#### HIGHWAY SAFETY INFORMATION SYSTEM GUIDEBOOK FOR THE

#### NORTH CAROLINA STATE DATA FILES

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# Table of Contents

Introduction to the North Carolina HSIS Guidebook
What Has Changed
Roadway File (2018 – 2020)5
Traffic Signal File (2020)6
Interchange File (2021)6
Horizontal Curve File (2018)
Freeway Exit File (2018 – 2020)
Crash File (2018 – 2020)
Unit File (2018 – 2020)
Person File (2018 – 2020)
Using the Files Together
Requesting HSIS Data
Available Data11
Roadway File 19
Traffic Signal File
Interchange File43
Horizontal Curve File
Freeway Exit File53
Crash File55
Unit File
Person File118
Appendix A: History of Revisions124

# Introduction to the North Carolina HSIS Guidebook

The Highway Safety Information System (HSIS), established in 1987, is a foundational highway research data system. The State of North Carolina has participated in the HSIS program since 1990, providing quality data to HSIS for use by researchers through a request system. In 2021, HSIS began a modernization effort with the goal of expanding the technological and analytic capabilities of the data system. This modernization provides an increased emphasis on spatial analysis and cloud-based data management.

#### What Has Changed

This guidebook is intended to support the use of North Carolina HSIS data for the years 2018 and beyond. Data and documentation prior to 2018 (1990-2017) are available upon request to <u>the HSIS Virtual Laboratory</u>. Prior to 2018, the North Carolina datasets included variables for the following files:

- 1. Roadway inventory.
- 2. Accident characteristics.
- 3. Vehicles involved in crashes.
- 4. Vehicle occupants involved in crashes.

The revised North Carolina database incorporated into HSIS contains eight different files:

- 1. Roadway inventory (including traffic information).
- 2. Traffic signal inventory.
- 3. Interchange inventory.
- 4. Horizontal curve inventory.
- 5. Freeway exit inventory.
- 6. Crash characteristics.
- 7. Units involved in crashes.
- 8. Persons involved in the crash.

<u>Appendix A</u> summarizes revisions the <u>HSIS Laboratory</u> made to the variables. In addition to the expanded list of files, there are several key differences between the North Carolina HSIS data prior to 2018:

#### Changes in File Names

Previously, HSIS data included accident, vehicle, and occupant files to describe crashes, the vehicles involved in those crashes, and the occupants of those vehicles. Due to changes in

reported data, HSIS now uses the nomenclature, of Crash, Unit, and Person files to represent these characteristics. Figure 1 illustrates the connection between the previous file naming convention (1990-2017) and the current file naming convention (2018-2020).

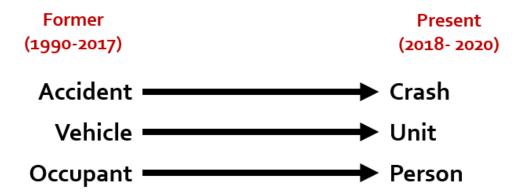


Figure 1. Changes to North Carolina HSIS Data File Naming Convention.

#### Changes in Variable Names

Previous versions of HSIS guidebooks referred to *SAS Name* as the shorthand for the more descriptive names in the HSIS documentation. With the modernization effort and increased emphasis on flexibility, this is now referred to as the *Variable Name*. Furthermore, the descriptive names of variables may have changed in this guidebook compared to previous versions. This may reflect changes in the data or definition of the variable to match updates to North Carolina's data documentation. Please consult the <u>HSIS Virtual Laboratory</u> for information on changes to the data over time.

#### Changes in Available Variables

This guidebook reflects the latest high-quality data available to HSIS and the research community. Variables that were available in previous years and documented in past guidebooks may no longer be available or otherwise discontinued. This guidebook represents data that are available to requestors for the years 2018 to 2020. Please consult past guidebooks or the HSIS Virtual Laboratory for information regarding previously available data.

#### Changes in Variable Linkages

HSIS data are stored in a geographic information systems (GIS) compatible format. Researchers can request data from HSIS in various additional formats such as SAS, Microsoft Excel® and Access®, dBase, ASCII, etc. to meet their analytical and resource capabilities. Figure 2 provides an overview of the structure and relationships linking the eight files. The following sections provide a brief summary of each file.

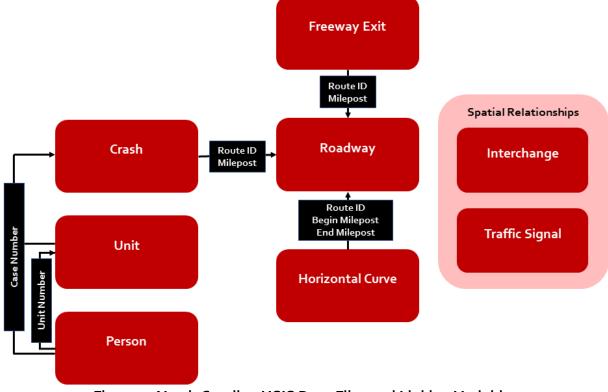


Figure 2. North Carolina HSIS Data Files and Linking Variables.

#### Roadway File (2018 – 2020)

This file contains information about the physical layout of North Carolina's roads and the traffic characteristics associated with "on-system" roads in the State (i.e., State maintained). The file includes variables that describe the surface width, lane width and type, shoulder width and type, median information, and other variables. This file also contains information on traffic volumes represented as annual average daily traffic (AADT).

*Route ID* is the key linking variable between the base roadway inventory and the associated datasets, Crash, Horizontal Curve, and Freeway Exit. This variable is an 11-digit numerical code that documents the route class, route qualifier, inventory code, dominant route number, and county in which the route is located. Figure 3 illustrates the *Route ID* format.

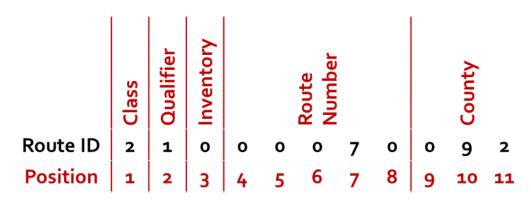


Figure 3. Example of North Carolina's Route ID Naming Convention.

#### Traffic Signal File (2020)

This file provides a spatial inventory of North Carolina Department of Transportation (NCDOT)-owned traffic signals and flashing beacons on North Carolina roads; this inventory does not include locally owned and operated signals. Signal locations do not have a route or a milepost, but they have an associated latitude and longitude. These locations can be spatially associated with all other HSIS inventories.

#### Interchange File (2021)

This file is a statewide polygon GIS data layer where each polygon represents information on an interchange. For this dataset, interchanges were defined as a grade-separated junction of two or more roads where at least one road is fully access-controlled and movements between roads are accomplished through straight and loop ramps. The polygon for each interchange encompasses the broad area of roadway where traffic interactions are reasonably related to the interchange, including all ramps, ramp intersections with cross streets, merging and diverging areas, acceleration and deceleration lanes, and portions of the mainline freeway that are within the general boundaries of the interchange. Each interchange is classified into a general design category, such as diamond or partial cloverleaf. The interchange inventory includes all interchanges in North Carolina, regardless of road ownership.

#### Horizontal Curve File (2018)

This file is a one-time "snapshot" of horizontal curves; that is, it provides information on horizontal curves in 2018. The file is for primary routes only (e.g., routes signed as Interstate, US, or NC). It does not include lower-level State routes (e.g., secondary routes) or any local

routes. NCDOT conducted field data collection with an instrumented vehicle to collect these data in 2018 and the data in the file represent the horizontal curves at that time.

