

## New in 2010 NASS GES

There were many changes to the 2010 NASS GES, most of which are the result of NHTSA's efforts to standardize variables in the NASS GES and the Fatality Analysis Reporting System (FARS). Additions, deletions, and changes are listed below.

More detailed information on each variable can be found in the NASS GES Coding and Editing Manuals, which NHTSA publishes for each year of data collection. While the 2010 changes are addressed in this Analytical User's Manual, data users should compare the 2009 and 2010 Coding and Editing Manuals for a more thorough understanding. Manuals for 1995 to the present can be found at:

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

### **General changes to 2010 NASS GES are:**

- Non-harmful events are added to the Cevent (formerly the Event) data set.
- A new data set (Vevent) is added which lists the harmful and non-harmful events for each in-transport motor vehicle.
- Pedestrian/bicyclist typing is updated to use the coding procedures in the document "Pedestrian and Bicycle Crash Analysis Tool Version 2.0" (March 2006). The pedestrian/bicyclist typing information is collected for all pedestrians, bicyclists and people on personal conveyances and is in a data set which is new in 2010, Pbtype. In 2009 and before, the pedestrian/bicyclist information is available for the first qualifying person in the crash and is in the Accident data set.
- The data sets Nmprior and Nmcrash are added in 2010; they replace the Nmaction data set and contain information about what people (who are not occupants of motor vehicles) are doing prior to the crash (Nmprior) and any improper actions or contributing circumstances noted on the PAR (Nmcrash).
- The Trafcon data set is retired in 2010. In prior years (2002-2009) the Trafcon data set could contain multiple traffic controls for each in-transport motor vehicle. In 2010, one traffic control is coded per in-transport motor vehicle eliminating the need for the Trafcon data set. The traffic control coded in 2010 is the one which best describes the traffic controls in the vehicle's environment just prior to its critical precrash event.

## 2010 Variables with Changes in Definitions, Attributes or SAS Codes

### Accident:

A06	First Harmful Event EVENT1
A07	Manner of Collision MAN_COL
A09	Relation to Junction REL_JCT1/REL_JCT2
A10	Relation to Trafficway REL_ROAD
A11/V_A11	Trafficway Description DTRAFWAY/VTRAFWAY
A12/V_A12	Total Lanes of Roadway DNUM_LAN/VNUM_LAN
A13/V_A13	Roadway Alignment DALIGN/VALIGN
A14/V_A14	Roadway Grade DPROFILE/VPROFILE
A15/V_A15	Roadway Surface Conditions DSURCOND/VSURCOND
A16/V_A16	Traffic Control Device DTRAFCON/VTRAFCON
A18/V_A18	Speed Limit DSPD_LIM/VSPD_LIM
A19	Light Condition LGHT_CON
A20	Atmospheric Conditions WEATHER/WEATHER1/WEATHER2
A21	School Bus Related SCH_BUS
A25	Work Zone WRK_ZONE

### Cevent/Vevent (only Event in 2009 and prior, modified in 2010):

E03/V24	Areas of Impact (This Vehicle)/ Areas of Impact – Initial GAD/IMPACT1
E03/V38	Areas of Impact (This Vehicle)/ Areas of Impact – Most Damaged GAD/IMPACT2
E04	Non-Collision Category or Object Contacted (Sequence of Events) OBJCONT
E05/V24	Areas of Impact (Other Vehicle) OBJGAD/IMPACT1
E06/VE06	Action E_ACTION

### Vehicle:

V02	Hit and Run HIT_RUN
V03	Vehicle Make MAKE
V04	Vehicle Model MODEL
V05	Body Type BODY_TYP
V06	Vehicle Model Year MODEL_YR
V07	Vehicle Identification Number VIN
V08	Special Use SPEC_USE
V09	Emergency Use EMER_USE
V10B	Number of Occupants NUMOCCS
V18	Extent of Damage DEFORMED
V19	Vehicle Removal TOWED
V20	Most Harmful Event V_EVENT
V31	Vehicle Motor Carrier Identification Number MCARR_ID
V33	Cargo Body Type CARGO_BT
V41	Trafficway Description VTRAFWAY (it was V_A11 in 2009)

### Parked:

PV05	Parked/Working Body Type PBODYTYP
PV06	Parked/Working Vehicle Model Year PMODEL_YR
PV07	Parked/Working Vehicle Identification Number PVIN
PV08	Parked/Working Special Use PSP_USE
PV10	Parked/Working Number of Occupants Coded POCCINVL

