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Non-Traffic Surveillance Non-Traffic Crash Injuries and Fatalities 2008-2015 Analytical User's Manual

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Introduction

One of the primary objectives of the National Highway Traffic Safety Administration is to reduce the staggering human toll and property damage that motor vehicle traffic crashes impose on our society. Data regarding fatalities and injuries that occur in non-traffic crashes, which can occur on private roads, driveways, and parking lots, have not routinely been collected by NHTSA. The Non-Traffic Surveillance (NTS) system is a virtual data collection system designed to meet this need by providing counts and details regarding fatalities and injuries that occur in non-traffic crashes.

A motor vehicle non-traffic crash has an unstabilized Situation OFF the trafficway and ALL harmful events OFF the trafficway.

This NTS Analytical User's Manual is an overview of the variables collected and coded for non-traffic crash cases. Several types of crashes were excluded from the final non-traffic crash data set.

- Cases when the fatality was attributed to natural causes or a medical condition
- Cases where the crash takes place on a racetrack while racing
- Cases when the fatality occurred more than 30 days after the crash
- Cases where the fatality or injury was due to deliberate intent such as homicide, suicide, and legal intervention or was due to a cataclysmic event
- Cases when there was no fatality or injury
- Cases when there was no motor vehicle in transport
 - In-transport means in motion or stationary on a roadway such as a vehicle stopped at a stop sign
 - Not-in-transport means off the roadway and not in motion such as a parked vehicle
 - Examples excluded because no motor vehicle in transport
 - A vehicle falls off a jack stand and injures a person; or
 - A bicyclist strikes the open door of a parked motor vehicle
- Cases when the only vehicles involved were not designed primarily for road use
 - Vehicle classifications were based on definitions used by the NASS-GES 2011 Coding Manual
 - Common examples of excluded vehicles are ATVs, dirt bikes, golf carts, snowmobiles, go-carts, forklifts, motorized wheelchairs, farm equipment, and construction equipment other than trucks

The NTS program accepted potential crashes only from FARS analysts and from sampled NASS-GES police jurisdictions. The primary source documents from NASS-GES were limited to those completed by law enforcement. Cases originating from FARS could be from any notification source, including Internet articles and death certificates. If the FARS information is NOT from a police crash or incident report, but from newspaper articles, emails, or other documents, then certain minimal information must be present.

- date of crash
- driver age, sex, and injury
- if nonmotorist involved: age, sex, injury
- motor vehicle body type or make/model
- crash description including location

NTS Non-Traffic Crash Operations

The NTS Non-Traffic Crash data collection program is directed by the National Center for Statistics and Analysis. In conducting their daily operations, FARS, CISS, and CRSS personnel obtain copies of documents to be used in coding of non-traffic crashes.

These documents are subsequently made available for a contractor for coding. Trained personnel interpret and code data directly from the Police Accident Report (PAR) onto an electronic file. To protect individual privacy, no personal information such as names, addresses, specific crash location, etc., is coded.

During data coding, the data is checked for validity and consistency. After the data file is created, quality checks are performed on the data. When these are completed, the electronic data is made available to governments, researchers, motor vehicle manufacturers, insurance companies, and others.

National Estimates

NHTSA is aware that NTS does not have a complete count of all non-traffic crash fatalities. State laws and regulations vary considerably regarding when reports are required for non-traffic crash fatalities, the types of report used to document the crashes, and whether the reports are sent from the local jurisdictions to the State. Most States require some type of report, but the report is generally kept at the local police jurisdiction and is not sent to the State. Since the FARS analysts work at the State level, there may be reports of non-traffic crash fatalities of which they are not aware. NHTSA did not receive any or received few reports from some States and cannot determine if it did not receive any reports because there were none or because the State did not have non-traffic fatalities. Similarly, NHTSA is aware that not all the NASS-GES sample police jurisdictions were able to provide non-traffic police reports.

NHTSA derived adjustment factors to account for the incompleteness of the NTS system. NHTSA estimated the expected number of non-traffic fatalities and injuries using other data sources. The adjustment factors inflate the number of cases received to a national estimate of non-traffic injuries and fatalities. The adjustment factors were determined separately for fatalities and injuries and for occupants and nonoccupants.

For fatalities, NHTSA used the mortality cause-of-death public use data file from the National Center for Health Statistics' National Vital Statistics System. The adjustment factor for non-traffic crash fatalities accounts for the difference between the number of fatalities expected, which is based upon all crash fatalities in the mortality data and traffic fatalities reported in FARS, and the number of fatalities received.

For non-traffic injuries, NHTSA turned to its State Data System and used information from five States that collect information on both non-traffic and traffic injury crashes. The information from these States was then applied to estimates of injuries in traffic crashes from NASS-GES to determine an expected number of non-traffic crash injuries. The weights based upon the NASS-GES sample design were then inflated to produce adjustment factors that reflect the expected number of non-traffic injuries. Due to the necessary use of outside sources in developing the adjustment factors, standard errors as an estimate of sampling error are not validly developed from the adjustment factors and are therefore not recommended.

NTS SAS Data Files

NTS data is made available to the public in Statistical Analysis System (SAS) data sets. The NTS Coding and Editing Manual has a detailed description of each SAS variable including coding instructions and attribute definitions.

Note: in this manual the word *vehicle* means an in-transport motor vehicle unless otherwise noted.

The SAS data files and years of availability are:

- **Accident** - (2008-current): This data file has information about crash characteristics and environmental conditions at the time of the crashes. There is one record per crash.
- **Vehicle** - (2008-current): This data file has information describing the in-transport motor vehicles and the drivers of in-transport motor vehicles who are involved in the crashes: There is one record per in-transport motor vehicle. Parked and working vehicle information is in the Parkwork data file.
- **Person** - (2008-current): This data file has information describing all people involved in the crash including motorists (drivers and passengers of in-transport motor vehicles) and non-motorists (pedestrians and pedalcyclists). It has information such as age, sex, and vehicle occupant restraint use and injury severity. There is one record per person.
- **Cevent** - (2010-current): This data file has information for all the qualifying events that occurred in the crash. This data file details the chronological sequence of events resulting from an unstabilized situation that constitutes a motor vehicle traffic crash. There is one record per event. For each in-transport motor vehicle, the event number of its most harmful event is stored in the Vehicle data file.
- **Vevent** - (2010-current): This data file has the sequence of events for each in-transport motor vehicle involved in the crash. Included are the event numbers, objects struck and areas of impact. There is one record for each harmful event in which the vehicle is involved.
- **Vsoe** - (2010-current): This data file contains the sequence of events for each motor vehicle involved in the crash. Included are the event numbers, objects struck, and areas of impact. There is one record for each harmful event in which the vehicle is involved. It is a simplified Vevent data file.
- **Damage** - (2012-current): This data set has information about all the areas on this vehicle that were damaged in the crash. There is one record per damaged area.
- **Vision** - (2008-current): This data file contains information about circumstances that may have obscured the driver's vision. There is at least one record per in-transport motor vehicle. Each obstruction is a separate record.
- **Distract** - (2008-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.

- **Parkwork** – (2010-current): This data file was called the Parked data file from 2008 to 2010. It had information about parked and working vehicles that were involved in NTS crashes. A parked vehicle is a motor vehicle that is stopped off the roadway, i.e., parked off the roadway. A “working” vehicle is one involved in trafficway maintenance, construction, or utility activities. It excludes vehicles performing private maintenance, construction, or utility activities. Data users are strongly advised to consult the annual NTS Coding and Editing Manuals for a detailed discussion. There is one record per parked/working vehicle.

Discontinued Data Files

- **Parked** – (2008-2009): This data file had information about parked and working vehicles that were involved in NTS crashes. A parked vehicle is a motor vehicle that is stopped off the roadway, i.e., parked off the roadway. The definition of working vehicles has changed over the study years. In 2008 working vehicles were defined as transport devices being used as equipment that would be classified under ANSI D16.1-1996 as motor vehicles, if not being used as equipment. In 2009 the definition changed to include only vehicles involved in trafficway maintenance, construction, or utility activities. Also, vehicles performing private maintenance, construction, or utility activities were excluded. Data users are strongly advised to consult the annual NTS Coding and Editing Manuals for a detailed discussion. There is one record per parked/working vehicle.
- **Parkevnt** – (2008-2009): This data file had information about events in which parked/working vehicles were involved. The structure of this data file was similar to the Event data file (2008-2009) and the Cevent data file (2010), with one record per event involving a parked/working vehicle. However, there are several differences between Event/Cevent and Parkevnt. In Event/Cevent, struck parked/working vehicles are not individually identified. Instead, parked vehicles are coded as "parked vehicle or other motor vehicle not-in-transport" (2008-2009) or "parked vehicle" (2010) and working motor vehicles are coded as non-fixed objects (2008) or "parked vehicle or other motor vehicle not-in-transport" (2009) or as "working motor vehicle" (2010). In Parkevnt each parked/working vehicle is identified by parked vehicle number, event number, and case number. Merging Event/Cevent and Parkevnt data files by CASENUM and EVENTNUM produces a list of events parked/working vehicles were involved in and identifies the specific vehicles involved (both in-transport and parked/working).
- **Event** - (2008-2009): This data file had information for each harmful event that occurred in the crash, including the vehicles or objects involved and the general area of damage. It detailed the chronological sequence of events resulting from an unstabilized situation that constitutes a motor vehicle traffic crash. There was one record per event. This data file was replaced with the Cevent data file in 2010.

NTS Data Element List

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

DATA ELEMENT LIST

	Case Number 16	CASENUM
	Primary Sampling Unit (PSU) 17	PSU
C34	Police Jurisdiction (PJ) 18	PJ
	Adjust 19	ADJUST
V3/D3/PC3/ P3/NM4	Vehicle Number 20	VEH_NO
P4/NM3	Person Number 21	PER_NO
C18	Event Number 22	EVENTNUM
C17	Vehicle Event Number 22	VEVENTNUM

The ACCIDENT Data File 23

C3	Number of Forms Submitted for People Not in Motor Vehicles 24	PEDS
C3A	Number of People Not in Motor Vehicles in Transport (MVIT) 24	NON_INVL
C4	Number of Total Motor Vehicles Involved 25	VE_TOTAL
C4A	Number of Motor Vehicles in Transport (MVIT) Involved 25	VEH_INVL
C4B	Number of Parked/Working Vehicles Involved 26	PVH_INVL
C5A	Number of People in Motor Vehicles in Transport (MVIT) 26	PERMVIT

C8A	Month of Crash 27	MONTH
C8C	Day of Week 28	DAY_WEEK
C8D	Year of Crash 28	YEAR
C9A	Hour of Crash 29	HOUR
C9B	Minute of Crash 30	MINUTE
C19	First Harmful Event 31	HARM_EV
C20	Manner of Collision 34	MAN_COLL
C23	Location of First Harmful Event (Relation to Trafficway) 35	Loc_fhe
C27	School Bus Related 36	SCH_BUS
C90	Maximum Injury Severity in Crash 37	MAX_SEV
C91	Number Known Injured in Crash 38	NUM_INJ

The VEHICLE Data File 39

V4	Number of Occupants 40	NUMOCCS
V5	Unit Type UNITTYPE	41
V6	Hit-and-Run 42	HIT_RUN
V9	Vehicle Make 43	MAKE
V10	Vehicle Model 48	MODEL
V11	Body Type 49	BODY_TYP
V12	Vehicle Model Year 54	MOD_YEAR
V13	Vehicle Identification Number (VIN) 55	VIN
V28A	Initial Point of Impact 56	IMPACT1
V29	Extent of Damage 58	DEFORMED
V30	Vehicle Removal 59	TOWED
V32	Most Harmful Event 60	M_HARM
V90	Maximum Injury Severity in Vehicle 63	MAX_VSEV
V91	Number Injured in Vehicle 64	NUM_INJV
V100	Make Model Combined MAK_MOD	65
D4	Driver Presence 66	DR_PRES
PC17A	Last Movement 67	LASTMOVE
PC20	Attempted Avoidance Maneuver 68	P_CRASH3
PC21	Pre-Impact Stability 69	PCRASH4
	Number of Occupants Coded (discontinued) 70	OCC_INVL
	Most Harmful Event Number (discontinued) 71	MHENUM
	Vehicle Role (discontinued) 72	VEH_ROLE
	Damage Areas (discontinued) 73	DAM_AREA

	Driver's Vision Obscured by (discontinued) 74	VIS OBSC
	Driver Distracted by (discontinued) 76	DR_DSTRD
	Most Damaged Area (discontinued) 77	IMPACT2

The PERSON Data File 78

P5/NM5	Age 79	AGE
P6/NM6	Sex 80	SEX
P7/NM7	Person Type 81	PER_TYP
P8/NM8	Injury Severity 82	INJ_SEV
P9	Seating Position 83	SEAT_POS
NM4	Number of Vehicle Striking Non-Motorist 84	STR_VEH
NM10	Non-Motorist Location 85	LOCATION
NM26	Pedestrian Motion 86	PEDMOTN
NM27	Pedestrian Posture 87	PEDpost

The CEVENT Data File 88

C17	Vehicle Number (This Vehicle) 89	VNUMBER1
C17	Area of Impact (This Vehicle) 90	AOI1
V31	Sequence of Events 92	SOE
C18	Vehicle Number (Other Vehicle) 95	VNUMBER2
C18	Area of Impact (Other Vehicle) 96	AOI2
	Vehicle's Action (discontinued) 97	E_ACTION

The VEVENT Data File 98

C17	Vehicle Number (This Vehicle) 99	VNUMBER1
C18	Area of Impact (This Vehicle) 100	AOI1
V31	Sequence of Events 101	SOE
C18	Vehicle Number (Other Vehicle) 104	VNUMBER2
C18	Area of Impact (Other Vehicle) 105	AOI2

The VSOE Data File 106

C18	Area of Impact Associated with the Event 107	AOI
V31	Sequence of Events 108	SOE

The VISION Data File 111

PC14	Driver's Vision Obscured By 112	MVISOBSC
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The DAMAGE Data File 113

V28B	Damaged Areas 114	MDAREAS
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The DISTRACT Data File 115

PC16	Driver Distracted By 116	MDRDSTRD
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The PARKWORK Data File 117

C4A	Number of Vehicles Involved 118	PVE_FORMS
C8A	Month of Crash 119	PMONTH
C9A	Hour of Crash 120	PHOUR
C9B	Minute of Crash 120	PMINUTE
C20	Manner of Collision 123	PMAN_COLL
V4	Number of Occupants 124	PNUMOCCS
V5	Unit Type 125	PTYPE
V6	Hit-and-Run 126	PHIT_RUN
V9	Vehicle Make 127	PMAKE
V10	Vehicle Model 132	PMODEL
V11	Body Type 133	PBODYTYP
V12	Vehicle Model Year 136	PMODYEAR
V13	Vehicle Identification Number (VIN) 137	PVIN
V28A	Initial Point of Impact 138	PIMPACT1
V29	Extent of Damage 140	PVEH_SEV
V30	Vehicle Removal 141	PTOWED
V32	Most Harmful Event 142	PM_HARM
V100	Make Model Combined 145	PMAK_MOD
	Area of Impact- Most Damaged (discontinued) 146	PIMPACT2

Discontinued Data Files 147**The PARKEVNT Data File 148**

Parked/Working Vehicle Number

(discontinued) 149	PVEHNO
Parked/Working Vehicle Event Number	
(discontinued) 150	EVENTNUM
Parked/Working Vehicle Point of Impact	
(discontinued) 151	PGAD

Data Element Definitions and Codes

The “Data Element Definitions and Codes” section of this report provides detailed information on the data elements, including SAS formats. If the SAS data element has an associated format, the format name appears in brackets following the SAS data element name. Format names are given for the last 3 years. Format names for earlier years can be obtained from a SAS PROC CONTENTS for the years of interest.