#### Freeway Exit File (2018 – 2020)

This file is a point inventory (that is, each freeway exit is represented by a single point in a spatial dataset) of signed exits on North Carolina freeways.

#### Crash File (2018 – 2020)

Crash data are contained in three separate files. The Crash file contains basic information on the crash. Related information on the vehicles and people involved in each crash are contained in the corresponding Unit File and Person File. Specifically, the Crash File contains information relating to crash-level characteristics and conditions at the time of the crash. When requesting crash data, requestors should be aware of the difference between linkable crashes and non-linkable crashes.

#### Linkable Crashes

The Crash file can be linked to Unit and Person file using the crash report number (*Case Number*). The Crash File can be linked to the Roadway Inventory File using the *Route ID* and *Milepost* variables. Linkable crashes represent data that have been minimally vetted by NCDOT and North Carolina Department of Motor Vehicles (NCDMV) staff, and crash location can be determined to be reasonably reliable.

#### Non-Linkable Crashes

Milepost values are unavailable for a minority of crashes; these crashes cannot be readily linked to the Roadway Inventory file. These crashes have not been located in a post processing, and the only available crash location information is based on information collected by the officer at the scene of the crash. Although there is no simple method for linking these crashes via statistical software, these crashes are included in the HSIS file to help users understand crash characteristic proportions in the broader North Carolina dataset. Furthermore, users could potentially locate these crashes manually through spatial tools using the *From Road* and *Distance from 'FRM\_RD' in Feet/ Distance from 'FRM\_RD' in Miles* fields.

Crash data are collected statewide by all police departments in North Carolina on a standard form as prescribed by State law. The prescribed accident-reporting threshold is currently personal injury or \$1,000 property damage (prior to 1996, the crash-reporting threshold was \$500).

#### Unit File (2018 – 2020)

This file provides information on the vehicles or units involved in crashes on North Carolina roads. This includes motor vehicles, bicyclists, pedestrians, and other users that represent an involved party in a crash. The Unit file can be linked to the Person file through the combination of the *Case Number* and *Unit Number* variables.

#### Person File (2018 – 2020)

This file includes information on all persons involved in a crash, whether injured or not. This file includes standard variables related to seating positions in a vehicle, sex, race, and injury. The injury variable in North Carolina uses the KABCO system, which provides police estimates of injury level. North Carolina adopted the standard "Suspected Serious Injury" definition in September 2016 leading to a change in how serious injuries are reported and counted (and the resulting statistics) on public roads in the State after adoption.

# Using the Files Together

Figure 1 highlighted the linkages between each of the eight North Carolina files. Researchers can use these files together to understand the circumstances, location, and vehicles and individuals involved in a crash. HSIS data can be linked and aggregated using either spatial or tabular relationships. HSIS data follow four different formats; each variable in this guidebook notes the specific format of that variable.

**Numeric:** Numeric values absent of alphabetical or special characters. These can include decimals or whole numbers.

**Coded:** Alphanumerical values that represent fixed value entries; this guidebook is a data dictionary for coded values.

**Text:** Free-form, plain text values that are not represented by coded abbreviations or other shorthand values (e.g., US 17 BUS (ROAD ST.) & CHURCH ST).

**Date:** Values representing date and time; specific formatting is noted in the relevant variable description.

When using the files together, users should note that there are variables of the same name in two different files in some cases. For some of these variables, this is by design so that the files can be linked together. Examples of this include *Case Number* and *Unit Number*. *Case Number* is used to link the Crash file, Unit file, and Person file. *Unit Number* is used to link the Unit file and

Person file. For other variables, duplicated variable names across files are because the same information has been collected twice. For example, *County* is recorded by the reporting officer in the Crash file. It is also a variable in the Roadway file. In these cases, the <u>HSIS Laboratory</u> has compared across these variables and harmonized them to provide consistent information.

#### **Requesting HSIS Data**

Researchers can reference this guidebook to determine variables of interest for their particular research question. This section provides a fictious example research question to demonstrate how the variables can be requested and how the variables can be linked across the files.

A graduate student is interested in exploring signalized intersection crashes involving women in North Carolina. Specifically, they are interested in injury severity at different types of intersections and under different conditions. They are also interested in vehicle age as a surrogate for safety features of the vehicle. This is part one of their study. The graduate student anticipates that they will undertake a part two for the study where they may spatially combine the HSIS data with county-level socio-economic data to explore highway safety for women across the State.

The <u>HSIS Laboratory</u> will work with the student to structure a data request that includes variables that will provide insight into the student's request questions, variables to link the relevant files together, and flexibility to add external data in part two of the study. The following is the structure of their request:

#### **Roadway Variables**

- Route ID (linkable to the Route ID variable in the Crash file).
- Roadway Class.
- Functional Class.
- Median Type.
- Median Width.
- Speed Limit.
- Number of Lanes Total.
- County.

#### **Traffic Signal Variables**

- Signal Type.
- Latitude (necessary for linking the traffic signals to other files in GIS).
- Longitude (necessary for linking the traffic signals to other files in GIS).

#### Crash Variables

- Route ID (linkable to the Route ID variable in the Roadway file).
- Milepost (necessary for linking crashes to the Roadway file in GIS).
- Case Number (linkable to the Case Number variable in the Unit file).
- Crash Date.
- Crash Severity.
- Alcohol/Drugs in Crash.
- First Harmful Event.
- Light Condition.
- Location Type The graduate student requests only the following location types:
  - Four-way intersection (code 7).
  - T-Intersection (code 8).
  - Y-Intersection (code 9).
  - Five-Point, or more (code 11).
  - Related to intersection (code 12).
- Number of Vehicles + Pedestrian + Bike.
- Surface Condition.
- Traffic Control Type (for comparison value to the presence of a signal according to the Traffic Signal Inventory).

#### **Unit Variables**

- Case Number (linkable to the Case Number variable in the Crash file).
- Unit Number (*linkable to the Unit Number variable in the Person file*).
- Driver Restraint.
- Model Year of Vehicle.
- Physical Condition of Driver.
- Vehicle Type.

#### Person Variables

- Case Number (linkable to the Case Number variable in the Crash file).
- Unit Number (linkable to the Unit Number variable in the Unit file).
- Person Age.
- Person Number.
- Person Injury.
- Person Type.

The analyst does not request any information from the Interchange file, the Horizontal Curve file, or the Freeway Exit file. A few things to note about their request:

• There are several variables that are recorded in more than one file. The variable, *County*, is an example; it is in the Roadway file, the Traffic Signal file, and the Crash file.

Since the request involves all three files, the variable is only included once in the Roadway file.

- There are also variables in the student's request that record similar information. For example, the Crash file includes a variable, *Traffic Control Type* that may seem redundant with the Traffic Signal file variable that defined the request as only crashes at signalized intersections. However, these data represent different sources, such as the officer reporting the crash at the scene in the case of the Crash file, and internal NCDOT records in the case of the Traffic Signal file. The student could request both variables to confirm that the signal was operating as a signal at the time of the crash. For example, the signal may have been under human control or in flashing operation during a power outage or similar; the Crash file contains this information in the *Traffic Control Type* variable.
- When merging the files, the student should note that the Crash, Unit, Person, and Roadway files contain different numbers of observations or rows. The Crash file contains one observation per crash (e.g., a unique case number on each row), while the Unit file contains an observation for each vehicle involved in the crash. If more than one vehicle is involved in a crash, there will be more than one row associated with the same *Case Number*. Additionally, the Roadway file contains an observation or row for each road segment. Some segments may have multiple crashes associated with it while others may not have any.