PV10B Parked/Working Number of Occupants PNUMOCCS  
PV18 Parked/Working Extent of Damage PVEH\_SEV  
PV19 Parked/Working Vehicle Removal PTOWED  
PV31 Parked/Working Vehicle Motor Carriers Identification Number PCARIDNO  
PV33 Parked/Working Cargo Body Type PCARGTYP  
PV34 Parked/Working Hazardous Materials Placard PHAZPLAC  
PV37 Parked/Working Vehicle Location PREL\_RWY  
PV38 Parked/Working Vehicle Areas of Impact – Most Damaged PIMPACT2

**Person:**

P03 Person Type PER\_TYP  
P04 Seating Position SEAT\_POS  
P06 Ejection EJECTION  
P07 Age AGE  
P08 Sex SEX  
P09 Injury Severity INJ\_SEV  
P10 Transported to Medical Facility By HOSPITAL  
P11A Alcohol Test Status ALCHTEST  
P11B Alcohol Test Type ALTSTYPE  
P11C Alcohol Test Result ALTRSULT P03 Person Type PER\_TYP  
P13 Non-Motorist Location at Time of Crash LOCATN  
P15 Restraint System/Helmet Use REST\_SYS  
P17A Drug Test Status DRUGTEST  
P17B Drug Test Type DRTSTYPE  
P17C Drug Test Result DRTRSULT  
P21 Air Bag Deployed AIR\_BAG

**Safetyeq:**

M\_P20 Non-Motorist Safety Equipment Use MSAFEQMT

**New Variables:**

**Accident:**

A17/V\_A17 Device Functioning DTCONT\_F/VTCONT\_F  
A28 Type of Intersection TYP\_INT

**Vehicle:**

V39 Bus Use BUS\_USE  
V40 Vehicle Configuration V\_CONFIG

**Person:**

P24 Any Indication of Mis-use of Restraint System/Helmet Use REST\_MIS  
P25 Non-Motorist Action/Circumstances Prior to Time of Crash MPR\_ACT  
P26 Non-Motorist Action/Circumstances at Time of Crash MTM\_CRSH

**Parked:**

PV38 Parked/Working Vehicle Areas of Impact – Most Damaged PIMPACT2  
PV40 Parked/Working Vehicle Configuration PV\_CONFIG

**Pbtype (new in 2010):**

PB27	Marked Crosswalk PBCWALK
PB28	Sidewalk Present PBSWALK
PB29	School Zone PBSZONE
PB30	Crash Type (Pedestrian) PEDCTYPE
PB30B	Crash Type (Bicyclist) BIKECTYPE
PB31	Crash Type Location (Pedestrian) PEDLOC
PB31B	Crash Type Location (Bicyclist) BIKELOC
PB32	Pedestrian Position PEDPOS
PB32B	Bicyclist Position BIKEPOS
PB33	Pedestrian Initial Direction of Travel PEDDIR
PB33B	Bicyclist Direction BIKEDIR
PB34	Motorist Direction MOTDIR
PB35	Motorist Maneuver MOTMAN
PB36	Intersection Leg PEDLEG
PB37	Pedestrian Scenario PEDSNR
PB38	Crash Group (Pedestrian) PEDCGP
PB38B	Crash Group (Bicyclist) BIKECGP

**The following are new SAS tables in 2010:**

- Vevent
- Nmprior
- Nmcrash

**Deleted Variables:**

**Accident:**

A24	Pedestrian/Cyclist Crash Type PED_ACC
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**Vehicle:**

V22	Vehicle Role VEH_ROLE
V25	Damaged Areas DAM_AREA
D02	Violations Charged VIOLATN
D04	Driver's Vision Obscured By VIS_OBSC
D06	Driver Maneuvered to Avoid DR_MANAV
D07	Driver Distracted By DR_DSTRD

**Person:**

P18	Condition (Impairment) at the Time of Crash IMPAIRMT
P19	Non-Motorist Action ACTION
P20	Non-Motorist Safety Equipment Use SAF_EQMT

**Nmaction (this table replaced by Nmprior and Nmcrash):**

M_P19	Non-Motorist Action MACTION
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**Trafcon (this table is not available in 2010):**

M_A16	Traffic Control Device MTRAFCON
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## **Other Changes in the 2010 Coding and Editing Manual:**

The following variables have changes to the remarks and/or attribute definitions in 2010.