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

- VIN (V13) Vehicle Identification Number (all years)

There are 4 Accident level data elements available on all SAS data files. They are:

Case Number

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

Additional Information:

SAS Name: CASENUM

Attribute Codes

2008-Later

xx PAR Identification Number

Primary Sampling Unit (PSU)

Definition: A PSU is a geographic location or group of locations.

Additional Information:

SAS Name: PSU

Attribute Codes

2008-Later

1-102 Primary Sampling Unit Number

C34 Police Jurisdiction (PJ)

Definition: This data element identifies the number of the police jurisdiction from which the PAR was originally sampled.

Additional Information:

SAS Name: PJ

Attribute Codes

2008-Later

1-120 Police Jurisdiction Number

Adjust

Definition: This data element is used to produce national estimates from the data.

Additional Information: See the section *National Estimates* for more information.

SAS Name: ADJUST

The above data elements as well as VEH_NO are found on all vehicle-level data files:

V3/D3/PC3/P3/NM4 Vehicle Number

Definition: This data element identifies the 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 CASENUM data element to merge information from Vehicle-level data files.

Additional Information: Starting in 2010, all vehicles (motor vehicles in-transport as well as parked/working vehicles) are sequentially ordered starting with 1. Prior to 2010 all motor vehicles in-transport were sequentially ordered starting with 1 and all parked/working motor vehicles were sequentially ordered separately starting with 1.

SAS Name: **VEHNO** **2008-2009**
 VEH_NO **2010-Later**

Attribute Codes

2008- 2009	2010- Later	
0	0	Non-Motorist
1-100	1-999	Assigned Vehicle Number

The above data elements as well as PER_NO are found on all Person-level data files:

P4/NM3 Person Number

Definition: This data element identifies the number assigned to 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 CASENUM data element (and sometimes the VEH_NO data element) to merge information from Person-level data files.

Additional Information: This data element is computer-assigned. Each vehicle occupant 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 1. Numbers are never skipped. Drivers do not have to be coded 1. Non-occupants are identified by vehicle number 0 and are numbered consecutively starting with 1 for each non-motorist. To get drivers see data element PER_TYP, under Person Type.

SAS Name: **PERNO** **2008-2009**
 PER_NO **2010-Later**

Attribute Codes

2008-Later

1-999 Assigned Person Number

The Accident-level data elements above and EVENTNUM are found on the CEVENT, VEVENT and VSOE data files:

C18 Event Number

Definition: Number assigned to each harmful event in a crash, in chronological order.

Additional Information: Prior to 2010 this data element was called "Crash Event Sequence Number."

SAS Name: **EVENTNUM**

Attribute Codes

2008- 2009	2010- Later	
1-100	1-999	Event Number

The Crash-level data elements above, VEH_NO and VEVENTNUM are found on the VEVENT and VSOE data files:

C18 Vehicle Event Number

Definition: This data element identifies the number assigned to each event for this vehicle. The vehicle's event number shows the chronological sequence of the qualifying harmful event involving a particular vehicle. A qualifying event involves an in-transport motor vehicle or an object set in motion by an in-transport motor vehicle.

Additional Information:

SAS Name: **VEVENTNUM**

Attribute Codes

2010-Later	
1-999	Vehicle Event Number

The ACCIDENT Data File

The Accident data file contains the data elements CASENUM, PSU, STRATUM, REGION, ADJUST, AND PJ. CASENUM is the case identifier. It also contains the data elements on the following pages.

C3 Number of Forms Submitted for People Not in Motor Vehicles

Definition: This data element records the number of Person Forms (Not a Motor Vehicle Occupant) that are applicable to this case.

Additional Information: People with a Person Type "03 - 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

2010-Later

0-99 Number of People Not in Motor Vehicles

C3A Number of People Not in Motor Vehicles in-Transport (MVIT)

Definition: This data element records the number of non-motorists involved 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).

SAS Name: NON_INVL 2008-2009
 PERNOTMVIT 2010-Later

Attribute Codes

2008-Later

0-98 Number of People Not in Motor Vehicles in-Transport

C4 Number of Total Motor Vehicles Involved

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

Additional Information: This counts all vehicles in the crash. This includes the vehicles in-transport that are documented in the Vehicle data file and the vehicles not-in-transport that are documented in the Parkwork data file. This data element only appears in the Accident data file.

SAS Name: **VE_TOTAL**

Attribute Codes***2010-Later***

001-999 Number of Vehicles in Crash

C4A Number of Motor Vehicles in-Transport (MVIT) Involved

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

SAS Name: **VEH_INVL** **2008-2009**
 VE_FORMS **2010-Later**

Attribute Codes

2008- 2010-
2009 Later

1-100 1-999 Number of Vehicles

C4B Number of Parked/Working Vehicles Involved

Definition: This data element is derived from the number of records in the Parked Vehicle data file for the crash.

Additional Information: The Parked data file contains records for Parked and Working Vehicles.

In 2008 working vehicles were defined as transport devices being used as equipment that would be classified under ANSI D16.1-1996 as motor vehicles, if not being used as equipment. In 2009 the definition changed to include only vehicles involved in trafficway maintenance, construction, or utility activities. Also, vehicles performing private maintenance, construction, or utility activities were excluded.

SAS Name: **PVH_INVL**

Attribute Codes

2008- 2009	2010- Later	
0-30	0-999	Number of Parked/Working Vehicles in the Crash

C5A Number of People in Motor Vehicles in-Transport (MVIT)

Definition: This data element is derived from the number of records in the Person data file where the person is a driver, passenger or unknown occupant type of a motor vehicle in-transport.

SAS Name: **PERMVIT**

Attribute Codes

2010-Later	
0-999	Number of People in Motor Vehicles In-Transport

C8A Month of Crash

Definition: This data element identifies the month 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***2008-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 |

C8C Day of Week

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

Additional Information: This data element is derived from the SAS Weekday function. The SAS Weekday function returns the day of the week from a date.

SAS Name: **WEEKDAY** 2008
DAY_WEEK 2009-Present

Attribute Codes**2008-Later**

- 1 Sunday
- 2 Monday
- 3 Tuesday
- 4 Wednesday
- 5 Thursday
- 6 Friday
- 7 Saturday
- 9 Unknown

C8D Year of Crash

Definition: This data element identifies the year the crash occurred.

SAS Name: **YEAR**

Attribute Codes**2008-
Later**

xxxx Year of the Crash

C9 Crash Time

C9A Hour of Crash

Definition: This data element identifies the hour the crash occurred.

Additional Information: Military time is used. Noon is coded as "12."

In 2008 midnight was coded as HOUR=24 and MINUTE=0. Starting in 2009 midnight is coded as HOUR=0 and MINUTE=0. For all years, hour is coded 0 for 1 minute after midnight to 59 minutes after midnight.

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

SAS Name: HOUR

Attribute Codes

2008	2009-Later	
0-24	0-23	Hour
99	99	Unknown

C9B Minute of Crash

Definition: This data element identifies the minutes after the hour the crash occurred.

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

SAS Name: MINUTE

Attribute Codes***2008-Later***

0-59	Minute
99	Unknown

C19 First Harmful Event

Definition: This data element is defined as the first injury- or damage-producing event of the crash.

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

SAS Name: **EVENT1** **2008-2009**
HARM_EV **2010-Later**

Attribute Codes

2008	2009	2010- Later	
<i>NON-COLLISION</i>			
1	1	1	Rollover/Overturn
2	2	2	Fire/Explosion
3	3	3	Immersion
4	4	4	Gas Inhalation
5	5	--	Jackknife
--	--	51	Jackknife (Harmful to This Vehicle)
6	6	--	Non-collision Injury (Injured in Vehicle or Fell From Vehicle)
7	7	44	Pavement Surface Irregularity (Ruts, Potholes, Grates, etc.)
8	8	7	Other Non-collision
9	9	--	Non-collision-No Details
10	10	16	Thrown or Falling Object
--	--	6	Injured in Vehicle (Non-Collision)
--	--	72	Cargo/Equipment Loss or Shift (Harmful to This Vehicle)
--	--	5	Fell/Jumped From Vehicle
<i>COLLISION WITH OBJECT NOT FIXED</i>			
21	21	8	Pedestrian
22	--	--	Cycle or Cyclist (Pedalcyclist or Pedalcycle)
--	22	9	Pedalcyclist
23	23	--	Railway Train
--	--	10	Railway Vehicle
24	24	--	Animal
--	--	11	Live Animal
--	--	49	Ridden Animal or Animal-Drawn Conveyance
25	25	--	Motor Vehicle in-Transport
26	26	--	Parked Motor Vehicle (or Other M.V. Not in-Transport)
27	27	--	Other Type Non-Motorist
--	--	15	Non-Motorist on Personal Conveyance
47	--	--	Vehicle Occupant

C19 First Harmful Event (continued)**Attribute Codes**

2008	2009	2010- Later	
28	28	18	Other Object Not Fixed
29	29	--	Object Not Fixed-No Details
--	--	14	Parked Motor Vehicle
--	--	45	Working Motor Vehicle
COLLISION WITH FIXED OBJECT			
31	31	58	Ground
32	32	19	Building
33	33	20	Impact Attenuator/Crash Cushion
34	34	--	Bridge Structure (Bridge Pier/Abutment/Parapet End/Rail)
35	35	--	Guardrail
36	36	--	Concrete Traffic Barrier or Other Longitudinal Barrier Type
--	--	25	Concrete Traffic Barrier
37	37	--	Post, Pole, or Support (Sign Post, Utility Post)
38	38	--	Culvert or Ditch
39	39	33	Curb
40	40	35	Embankment
41	41	38	Fence
42	42	39	Wall
43	43	40	Fire Hydrant
44	44	41	Shrubbery
45	45	--	Tree
--	--	42	Tree (Standing Only)
46	46	17	Boulder
58	58	43	Other Fixed Object
59	59	--	Fixed Object, No Details
--	--	50	Bridge Overhead Structure
--	--	21	Bridge Pier or Support
--	--	23	Bridge Rail (Includes Parapet)
--	--	24	Guardrail Face
--	--	52	Guardrail End
--	--	57	Cable Barrier
--	--	26	Other Traffic Barrier
--	--	59	Traffic Sign Support
--	--	46	Traffic Signal Support
--	--	30	Utility Pole/Light Support
--	--	31	Other Post, Other Pole, or Other Supports
--	--	32	Culvert
--	--	34	Ditch
--	--	48	Snow Bank
--	--	53	Mailbox

Attribute Codes

	2008	2009	2010- Later	
				<i>COLLISION WITH MOTOR VEHICLE IN TRANSPORT</i>
--	--	--	54	Motor Vehicle In-Transport Strikes or Is Struck by Cargo, People or Objects Set-in-Motion From/by Another Motor Vehicle In-Transport
--	--	--	55	Motor Vehicle in Motion Outside the Trafficway
				<i>NOT REPORTED AND UNKNOWN</i>
	99	99	99	Unknown

C20 Manner of Collision

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

SAS Name: **MAN_COL** 2008-2009
MAN_COLL 2010-Later

Attribute Codes

2008- 2009	2010- Later	
0	0	Not Collision With Motor Vehicle in-Transport
1	--	Rear-End
--	1	Front-to-Rear
2	--	Head-On
--	2	Front-to-Front
3	10	Rear-to-Rear
4	6	Angle
5	7	Sideswipe, Same Direction
6	8	Sideswipe, Opposite Direction
--	9	Rear-to-Side
--	11	Other
9	99	Unknown
--	98	Not Reported

C23 Location of First Harmful Event (Relation to Trafficway)

Definition: This data element identifies the attribute that best describes the location of the first harmful event.

Additional Information: Prior to 2009 this data element was called Relation to Roadway.

SAS Name: **REL_RWY** 2008
REL_ROAD 2009
LOC_FHE 2010-LATER

Attribute Codes

2008 2009	2010- Later	
11	01	Residential Driveway
12	02	Residential Garage
14	03	Residential Parking Lot
19	04	Other Residential Area
25	05	Commercial Driveway
15	06	Commercial Parking Lot
20	07	Other Commercial Area
13	08	Parking Garage Structure (Residential or Commercial)
16	10	Parking Lot (Including all parking lots of unknown type)
17	11	Other Private Road (to Including Alleys That Are Not Trafficways)
21	12	Other Developed Area
22	13	Undeveloped Area
--	14	Other Structure (Not Parking Garage)
18	15	Railway
29	16	Unknown Driveway Type
--	98	Not Reported
11	01	Residential Driveway
12	02	Residential Garage
13	08	Parking Garage
14	03	Residential Parking Lot
15	06	Commercial Parking Lot
16	10	Other Parking Lot (Including All Parking Lots of Unknown Type)
17	11	Other Private Road (to Including Alleys That Are Not Trafficways)
18	15	Railway
19	04	Other Residential Area
20	07	Other Commercial Area
21	12	Other Developed Area
22	13	Undeveloped Area
25	05	Commercial Driveway
26	16	Unknown Driveway Type
99	99	Unknown

C27 School Bus Related

Definition: This data element indicates whether a school bus, or motor vehicle functioning as a school bus, was involved in the crash.

Additional Information: The number of school-bus-related crashes may not equal the number of crashes with school buses involved. For example, if a vehicle goes around a stopped school bus and hits a pedestrian, the school bus usually will not be coded, but the crash is school-bus-related.

This data element also appears on the Person data file starting in 2011.

SAS Name: **SCHL_BUS** 2008
SCH_BUS 2009-Later

Attribute Codes

2008- 2009	2010- 2011	2012- Later	
0	0	0	No
1	1	1	Yes
--	8	--	Not Reported

C90 Maximum Injury Severity in Crash

Definition: This data element indicates the most severe injury of all people involved in the crash, and is derived from the injury severity data element in the Person data file.

Additional Information: The following order of severity has been used since 2008.

- 4-Fatal
- 3- Incapacitating
- 2-Non- incapacitating
- 1-Possible Injury
- 5-Injured, Unknown Severity
- 0-No Injury
- 6-Died Prior
- 9-Unknown if Injured
- 8-No Person Involved in the Crash

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

SAS Name: MAX_SEV

Attribute Codes

2008- 2009	2010- 2011	2012- Later	
0	0	--	No Injury
--	--	0	No Apparent Injury
1	1	1	Possible Injury
2	2	--	Non-Incapacitating Injury
--	--	2	Suspected Minor Injury
3	3	--	Incapacitating Injury
--	--	3	Suspected Serious Injury
4	4	4	Fatal
5	5	5	Injured, Severity Unknown
6	6	6	Died Prior to Crash
8	8	8	No Person Involved in the Crash
9	--	--	Unknown if Injured
--	9	9	Unknown if Injured/Not Reported

C91 Number Known Injured in Crash

Definition: This data element is derived by counting all the people with an injury severity of (1, 2, 3, 4, 5, or 9) in a crash.