# **Available Data**

Table 1 provides a summary of all variables currently available in HSIS for the eight files. Attributes and fields have evolved since the introduction of North Carolina into the HSIS data system, and users should carefully consider these changes during the data collection research process.

VARIABLE NAME	VARIABLE DESCRIPTION	DATA FILE
ACCESS	ACCESS CONTROL	Roadway
AADT	ANNUAL AVERAGE DAILY TRAFFIC	Roadway
BEGINMP	BEGIN MILEPOST	Roadway
COUNTY	COUNTY	Roadway
TRKROUTE	DESIGNATED TRUCK ROUTE	Roadway
DESIGNSPD	DESIGN SPEED	Roadway

VARIABLE NAME	VARIABLE DESCRIPTION	DATA FILE
ENDMP	ENDING MILEPOST	Roadway
FCLTYTYPE	FACILITY TYPE	Roadway
FUNCCLASS	FUNCTIONAL CLASS	Roadway
DIVISION	HIGHWAY DIVISION ROUTE	Roadway
LANEWIDTH	LANE WIDTH	Roadway
LFTPVDSHLDRWIDTH	LEFT PAVED SHOULDER WIDTH	Roadway
LFTSHLDRTYPE	LEFT SHOULDER TYPE	Roadway
LFTSHLDRWIDTH	LEFT SHOULDER WIDTH	Roadway
MEDIANTYPE	MEDIAN TYPE	Roadway
MEDIANWIDTH	MEDIAN WIDTH - TOTAL	Roadway
MUNPOPGROUP	MUNICIPAL POPULATION GROUP	Roadway
NHS	NATIONAL HIGHWAY SYSTEM	Roadway
THRULANECOUNT	NUMBER OF LANES- TOTAL	Roadway
POSTEDROUTE	POSTED ROUTES	Roadway
ROW	RIGHT OF ROW	Roadway
RTPVDSHLDRWIDTH	RIGHT PAVED SHOULDER WIDTH	Roadway
RTSHLDRTYPE	RIGHT SHOULDER TYPE	Roadway
RTSHLDRWIDTH	RIGHT SHOULDER WIDTH	Roadway
RODWYCLS	ROADWAY CLASS	Roadway
ROUTEID	ROUTE ID	Roadway
ROUTENUMBER	ROUTE INVENTORIED	Roadway
ROUTENAME	ROUTE NAME	Roadway
ROUTECLASS	ROUTE TYPE	Roadway
URBANPOP	RURAL/URBAN DESIGNATED BY POPULATION	Roadway
URBANID	RURAL URBAN IDENTIFICATION	Roadway
MPLENGTH	SECTION LENGTH IN MILES	Roadway
SPEEDLIMIT	SPEED LIMIT	Roadway
STREETNAME	STREET NAME	Roadway
STRUCTURTYPE	STRUCTURE TYPE	Roadway
SRFCTYPE	SURFACE TYPE	Roadway
SRFCWIDTH	SURFACE WIDTH – TOTAL	Roadway
TERRAINTYPE	TERRAIN	Roadway
TOLLCHARGED	TOLL CHARGED	Roadway
MU_PCT	TOTAL PERCENT MULTI UNIT TRUCKS	Roadway
SU_PCT	TOTAL PERCENT SINGLE UNIT TRUCKS	Roadway
TOWNNAME	TOWN	Roadway
TRAVELDIRECTION	TRAVEL DIRECTION	Roadway

HSIS Guidebook – NC

VARIABLE NAME	VARIABLE DESCRIPTION	DATA FILE
IMPRVTYPE	TYPE OF RECENT IMPROVEMENT	Roadway
ADDDATE	YEAR ADDED	Roadway
IMPRVTDATE	YEAR OF RECENT IMPROVEMENT	Roadway
CITY	CITY	Traffic Signal
COUNTY	COUNTY	Traffic Signal
LATITUDE	LATITUDE	Traffic Signal
LOCATION	LOCATION	Traffic Signal
LONGITUDE	LONGITUDE	Traffic Signal
SIGNAL	SIGNAL INVENTORY NUMBER	Traffic Signal
SIGNAL_SYS	SIGNAL SYSTEM NUMBER	Traffic Signal
FLASHER	SIGNAL TYPE	Traffic Signal
SYSTEM_DES	SYSTEM DESCRIPTION	Traffic Signal
SPCE_X	X VALUE OF GIS LOCATION	Traffic Signal
SPCE_Y	Y VALUE OF GIS LOCATION	Traffic Signal
COUNTY	COUNTY	Interchange
INTERCHANG	INTERCHANGE ID	Interchange
LOGICALNAM	INTERCHANGE NAME	Interchange
INTERCHANGE_TYPE	INTERCHANGE TYPE	Interchange
INTERCHANGE_SUBTYPE	INTERCHANGE TYPE NOTES	Interchange
MUNICIPALB	MUNICIPAL BOUNDARY	Interchange
SMOOTHURBA	URBAN AREA	Interchange
BEGINLAT	BEGIN LATITUDE	Horizontal Curve
BEGINLON	BEGIN LONGITUDE	Horizontal Curve
BEGINMP	BEGIN MILEPOST	Horizontal Curve
COUNTY	COUNTY	Horizontal Curve
CURVEID	CURVE ID	Horizontal Curve
DEGREE	DEGREE OF CURVE	Horizontal Curve
ENDLAT	END LATITUDE	Horizontal Curve
ENDLON	END LONGITUDE	Horizontal Curve
ENDMP	END MILEPOST	Horizontal Curve
LENGTHFT	LENGTH	Horizontal Curve
RADIUSFT	RADIUS	Horizontal Curve
ROUTEID	ROUTE ID	Horizontal Curve
ROUTENAME	ROUTE NAME	Horizontal Curve
EXITNAME	EXIT NAME	Freeway Exit
EXITNUMBER	EXIT NUMBER	Freeway Exit
MEASURE	MILEPOST	Freeway Exit

VARIABLE NAME	VARIABLE DESCRIPTION	DATA FILE
ROUTEID	ROUTE ID	Freeway Exit
ACCESS	ACCESS CONTROL	Crash
ALCFLAG	ALCOHOL/DRUGS IN CRASH	Crash
BIKEFLAG	BICYCLE FLAG	Crash
CASENO	CASE NUMBER	Crash
CITY	CITY	Crash
CTY_POP	CITY POPULATION	Crash
COUNTY	COUNTY	Crash
CRASH_DATE	CRASH DATE	Crash
SEVERITY	CRASH SEVERITY	Crash
DEVELOP	DEVELOPMENT AMOUNT	Crash
TO_DIR	DIRECTION TOWARD 'TO_RD'	Crash
REFDISFT	DISTANCE FROM 'FRM_RD' IN FEET	Crash
REFDISMI	DISTANCE FROM 'FRM_RD' IN MILES	Crash
ACCTYPE	FIRST HARMFUL EVENT	Crash
FRM_RD	FROM ROAD	Crash
FRMRD_CL	FROM ROAD CLASS	Crash
LIGHT	LIGHT CONDITION	Crash
LOCALITY	LOCALITY	Crash
LOC_TYPE	LOCATION TYPE	Crash
MILEPOST	MILEPOST	Crash
MOSTHARM	MOST HARMFUL EVENT	Crash
NONMTCNT	NON-MOTORIST COUNT	Crash
NON_REP	NON-REPORTABLE	Crash
NBR_LANE	NUMBER OF LANES (CRASH REPORT)	Crash
NUM_UNIT	NUMBER OF VEHICLE + PEDESTRIAN + BIKE	Crash
PEDFLAG	PEDESTRIAN FLAG	Crash
RRX_NUM	RAILROAD CROSSING NUMBER	Crash
RMP_SVRD	RAMP OR SERVICE ROAD	Crash
REL_RD	RELATION TO ROADWAY	Crash
REPORT	REPORTABLE STATUS	Crash
RD_CHAR	ROAD CHARACTER	Crash
RODWYCLS	ROADWAY CLASS	Crash
RD_CONF	ROAD CONFIGURATION	Crash
RD_PAVE	ROAD SURFACE TYPE	Crash
ROADCONT1	ROADWAY CONTRIBUTING CIRCUMSTANCE 1	Crash
ROADCONT <sub>2</sub>	ROADWAY CONTRIBUTING CIRCUMSTANCE 2	Crash