### **Cevent/Vevent (only **Event** in 2009 and prior, modified in 2010):**

E06/VE06 Action E\_ACTION

### **Vehicle:**

V21 Movement Prior to Critical Event P\_CRASH1

### **Person:**

P03 Person Type PER\_TYP

P13 Non-Motorist Location at Time of Crash LOCATN

P15 Restraint System/Helmet Use REST\_SYS

### **Parked:**

PV05 Parked/Working Body Type PBODYTYP

PV06 Parked/Working Vehicle Model Year PMODEL\_YR

PV07 Parked/Working Vehicle Identification Number PVIN

PV08 Parked/Working Special Use PSP\_USE

PV10 Parked/Working Number of Occupants Coded POCCINVL

PV10B Parked/Working Number of Occupants PNUMOCCS

PV18 Parked/Working Extent of Damage PVEH\_SEV

PV19 Parked/Working Vehicle Removal PTOWED

PV31 Parked/Working Vehicle Motor Carriers Identification Number PCARIDNO

PV33 Parked/Working Cargo Body Type PCARGTYP

PV34 Parked/Working Hazardous Materials Placard PHAZPLAC

PV37 Parked/Working Vehicle Location PREL\_RWY

PV38 Parked/Working Vehicle Areas of Impact – Most Damaged PIMPACT2

PV40 Parked/Working Vehicle Configuration PV\_CONFIG

### **Biketraffic:**

MB\_A16 Traffic Control Device-Cyclist BTRAFCON

## Summary of the SAS Naming Changes in 2010

Locator Code	2009 SAS Name	New 2010 SAS Name	Variable Name
A05	N/A	LAND_USE	Land Use
A09A	REL_JCT	RELJCT1	Relation To Junction -Within Interchange Area?
A09B	REL_JCT	RELJCT2	Relation To Junction -Junction
A11	TRAF_WAY	DTRAFWAY	Trafficway Description
A12	NO_LANES	DNUM_LAN	Total Lanes in Roadway
A13	ALIGNMNT	DALIGN	Roadway Alignment
A14	PROFILE	DPROFILE	Roadway Grade
A15	SUR_COND	DSURCOND	Roadway Surface Condition
A16	TRAF_CON	DTRAFCON	Traffic Control Device
A17	N/A	DTCONT_F	Traffic Control Device Functioning
A18	SP_LIMIT	DSPD_LIM	Speed Limit
A24	PED_ACC	N/A (deleted)	Ped/Cycle Accident Type
A27	N/A	TYP_INT	Type of Intersection
V12	FACTOR	deleted in Vehicle table	Vehicle Contributing Factors (MFACTOR) stored in Factor table
V22	VEH_ROLE	N/A (deleted)	Vehicle Role
V24	IMPACT	IMPACT1	Areas of Impact - Initial Damage Area
V31	CARINDUM	MCARR_ID	Carrier's Identification Number
V39	N/A	BUS_USE	Bus Use
V40	N/A	V_CONFIG	Vehicle Configuration
D02	VIOLATN	deleted in Vehicle table	Violations Charged (MVIOLATN) stored in Violatn table
D04	VIS_OBSC	deleted in Vehicle table	Violations Charged (MVISOBSC) stored in Vision table
D06	DRMAN_AV	deleted in Vehicle table	Driver Maneuvered to Avoid (MDRMANAV) stored in Maneuver table
D07	DR_DSTRD	deleted in Vehicle table	Driver Distracted By (MDRSTRD) stored in Distract table
P18	IMPAIRMT	deleted in Person table	Condition at Time of Crash (MIMPAIR) stored in Impair table
P19	ACTION	deleted in Person table	Non-Motorist Action (changed in 2010)

Locator Code	2009 SAS Name	New 2010 SAS Name	Variable Name
P20	SAF_EQMT	deleted in Person table	Non-Motorist Safety Equipment Use (MSAFEQMT) stored in Safetyeq table
P24	N/A	REST_MIS	Indication of Restraints/Helmet Mis-Use
P25	N/A	MPR_ACT	Non-Motorist Actions/Circumstances At Time of Crash (MPR_ACT) stored in Nmcrash table
P26	N/A	MTM_CRSH	Non-Motorist Actions/Circumstances Prior to Crash (MTM_CRSH) stored in Nmprior table

The variables in RED are new to 2010 NASS GES.  
The variables in BLUE are changed in 2010 NASS GES.