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

SAS Name: NUM_INJ

Attribute Codes**2008-Later**

- 0 No Person Injured/Property Damage Only Crash
- x Number of Known Injured
- 98 No Person Involved in the Crash
- 99 All People in Crash Are Unknown if Injured.

The VEHICLE Data File

The Vehicle data file includes Vehicle as well as Driver data. It contains the data elements CASENUM, PSU, ADJUST, PJ, and VEH_NO. CASENUM and VEH_NO are the unique identifiers. CASENUM and VEH_NO are the unique identifiers for each record. CASENUM should be used to merge the Vehicle data file with the Accident data file. CASENUM and VEH_NO should be used to merge the Vehicle data file with other vehicle-level data files and the Person data file. The data file also contains:

V4 Number of Occupants

Definition: This data element records the number of occupants in each vehicle.

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

SAS Name: NUMOCCS

Attribute Codes

2008	2009- Later	
0	0	None
1-998	1-95	Number of Occupants Involved
--	96	96 or More
--	97	Not Reported (<i>2010 Only</i>)
999	99	Unknown

V5 Unit Type

Definition: This data element identifies the type of unit that applies to this motor vehicle at the time it was involved 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.

SAS Name: UNITTYPE

Attribute Codes**2010-Later**

- 1 Motor Vehicle in-Transport (*Outside 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: 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: This data element also appears in the Parkwork data file as PHIT_RUN.

SAS Name: HIT_RUN

Attribute Codes

2008- 2009	2010 2011	2012- Later	
0	0	0	No
1	1	1	Yes
--	8	--	Not Reported
9	9	9	Unknown

V9 Vehicle Make

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

Additional Information: See *Appendix A: Vehicle Make/Model Designation* for more detailed information.

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

SAS Name: MAKE

Attribute Codes**2008-Later**

- 1 American Motors
- 2 Jeep/Kaiser Jeep/Willys Jeep
- 3 AM General
- 6 Chrysler
- 7 Dodge
- 8 Imperial
- 9 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 Manufacturers
 - Avanti*
 - Checker*
 - DeSoto*
 - Excalibur*
 - Hudson*
 - Packard*
 - Panoz*
 - Saleen*
 - Studebaker*
 - Stutz*
 - Tesla*
- 30 Volkswagen
- 31 Alfa Romeo
- 32 Audi
- 33 Austin/Austin Healey
- 34 BMW

V9 Vehicle Make (continued)

Attribute Codes**2008-Later**

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	Mini (2002-2007)
65	Smart (2008-Later)
66	Mahindra (2011-2013)
67	Scion (Since 2012)
69	Other Import
	<i>Aston Martin</i>
	<i>Bentley</i>
	<i>Bertone</i>
	<i>Bricklin</i>
	<i>Citroen</i>
	<i>DeLorean</i>
	<i>Desta</i>
	<i>Ferrari</i>
	<i>Gazelle</i>
	<i>Hillman</i>
	<i>Jensen</i>

V9 Vehicle Make (continued)

Attribute Codes**2008-Later**

- 69 Other Import (*continued*)
 - Lada*
 - Lamborghini*
 - Lotus*
 - Mahindra (2013)*
 - Maserati*
 - Maybach*
 - Mini Copper*
 - 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
- 78 Other Make Moped
- 79 Other Make Motored Cycle
- 80 Brockway
- 81 Diamond Reo/Reo
- 82 Freightliner/White
- 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
- 98 Other Make
 - Auto Union/DKW*
 - Carpenter*
 - Collins Bus*

V9 Vehicle Make (continued)

Attribute Codes**2008-Later**

- 69 Other Make (continued)
 - DINA*
 - Divco*
 - Hino*
 - Mid Bus*
 - Neoplan*
 - Orion*
 - Oshkosh*
 - Scania*
 - Sterling*
 - UD*
 - Van Hool*
 - Western Star*
- 70 BSA
- 71 Ducati
- 72 Harley-Davidson
- 73 Kawasaki
- 74 Moto Guzzi
- 75 Norton
- 76 Yamaha
- 78 Other Make Moped
- 79 Other Make Motored Cycle
- 80 Brockway
- 81 Diamond Reo/Reo
- 82 Freightliner/White
- 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
- 98 Other Make
 - Auto Union/DKW*
 - Carpenter*
 - Collins Bus*
 - DINA*
 - Divco*
 - Hino*
 - Mid Bus*

V9 Vehicle Make *(continued)*

Attribute Codes***2008-Later***98 Other Make *(continued)**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 Parkwork data file as PMODEL.

SAS Name: MODEL

Attribute Codes***2008-Later***

See the current NTS 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: Changes to this data element were made in:

- 2010: Attribute 98 (Not Reported) was added.
- 2010: Attribute 95 (Golf Cart) was added.

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

SAS Name: BODY_TYP

Attribute Codes

V11 Body Type (continued)

Attribute Codes

**2008- 2010-
2009 Later** (Exceptions indicated by " * ")

AUTOMOBILES

1	1	Convertible (<i>Excludes Sunroof, T-Bar</i>)
2	2	2-Door Sedan, Hardtop, Coupe
3	3	3-Door/2-Door Hatchback
4	4	4-Door Sedan, Hardtop
5	5	5-Door/4-Door Hatchback
6	6	Station Wagon (<i>Excluding Van- and Truck-Based</i>)
7	7	Hatchback, Number of Doors Unknown
17	17	3-Door Coupe (<i>*Added in 1999</i>)
8	--	Other Automobile Type
--	8	Sedan/Hardtop, Number of Doors Unknown
9	--	Unknown Automobile Type
--	9	Other or Unknown Automobile Type

V11 Body Type (continued)**Attribute Codes****2008- 2010-****2009 Later** (Exceptions indicated by " * ")**AUTOMOBILE DERIVATIVES**

10	10	Auto-Based Pickup (<i>Includes El Camino, Caballero, Ranchero, SSR, G8-ST, Baha, Brat, and Rabbit Pickup</i>)
11	11	Auto-Based Panel (<i>Cargo Station Wagon, Auto-Based Ambulance/Hearse</i>)
12	12	Large Limousine (<i>More Than Four Side Doors or Stretched Chassis</i>)
13	13	3-Wheel Automobile or Automobile Derivative

UTILITY VEHICLES

14	14	Compact Utility (<i>ANSI D-16 Utility Vehicle Categories "Small" and "Midsize"</i>)
15	15	Large Utility (<i>ANSI D-16 Utility Vehicle Categories "Full Size" and "Large"</i>)
16	16	Utility Station Wagon
19	19	Utility Vehicle, Unknown Body Type

VAN-BASED LIGHT TRUCKS (< 4,536 KG GVWR)

20	20	Minivan
21	21	Large Van – Includes Van-Based Buses
22	22	Step Van or Walk-In Van ($\leq 4,536$ Kg GVWR)
23	--	Van-Based Motor-Home
24	--	Van-Based School Bus (<i>*Added in 1993</i>)
25	--	Van-Based Other Bus (<i>*Added in 1993</i>)
28	28	Other Van Type
29	29	Unknown Van Type

LIGHT CONVENTIONAL TRUCKS (PICKUP STYLE CAB, $\leq 4,536$ KG GVWR)

30	30	Compact Pickup (<i>S-10, LUV, Ram 50, Rampage, Courier, Ranger, S-5, Pup, Mazda Pickup, Mitsubishi Truck, Datsun/Nissan Pickup, Arrow Pickup, Scamp, Toyota Pickup, VW Pickup, D50, Colt P/U, T-10, S-15, T-15, Ram 100, Dakota, Sonoma</i>)
31	31	Standard Pickup (<i>C10-C35, Jeep P/U, Comanche, Ram P/U, K10-K35, D100-D350, W100-350, F100-F350, R100-500, R10-R35, V10-35, Silverado, Sierra, T100</i>)
32	32	Pickup With Slide-In Camper
33	33	Convertible Pickup
39	39	Unknown (<i>Pickup Style</i>) Light Conventional Truck

OTHER LIGHT TRUCKS ($\leq 4,536$ KG GVWR)

40	40	Cab-Chassis-Based (<i>Included Rescue Vehicle, Light Stake, Dump, and Tow Truck</i>)
41	41	Truck-Based Panel
45	45	Other Light Conventional Truck Type
48	--	Unknown Other Light-Truck Type (<i>Utility, Van, Pickup, or Other Light Truck</i>)
--	48	Unknown Light-Truck Type (<i>Not a Pickup</i>)
49	49	Unknown Light-Vehicle Type (<i>Automobile, Utility, Van, or Light Truck</i>)

V11 Body Type (continued)**Attribute Codes****2008- 2010-****2009 Later** (Exceptions indicated by " * ")**BUSES (EXCLUDES VAN BASED BUSES WITH A GVWR < = 10,000 LB)**

50	50	School Bus (<i>Designed to Carry Students, Not Cross Country or Transit</i>)
--	51	Cross Country/Intercity Bus (<i>Motor Coach</i>)
--	52	Transit Bus (<i>City Bus</i>)
--	55	Van-Based Bus GVWR > 10,000 lb (<i>*Added in 2011</i>)
58	58	Other Bus Type (e.g., <i>Transit, Intercity, Bus-Based Motor Home</i>)
59	59	Unknown Bus Type

MEDIUM/HEAVY TRUCKS (>4,536 KG GVWR)

60	60	Step Van
--	61	Single-Unit Straight Truck (<i>10,000 lb<GVWR< or =19,500 lb</i>) (<i>2010 Only</i>)
--	61	Single-Unit Straight Truck or Cab-Chassis (<i>10,000 lb<GVWR< or =19,500 lb</i>) (<i>Since 2011</i>)
--	62	Single-Unit Straight Truck (<i>19,500 lb<GVWR< or =26,000 lb</i>) (<i>2010 Only</i>)
--	62	Single-Unit Straight Truck or Cab-Chassis (<i>19,500 lb<GVWR< or =26,000 lb</i>) (<i>Since 2011</i>)
--	63	Single-Unit Straight Truck (<i>GVWR>26,000 lb</i>) (<i>2010 Only</i>)
--	63	Single-Unit Straight Truck or Cab-Chassis (<i>GVWR>26,000 lb</i>) (<i>Since 2011</i>)
64	64	Single-Unit Straight Truck (<i>1992-2010</i>)
--	64	Single-Unit Straight Truck or Cab-Chassis (<i>GVWR unknown</i>) (<i>Since 2011</i>)
66	66	Truck-Tractor (<i>Cab Only, or With Any Number of Trailing Units; Any Weight</i>)
--	67	Medium/Heavy Pickup (<i>GVWR > 10,000 lb, Since 2001</i>)
--	68	Single-Unit Straight Truck (<i>GVWR unknown</i>)
--	71	Unknown if Single-Unit or Combination-Unit Medium Truck (<i>10,000 lb lb < GVWR < 26,000 lb</i>)
--	72	Unknown if Single-Unit or Combination-Unit Heavy Truck (<i>GVWR>26,000 lb</i>)
78	78	Unknown Medium/Heavy Truck Type
79	79	Unknown Truck Type (<i>Light/Medium/Heavy</i>)

MOTOR HOMES

42	42	Light Truck-Based Motor Home (<i>Chassis Mounted</i>)
65	65	Medium/Heavy Truck-Based Motor Home
--	73	Camper or Motor Home, Unknown Truck Type

MOTORED CYCLES, MOPEDS, ALL-TERRAIN VEHICLES

80	80	Motorcycle
81	81	Moped (<i>Motorized Bicycle</i>)
82	82	3-Wheeled Motorcycle or Moped
--	83	Off-Road Motorcycle (<i>2-Wheel</i>)
88	88	Other Motored Cycle Type (<i>Minibike, Motor Scooter, Pocket Motorcycles, Pocket Bikes</i>)
89	89	Unknown Motored Cycle Type
90	90	ATV (<i>All-Terrain Vehicle; Includes 3 or 4 Wheels</i>)

V11 Body Type (continued)

Attribute Codes

**2008- 2010-
2009 Later** (Exceptions indicated by " * ")

OTHER VEHICLES

91	91	Snowmobile
92	92	Farm Equipment Other Than Trucks
93	93	Construction Equipment Other Than Trucks (<i>Includes Graders</i>)
--	94	Low Speed Vehicle (LSV)/Neighborhood Electric Vehicle (NEV) (<i>*Added in 2010</i>)
--	95	Golf Cart (<i>Since 2012</i>)
97	97	Other Vehicle Type (<i>Includes Go-Cart, Forklift, City Street Sweeper, Dune/Swamp Buggy, Golf Cart</i>)
--	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: This data element also appears in the Person data file and in the Parkwork data file as PMODYEAR (PMODEL_YR prior to 2011).

SAS Name: **MODEL_YR** **2008-2009**
 MOD_YEAR **2010-Later**

Attribute Codes

2008- 2009	2010- Later	
--	--	Model Year 1940 and Earlier
xxxx	xxxx	Actual Model Year
--	9998	Not Reported
9999	9999	Unknown

V13 Vehicle Identification Number (VIN)

Definition: This data element records the vehicle identification number 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: If a character of the VIN is missing or undecipherable, that character is blank. In 2008 the first 11 characters of the VIN are used; from 2009 onward the first 12 are used.

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

SAS Name: VIN

Attribute Codes

2008 (character data type, length 11)

2009-Later (character data type, length 12)

2008	2009	2010- Later	
00000000000	000000000000	000000000000	No VIN Required
xxxxxxxxxxx	xxxxxxxxxxxxx	xxxxxxxxxxxxx	First 12 Characters of the VIN
--	--	888888888888	Not Reported
99999999999	999999999999	999999999999	Unknown

V28 Area of Impact- Initial/Most Damaged

V28A Initial Point of Impact

Definition: This data element identifies the first impact point that produced property damage or personal injury (regardless of FIRST or MOST HARMFUL EVENT).

Additional Information: This data element was added to the Vehicle data file in 1990.

This data element also appears in the Person data file and in the Parkwork data file as PIMPACT1 (PIMPACT prior to 2010).

SAS Name: **IMPACT** **2008-2009**
 IMPACT1 **2010-Later**

Attribute Codes**2008-
2009**

- 0 Non-Collision
- 1 Front
- 2 Right Side
- 3 Left Side
- 4 Back
- 5 Top
- 6 Undercarriage
- 11 Front Right Corner
- 12 Front Left Corner
- 13 Back Right Corner
- 14 Back Left Corner
- 15 Object Set in Motion
- 99 Point of Impact Unknown

V28A Initial Contact Point (continued)

Attribute Codes

2010 2011	2012- Later	
0	0	Non-Collision
1-12	1-12	Clock Points
13	13	Top
14	14	Undercarriage
18	--	Set-in-Motion (<i>Not a Clock Point</i>)
--	18	Cargo/Vehicle Parts Set-In-Motion
--	19	Other Objects Set-In-Motion
61	61	Left
62	--	Left-Front Half
--	62	Left-Front Side
63	--	Left-Back Half
--	63	Left-Back Side
81	81	Right
82	--	Right-Front Half
--	82	Right-Front Side
83	--	Right-Back Half
--	83	Right-Back Side
98	98	Not Reported
99	99	Unknown

V29 Extent of Damage

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

Additional Information: Prior to 2009 this data element was called Damage Severity.