VARIABLE NAME	VARIABLE DESCRIPTION	DATA FILE
ROUTEID	ROUTE ID	Crash
RTE_NBR	ROUTE NUMBER	Crash
RURURB	RURAL-URBAN IDENTIFICATION	Crash
RDSURF	SURFACE CONDITION	Crash
TIME	TIME OF DAY (24 HOUR)	Crash
TO_RD	TOWARD ROAD	Crash
TORD_CL	TOWARD ROAD CLASS	Crash
PROPDAM	TOTAL PROPERTY DAMAGE	Crash
TRF_OPER	TRAFFIC CONTROL OPERATING	Crash
TRF_CNTL	TRAFFIC CONTROL TYPE	Crash
WEATHER1	WEATHER CONDITION 1	Crash
WEATHER2	WEATHER CONDITION 2	Crash
WETHCONT	WEATHER CONTRIBUTED TO ACCIDENT	Crash
WZ_ACT	WORK ZONE ACTIVITY	Crash
WZ_AREA	WORK ZONE AREA	Crash
WZ_LOC	WORK ZONE CRASH LOCATION	Crash
WORKZONE	WORK ZONE MARKED	Crash
HAZ_NUM1	1 DIGIT HAZMAT NUMBER BOTTOM PLACARD	Unit
HAZ_NUM4	4 DIGIT HAZMAT NUMBER BOTTOM PLACARD	Unit
ALCFLAG	ALCOHOL FLAG	Unit
AMTDAMG	AMOUNT DAMAGE TO VEHICLE	Unit
BIKEFLAG	BICYCLE FLAG	Unit
BODY	CARGO BODY TYPE	Unit
INFO_SRC_IND	CARGO CARRIER INFORMATION	Unit
CASENO	CASE NUMBER	Unit
CDL_IND	CDL INDICATOR	Unit
SOB_TEST	CHEMICAL TEST GIVEN	Unit
CCB_STAT	COMMERCIAL CARRIER BUSINESS STATE	Unit
CC_CITY	COMMERCIAL CARRIER CITY	Unit
GVWR_WGT	COMMERCIAL CARRIER GROSS VEHCILE WEIGHT	Unit
AXLE_NBR	COMMERCIAL CARRIER NUMBER OF AXELS	Unit
CC_ZIP	COMMERCIAL CARRIER ZIP CODE	Unit
PEDCONT1	CONTIBUTING CIRCUMSTANCES, NON- MOTORIST 1	Unit
PEDCONT <sub>2</sub>	CONTRIBUTING CIRCUMSTANCES, NON- MOTORIST 2	Unit
DIR_TRVL	DIRECT TRAVEL ON ROUTE	Unit

VARIABLE NAME	VARIABLE DESCRIPTION	DATA FILE
RD2OBJST	DISTANCE TO OBJECT STRUCK	Unit
IMPACTFT	DISTANCE TRAVEL AFTER IMPACT	Unit
DRG_SUSP	DRIVER ALCOHOL/DRUG SUSPECTED	Unit
DRG_RES	DRIVER ALCOHOL/DRUG TEST RESULT	Unit
DRV_BAC	DRIVER BLOOD ALCOHOL PERCENTAGE	Unit
DRV_CITY	DRIVER CITY	Unit
LIC_IND	DRIVER LICENSE INDICATOR	Unit
DRV_AGE	DRIVER/PEDESTRIAN AGE	Unit
DRV_INJ	DRIVER/PEDESTRIAN INJURY	Unit
DRV_RACE	DRIVER/PEDESTRIAN RACE	Unit
DRV_SEAT	DRIVER/PEDESTRIAN SEAT POSITION	Unit
DRV_SEX	DRIVER/PEDESTRIAN SEX	Unit
DRV_REST	DRIVER RESTRAINT	Unit
DRV_ZIP	DRIVER ZIP CODE	Unit
EMERGUSE	EMERGENCY VEHICLE USE	Unit
TRVL_SPD	ESTIMATED ORIGINAL SPEED	Unit
GOV_OWN	GOVERNMENT OWNED VEHICLE INDICATOR	Unit
HAZMAT	HAZARDOUS CARGO	Unit
IMPACTSP	IMPACT SPEED	Unit
PARK_VEH	INDICATOR OF PARKED VEHICLE	Unit
INSURED	INSURANCE INDICATOR	Unit
LENGTRL	LENGTH OF TRAILER #1 IN FEET	Unit
LENGTRL2	LENGTH OF TRAINER #2 FEET	Unit
LIC_STAT	LICENSE STATE	Unit
VEHYR	MODEL YEAR OF VEHICLE	Unit
MOSTHARM	MOST HARMFUL EVENT	Unit
PEDACT	NON-MOTORIST ACTION	Unit
PED_LOC	NON-MOTORIST LOCATION PRIOR TO CRASH	Unit
AXLES	NUMBER OF AXLES FOR TRL #1	Unit
AXLES <sub>2</sub>	NUMBER OF AXLES FOR TRL #2	Unit
ON_RD	ON ROAD	Unit
ONRD_CL	ON ROAD CLASS	Unit
PEDFLAG	PEDESTRIAN FLAG	Unit
PHYSCOND	PHYSICAL CONDITION OF DRIVER	Unit
PTCONT1	POINT OF CONTACT #1	Unit
PTCONT <sub>2</sub>	POINT OF CONTACT #2	Unit
PTCONT <sub>3</sub>	POINT OF CONTACT #3	Unit

VARIABLE NAME	VARIABLE DESCRIPTION	DATA FILE
PTCONT4	POINT OF CONTACT #4	Unit
PTCONT <sub>5</sub>	POINT OF CONTACT #5	Unit
FIRE	POST-CRASH FIRE	Unit
SPDLIM	POSTED SPEED LIMIT	Unit
LICRESTR	RESTRICTION ON DRIVER LICENSE	Unit
SCH_BUS1	SCHOOL BUS CONTACT VEHICLE	Unit
SCH_BUS <sub>2</sub>	SCHOOL BUS NON-CONTACT VEHICLE	Unit
EVENT1	SEQUENCE OF EVENTS 1	Unit
EVENT2	SEQUENCE OF EVENTS 2	Unit
EVENT <sub>3</sub>	SEQUENCE OF EVENTS 3	Unit
EVENT4	SEQUENCE OF EVENTS 4	Unit
V_DAMAGE	TAD #1 (AREA OF DAMAGE) LOCATION	Unit
V_DAMAGE2	TAD #2 LOCATION	Unit
V_DAMAGE3	TAD #3 LOCATION	Unit
DAMSEV	TAD #1 SEVERITY	Unit
DAMSEV2	TAD #2 SEVERITY	Unit
DAMSEV <sub>3</sub>	TAD #3 SEVERITY	Unit
TIRESKID	TIRE IMPRESSIONS IN FEET	Unit
OCPNT_CNT	TOTAL OCCUPANTS IN VEHICLE	Unit
TRL_TYPE	TRAILER TYPE	Unit
UNIT_NBR	UNIT NUMBER	Unit
UNIT_TYP	UNIT TYPE	Unit
VEH_DEF	VEHICLE DEFECTS	Unit
DRIVABLE	VEHICLE DRIVABLE	Unit
MAKENAME	VEHICLE MAKE	Unit
MANEUVER	VEHICLE MANEUVER/PEDESTRIAN ACTION	Unit
OWN_CITY	VEHICLE OWNER CITY	Unit
OWN_ZIP	VEHICLE OWNER ZIP CODE	Unit
VEH_SEIZ	VEHICLE SEIZURE DWI	Unit
VEHTYPE	VEHICLE TYPE	Unit
UNDEROVR	VEHICLE UNDERRIDE/OVERRIDE	Unit
CONTRIB1	VIOLATING/CONTRIBUTING FACTOR #1	Unit
CONTRIB2	VIOLATING/CONTRIBUTING FACTOR #2	Unit
CONTRIB <sub>3</sub>	VIOLATING/CONTRIBUTING FACTOR #3	Unit
VISION	VISION OBSTRUCTION	Unit
WIDTRL	WIDTH OF TRAILER #1	Unit
WIDTRL2	WIDTH OF TRAILER #2	Unit

