_T	(Front Tire Size Description) As in "17R245"
V270	TKAXLEF	(Axle- Type, Front Axle) The location of the front axle of a truck tractor. Set forward increases stability on the highway, Setback increases maneuverability in tight spaces.
V271	TKAXLEF_T	(Axle- Type, Front Axle) short description
V272	TKAXLER	(Axle- Type, Rear Axle) Represents rear axle configuration on a truck tractor. Tandem axles increase load bearing capability.
V273	TKAXLER_T	(Axle- Type, Rear Axle) short description

Element Identifier	SAS Name	Field Description
V274	TKBEDL	(Bed Length) Code representing the manufacturer's description of the relative size of the cargo area of a pickup truck or van. A "long" Ford Ranger bed (compact pickup) may well be shorter than a "short" bed on an F350 (large industrial pickup).
V275	TKBEDL_T	(Bed Length) description
V276	TKBRAK	(Brake Type) The type of brakes on the Vehicle (currently commercial truck only). Truck VIN determines this currently
V277	TKBRAK_T	(Brake Type) description
V278	TKCAB	(Cab Configuration) Cab Type describes the physical configuration of a truck's cabin.
V279	TKCAB_T	(Cab Configuration) medium description
V280	TKDUTY	(Duty Type) A Polk assigned code that represents the duty type of a truck engine, based on manufacturer information.
V281	TKDUTY_T	(Duty Type) medium description
V282	TONRATING	(Tonnage Rating) description
V283	TURBO	Indicates if the engine has a turbocharger.
V284	TURBO_T	Indicates if the engine has a turbocharger. Yes, No or Unknown.
V285	VEHTYPE	A Polk assigned code that defines the type of a vehicle represented by a specific VIN. For example: M,P,C or T.
V286	VEHTYPE_T	The description of the Polk assigned code for the vehicle type code. For example: passenger, truck, motorcycle, commercial trailer.
V287	VINMAKE_T	(Make- Name) Full name of the make (i.e. Chevrolet)
V288	VINMODEL_T	(Model Code) description
V289	VINTRIM_T	The Trim of the vehicle
V290	VINTRIM1_T	The trim of the vehicle. This field is used when a VIN Pattern could have more than 1 trim assigned.
V291	VINTRIM2_T	The trim of the vehicle. This field is used when a VIN Pattern could have more than 2 trims assigned.
V292	VINTRIM3_T	The trim of the vehicle. This field is used when a VIN Pattern could have more than 3 trims assigned.
V293	VINTRIM4_T	The trim of the vehicle. This field is used when a VIN Pattern could have more than 4 trims assigned.
V294	VINYEAR	The marketing year defined by the OEM within which the vehicle was produced. The value contained in this attribute may not always match the calendar year in which the vehicle was actually manufactured. Many OEMs release models prior to calendar year.
V295	VLVCLNDR	(Valves Per Cylinder) Number of intake/exhaust valves per cylinder.
V296	VLVTOTAL	(Valves Total) Total number of intake/exhaust valves.
V297	WHEELS	The number of wheel ends on the vehicle. For example in a 6x4 configuration this would be the 6.
V298	WHLBLG	Contains the longest distance between the front and rear axles of a vehicle in inches for a particular series of that vehicle.
V299	WHLBSH	Contains the distance between the front and rear axles of a vehicle in inches of the base model of the vehicle.

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