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

SAS Name: **VEH_SEV** **2008**
 DEFORMED **2009-Later**

Attribute Codes

-			
2008	2009	2010-	
		Later	
0	0	0	No Damage
1	2	2	Minor Damage
2	--	--	Functional (Moderate)
--	4	4	Functional Damage
3	--	--	Disabling (Severe)
--	6	6	Disabling Damage
--	--	8	Not Reported
9	9	9	Unknown

V30 Vehicle Removal

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

Additional Information: in 2008 only the power unit of an articulated combination was considered, i.e. if only the trailing unit was towed then TOWED=Driven. Starting in 2009 the disposal status of the trailing unit is also considered. In 2008 the data element name was *Manner of Leaving Scene*.

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

SAS Name: TOWED

Attribute Codes

2008	2009	2010- 2011	2012- Later	
1	1	1	--	Driven Away
2	--	--	--	Towed Due to Damage
--	2	2	2	Towed Due to Disabling Damage
3	--	--	--	Towed Not Due to Damage
--	3	3	3	Towed Not Due to Disabling Damage
4	--	--	--	Abandoned
--	4	4	--	Abandoned/Left at Scene
--	--	--	5	Not Towed
--	--	8	8	Not Reported
9	9	9	9	Unknown

V32 Most Harmful Event

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

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

SAS Name: **V_EVENT** 2008-2009
M_HARM 2010-Later

Attribute Codes

2008	2009	2010-Later	
<i>NON-COLLISION</i>			
1	1	1	Rollover/Overturn
2	2	2	Fire/Explosion
3	3	3	Immersion
4	4	4	Gas Inhalation
5	5	--	Jackknife
--	--	51	Jackknife (Harmful to This Vehicle)
6	6	--	Non-Collision Injury (Injured in Vehicle or Fell From Vehicle)
7	7	44	Pavement Surface Irregularity (Ruts, Potholes, Grates, etc.)
8	8	7	Other Non-Collision
9	9	--	Non-Collision-No Details
10	10	16	Thrown or Falling Object
--	--	6	Injured in Vehicle (Non-Collision)
--	--	72	Cargo/Equipment Loss or Shift (Harmful to This Vehicle)
--	--	5	Fell/Jumped From Vehicle
<i>COLLISION WITH OBJECT NOT FIXED</i>			
21	21	8	Pedestrian
22	--	--	Cycle or Cyclist (Pedalcyclist or Pedalcycle)
--	22	9	Pedalcyclist
23	23	--	Railway Train
--	--	10	Railway Vehicle
24	24	--	Animal
--	--	11	Live Animal
--	--	49	Ridden Animal or Animal-Drawn Conveyance
25	25	--	Motor Vehicle in-Transport
26	26	--	Parked Motor Vehicle (or Other M.V. Not in-Transport)
27	27	--	Other Type Non-Motorist
--	--	15	Non-Motorist on Personal Conveyance
47	--	--	Vehicle Occupant

V32 Most Harmful Event (continued)**Attribute Codes**

2008	2009	2010- Later	
28	28	18	Other Object Not Fixed
29	29	--	Object Not Fixed-No Details
--	--	14	Parked Motor Vehicle
--	--	45	Working Motor Vehicle
COLLISION WITH FIXED OBJECT			
31	31	58	Ground
32	32	19	Building
33	33	20	Impact Attenuator/Crash Cushion
34	34	--	Bridge Structure (Bridge Pier/Abutment/Parapet End/Rail)
35	35	--	Guardrail
36	36	--	Concrete Traffic Barrier or Other Longitudinal Barrier Type
--	--	25	Concrete Traffic Barrier
37	37	--	Post, Pole, or Support (Sign Post, Utility Post)
38	38	--	Culvert or Ditch
39	39	33	Curb
40	40	35	Embankment
41	41	38	Fence
42	42	39	Wall
43	43	40	Fire Hydrant
44	44	41	Shrubbery
45	45	--	Tree
--	--	42	Tree (Standing Only)
46	46	17	Boulder
58	58	43	Other Fixed Object
59	59	--	Fixed Object, No Details
--	--	50	Bridge Overhead Structure
--	--	21	Bridge Pier or Support
--	--	23	Bridge Rail (Includes Parapet)
--	--	24	Guardrail Face
--	--	52	Guardrail End
--	--	57	Cable Barrier
--	--	26	Other Traffic Barrier
--	--	59	Traffic Sign Support
--	--	46	Traffic Signal Support
--	--	30	Utility Pole/Light Support
--	--	31	Other Post, Other Pole, or Other Supports
--	--	32	Culvert
--	--	34	Ditch
--	--	48	Snow Bank
--	--	53	Mailbox

V32 Most Harmful Event (continued)

Attribute Codes

				2010- Later	
2008	2009				
<i>COLLISION WITH MOTOR VEHICLE IN TRANSPORT</i>					
--	--	--	12	Motor Vehicle In-Transport	
--	--	--	54	Motor Vehicle In-Transport Strikes or Is Struck by Cargo, People or Objects Set-in-Motion From/by Another Motor Vehicle In-Transport	
--	--	--	55	Motor Vehicle in Motion Outside the Trafficway	
<i>NOT REPORTED AND UNKNOWN</i>					
99	99	99	99	Unknown	

V90 Maximum Injury Severity in Vehicle

Definition: This data element indicates the single most severe injury level reported for any occupant in this vehicle. This data element is derived by comparing the injury severity for each occupant record in this vehicle. The following order of severity codes has been used since 2008.

- 4-Fatal
- 3- Incapacitating
- 2-Non- incapacitating
- 1-Possible Injury
- 5-Injured, Unknown Severity
- 0-No Injury
- 6-Died Prior
- 9-Unknown if Injured
- 8-No Person in the Vehicle

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

SAS Name: MAX_VSEV

Attribute Codes

2008- 2009	2010- 2011	2012- Later	
0	0	--	No Injury
--	--	0	No Apparent Injury
1	1	1	Possible Injury
2	2	--	Non-Incapacitating Injury
--	--	2	Suspected Minor Injury
3	3	--	Incapacitating Injury
--	--	3	Suspected Serious Injury
4	4	4	Fatal
5	5	5	Injured, Severity Unknown
6	6	6	Died Prior to Crash
8	8	8	No Person in Vehicle
9	--	--	Unknown
--	9	9	Unknown if Injured/Not Reported

V91 Number Injured in Vehicle

Definition: This data element is derived by counting all the people with Injury Severity (P9) of (1, 2, 3, 4, 5, or 9) in a vehicle. This count includes fatally injured occupants.

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

SAS Name: NUM_INJV

Attribute Codes**2008-Later**

- | | |
|------|--|
| 0 | No Person Injured in Vehicle |
| 1-97 | Actual Number |
| 98 | No Person in the Vehicle |
| 99 | All People in the Vehicle Are Unknown if Injured |

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***2014-Later***

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

D4 Driver Presence

Definition: This data element indicates whether a driver was present for motor vehicles in-transport.

Additional Information:

SAS Name: DR_PRES

Attribute Codes

2008

- 0 Unattended Vehicle (*Driverless, or No Driver Involved*)
- 1 Driver Operated Vehicle
- 2 Hit-and-Run
- 9 Unknown Driver Presence

2009-Later

- 0 No Driver Present/Not Applicable
- 1 Yes
- 9 Unknown

PC17A Last Movement

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

SAS Name: **LASTMOVE**

Attribute Codes**2008-Later**

00	No Driver Present
01	Going Straight
02	Decelerating
03	Accelerating
04	Starting
05	Stopped
06	Passing or Overtaking Another Vehicle
07	Disabled or "Parked"
08	Leaving a Parking Position With a Forward Motion
09	Entering a Parking Position With a Forward Motion
10	Leaving a Parking Position With a Rearward Motion
11	Entering a Parking Position With a Rearward Motion
12	Turning Right
13	Turning Left
14	Making a U-Turn
15	Backing Up (Other Than for Parking Position)
98	Other (Specify:)
99	Unknown

PC20 Attempted Avoidance Maneuver

Definition: Records 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 to any evasive maneuvers.

Prior to 2010 this data element was called "Corrective Action Attempted."

SAS Name: **P_CRASH3**

Attribute Codes

2008-

Later

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

PC21 Pre-Impact Stability

Definition: Assesses the stability of the vehicle during the period immediately prior to this vehicle's initial involvement in the crash sequence.

Prior to 2010 this data element was called "Precrash Vehicle Control."

SAS Name: **PCRASH4**

Attribute Codes

2008- 2011	2012- Later	
0	--	No Driver Present
--	0	No Driver Present/Unknown if Driver Present
--	--	Vehicle Control Maintained
--	--	Vehicle Rotated (Yawed) Clockwise
--	--	Vehicle Rotated (Yawed) Counter-Clockwise
--	--	Vehicle Slid/Skid Longitudinally-No Rotation
--	--	Vehicle Rotated (Yawed) Unknown Direction
--	--	Combination of 02-09
--	--	More Than Two Vehicles Involved
--	--	Other or Unknown Type of Vehicle Control Was Lost
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

Discontinued VEHICLE Data Elements

Number of Occupants Coded (discontinued)

Definition: The number of occupants coded for this vehicle.

This data element also appeared in the Parkwork data file as POCCINVL.

SAS Name: OCC_INVL

Attribute Codes

2008-

2009

0 None

1-95 Number of Occupants Involved

Most Harmful Event Number (discontinued)

Definition: Indicates the number of the event that caused the most severe property damage or injury for the vehicle.

Additional Information: This data element may be used to identify the specific event in the Event data file.

SAS Name: MHENUM

Attribute Codes

2008-2009

1-xx Event Number

Vehicle Role (discontinued)

Definition: Indicates vehicle role in single or multi-vehicle crashes.

Additional Information: This data element was discontinued in 2010.

SAS Name: VEH_ROLE

Attribute Codes

2008-2009

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

Damage Areas (discontinued)

Definition: This vehicle's specific areas damaged due to impact. The totality of the damage is used when determining the specific areas. Five digits are used to indicate up to five specific areas of damage on the vehicle.

Additional Information: This data element replaced Maximum Damage Area (V17) in 1990.

Five digits are used to indicate up to five specific areas of damage on the vehicle. If there are no records coded for the vehicle, then 99999 is assigned. If any of the records have SAS code 0 (no damage) coded, then 00000 is assigned. If there is a record with SAS code 7, and there is also a record with SAS code 9, then 99999 is assigned. Please note that "Unknowns" has priority over ALL, otherwise the value is set to 70000. If there is a record for all values 1 through 6, then the value is set to 70000 ("ALL" should have been coded instead). If none of the above conditions apply, then an ordered string of the SAS code values between 1 and 6, and the string is padded at the start with 9's if there is a record with SAS code 9, and padded with 0's if not. For example, if the records have SAS codes 3, 1, 5, and 9, then the result would be 99135.

Examples of complete codes are:

0 = No damage

12000 = Front and right damage only

12999 = Front and right damage and unknown if damaged in other areas

This data element was discontinued in 2009.

SAS Name: **DAM_AREA**

Attribute Codes**2008-2009**

- | | |
|---|----------------------|
| 0 | No Damage |
| 1 | Front |
| 2 | Right Side |
| 3 | Left Side |
| 4 | Back |
| 5 | Top |
| 6 | Undercarriage |
| 7 | All Areas Damaged |
| 9 | Unknown Damage Areas |

Driver's Vision Obscured by (discontinued)

Definition: Identifies visual circumstances that may have contributed to the cause of the crash.

Additional Information: Starting in 2009 this type of unknown (Not on PAR, Not Coded) is coded 99. If a driver's vision is obscured by more than one item, the lowest of the attribute codes is chosen.

Several obstructions for a driver are available in the Vision data file (SAS data element MVISOBSC). The Vehicle.VIS_OBSC is rolled up from the Vision data file. If there are no records, then the value 00 is assigned. If there is a single record, then the SAS code for that record is assigned. If there are two or more records, then the minimum SAS code of all the records is assigned.

Starting in 2010, this data element is only available in the Vision data file.

See *Appendix F: Rules for Derived Data Elements* for an expanded explanation of this data element and how it is derived in 2009 and before.

SAS Name: VIS OBSC

Attribute Codes

2008	2009	
0	0	No Obstruction Noted
--	1	Rain, Snow, Fog, Smoke, Sand, Dust
1	--	Rain, Snow, Smoke, Sand, Dust
2	2	Reflected Glare, Bright Sunlight, Headlights
3	--	Curve or Hill
--	3	Curve, Hill, or Other Roadway Design Feature
4	--	Building, Billboard, or Other Design Features (Includes Signs, Embankment)
--	4	Building, Billboard, or Other Structure
5	5	Trees, Crops, Vegetation
6	6	Moving in-Transport Motor Vehicle (Including Load)
7	--	Parked Vehicle
--	7	Not-in-Transport Motor Vehicle (Parked, Working)
8	8	Splash or Spray of Passing Vehicle
9	9	Inadequate Defrost or Defog System
10	10	Inadequate Vehicle Lighting System
11	11	Obstruction Interior to Vehicle

Driver's Vision Obscured by (continued)

12	12	External Mirrors
13		Head Restraints
14	13	Broken or Improperly Cleaned Windshield
--	14	Obstructing Angles on Vehicle
15	--	Fog
50	--	Hit-and-Run Vehicle (and No Information)
93	--	Not on PAR
94	--	Not Coded
95	--	No Driver Present
--	95	No Driver Present/Unknown if Driver Present
97	97	Vision Obscured-No Details
98	98	Other Visual Obstruction
99	99	Unknown Whether Vision Was Obstructed

Driver Distracted by (discontinued)

Definition: Identifies a distraction that may have influenced driver performance and contributed to the cause of the crash. The distraction can be either inside the vehicle (internal) or outside the vehicle (external). If a driver had more than one distraction, the lowest of the attribute codes is chosen.

Additional Information: The Vehicle.DR_DSTRD is rolled up from the Distract data file. If there are no records, then the value 00 is assigned. If there is a single record, then the SAS code for that record is assigned. If there are several records, then the minimum SAS code of all the records is assigned with the exceptions that SAS code 98 has priority over SAS code 92, and all other values have priority over SAS code 0.

Starting in 2010, this data element is only available in the Distract data file.

See *Appendix F: Rules for Derived Data Elements* for an expanded explanation of this data element and how it is derived in 2009 and before.

SAS Name: DR_DSTRD

Attribute Codes

**2008-
2009**

0	Not Distracted
1	Looked but Did Not See
3	By Other Occupants
4	By Moving Object in Vehicle
5	While Talking or Listening to Cellphone
6	While Dialing Cellphone
7	While Adjusting Climate Control
8	While Adjusting Radio, Cassette or CD
9	While Using Other Devices Integral to Vehicle
10	While Using or Reaching for Other Devices
11	Sleepy or Fell Asleep
12	Distracted by Outside Person or Object
13	Eating or Drinking
14	Smoking Related
15	Other Cellphone-Related
50	Hit-and-Run (and No Information)
92	Distraction or Inattention, Details Unknown
93	Not On PAR
94	Not Coded
95	No Driver Present
97	Inattentive or Lost in Thought
98	Other Distraction
99	Unknown if Distracted

Most Damaged Area (discontinued)

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

Additional Information: The striking vehicle, not the vehicle struck, determines 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.