VARIABLE NAME	VARIABLE DESCRIPTION	DATA FILE
AIRDEPL	AIRBAG DEPOLYED	Person
AIR_SW	AIRBAG SWITCH STATUS	Person
CASENO	CASE NUMBER	Person
EJECT	EJECTION	Person
EMS_DES	EMERGENCY MEDICAL SERVICE	Person
RACE	OCCUPANT RACE	Person
REST1	OCCUPANT RESTRAINT	Person
SEX	OCCUPANT SEX	Person
AGE	PERSON AGE	Person
PRSN_CTY	PERSON CITY	Person
INJ	PERSON INJURY	Person
PRSN_NBR	PERSON NUMBER	Person
PRSN_TYP	PERSON TYPE	Person
PRSN_ZIP	PERSON ZIP CODE	Person
SEATPOS	SEATING POSITION	Person
TRAPPED	TRAPPED	Person
TRT_FAC	TREATMENT FACILITY NAME	Person
TRTMT_CITY_ADR	TREATMENT CITY NAME	Person
UNT_NBR	UNIT NUMBER	Person

# **Access Control**

*Definition*: Indicates some degree of control of through movements to a road. Null indicates that the road does not have any degree of access control (e.g., Partial).

Field Type: Text.

'Null'	The road does not have any degree of access control.
'Partial'	The road has partial access control.
'Full'	The road has full access control.

# **Annual Average Daily Traffic**

Definition: AADT (e.g., 3400).

Field Type: Numeric.

#### **Begin Milepost**

*Definition*: The beginning milepost for route at that point on the segment (e.g., 0.099679).

Field Type: Numeric.

#### County

Definition: The county that the segment is physically located in.

Field Type: Coded.

'1'	Alamance	'12'	Burke
'2'	Alexander	'13'	Carrabus
'3'	Allegheny	'14'	Caldwell
'4'	Anson	'15'	Camden
<b>'</b> 5'	Ashe	'16'	Carteret
'6'	Avery	'17'	Caswell
'7'	Beaufort	'18'	Catawba
'8'	Bertie	'19'	Chatham
'9'	Bladen	'20'	Cherokee
'10'	Brunswick	'21'	Chowan
'11'	Buncombe	'22'	Clay

#### 20

#### Variable Name: ACCESS

Variable Name: BEGINMP

Variable Name: COUNTY

Variable Name: AADT

'23'	Cleveland	'62'	Montgomery
 '24'	Columbus	·63'	Moore
'25'	Craven	'64'	Nash
'26'	Cumberland	<b>'65'</b>	New Hanover
'27'	Currituck	'66'	Northampton
'28'	Dare	'67 <b>'</b>	Onslow
'29'	Davidson	'68'	Orange
'30'	Davie	'69'	Pamlico
'31'	Duplin	'70 <b>'</b>	Pasquotank
'32'	Durham	'71'	Pender
'33'	Edgecombe	'72'	Perquimans
'34'	Forsyth	'73'	Person
'35'	Franklin	'74'	Pitt
'36'	Gaston	'75 <b>'</b>	Polk
'37'	Gates	'76'	Randolph
'38'	Graham	'77'	Richmond
'39'	Granville	'78'	Robeson
'40'	Greene	'79'	Rockingham
'41'	Guilford	'80'	Rowan
'42'	Halifax	'81'	Rutherford
'43'	Harnett	'82'	Sampson
'44'	Haywood	'83'	Scotland
'45'	Henderson	'84'	Stanly
'46'	Hertford	'85'	Stokes
'47'	Hoke	'86'	Surry
'48'	Hyde	'87'	Swain
'49'	Iredell	'88'	Transylvania
'50'	Jackson	'89'	Tyrell
'51'	Johnston	'90'	Union
'52'	Jones	'91'	Vance
'53'	Lee	'92'	Wake
'54'	Lenoir	'93'	Warren
'55'	Lincoln	'94'	Washington
'56'	Macon	'95 <b>'</b>	Watauga
'57'	Madison	'96'	Wayne
'58'	Martin	'97 <b>'</b>	Wilkes
<b>'</b> 59'	McDowell	'98'	Wilson
'60'	Mecklenburg	<b>'</b> 99'	Yadkin
'61'	Mitchell	'100'	Yancey

# **Designated Truck Route**

Variable Name: TRKROUTE

Definition: Internal and federally-designated truck routes.

#### Field Type: Coded.

'2'	Parkway – Trucks/Commercial Vehicle Prohibited (Parkway – trucks and
	commercial vehicles prohibited)
'3'	Not a Parkway – Trucks/Commercial Vehicles Prohibited during specific
	periods; not a designated Truck Route (Not a parkway – trucks and
	commercial vehicles prohibited during specific times)
'4'	Not a Parkway – Trucks/Commercial Vehicles Prohibited (Not a parkway –
	trucks and commercial vehicles prohibited)
ʻ5'	Designated Truck Route (National network [federally approved])

#### **Design Speed**

#### Variable Name: DESIGNSPD

*Definition*: A selected speed used to determine the various geometric features of the roadway, in miles per hour (e.g., 70).

Field Type: Numeric.

#### **Ending Milepost**

#### Variable Name: ENDMP

Definition: The ending milepost for route at that point on the segment (e.g., 0.977702).

Field Type: Numeric.

# **Facility Type**

Variable Name: FCLTYTYPE

Definition: The operational characteristics of the roadway.

Field Type: Coded.

'One Way'	One-Way Roadway
'Couplet'	Couplet
'GS Ramp'	Grade-Separated Ramp
'Non-Main'	Non-Mainline
'Public Facility'	Public Facility
'Miscellaneous'	Miscellaneous
'Non-GS Ramp'	Non-Grade-Separated Ramp

#### **Functional Class**

*Definition*: A classification system of roads based on the character of traffic service that they are intended to provide. Approval of changes is done by FHWA and is managed by the Program Development Branch at NCDOT.

Field Type: Coded.

'1'	Interstate
'2'	PA-FrwyExp (Principal Arterial – Other Freeways and Expressways)
'3'	PA-Other (Principal Arterial – Other)
'4'	Minor Arterial
ʻ5'	Major Collector
'6'	Minor Collector
'7'	Local

## **Highway Division Route**

Definition: The NCDOT Division number (1 through 14) for each route segment (e.g., 14).