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

SAS Name: **IMPACT2**

Attribute Codes**2010-
Later**

0	Non-Collision
1-12	Clock Points
13	Top
14	Undercarriage
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	Unknown

The PERSON Data File

The Person data file contains the data elements CASENUM, PSU, ADJUST, PJ, VEH_NO, and PER_NO. CASENUM, VEH_NO and PER_NO are the unique identifiers. CASENUM and VEH_NO should be used to merge the Person data file with the Vehicle data file. The Person data file also contains the data elements on the following pages.

In the Person data file, VEH_NO equals 0 for non-motorists (PER_TYPE=4,5,6,7,8,10 or 19) with the exception of occupants of a motor vehicle not-in-transport (PER_TYPE=3) that have valid vehicle numbers.

P5/NM5 Age

Definition: Indicates the person's age at the time of the crash, with respect to the person's last birthday.

Additional Information:

SAS Name: AGE

Attribute Codes

2008	2009	2010- Later	
0	0	0	Less Than 1 Year
1-998	1-120	1-120	Years of Age
--	--	998	Not Reported
999	999	999	Unknown

P6/NM6 Sex

Definition: Indicates the police reported sex for this person.

Additional Information:

SAS Name: **SEX**

Attribute Codes

2008- 2009	2010- Later	
1	1	Male
2	2	Female
--	8	Not Reported
9	9	Unknown

P7/NM7 Person Type

Definition: Indicates the role of the person in the vehicle.

Additional Information: In 2008 a person in or on a working vehicle was coded 7 (Person in or on a Working Vehicle). Starting in 2009 such a person is coded 3 (Occupant of a Motor Vehicle Not-in-Transport).

SAS Name: **PER_TYPE** **2008**
PER_TYP **2009-Later**

Attribute Codes

2008	2009	2010- Later	
<i>MOTORISTS</i>			
1	1	1	Driver of a Motor Vehicle in-Transport
2	2	2	Passenger of a Motor Vehicle in-Transport
9	9	9	Unknown Occupant Type in a Motor Vehicle in-Transport
<i>NON-MOTORISTS-OCCUPANT</i>			
3	3	3	Occupant of a Motor Vehicle Not-in-Transport
4	4	4	Occupant of a Non-Motor-Vehicle Transport Device
<i>NON-MOTORISTS-NON-OCCUPANT</i>			
5	5	5	Pedestrian
6	--	--	Cyclist (Pedalcyclist)
--	6	6	Bicyclist
--	7	7	Other Cyclist
--	8	8	People on Personal Conveyances
--	10	10	People in or on Buildings
7	--	--	Person in or on a Working Vehicle
8	--	--	Other or Unknown Non-Occupant
--	19	19	Unknown Type of Non-Motorist
20	20	20	Skates (Includes Roller, In-Line, etc)
21	21	21	Skateboards (Motorized and Non-Motorized)
22	22	22	Baby Carriage
23	23	23	Scooter (Motorized and Non-Motorized)
24	24	24	Toy Wagons
25	25	25	Motorized Toy Car
26	26	26	Segway-Style Device
27	27	27	Motorized and Non-Motorized Wheelchair
28	28	28	Handicapped Scooter

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: See the Accident data file for C90 Maximum Injury Severity in Crash and the Vehicle data file for V90 Maximum Injury Severity in Vehicle, both of which are derived from this data element.

The definitions for attributes 0, 1, 2 and 3 were revised in 2013 in keeping with the Model Minimum Uniform Crash Criteria, 4th edition.

SAS Name: INJ_SEV

Attribute Codes

2008- 2011	2012- Later	
0	--	No Injury (<i>O</i>)
--	0	No Apparent Injury (<i>O</i>)
1	1	Possible Injury (<i>C</i>)
2	--	Non-Incapacitating Evident Injury (<i>B</i>)
--	2	Suspected Minor Injury (<i>B</i>)
3	--	Incapacitating Injury (<i>A</i>)
--	3	Suspected Serious Injury (<i>A</i>)
4	4	Fatal Injury (<i>K</i>)
5	5	Injured, Severity Unknown (<i>U</i>)
6	6	Died Prior to Crash
7	--	Not Reported (<i>2010 Only</i>)
9	9	Unknown

P9 Seating Position

Definition: Indicates the location of the occupants in the vehicle. More than one person can be assigned the same seat position, however this is coded only when a person is sitting on someone's lap.

Additional Information:

SAS Name: SEAT_POS

Attribute Codes

2008	2009	2010- Later	
0	0	--	Non-Motorist
--	--	0	Not a Motor Vehicle Occupant
11	11	11	Front Seat – Left Side (Driver's Side)
12	12	12	Front Seat – Middle
13	13	13	Front Seat – Right Side
18	18	18	Front Seat – Other
19	19	19	Front Seat – Unknown
21	21	21	Second Seat – Left Side
22	22	22	Second Seat – Middle
23	23	23	Second Seat – Right Side
28	28	28	Second Seat – Other
29	29	29	Second Seat – Unknown
31	31	31	Third Seat – Left Side
32	32	32	Third Seat – Middle
33	33	33	Third Seat – Right Side
38	38	38	Third Seat – Other
39	39	39	Third Seat – Unknown
41	41	41	Fourth Seat – Left Side
42	42	42	Fourth Seat – Middle
43	43	43	Fourth Seat – Right Side
48	48	48	Fourth Seat – Other
49	49	49	Fourth Seat – Unknown
50	50	50	Sleeper Section of Cab (Truck)
51	--	--	Other Passenger in Passenger or Cargo Area
--	51	51	Other Passenger in Enclosed Passenger or Cargo Area
--	52	52	Other Passenger in Unenclosed Passenger or Cargo Area
--	53	53	Other Passenger in Passenger or Cargo Area, Unknown Whether or Not Enclosed
52	54	54	Trailing Unit
53	55	55	Riding on Vehicle Exterior
--	--	98	Not Reported
99	99	99	Unknown

NM4 Number of Vehicle Striking Non-Motorist

Definition: This data element identifies the vehicle that made contact with the non-motorist. The value entered must match the vehicle number of the striking vehicle.

Additional Information:

SAS Name: STR_VEH

Attribute Codes

2008- 2009	2010- Later	
0	0	Occupant of Motor Vehicle
1-30	1-998	Assigned Vehicle Number
--	999	Unknown

NM10 Non-Motorist Location

Definition: Reports the location of non-motorists at the time of impact.

Additional Information: Non-motorists who are occupants of motor vehicles not-in-transport are coded with respect to the location of the vehicle.

SAS Name: **LOCATION** *2010-Present*

Attribute Codes

**2010-
Later**

- | | |
|----|---|
| 1 | Residential Driveway |
| 2 | Residential Garage |
| 3 | Residential Parking Lot |
| 4 | Other Residential Area |
| 5 | Commercial Driveway |
| 6 | Commercial Parking Lot |
| 7 | Other Commercial Area |
| 8 | Parking Garage Structure (Residential or Commercial) |
| 10 | Other Parking Lot (Including All Parking Lots of Unknown Type) |
| 11 | Other Private Road (to Including Alleys That Are Not Trafficways) |
| 12 | Other Developed Area |
| 13 | Undeveloped Area |
| 14 | Other structure (Not Parking Garage) |
| 15 | Railway |
| 16 | Unknown Driveway Type |
| 98 | Not Reported |
| 99 | Unknown Location |

NM26 Pedestrian Motion

Definition: This element is used to describe the motion of pedestrians.

Additional Information: Non-motorists who are occupants of motor vehicles not-in-transport are coded with respect to the location of the vehicle.

SAS Name: **PEDMOTN** *2010-Present*

Attribute Codes

**2010-
Later**

- | | |
|---|-----------------------------------|
| 1 | Not Moving |
| 2 | Walking |
| 3 | Running |
| 4 | Skipping/Hopping/Jumping |
| 5 | Falling/Stumbling/Rising |
| 7 | Not a Pedestrian |
| 8 | Other |
| 9 | Unknown Type of Pedestrian Motion |

NM27 Pedestrian Posture

Definition: This element is used to describe the posture of pedestrians.

Additional Information: Non-motorists who are occupants of motor vehicles not-in-transport are coded with respect to the location of the vehicle.

SAS Name: **PEDPOST** *2010-Present*

Attribute Codes

**2010-
Later**

- | | |
|---|------------------------------------|
| 1 | Standing |
| 2 | Bending at Waist |
| 3 | Sitting |
| 4 | Crouching/Kneeling |
| 7 | Not a Pedestrian |
| 8 | Other |
| 9 | Unknown Type of Pedestrian Posture |

The CEVENT Data File

The Cevent data file includes all harmful events in the crash. It contains the data elements CASENUM, PSU, ADJUST, PJ, and EVENTNUM, which are described in the beginning of the Data Element Definitions and Codes section. CASENUM and EVENTNUM are the unique identifiers for each record. CASENUM 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.

Note that NTS had the Cevent data file in 2008-2009, while the GES had the Event data file.

C17 Vehicle Number (This Vehicle)

Definition: Number assigned to an in-transport motor vehicle involved in the event. This data element is the same as VEH_NO in the Vehicle data file.

Additional Information:

SAS Name: **VEHNUM** *2008-2009*
 VNUMBER1 *2010-Later*

Attribute Codes

<i>2008- 2009</i>	<i>2010- Later</i>	
1-100	1-999	Vehicle Number

C17 Area of Impact (This Vehicle)

Definition: Indicates the impact point that produced property damage or personal injury for this transport motor vehicle involved in the event.

Additional Information:

SAS Name: **GAD** 2008-2009

AOI1 2010-Later

Attribute Codes

**2008-
2009**

- | | |
|----|-------------------------|
| 0 | Non-Collision |
| 1 | Front |
| 2 | Right Side |
| 3 | Left Side |
| 4 | Back |
| 5 | Top |
| 6 | Undercarriage |
| 11 | Front Right Corner |
| 12 | Front Left Corner |
| 13 | Back Right Corner |
| 14 | Back Left Corner |
| 15 | Object Set in Motion |
| 99 | Point of Impact Unknown |

C17 Area of Impact (This Vehicle) (continued)

Attribute Codes

2010- 2011	2012- Later	
0	0	Non-Collision
1-12	1-12	Clock Points
13	13	Top
14	14	Undercarriage
18	--	Set-in-Motion (<i>Not a Clock Point</i>)
--	18	Cargo/Vehicle Parts Set-In-Motion
--	19	Other Objects Set-In-Motion
61	61	Left
62	--	Left-Front Half
--	62	Left-Front Side
63	--	Left-Back Half
--	63	Left-Back Side
81	81	Right
82	--	Right-Front Half
--	82	Right-Front Side
83	--	Right-Back Half
--	83	Right-Back Side
98	98	Not Reported
99	99	Unknown

V31 Sequence of Events

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

Additional Information: Prior to 2009, this data element is called *Non-Collision Category or Object Contacted*. Codes 1-100 are reserved for the Vehicle Number of the contacted vehicle. The remainder of the codes identified the type of non-collision event or the fixed/non-fixed object contacted. In 2010, the vehicle number codes 1-100 are retired. Codes 12, 54 and 55 are used to identify contact with another in-transport motor vehicle and the data element *Vehicle Number (Other Vehicle)* added to record the number of the contacted vehicle.

SAS Name: **OBJCONT** 2008-2009
SOE 2010-Later

Attribute Codes

2008-2009	2010-2011	2012-Later	
1-100	--	--	Vehicle Number of Other Vehicle
101	1	1	Rollover/Overtake
102	2	2	Fire/Explosion
103	3	--	Immersion
--	--	3	Immersion or Partial Immersion
104	4	4	Gas Inhalation
105	--	--	Jackknife
--	51	51	Jackknife (<i>Harmful to This Vehicle</i>)
106	--	--	Non-Collision Injury (<i>Injured in Vehicle, or Fell From Vehicle</i>)
107	44	44	Pavement Surface Irregularity (<i>Ruts, Potholes, Grates, etc.</i>)
108	7	7	Other Non-Collision
109	--	--	Non-Collision-No Details
110	16	16	Thrown or Falling Object
--	6	6	Injured in Vehicle (<i>Non-Collision</i>)
--	--	73	Object Fell From Motor Vehicle in-Transport (<i>Since 2013</i>)
--	5	5	Fell/Jumped From Vehicle
121	8	8	Pedestrian
122	--	--	Cycle or Cyclist (<i>Pedalcyclist or Pedalcycle</i>)

V31 Sequence of Events (continued)**Attribute Codes**

2008- 2009	2010- 2011	2012- Later	
--	9	9	Pedalcyclist
123	--	--	Railway Train
--	10	10	Railway Vehicle
124	--	--	Animal
--	11	11	Live Animal
126	--	--	Parked Motor Vehicle (or Other M.V. Not-in-Transport)
127	--	--	Other Type Non-Motorist
--	15	15	Non-Motorist on Personal Conveyance
128	18	18	Other Object (Not Fixed)
129	--	--	Object Not Fixed-No Details
--	14	14	Parked Motor Vehicle
--	45	45	Working Motor Vehicle
131	58	58	Ground
132	19	19	Building
133	20	20	Impact Attenuator/Crash Cushion
134	--	--	Bridge Structure (Bridge Pier/Abutment/Parapet End/Rail)
135	--	--	Guardrail
136	--	--	Concrete Traffic Barrier or Other Longitudinal Barrier Type
--	25	25	Concrete Traffic Barrier
137	--	--	Post, Pole, or Support (Sign Post, Utility Post)
138	--	--	Culvert or Ditch
139	33	33	Curb
140	35	35	Embankment
141	38	38	Fence
142	39	39	Wall
143	40	40	Fire Hydrant
144	41	41	Shrubbery
145	--	--	Tree
--	42	42	Tree (Standing Only)
146	17	17	Boulder
147	--	--	Vehicle Occupant (2009 Only)
--	49	49	Ridden Animal or Animal-Drawn Conveyance
158	43	43	Other Fixed Object
159	--	--	Fixed Object-No Details

V31 Sequence of Events (continued)

Attribute Codes

2008- 2009	2010 2011	2012- Later	
--	63	63	Ran off Roadway – Right
--	50	50	Bridge Overhead Structure
--	21	21	Bridge Pier or Support
--	23	23	Bridge Rail (<i>Includes Parapet</i>)
--	24	24	Guardrail Face
--	52	52	Guardrail End
--	57	57	Cable Barrier
--	26	26	Other Traffic Barrier
--	59	59	Traffic Sign Support
--	46	46	Traffic Signal Support
--	30	30	Utility Pole/Light Support
--	31	31	Other Post, Other Pole, or Other Supports
--	32	32	Culvert
--	34	34	Ditch
--	48	48	Snow Bank
--	53	53	Mailbox
--	12	12	Motor Vehicle In-Transport
--	54	54	Motor Vehicle In-Transport Strikes or Is Struck by Cargo, People or Objects Set-in-Motion From/by Another Motor Vehicle In-Transport
--	55	55	Motor Vehicle in Motion Outside the Trafficway
--	--	--	Not Reported
999	99	99	Unknown

C18 Vehicle Number (Other Vehicle)

Definition: This data element represents the number assigned to the “other” motor vehicle involved in the event. This data element is the same as VEH_NO in the Vehicle data file.

Additional Information:

SAS Name: **VNUMBER2**

Attribute Codes

2010-Later

1-999	Vehicle Number
9999	Not a Motor Vehicle

C18 Area of Impact (Other Vehicle)

Definition: This data element indicates the impact point for the other in-transport motor vehicle involved in the harmful event.

SAS Name: **OBJGAD** **2008-2009**
 AOI2 **2010-Later**

Attribute Codes**2008-
2009**

- 1 Front
- 2 Right Side
- 3 Left Side
- 4 Back
- 5 Top
- 6 Undercarriage
- 11 Front Right Corner
- 12 Front Left Corner
- 13 Back Right Corner
- 14 Back Left Corner
- 98 Not a Motor Vehicle in-Transport
- 99 Point of Impact Unknown

**2010-
2011 2012-
Later**

- | | | |
|------|------|--|
| 0 | 0 | Non-Collision |
| 1-12 | 1-12 | Clock Points |
| 13 | 13 | Top |
| 14 | 14 | Undercarriage |
| 18 | -- | Set-in-Motion (<i>Not a Clock Point</i>) |
| -- | 18 | Cargo/Vehicle Parts Set-In-Motion |
| -- | 19 | Other Objects Set-In-Motion |
| 61 | 61 | Left |
| 62 | -- | Left-Front Half |
| -- | 62 | Left-Front Side |
| 63 | -- | Left-Back Half |
| -- | 63 | Left-Back Side |
| 77 | 77 | Not a Motor Vehicle |
| 81 | 81 | Right |
| 82 | -- | Right-Front Half |
| -- | 82 | Right-Front Side |
| 83 | -- | Right-Back Half |
| -- | 83 | Right-Back Side |
| 98 | 98 | Not Reported |
| 99 | 99 | Unknown |

Discontinued CEVENT Data Elements

Vehicle's Action (discontinued)

Definition: Describes the action for the event for the vehicle identified by VEHNUM.

Additional Information:

SAS Name: E_ACTION

Attribute Codes

2008-

2009

- | | |
|---|---|
| 1 | Non-Collision |
| 2 | Collision With Object Not Fixed |
| 3 | Collision With Fixed Object |
| 4 | Strike Another In-Transport Motor Vehicle |
| 5 | Struck by an In-Transport Motor Vehicle |

The VEVENT Data File

The Vevent data file contains the data elements CASENUM, PSU, ADJUST, PJ, VEH_NO, EVENTNUM and VEVENTNUM. CASENUM, VEH_NO and VEVENTNUM are the unique identifiers. CASENUM and VEH_NO may be used to merge with the Vehicle data file. The data file also contains:

C17 Vehicle Number (This Vehicle)

Definition: Vehicle number of the in-transport motor vehicle involved in the event. If the event is an impact between two in-transport motor vehicles, this is the vehicle number of the vehicle with the lower vehicle number. If the event is an impact between a vehicle and an object set in motion by another vehicle, this is the number of the vehicle that set the object in motion, even if it is the higher number.

Additional Information: Example:

If Vehicle #1 (V1) struck Vehicle #2 (V2), then we have at least 2 Vevent records.

<u>VEH_NO</u>	<u>EVENTNUM</u>	<u>VNUMBER1</u>	<u>SOE</u>
1	1	1	2
2	1	1	2

The explanation of these 2 records is as follows:

V1 was involved in event 1 where V1 struck V2

V2 was involved in event 1 where V1 struck V2

SAS Name: **VNUMBER1** *2010-Later*

Attribute Codes

**2010-
Later**

1-999 Vehicle Number

C18 Area of Impact (This Vehicle)

Definition: Indicates the impact point that produced property damage or personal injury for this transport motor vehicle involved in the event.

SAS Name: **AOI1** *2010-Later*

Attribute Codes**2010-
Later**

0	Non-Collision
1-12	Clock Points
13	Top
14	Undercarriage
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	Unknown

**2010-
2011****2012-
Later**

0	0	Non-Collision
1-12	1-12	Clock Points
13	13	Top
14	14	Undercarriage
18	--	Set-in-Motion (<i>Not a Clock Point</i>)
--	18	Cargo/Vehicle Parts Set-In-Motion
--	19	Other Objects Set-In-Motion
55	55	Non-Harmful Event
61	61	Left
62	--	Left-Front Half
--	62	Left-Front Side
63	--	Left-Back Half
--	63	Left-Back Side
77	77	Not a Motor Vehicle
81	81	Right
82	--	Right-Front Half
--	82	Right-Front Side
83	--	Right-Back Half
--	83	Right-Back Side
98	98	Not Reported
99	99	Unknown

V31 Sequence of Events

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 they occur, time-wise, from the PAR narrative and diagram.

Additional Information: Prior to 2010, codes 1-100 are reserved for the Vehicle Number of the contacted vehicle. The remainder of the codes identified the type of non-collision event or the fixed/non-fixed object contacted. In 2010, the vehicle number codes 1-100 are retired. Codes 54 and 55 are used to identify contact with another in-transport motor vehicle and the data element *Vehicle Number (Other Vehicle)* added to record the number of the contacted vehicle.

SAS Name: **OBJCONT** **2008-2009**
SOE **2010-Later**

Attribute Codes

2008-2009	2010-2011	2012-Later	
1-100	--	--	Vehicle Number of Other Vehicle
101	1	1	Rollover/Overtake
102	2	2	Fire/Explosion
103	3	--	Immersion
--	--	3	Immersion or Partial Immersion
104	4	4	Gas Inhalation
105	--	--	Jackknife
--	51	51	Jackknife (<i>Harmful to This Vehicle</i>)
106	--	--	Non-Collision Injury (<i>Injured in Vehicle, or Fell From Veh.</i>)
107	44	44	Pavement Surface Irregularity (<i>Ruts, Potholes, Grates, etc.</i>)
108	7	7	Other Non-Collision
109	--	--	Non-Collision-No Details
110	16	16	Thrown or Falling Object
--	6	6	Injured in Vehicle (<i>Non-Collision</i>)
--	--	73	Object Fell From Motor Vehicle In-Transport (<i>Since 2012</i>)
--	5	5	Fell/Jumped From Vehicle
121	8	8	Pedestrian
122	--	--	Cycle or Cyclist (<i>Pedalcyclist or Pedalcycle</i>)

V31 Sequence of Events (continued)**Attribute Codes**

2008- 2009	2010- 2011	2012- Later	
--	9	9	Pedalcyclist
123	--	--	Railway Train
--	10	10	Railway Vehicle
124	--	--	Animal
--	11	11	Live Animal
126	--	--	Parked Motor Vehicle (or Other M.V. Not-in-Transport)
127	--	--	Other Type Non-Motorist
--	15	15	Non-Motorist on Personal Conveyance
128	18	18	Other Object (Not Fixed)
129	--	--	Object Not Fixed-No Details
--	14	14	Parked Motor Vehicle
--	45	45	Working Motor Vehicle
131	58	58	Ground
132	19	19	Building
133	20	20	Impact Attenuator/Crash Cushion
134	--	--	Bridge Structure (Bridge Pier/Abutment/Parapet End/Rail)
135	--	--	Guardrail
136	--	--	Concrete Traffic Barrier or Other Longitudinal Barrier Type
--	25	25	Concrete Traffic Barrier
137	--	--	Post, Pole, or Support (Sign Post, Utility Post)
138	--	--	Culvert or Ditch
139	33	33	Curb
140	35	35	Embankment
141	38	38	Fence
142	39	39	Wall
143	40	40	Fire Hydrant
144	41	41	Shrubbery
145	--	--	Tree
--	42	42	Tree (Standing Only)
146	17	17	Boulder
147	--	--	Vehicle Occupant (2009 Only)
--	49	49	Ridden Animal or Animal-Drawn Conveyance
158	43	43	Other Fixed Object
159	--	--	Fixed Object-No Details

V31 Sequence of Events (continued)

Attribute Codes

2008- 2009	2010 2011	2012- Later	
--	63	63	Ran off Roadway – Right
--	50	50	Bridge Overhead Structure
--	21	21	Bridge Pier or Support
--	23	23	Bridge Rail (<i>Includes Parapet</i>)
--	24	24	Guardrail Face
--	52	52	Guardrail End
--	57	57	Cable Barrier
--	26	26	Other Traffic Barrier
--	59	59	Traffic Sign Support
--	46	46	Traffic Signal Support
--	30	30	Utility Pole/Light Support
--	31	31	Other Post, Other Pole, or Other Supports
--	32	32	Culvert
--	34	34	Ditch
--	48	48	Snow Bank
--	53	53	Mailbox
--	12	12	Motor Vehicle In-Transport
--	54	54	Motor Vehicle In-Transport Strikes or Is Struck by Cargo, People or Objects Set-in-Motion From/by Another Motor Vehicle In-Transport
--	55	55	Motor Vehicle in Motion Outside the Trafficway
--	--	--	Not Reported
999	99	99	Unknown

C18 Vehicle Number (Other Vehicle)

Definition: This data element represents the number assigned to the “other” motor vehicle involved in the event. This data element is the same as VEH_NO in the Vehicle data file.

Additional Information:

SAS Name: **VNUMBER2**

Attribute Codes

2010-Later

1-999	Vehicle Number
5555	Non-Harmful Event
9999	Not a Motor Vehicle

C18 Area of Impact (Other Vehicle)

Definition: Indicates the impact point for the other in-transport motor vehicle involved in the harmful event.

Additional Information:

SAS Name: **AOI2** *2010-Later*

Attribute Codes

2010- 2011	2012- Later	
0	0	Non-Collision
1-12	1-12	Clock Points
13	13	Top
14	14	Undercarriage
18	--	Set-in-Motion (<i>Not a Clock Point</i>)
--	18	Cargo/Vehicle Parts Set-In-Motion
--	19	Other Objects Set-In-Motion
55	55	Non-Harmful Event
61	61	Left
62	--	Left-Front Half
--	62	Left-Front Side
63	--	Left-Back Half
--	63	Left-Back Side
77	77	Not a Motor Vehicle
81	81	Right
82	--	Right-Front Half
--	82	Right-Front Side
83	--	Right-Back Half
--	83	Right-Back Side
98	98	Not Reported
99	99	Unknown

The VSOE Data File

The VSOE data file includes harmful events for each in-transport motor vehicle. It contains the data elements CASENUM, PSU, ADJUST, PJ, VEH_NO, and VEVENTNUM, which are described in the beginning of the Data Element Definitions and Codes section. CASENUM, VEH_NO, and VEVENTNUM are the unique identifiers for each record. CASENUM 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.

C18 Area of Impact Associated with the Event

Definition: Indicates the impact point that produced property damage or personal injury for the transport motor vehicle involved in this event.

Additional Information:

SAS Name: AOI

Attribute Codes

2010- 2011	2012- Later	
00	00	Non-Collision
01-12	01-12	Clock Points
13	13	Top
14	14	Undercarriage
18	--	Set-In-Motion (<i>Not a Clock Point</i>)
--	18	Cargo/Vehicle Parts Set-In-Motion
--	19	Other Objects Set-In-Motion
55	55	Non-Harmful Event
61	61	Left
62	--	Left-Front Half
--	62	Left-Front Side
63	--	Left-Back Half
--	63	Left-Back Side
81	81	Right
82	--	Right-Front Half
--	82	Right-Front Side
83	--	Right-Back Half
--	83	Right-Back Side
98	98	Not Reported
99	99	Unknown

V31 Sequence of Events

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 they occur, time-wise, from the PAR narrative and diagram.

Additional Information:

SAS Name: **SOE**

Attribute Codes

2010- 2011	2012- Later	
1	1	Rollover/Overturn
2	2	Fire/Explosion
3	--	Immersion
--	3	Immersion or Partial Immersion
4	4	Gas Inhalation
51	51	Jackknife (<i>Harmful to This Vehicle</i>)
44	44	Pavement Surface Irregularity (<i>Ruts, Potholes, Grates, etc.</i>)
7	7	Other Non-Collision
16	16	Thrown or Falling Object
6	6	Injured in Vehicle (<i>Non-Collision</i>)
--	73	Object Fell From Motor Vehicle In-Transport (<i>Since 2012</i>)
5	5	Fell/Jumped From Vehicle
8	8	Pedestrian

V31 Sequence of Events (continued)

Attribute Codes

2010- 2011	2012- Later	
9	9	Pedalcyclist
10	10	Railway Vehicle
11	11	Live Animal
15	15	Non-Motorist on Personal Conveyance
18	18	Other Object (<i>Not Fixed</i>)
14	14	Parked Motor Vehicle
45	45	Working Motor Vehicle
58	58	Ground
19	19	Building
20	20	Impact Attenuator/Crash Cushion
25	25	Concrete Traffic Barrier
33	33	Curb
35	35	Embankment
38	38	Fence
39	39	Wall
40	40	Fire Hydrant
41	41	Shrubbery
42	42	Tree (<i>Standing Only</i>)
17	17	Boulder
49	49	Ridden Animal or Animal-Drawn Conveyance
43	43	Other Fixed Object

V31 Sequence of Events (continued)

Attribute Codes**2010
2011****2012-
Later**

63	63	Ran off Roadway – Right
50	50	Bridge Overhead Structure
21	21	Bridge Pier or Support
23	23	Bridge Rail (<i>Includes Parapet</i>)
24	24	Guardrail Face
52	52	Guardrail End
57	57	Cable Barrier
26	26	Other Traffic Barrier
59	59	Traffic Sign Support
46	46	Traffic Signal Support
30	30	Utility Pole/Light Support
31	31	Other Post, Other Pole, or Other Supports
32	32	Culvert
34	34	Ditch
48	48	Snow Bank
53	53	Mailbox
12	12	Motor Vehicle In-Transport
54	54	Motor Vehicle In-Transport Strikes or Is Struck by Cargo, People or Objects Set-in-Motion From/by Another Motor Vehicle In-Transport
55	55	Motor Vehicle in Motion Outside the Trafficway
99	99	Unknown

The VISION Data File

The Vision data file identifies each visual obstruction (as a separate record). It contains the data elements CASENUM, PSU, ADJUST, PJ, and VEH_NO, which are described in the beginning of the Data Element Definitions and Codes section. The data file also contains MVISOBSC that is described below. CASENUM, VEH_NO, and MVISOBSC are the unique identifiers for each record. CASENUM and VEH_NO should be used to merge the Vision data file with the Vehicle data file.

PC14 Driver's Vision Obscured By

Definition: Identifies visual circumstances that may have contributed to the cause of the crash.