Field Type: Numeric.

#### Lane Width

Definition: Width on 1 travel lane on the section in feet (e.g., 12).

Field Type: Numeric.

#### Left Paved Shoulder Width

*Definition*: The total paved width of the left shoulder in feet (e.g., 4).

*Field Type:* Numeric.

# Left Shoulder Type

*Definition*: The surface type of the left shoulder (e.g., Bitum).

Field Type: Text.

Variable Name: LFTPVDSHLDRWIDTH

Variable Name: DIVISION

Variable Name: LANEWIDTH

Variable Name: FUNCCLASS

Variable Name: LFTSHLDRTYPE

23

'Curb-Con'	Curb – Concrete
'Curb-Bit'	Curb – Bituminous
'Concrete'	Concrete
'Bitum'	Bituminous
'Gravel'	Gravel Or Stone
'Grass'	Grass Or Sod

#### Left Shoulder Width

#### Variable Name: LFTSHLDRWIDTH

Definition: The total width of the left shoulder in feet (e.g., 10).

Additional Information: If the Left Shoulder Width is greater than the Left Paved Shoulder Width, then it indicates that a combination shoulder is present, such as bituminous and grass.

Field Type: Numeric.

#### **Median Type**

#### Variable Name: MEDIANTYPE

Definition: The type of median present (e.g., Grass).

Additional Information: No data indicates that there is no median present, and that the road is not divided. Roads with a median length of at least 200 ft are represented as separate lines (dual carriageway). Medians that are at least two feet wide are coded in this field, regardless of whether the road is represented as a single line or a pair. Where multiple medians are present, the type that prohibits the most movement of vehicles is coded (for example a grass median with a cable guardrail is coded as a flexible positive barrier).

Field Type: Coded.

'RPB'	Rigid Positive Barrier (Includes Jersey barriers)
'SRPB'	Semi-Rigid Positive Barrier (A raised median with a sloped edge)
'FPB'	Flexible Positive Barrier
'PM'	Paved Mountable
'Curb'	Curb (This code is used for legacy data; eventually unspecified
	positive barriers will be coded as semi-rigid, rigid, or flexible
	positive barriers)
'Grass'	Grass (Includes cable guardrail)
'Striped'	Striped (painted pavement)

#### Median Width – Total

Definition: The width of median in feet (e.g., 13).

Additional Information: On roads represented as two separate lines (divided), one-half of the median width is stored on each segment. If the road is represented as a single line but has a median (typically because the median length is less than 200 feet), the entire median width is stored on the segment. Negative numbers should be ignored. Median Widths do not contain turn lanes.

Field Type: Numeric.

#### **Municipal Population Group**

Variable Name: MUNPOPGROUP

Definition: Population categories based on the municipality that the segment is located within.

Field Type: Coded.

'1'	Under 1,000 Population (Municipality population is under 1,000)
'2'	1,000 to 2,499 (Municipality population is between 1,000 and 2,500)
'3'	2,500 to 4,999 (Municipality population is between 2,500 and 5,000)
'4'	5,000 to 9,999 (Municipality population is between 5,000 and 10,000)
'5'	10,000 to 24,999 (Municipality population is between 10,000 and 25,000)
'6'	25,000 to 49,999 (Municipality population is between 25,000 and 50,000)
'7'	50,000 to 99,999 (Municipality population is between 50,000 and
	100,000)
'8'	100,000 and Over (Municipality population is over 100,000)

#### **National Highway System**

#### Variable Name: NHS

*Definition*: A network of nationally significant highways approved by Congress in the National Highway System Designation Act of 1995. New routes can also be added to the National Highway System (NHS). No data indicates that the segment is not part of the NHS. All routes on the NHS are eligible for federal aid.

Field Type: Coded.

'1'	Is on the NHS (Section is on the NHS)
'2'	Major Airport (NHS Connector – Major Airport)
'3'	Major Port Facility (NHS Connector – Major Port Facility)

#### **Roadway File** '4' Major Amtrak Station (NHS Connector – Major Amtrak Station) **'**5' Major Rail/Truck Terminal (NHS Connector – Major Rail/Truck Terminal) '6' Major Inter-city Bus Terminal (NHS Connector – Major Intercity Bus Terminal) '7' Major Public Transit Terminal/Multi-modal Passenger Terminal (NHS Connector – Major Public Transit Terminal) '8' Major Pipeline Terminal (NHS Connector – Major Pipeline Terminal) '9' Major Ferry Terminal (NHS Connector – Major Ferry Terminal) '11' Congressional High Priority Corridor (Congressional High Priority Corridors) '21' MAP-21 (MAP-21)

#### Number of Lanes – Total\*

Variable Name: THRULANECOUNT

*Definition*: The number of through lanes (e.g., 2).

Additional Information: This represents the through lanes, does not include ancillary lanes used for turning movements and ramps. On divided roads, the value is the total number of through lanes on both sides.

Field Type: Numeric.

#### **Posted Routes**

#### Variable Name: POSTEDROUTE

*Definition*: A system of designated secondary routes where truck traffic with axle weights exceeding 13,000 pounds is prohibited by ordinance. The value is the ordinance number; any value present indicates that the segment is part of the Posted Route system (e.g., 98-017).

Additional Information: "<Null>" indicates no data available.

Field Type: Text.

# **Right of Way**

#### Variable Name: ROW

Definition: The width of the right of way of the road in feet (e.g., 100).

Additional Information: Right of Way can vary continuously along the road. The data has been generalized in areas of widely varying Right of Way to represent significant changes.

HSIS Guidebook – NC

<sup>\*</sup> Variable created by HSIS Lab

Field Type: Numeric.

# **Right Paved Shoulder Width**

Variable Name: RTPVDSHLDRWIDTH

Variable Name: RTSHLDRTYPE

Definition: The paved width of the right shoulder in feet (e.g., 10).

*Field Type:* Numeric.

# **Right Shoulder Type**

Definition: The surface type of the right shoulder.

Additional Information: On combination shoulders, the highest code present is used. For example, a shoulder that is bituminous and gravel would be coded as bituminous. On divided roads, this refers to the outside shoulder; on undivided roads it is the shoulder on the right side when facing inventory direction (the line segment direction).

Field Type: Coded.

'Curb-Con'	Curb-Concrete
'Curb-Bit'	Curb-Bituminous
'Concrete'	Concrete
'Bituminous'	Bituminous
'Gravel'	Gravel or Stone
'Grass'	Grass or Sod

# **Right Shoulder Width**

Variable Name: RTSHLDRWIDTH

Definition: The total width of the right shoulder in feet (e.g., 10).

*Additional Information*: If the Right Shoulder Width is greater than the Right Paved Shoulder Width, then it indicates that a combination shoulder is present, such as bituminous and grass.

Field Type: Numeric.

# **Roadway Class**\*

#### Variable Name: RODWYCLS

*Definition*: Roadway Class. This variable is developed by the <u>HSIS Laboratory</u> for the purposes of readily classifying roadway data. This variable is a combination of the *Number of Lanes, Rural Urban Identification, Median Type*, and *Functional Class* variables.

Field Type: Text.

#### Values:

Urban Freeways Urban Freeways Less than 4 Lanes Urban 2 Lane Roads Urban Multilane Divided Non-Freeway Urban Multilane Undivided Non-Freeway Rural Freeways Rural Freeways Less than 4 Lanes Rural 2-Lane Roads Rural Multilane Divided Non-Freeway Rural Multilane Undivided Non-Freeway Others

<sup>\*</sup> Variable created by HSIS Lab

#### **Route ID**

#### Variable Name: ROUTEID

*Definition*: Primary route and linking variable within the NCDOT linear referencing system (LRS). The 11-digit route number is a route naming convention used by NCDOT. It can be used to reference milepost locations along a route. Each digit has a different meaning. The last three digits of the route number are the SAP county code. The county code starts at 001 for Alamance County and ends with 100 for Yancey County (e.g., 19400085029).