SAS Name: **MVISOBSC**

Attribute Codes

2008	2009- Later	
0	0	No Obstruction
--	1	Rain, Snow, Fog, Smoke, Sand, Dust
1	--	Rain, Snow, Smoke, Sand, Dust
2	2	Reflected Glare, Bright Sunlight, Headlights
3	--	Curve or Hill
--	3	Curve, Hill, or Other Roadway Design Feature
4	--	Building, Billboard, or Other Design Features (Includes Signs, Embankment)
--	4	Building, Billboard, or Other Structure
5	5	Trees, Crops, Vegetation
6	6	In-Transport Motor Vehicle (Including Load)
7	--	Parked Vehicle
--	7	Not-in-Transport Motor Vehicle (Parked, Working)
8	8	Splash or Spray of Passing Vehicle
9	9	Inadequate Defrost or Defog System
10	10	Inadequate Vehicle Lighting System
11	11	Obstruction Interior to Vehicle
12	12	External Mirrors
13	--	Head Restraints
14	13	Broken or Improperly Cleaned Windshield
--	14	Obstructing Angles on Vehicle
15	--	Fog
50	--	Hit-and-Run Vehicle (and No Information)
93	--	Not on PAR
94	--	Not Coded
95	--	No Driver Present
--	95	No Driver Present/Unknown if Driver Present
97	97	Vision Obscured – No Details
98	98	Other Visual Obstruction
99	99	99 Unknown Whether Vision Was Obstructed

The DAMAGE Data File

The Damage data file identifies each area of damage (as a separate record). It contains the data elements CASENUM, PSU, PSUSTRAT, STRATUM, REGION, WEIGHT, PJ, and VEH_NO, which are described in the beginning of the Data Element Definitions and Codes section. CASENUM and VEH_NO are the unique identifiers for each record. CASENUM 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 material.

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 CASENUM, PSU, ADJUST, WEIGHT, PJ, and VEH_NO, which are described in the beginning of the Data Element Definitions and Codes section. The data file also contains MDRDSTRD that is described below. CASENUM, VEH_NO, and MDRDSTRD are the unique identifiers for each record. CASENUM and VEH_NO should be used to merge the Distract data file with drivers from the Vehicle data file.

PC16 Driver Distracted By

Definition: Identifies all distractions that may have influenced driver performance and contributed to the cause of the crash. The distraction can be either inside the vehicle (internal) or outside the vehicle (external).

SAS Name: **MDRDSTRD**

Attribute Codes

2008- 2009	2010- Later	
0	0	Not Distracted
1	1	Looked but Did Not See
3	3	By Other Occupants
4	4	By Moving Object in Vehicle
5	5	While Talking or Listening to Cellphone
6	6	While Dialing Cellphone
7	--	While Adjusting Climate Control
--	7	While Adjusting Audio And/or Climate Controls
8	--	While Adjusting Radio, Cassette or CD
9	9	While Using Other Devices/Controls Integral to Vehicle
10	--	While Using or Reaching for Other Devices
--	10	While Using or Reaching for Device/Object Brought Into Vehicle
11	--	Sleepy or Fell Asleep
12	--	Distracted by Outside Person or Object
--	12	Distracted by Outside Person, Object or Event
13	13	Eating or Drinking
14	14	Smoking Related
15	15	Other Cellphone Related
--	16	No Driver Present/Unknown if Driver Present
50	--	Hit-and-Run (and No Information)
92	92	Distraction or Inattention, Details Unknown
93	--	Not On PAR
94	--	Not Coded
95	--	No Driver Present
--	96	Not Reported
97	97	Inattentive or Lost in Thought
98	98	Other Distraction
99	99	Unknown if Distracted

The PARKWORK Data File

The Parkwork data file includes Vehicle data elements applicable to Parked and Working Vehicles. It contains the data elements CASENUM, PSU, ADJUST, and PJ, which are described in the beginning of the Data Element Definitions and Codes section. CASENUM 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 Parked data file in 2010. The element and attribute history provided here includes the original Parked data file that ran from 2008 to 2009.

C4A Number of Vehicles Involved

Definition: The number of vehicles involved in the crash.

Additional Information:

SAS Name: PVE_FORMS

Attribute Codes

2010-Later

1-100 Number of Vehicles

C8 Crash Date

C8A Month of Crash

Definition: The month the crash occurred.

Additional Information:

SAS Name: PMONTH

Attribute Codes

2010-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 |

C9 Crash Time

C9A Hour of Crash

Definition: The hour at which the crash occurred.

Additional Information: Military time is used. Noon is coded as "12."

In 2008 midnight was coded as HOUR=24 and MINUTE=0. Starting in 2009 midnight is coded as HOUR=0 and MINUTE=0. For all years, hour is coded 0 for one minute after midnight to fifty-nine minutes after midnight.

SAS Name: PHOUR

Attribute Codes***2010-Later***

0-23	Hour
99	Unknown

C9B Minute of Crash

Definition: The minutes after the hour at which the crash occurred.

Additional Information:

SAS Name: PMINUTE

Attribute Codes***2010-Later***

0-59	Minute
99	Unknown

C18 First Harmful Event

Definition: Indicates the first property damaging or injury producing event in the crash.

Additional Information:

SAS Name: PHARM_EV

Attribute Codes

2010-Later

- | | |
|----|---|
| 1 | Rollover/Overturn |
| 2 | Fire/Explosion |
| 3 | Immersion |
| 4 | Gas Inhalation |
| 5 | Fell/Jumped From Vehicle |
| 6 | Injured in Vehicle (Non-Collision) |
| 7 | Other Non-Collision |
| 8 | Pedestrian |
| 9 | Pedalcyclist |
| 10 | Railway Vehicle |
| 11 | Live Animal |
| 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 Support |
| 23 | Bridge Rail (Includes Parapet) |
| 24 | Guardrail Face |
| 25 | Concrete Traffic Barrier |
| 26 | Other Traffic Barrier |
| 30 | Utility Pole/Light Support |
| 31 | Other Post, Other Pole, or Other Supports |
| 32 | Culvert |
| 33 | Curb |
| 34 | Ditch |
| 35 | Embankment |
| 38 | Fence |
| 39 | Wall |
| 40 | Fire Hydrant |
| 41 | Shrubbery |
| 42 | Tree (Standing Only) |

C18 First Harmful Event (continued)

Attribute Codes**2010-Later**

- 43 Other Fixed Object
- 44 Pavement Surface Irregularity (Ruts, Potholes, Grates, etc.)
- 45 Working Motor Vehicle
- 46 Traffic Signal Support
- 48 Snow Bank
- 49 Ridden Animal or Animal-Drawn Conveyance
- 50 Bridge Overhead Structure
- 51 Jackknife (Harmful to This Vehicle)
- 52 Guardrail End
- 53 Mailbox
- 54 Motor Vehicle In-Transport Strikes or Is Struck by Cargo, People, or Objects Set-in-Motion From/by Another Motor Vehicle In-Transport
- 55 Motor Vehicle in Motion Outside the Trafficway
- 57 Cable Barrier
- 58 Ground
- 59 Traffic Sign Support
- 72 Cargo/Equipment Loss or Shift (Harmful to This Vehicle)
- 99 Unknown

C20 Manner of Collision

Definition: Indicates the orientation of the vehicles in a collision. If a non-collision, it is classified as such.

Additional Information:

SAS Name: PMAN_COLL

Attribute Codes

2010-Later

- | | |
|----|---|
| 0 | Not Collision With Motor Vehicle in-Transport |
| 1 | Front-to-Rear |
| 2 | Front-to-Front |
| 6 | Angle |
| 7 | Sideswipe, Same Direction |
| 8 | Sideswipe, Opposite Direction |
| 9 | Rear-to-Side |
| 10 | Rear-to-Rear |
| 11 | Other |
| 98 | Not Reported |
| 99 | Unknown |

V4 Number of Occupants

Definition: The number of occupants of this parked/working vehicle.

Additional Information:

SAS Name: PNUMOCCS

Attribute Codes

2008	2009- Later	
0	0	None
1-998	1-95	Number of Occupants Involved
--	96	96 or More
999	99	Unknown

V5 Unit Type

Definition: Indicates the type of parked/working vehicle. A parked vehicle is a motor vehicle that is stopped off the roadway, i.e., parked off the roadway.

Additional Information: In 2008 working vehicles were defined as transport devices being used as equipment that would be classified under ANSI D16.1-1996 as motor vehicles, if not being used as equipment. In 2009 the definition changed to include only vehicles involved in trafficway maintenance, construction, or utility activities. Also, vehicles performing private maintenance, construction, or utility activities were excluded. For example, a tow truck using its winch for a stalled vehicle would be considered a working vehicle prior to 2009, but not after. Data users are strongly advised to consult the annual NTS Coding and Editing Manuals for a detailed discussion.

SAS Name: PTYPE

Attribute Codes

2008-2009

- 1 Parked Vehicle
- 2 Working Vehicle

2010-Later

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

V6 Hit-and-Run

Definition: Hit-and-run is coded when a motor vehicle in-transport or its driver depart 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:

SAS Name: PHIT_RUN

Attribute Codes

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

V9 Vehicle Make

Definition: A numerical code indicating the make of the parked/working vehicle.

Additional Information: See *Appendix A: Vehicle Make/Model Designation* for more detailed information.

SAS Name: **PMAKE**

Attribute Codes

2008-Later

- | | |
|----|------------------------------|
| 1 | American Motors |
| 2 | Jeep/Kaiser Jeep/Willys Jeep |
| 3 | AM General |
| 6 | Chrysler |
| 7 | Dodge |
| 8 | Imperial |
| 9 | 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 (<i>Since 2013</i>) |
| 29 | Other Domestic Manufacturers |
| | <i>Avanti</i> |
| | <i>Checker</i> |
| | <i>DeSoto</i> |
| | <i>Excalibur</i> |
| | <i>Hudson</i> |
| | <i>Packard</i> |
| | <i>Panoz</i> |
| | <i>Saleen</i> |
| | <i>Studebaker</i> |
| | <i>Stutz</i> |
| | <i>Tesla (Since 2014)</i> |
| 30 | Volkswagen |
| 31 | Alfa Romeo |
| 32 | Audi |
| 33 | Austin/Austin-Healey |
| 34 | BMW |
| 35 | Datsun/Nissan |

V9 Vehicle Make (continued)

Attribute Codes**2008-Later**

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	Mini (2002-2007)
65	Smart (2008-Later)
66	Mahindra (2011-2013)
67	Scion (Since 2012)
69	Other Import
	<i>Aston Martin</i>
	<i>Bentley</i>
	<i>Bertone</i>
	<i>Bricklin</i>
	<i>Citroen</i>
	<i>DeLorean</i>
	<i>Desta</i>
	<i>Ferrari</i>
	<i>Gazelle</i>
	<i>Hillman</i>
	<i>Jensen</i>
	<i>Lada</i>

V9 Vehicle Make (continued)

Attribute Codes**2008-Later**

- | | |
|----|-----------------------------------|
| 69 | Other Import (<i>continued</i>) |
| | <i>Lamborghini</i> |
| | <i>Lotus</i> |
| | <i>Maserati</i> |
| | <i>Maybach</i> |
| | <i>Mini Copper</i> |
| | <i>Morgan</i> |
| | <i>Morris</i> |
| | <i>Reliant (British)</i> |
| | <i>Rolls-Royce</i> |
| | <i>Simca</i> |
| | <i>Singer</i> |
| | <i>Spyker</i> |
| | <i>Sunbeam</i> |
| | <i>TVR</i> |
| 70 | BSA |
| 71 | Ducati |
| 72 | Harley-Davidson |
| 73 | Kawasaki |
| 74 | Moto Guzzi |
| 75 | Norton |
| 76 | Yamaha |
| 78 | Other Make Moped |
| 79 | Other Make Motored Cycle |
| 80 | Brockway |
| 81 | Diamond Reo/Reo |
| 82 | Freightliner/White |
| 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 |
| 98 | Other Make |
| | <i>Auto Union/DKW</i> |
| | <i>Carpenter</i> |
| | <i>Collins Bus</i> |
| | <i>DINA</i> |
| | <i>Divco</i> |

V9 Vehicle Make (continued)

Attribute Codes**2008-Later**

- 69 Other Make (continued)
 - Hino*
 - Mid Bus*
 - Neoplan*
 - Orion*
 - Oshkosh*
 - Scania*
 - Sterling*
 - UD*
 - Van Hool*
 - Western Star*
- 70 BSA
- 71 Ducati
- 72 Harley-Davidson
- 73 Kawasaki
- 74 Moto Guzzi
- 75 Norton
- 76 Yamaha
- 78 Other Make Moped
- 79 Other Make Motored Cycle
- 80 Brockway
- 81 Diamond Reo/Reo
- 82 Freightliner/White
- 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
- 98 Other Make
 - Auto Union/DKW*
 - Carpenter*
 - Collins Bus*
 - DINA*
 - Divco*
 - Hino*
 - Mid Bus*
 - Neoplan*
 - Orion*

V9 Vehicle Make (*continued*)

Attribute Codes***2008-Later***

- 98 Other Make (*continued*)
 - Oshkosh*
 - Scania*
 - Sterling*
 - UD*
 - Van Hool*
 - Western Star*
- 99 Unknown Make

V10 Vehicle Model

Definition: A numerical code indicating the model of the parked/working vehicle.

Additional Information:

SAS Name: PMODEL

Attribute Codes

2008-Later

See the current NTS Coding and Validation Manual for vehicle model codes.

V11 Body Type

Definition: The body type of the make of the parked/working vehicle.