Field Type: Text.

#### **Route Inventoried**

Variable Name: ROUTENUMBER

Definition: The NCDOT route number for the dominant route (e.g., 85).

Field Type: Numeric.

#### **Route Name**

#### Variable Name: ROUTENAME

Variable Name: ROUTECLASS

*Definition:* The NCDOT name of the dominant route. It is a concatenation of an abbreviation of Route Class, Route Number, and if relevant, Route Qualifier (e.g., NC-66 or US-74 BUS).

Field Type: Text.

#### **Route Type**

*Definition*: The NCDOT route class code for dominant route. The route class drives the first digit of the Route ID. This refers to an '8' for the codes '80,' '81,' and '89' (i.e., all codes that begin with an '8' refer to a ramp segment).

Field Type: Coded.

'1'	Interstate (I) (State-maintained)
'2'	US Route (US) (State-maintained)
'3'	NC Route (NC) (State-maintained)
'4'	Secondary Route (SR) (State-maintained)
'5'	Non-System (NS) (Not State maintained)
'6'	Other State Agency Route (SA) (Federal-aid roads maintained by other
	State agencies)
'7'	Federal Route (FED) (Federal-aid roads maintained by Federal agencies)

# Roadway File'80'Ramp (RMP) (Typically State-maintained but not counted towards State-maintained mileage)'81'Rest Areas (RST) (Typically State-maintained but not counted towards State-maintained mileage)'89'Non-Mainline (NML) (Typically State-maintained but not counted towards State-maintained mileage)'9'Projected (PRJ) (Generalized locations of major facilities that have not yet been built)

# Rural/Urban Designated by Population

Variable Name: URBANPOP

Definition: Population based on the Urban Area that the segment is located within.

Field Type: Coded.

'1'	< 2,500 (Rural)
'2'	2,500 to 4,999 (Reserved for future use; the minimum population of a small
	urban boundary is 5,000)
'3'	5,000 to 24,999 (Urban population between 5,000 and 25,000)
'4'	25,000 to 49,999 (Urban population between 25,000 and 50,000)
'5'	50,000 to 99,999 (Urbanized population between 50,000 and 99,000)
'6'	100,000 to 199,999 (Urbanized population between 100,000 and 200,000)
'7'	>200,000 (Urbanized population greater than 200,000)

# **Rural Urban Identification**

Variable Name: URBANID

Definition: The designated code of the Urban Area that the segment is location within.

Field Type: Coded.

'658'	Ahoskie, NC
'982'	Albemarle, NC
'2965'	Archer Lodge—Clayton, NC
'3331'	Asheboro, NC
'3358'	Asheville, NC
'7003'	Benson, NC
'7824'	Biscoe, NC
'8749'	Boiling Spring Lakes, NC
'8758'	Boiling Springs, NC

'9055'	Boone, NC
'10027'	Brevard, NC
'11415'	Buies Creek, NC
'11566'	Burgaw, NC
'11728'	Burlington, NC
'12025'	Butner, NC
'15670'	Charlotte, NCSC
'16075'	Cherryville, NC
'17992'	Clinton, NC
'19558'	Concord, NC
'21664'	Cullowhee, NC
'22253'	Danville, VANC
'25039'	Dunn, NC
'25228'	Durham, NC
'26092'	Eden, NC
'26119'	Edenton, NC
'26686'	Elizabeth City, NC
'26713'	Elizabethtown, NC
'26848'	Elkin, NC
'27592'	Enfield, NC
'28782'	Fairfield Harbour, NC
'28860'	Fairmont, NC
'29305'	Farmville, NC
'29440'	Fayetteville, NC
'29510'	Fearrington Village, NC
'30331'	Forest City, NC
'31384'	Franklin, NC
'32653'	Gastonia, NCSC
'33814'	Goldsboro, NC
'35164'	Greensboro, NC
'35380'	Greenville, NC
'35690'	Grifton, NC
'36585'	Hampstead, NC
'37675'	Havelock, NC
'38269'	Henderson, NC
'38647'	Hickory, NC
'38809'	High Point, NC
'39349'	Holden Beach, NC

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'42400'	Jacksonville, NC
'42870'	Jefferson, NC
'44965'	Kill Devil Hills, NC
'45397'	Kinston, NC
'46315'	La Grange, NC
'46927'	Lake Norman of Catawba, NC
'47665'	Landrum, SCNC
'48178'	Laurinburg, NC
'49798'	Lillington, NC
'49987'	Lincolnton, NC
'50813'	Locust, NC
'51634'	Louisburg, NC
'52066'	Lumberton, NC
'53443'	Maiden, NC
'54199'	Manteo, NC
'54631'	Marion, NC
'55792'	Mayodan, NC
'57979'	Mocksville, NC
'59194'	Morehead City, NC
'59815'	Mount Airy, NCVA
'60031'	Mount Olive, NC
'60706'	Murfreesboro, NC
'60895'	Myrtle BeachSocastee, SCNC
'61840'	New Bern, NC
'63946'	North WilkesboroWilkesboro, NC
'64459'	Oak Island, NC
'66592'	Oxford, NC
'68401'	Pembroke, NC
'69517'	PinehurstSouthern Pines, NC
'69632'	Pittsboro, NC
'70345'	Plymouth, NC
'73261'	Raleigh, NC
'73300'	Ramseur, NC
'73936'	Red Springs, NC
'74152'	Reidsville, NC
'74601'	Richlands South, NC
'75448'	Roanoke Rapids, NC
'75772'	RockinghamHamlet, NC

'75988'	Rocky Mount, NC
'76501'	Roxboro, NC
'77618'	St. James, NC
'78877'	Sanford, NC
'80695'	Seven Lakes, NC
'81199'	Shelby, NC
'81955'	Siler City, NC
'82522'	Smithfield, NC
'82665'	Sneads Ferry, NC
'83818'	Spout Springs, NC
'84155'	Spruce Pine, NC
'86024'	Swansboro, NC
'86315'	Tabor City, NCSC
'86707 <b>'</b>	Tarboro, NC
'86761'	Taylorsville, NC
'88597'	Troy, NC
'91108'	Wadesboro, NC
'91378'	Wallace, NC
'92053'	Warsaw, NC
'92404'	Washington, NC
'93880'	Wendell—Zebulon, NC
'94739'	Whispering Pines, NC
'94996'	Whiteville, NC
'95509'	Williamston, NC
'95833'	Wilmington, NC
'95914'	Wilson, NC
'96278'	Windsor, NC
'96670'	Winston-Salem, NC
'97480'	Yadkinville, NC

# **Section Length in Miles**

*Definition*: The length of the segment in miles, calculated by the ending milepost minus the beginning milepost. The milepost values are based on 3D measures generated from LiDAR data (e.g., 0.35).

Field Type: Numeric.

#### Variable Name: MPLENGTH

# **Speed Limit**

Variable Name: SPEEDLIMIT

Definition: The posted speed limit in miles per hour (e.g., 55).

Additional Information: This data comes from traffic ordinances governing speed limit; where there is no ordinance, the speed limit is 35 within municipalities and 55 outside.

*Field Type:* Numeric.