Additional Information:

SAS Name: PBODYTYP

Attribute Codes

**2008- 2010-
2009 Later**

AUTOMOBILES

1	1	Convertible (<i>Excludes Sunroof, T-Bar</i>)
2	2	2-Door Sedan, Hardtop, Coupe
3	3	3-Door/2-Door Hatchback
4	4	4-Door Sedan, Hardtop
5	5	5-Door/4-Door Hatchback
6	6	Station Wagon (<i>Excluding Van- and Truck-Based</i>)
7	7	Hatchback, Number of Doors Unknown
17	17	3-Door Coupe
8	--	Other Automobile Type
--	8	Sedan/Hardtop, Number of Doors Unknown
9	--	Unknown Automobile Type
--	9	Other or Unknown Automobile Type

AUTOMOBILE DERIVATIVES

10	10	Auto-Based Pickup (<i>Includes El Camino, Caballero, Ranchero, SSR, G8-ST, Baha, Brat, and Rabbit Pickup</i>)
11	11	Auto-Based Panel (<i>Cargo Station Wagon, Auto-Based Ambulance/Hearse</i>)
12	12	Large Limousine (<i>More Than Four Side Doors or Stretched Chassis</i>)
13	13	3-Wheel Automobile or Automobile Derivative

UTILITY VEHICLES

14	14	Compact Utility (<i>ANSI D-16 Utility Vehicle Categories "Small" and "Midsize"</i>)
15	15	Large Utility (<i>ANSI D-16 Utility Vehicle Categories "Full Size" and "Large"</i>)
16	16	Utility Station Wagon
19	19	Utility Vehicle, Unknown Body Type

VAN-BASED LIGHT TRUCKS (< 4,536 KG GVWR)

20	20	Minivan
21	21	Large Van – Includes Van-Based Buses
22	22	Step Van or Walk-In Van ($\leq 4,536$ Kg GVWR)
23	--	Van-Based Motor-Home
24	--	Van-Based School Bus
25	--	Van-Based Other Bus
28	28	Other Van Type
29	29	Unknown Van Type

V11 Body Type (continued)**Attribute Codes**

**2008- 2010-
2009 Later**

LIGHT CONVENTIONAL TRUCKS (PICKUP STYLE CAB, ≤4,536 KG GVWR)

30	30	Compact Pickup (S-10, LUV, Ram 50, Rampage, Courier, Ranger, S-5, Pup, Mazda Pickup, Mitsubishi Truck, Datsun/Nissan Pickup, Arrow Pickup, Scamp, Toyota Pickup, VW Pickup, D50, Colt P/U, T-10, S-15, T-15, Ram 100, Dakota, Sonoma)
31	31	Standard Pickup (C10-C35, Jeep P/U, Comanche, Ram P/U, K10-K35, D100-D350, W100-350, F100-F350, R100-500, R10-R35, V10-35, Silverado, Sierra, T100)
32	32	Pickup With Slide-In Camper
33	33	Convertible Pickup
39	39	Unknown (Pickup Style) Light Conventional Truck

OTHER LIGHT TRUCKS (≤4,536 KG GVWR)

40	40	Cab Chassis-Based (Included Rescue Vehicle, Light Stake, Dump, and Tow Truck)
41	41	Truck-Based Panel
45	45	Other Light Conventional Truck Type
48	--	Unknown Other Light Truck Type (Utility, Van, Pickup, or Other Light Truck)
--	48	Unknown Light-Truck Type (Not A Pickup)
49	49	Unknown Light-Vehicle Type (Automobile, Utility, Van, or Light Truck)

BUSES (EXCLUDES VAN BASED)

50	50	School Bus (Designed to Carry Students, Not Cross Country or Transit)
--	51	Cross Country/Intercity Bus (Motor Coach)
--	52	Transit Bus (City Bus)
--	55	Van-Based Bus GVWR > 10,000 lb (*Added in 2011)
58	58	Other Bus Type (e.g., Transit, Intercity, Bus-Based Motor Home)
59	59	Unknown Bus Type

MEDIUM/HEAVY TRUCKS (>4,536 KG GVWR)

60	60	Step Van
--	61	Single-Unit Straight Truck (10,000 lb<GVWR< or =19,500 lb) (2010 Only)
--	61	Single-Unit Straight Truck or Cab-Chassis (10,000 lb<GVWR< or =19,500 lb) (Since 2011)
--	62	Single-Unit Straight Truck (19,500 lb<GVWR< or =26,000 lb) (2010 Only)
--	62	Single-Unit Straight Truck or Cab-Chassis (19,500 lb<GVWR< or =26,000 lb) (Since 2011)
--	63	Single-Unit Straight Truck (GVWR>26,000 lb) (2010 Only)
--	63	Single-Unit Straight Truck or Cab-Chassis (GVWR>26,000 lb) (Since 2011)
64	64	Single-Unit Straight Truck (1992-2010)
--	64	Single-Unit Straight Truck or Cab-Chassis (GVWR unknown) (Since 2011)
66	66	Truck-Tractor (Cab Only, or With Any Number of Trailing Units; Any Weight)
--	67	Medium/Heavy Pickup (GVWR > 10,000 lb, Since 2001)
--	68	Single-Unit Straight Truck (GVWR unknown)

V11 Body Type (continued)

Attribute Codes**2008-
2009** **2010-
Later**

--	71	Unknown if Single-Unit or Combination-Unit Medium Truck (10,000 lb < GVWR < 26,000 lb)
--	72	Unknown if Single-Unit or Combination-Unit Heavy Truck (GVWR>26,000 lb)
78	78	Unknown Medium/Heavy Truck Type
79	79	Unknown Truck Type (Light/Medium/Heavy)

MOTOR HOMES

42	42	Light Truck-Based Motor Home (Chassis Mounted)
65	65	Medium/Heavy Truck-Based Motor Home
--	73	Camper or Motor Home, Unknown Truck Type

MOTORED CYCLES, MOPEDS, ALL-TERRAIN VEHICLES

80	80	Motorcycle
81	81	Moped (Motorized Bicycle)
82	82	3-Wheeled Motorcycle or Moped
--	83	Off-Road Motorcycle (2-Wheel)
88	88	Other Motored Cycle Type (Minibike, Motor Scooter, Pocket Motorcycles, Pocket Bikes)
89	89	Unknown Motored Cycle Type
90	90	ATV (All-Terrain Vehicle; Includes 3 or 4 Wheels)

OTHER VEHICLES

91	91	Snowmobile
92	92	Farm Equipment Other Than Trucks
93	93	Construction Equipment Other Than Trucks (Includes Graders)
--	94	Low Speed Vehicle (LSV)/Neighborhood Electric Vehicle (NEV) (*Added in 2011)
--	95	Golf Cart (Since 2012)
97	97	Other Vehicle Type (Includes Go-Cart, Forklift, 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: **PMODELYR** *2010*
 PMODYEAR *2011-Later*

Attribute Codes

2008- 2009	2010- Later	
xxxx	xxxx	Actual Model Year
--	9998	Not Reported
9999	9999	Unknown

V13 Vehicle Identification Number (VIN)

Definition: The vehicle identification number 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: If a character of the VIN is missing or undecipherable, that character is blank. In 2008 the first 11 characters of the VIN are coded; from 2009 onward the first 12 are coded.

SAS Name: **PVIN**

Attribute Codes

2008 (*character data type, length 11*)

2009-Later (*character data type, length 12*)

2008	2009	2010- Later	
00000000000	000000000000	000000000000	No VIN Required
xxxxxxxxxxx	xxxxxxxxxxxxx	xxxxxxxxxxxxx	First 12 Characters of the VIN
--	--	888888888888	Not Reported
99999999999	999999999999	999999999999	Unknown

V28 Area of Impact- Initial/Most Damaged

V28A Initial Point of Impact

Definition: The first impact point for the parked/working vehicle that produced property damage or personal injury.

Additional Information:

SAS Name: **PIMPACT** *2008-2009*
 PIMPACT1 *2010-Later*

Attribute Codes

**2008-
2009**

- No Damage/Non-Collision
- 0 Non-Collision
- 1 Front
- 2 Right Side
- 3 Left Side
- 4 Back
- 5 Top
- 6 Undercarriage
- Corner
- 11 Front Right Corner
- 12 Front Left Corner
- 13 Back Right Corner
- 14 Back Left Corner
- 15 Object Set in Motion
- 99 Point of Impact Unknown

V28A Initial Contact Point (continued)

Attribute Codes

2010 2011	2012- Later	
0	0	Non-Collision
1-12	1-12	Clock Points
13	13	Top
14	14	Undercarriage
18	--	Set-in-Motion (<i>Not a Clock Point</i>)
--	--	Set-in-Motion (<i>Not a Clock Value</i>)
--	18	Cargo/Vehicle Parts Set-In-Motion
--	19	Other Objects Set-In-Motion
61	61	Left
62	--	Left-Front Half
--	62	Left-Front Side
63	--	Left-Back Half
--	63	Left-Back Side
81	81	Right
82	--	Right-Front Half
--	82	Right-Front Side
83	--	Right-Back Half
--	83	Right-Back Side
98	98	Not Reported
99	99	Unknown

V29 Extent of Damage

Definition: Reports the severity of the parked/working vehicle damage.

Additional Information:

SAS Name: PVEH_SEV

Attribute Codes

2008

- | | |
|---|--|
| 0 | None |
| 1 | Minor (<i>and Not Towed Due to Damage</i>) |
| 2 | Moderate |
| 3 | 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: Indicates the disposition of the vehicle at the crash scene.

Additional Information: Prior to 2009 only the power unit of an articulated combination was considered, i.e. if only the trailing unit was towed then PTOWED=Driven. Starting in 2009 the disposal status of the trailing unit is also considered.

SAS Name: PTOWED

Attribute Codes

2008	2009	2010- 2011	2012- Later	
1	1	1	--	Driven Away
2	--	--	--	Towed Due to Damage
--	2	2	2	Towed Due to Disabling Damage
3	--	--	--	Towed Not Due to Damage
--	3	3	3	Towed Not Due to Disabling Damage
4	--	--	--	Abandoned
--	4	4	--	Abandoned/Left at Scene
--	--	--	5	Not Towed
--	--	8	8	Not Reported
9	9	9	9	Unknown

V32 Most Harmful Event

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

Additional Information:

SAS Name: PM_HARM

Attribute Codes

2008	2009	2010- Later	
<i>NON-COLLISION</i>			
1	1	1	Rollover/Overturn
2	2	2	Fire/Explosion
3	3	3	Immersion
4	4	4	Gas Inhalation
5	5	--	Jackknife
--	--	51	Jackknife (Harmful to This Vehicle)
6	6	--	Non-collision Injury (Injured in Vehicle or Fell From Vehicle)
7	7	44	Pavement Surface Irregularity (Ruts, Potholes, Grates, etc.)
8	8	7	Other Non-collision
9	9	--	Non-collision, No Details
10	10	16	Thrown or Falling Object
--	--	6	Injured in Vehicle (Non-Collision)
--	--	72	Cargo/Equipment Loss or Shift (Harmful to This Vehicle)
--	--	5	Fell/Jumped From Vehicle
<i>COLLISION WITH OBJECT NOT FIXED</i>			
21	21	8	Pedestrian
22	--	--	Cycle or Cyclist (Pedalcyclist or Pedalcycle)
--	22	9	Pedalcyclist
23	23	--	Railway Train
--	--	10	Railway Vehicle
24	24	--	Animal
--	--	11	Live Animal
--	--	49	Ridden Animal or Animal-Drawn Conveyance
25	25	--	Motor Vehicle in-Transport
26	26	--	Parked Motor Vehicle (or Other M.V. Not in-Transport)
27	27	--	Other Type Non-Motorist
--	--	15	Non-Motorist on Personal Conveyance
47	--	--	Vehicle Occupant

V32 Most Harmful Event (continued)**Attribute Codes**

2008	2009	2010- Later	
28	28	18	Other Object Not Fixed
29	29	--	Object Not Fixed-No Details
--	--	14	Parked Motor Vehicle
--	--	45	Working Motor Vehicle
COLLISION WITH FIXED OBJECT			
31	31	58	Ground
32	32	19	Building
33	33	20	Impact Attenuator/Crash Cushion
34	34	--	Bridge Structure (Bridge Pier/Abutment/Parapet End/Rail)
35	35	--	Guardrail
36	36	--	Concrete Traffic Barrier or Other Longitudinal Barrier Type
--	--	25	Concrete Traffic Barrier
37	37	--	Post, Pole, or Support (Sign Post, Utility Post)
38	38	--	Culvert or Ditch
39	39	33	Curb
40	40	35	Embankment
41	41	38	Fence
42	42	39	Wall
43	43	40	Fire Hydrant
44	44	41	Shrubbery
45	45	--	Tree
--	--	42	Tree (Standing Only)
46	46	17	Boulder
58	58	43	Other Fixed Object
59	59	--	Fixed Object, No Details
--	--	50	Bridge Overhead Structure
--	--	21	Bridge Pier or Support
--	--	23	Bridge Rail (Includes Parapet)
--	--	24	Guardrail Face
--	--	52	Guardrail End
--	--	57	Cable Barrier
--	--	26	Other Traffic Barrier
--	--	59	Traffic Sign Support
--	--	46	Traffic Signal Support
--	--	30	Utility Pole/Light Support
--	--	31	Other Post, Other Pole, or Other Supports
--	--	32	Culvert
--	--	34	Ditch
--	--	48	Snow Bank
--	--	53	Mailbox

V32 Most Harmful Event (continued)

Attribute Codes

				2010- Later	
2008	2009				
<i>COLLISION WITH MOTOR VEHICLE IN TRANSPORT</i>					
--	--	--	12	Motor Vehicle In-Transport	
--	--	--	54	Motor Vehicle In-Transport Strikes or Is Struck by Cargo, People or Objects Set-in-Motion From/by Another Motor Vehicle In-Transport	
--	--	--	55	Motor Vehicle in Motion Outside the Trafficway	
<i>NOT REPORTED AND UNKNOWN</i>					
99	99	99	99	Unknown	

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: See this data element in the Vehicle data file section for more information.

SAS Name: PMAK_MOD

Attribute Codes***2014-Later***

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

Discontinued PARKWORK Data Elements

Area of Impact- Most Damaged (discontinued)

Definition: This data element identifies the area on the parked/working vehicle that was most damaged during an event it underwent in the crash.

Additional Information: The striking vehicle, not the vehicle struck, determines 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.

SAS Name: **PIMPACT2**

Attribute Codes

2010-

2011

0	Non-Collision
1-12	Clock Points
13	Top
14	Undercarriage
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	Unknown

Discontinued Data Files

The following data file has been discontinued. In some instances, discontinued data files are replaced with new data files. Most replaced data files are not included here. Instead, their element and attribute histories can be found under the new data file that replaced them. For example, the Event data file elements can be found under its successor, the Cevent data file.

The PARKEVNT Data File

The Parkevnt data file contains the data elements CASENUM, PSU, STRATUM, REGION, WEIGHT, and PJ. It also contains the data elements listed below. CASENUM is used to merge with crashes in the Accident data file. To merge with the Event data file, use CASENUM and EVENTNUM. To merge with the Person data file, use CASENUM and PVEHNO.

This data file was discontinued in 2010.

Parked/Working Vehicle Number (discontinued)

Definition: The identification number assigned to the parked/working vehicle.

Additional Information:

SAS Name: PVEHNO

Attribute Codes

2008-Later

1-30 Parked/Working Vehicle Number

Parked/Working Vehicle Event Number (discontinued)

Definition: The number of the event that the parked/working vehicle was involved in.

Additional Information: The Event and Parkevnt data files can be merged by CASENUM and EVENTNUM to get a listing of all events parked/working vehicles were involved in. This listing can identify the specific vehicles involved (in-transport and parked/working) along with the general area of damage for both types of vehicle.

SAS Name: **EVENTNUM**

Attribute Codes

2008-Later

- x Event Number that the parked/working vehicle was involved in

Parked/Working Vehicle Point of Impact (discontinued)

Definition: Indicates the impact point that produced property damage or personal injury for the parked/working vehicle involved in the event.

Additional Information:

SAS Name: PGAD

Attribute Codes

2008-2009

- | | |
|----|-------------------------|
| 1 | Front |
| 2 | Right Side |
| 3 | Left Side |
| 4 | Back |
| 5 | Top |
| 6 | Undercarriage |
| 11 | Front Right Corner |
| 12 | Front Left Corner |
| 13 | Back Right Corner |
| 14 | Back Left Corner |
| 99 | Point of Impact Unknown |

2010-Later

- | | |
|-------|------------------|
| 21-32 | Clock Points |
| 33 | Top |
| 34 | Undercarriage |
| 61 | Left |
| 62 | Left-Front Half |
| 63 | Left-Back Half |
| 81 | Right |
| 82 | Right-Front Half |
| 83 | Right-Back Half |
| 97 | Not Reported |
| 99 | Unknown |

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