# *Field Type:* Coded.

0	
'Bitum'	Bituminous
'JPCP'	JPCP
'CRCP'	CRCP (Continuously reinforced concrete pavement jointed plain concrete pavement)
'AC_AC'	AC overlay on AC (Asphalt-concrete [AC] overlay over existing AC pavement)
'AC_JCP'	AC overlay on JCP (AC overlay over existing jointed concrete pavement)
'AC_CRCP'	AC overlay on CRCP (Bituminous overlay over existing CRCP)
'UJC_PCC'	Unbonded JC Overlay on PCC (Unbonded jointed concrete overlay on PCC pavement)
'BPCC_PCC'	Bonded PCC Overlay on PCC (Bonded PCC overlay on PCC pavement)
'Other'	Other (includes bridge decks, whitetopping, brick, etc.)

# Definition: The surface type of the segment.

Unpaved

y y

*Field Type:* Coded.

Surface Type

'Unpaved'

'Bridge'	Bridge (Bridges and pipes greater than 20 feet)
'Tunnel'	Tunnel
'Causeway'	Causeway

# Structure Type

**Roadway File** 

Street Name

Field Type: Text.

Definition: A structure (bridge, tunnel, or causeway) is present.

Additional Information: NCDOT discontinued this field after 2019.

#### Definition: The common name of the street (e.g., 'Main Street').

#### Variable Name: STRUCTURTYPE

Variable Name: SRFCTYPE

#### Surface Width – Total

*Definition*: The paved surface width in feet, or the road width from ditch to ditch on unpaved roads (e.g., 24).

*Additional Information*: The Surface Width does not include the median width. On divided roads, it is the paved width on that side of the median. On paved roads, the Surface Width is edge of pavement to edge of pavement (includes paved shoulders).

Field Type: Numeric.

# Terrain

Variable Name: TERRAINTYPE

Definition: Generalized terrain classification.

Field Type: Coded.

'1'	Level
'2'	Rolling
'3'	Mountainous

# **Toll Charged**

Variable Name: TOLLCHARGED

Definition: The travel direction, if any, that a toll is charged.

Field Type: Coded.

'OneDir'	One direction (toll is charged in one direction only)
'BothDir'	Both directions (toll is charged in both directions)
'None'	No Toll Charged (no toll is charged on the toll road)

#### **Total Percent Multi Unit Trucks**

Definition: Percent of AADT that are Multi Unit trucks (FHWA Class 8 – 13) (e.g., 0.0393).

Field Type: Numeric.

# **Total Percent Single Unit Trucks**

Variable Name: SU\_PCT

Variable Name: MU\_PCT

Definition: Percent of AADT that are Single Unit trucks (FHWA Class 4 – 7) (e.g., 0.0669).

#### Variable Name: SRFCWIDTH

# **Roadway File**

*Field Type:* Numeric.

#### Town

#### Variable Name: TOWNNAME

Definition: A name identifying the municipality where the segment is located (e.g., Chapel Hill).

Additional Information: "<Null>" indicates no data available.

Field Type: Text.

# **Travel Direction**

#### Variable Name: TRAVELDIRECTION

Definition: Indicates whether traffic is restricted to one direction or both (e.g., One-way).

Field Type: Text.

'Both'	<b>Both Directions</b>
'One-way'	One Direction

# Type of Recent Improvement

Variable Name: IMPRVTYPE

Definition: The most recent improvement that was made to the segment.

Field Type: Coded.

'BR'	Bridge Replacement (The total replacement of a structurally inadequate or functionally obsolete bridge with a new structure constructed in the same general traffic corridor to current geometric construction standards. A bridge removed and replaced with a lesser facility is considered a bridge replacement. Incidental roadway approach work is included.)
'MI'	Minor Widening (The addition of more width per through lane, shoulder improvements, and/or turn lanes (regardless of length or width) to an existing facility without adding through lanes. The existing pavement is salvaged. Also included, where necessary, is the resurfacing of the existing pavement and other incidental improvements such as shoulder and drainage improvements.)
'MA'	Major Widening (The addition of through lanes or dualization of an existing facility where the existing pavement is salvaged. Also included,

# **Roadway File**

	where necessary, is the resurfacing of the existing pavement and other
	incidental improvements such as shoulder and drainage improvements.)
'NR'	New Construction (Construction of a new route on an original location
	that does not replace an existing route, but which was designed and built
	as an independent facility.)
'RS'	Resurfacing (Placement of additional material (concrete, asphalt, etc.)
	over the existing roadway to improve serviceability or to provide
	additional strength. There may be upgrading of unsafe features and other
	incidental work. If resurfacing Is done as a final stage of construction, the
	preceding stage (relocation, reconstruction, minor widening, etc.) is used
	as the improvement type.)
'NL'	Relocation (Construction of a facility on new location that replaces an
	existing route. The new facility carries all the through traffic with the
	previous facility closed or retained as a land-service road only.)
ʻIP'	Initial Paving (This is used the first time an unpaved road is paved.)
'RE'	Reconstruction (Reconstruction on substantially the same alignment. It
	may include the addition of through lanes, dualization, addition of
	interchanges or grade separations, or widening of through lanes.
	Reconstruction may also include the correction of alignment and/or
	shoulder and drainage deficiencies.)
'SI'	Surface Improvement (Surface improvements such as crack sealing,
	diamond grinding, subsealing, joint repair, slurry seal, asphalt surface
	treatment, etc.)
'OT'	Other (Other types of improvements.)

# Year Added

#### Variable Name: ADDDATE

*Definition*: The date that the section of the road was constructed, or the date that the road was added to the state maintenance system if it was already built (MM/DD/YYYY).

Field Type: Date.

# Year of Recent Improvement

#### Variable Name: IMPRVTDATE

*Definition*: The date of the most recent improvement that was made to the segment (MM/DD/YYYY).

Field Type: Date.

# **Traffic Signal File**

# City

*Definition:* The closest city to the relevant Signal Identification Number (SIN; e.g., Elizabeth City).

Field Type: Text.

# County

Definition: The county where the SIN is contained within (e.g., PASQUOTANK).

Field Type: Text.

#### Latitude

Definition: The global latitude of the given location (e.g., 34.345).

*Field Type:* Numeric.

#### Location

*Definition:* The physical location or intersection that the signal is located at (e.g., US 17 BUS (ROAD ST.) & CHURCH ST).

Field Type: Text.

# Longitude

Definition: The global longitude of the given location (e.g., -87.135).

*Field Type:* Numeric.

# Signal Inventory Number

Definition: The SIN for a specific location (01-0001).

Field Type: Text.

HSIS Guidebook – NC

#### Variable Name: LOCATION

Variable Name: LONGITUDE

Variable Name: CITY

Variable Name: SIGNAL

Variable Name: LATITUDE

Variable Name: COUNTY

40

# Signal System Number

Variable Name: SIGNAL\_SYS

Definition: The signal system number (if applicable) that a signal is a contained within.

Field Type: Coded.

'Numerical Value' The related signal system number.'Isolated' The signal is not contained within a signal system.

# Signal Type

Variable Name: FLASHER

Definition: A description of whether the location is a signal or flasher.

Field Type: Coded.

'Signal' Location is a traffic signal.'Flasher' Location is a flasher, usually located between two separate flasher heads if a single SIN is assigned to it.

# **System Description**

Variable Name: SYSTEM\_DES

*Definition:* The related signal system grouped location (e.g., NC 109 (Randolph St) - SR 2055 (Liberty Dr)). Note, 'Isolated' value indicates the signal is not contained within a signal system.

Field Type: Text.

# X Value of GIS Location

#### Variable Name: SPCE\_X

*Definition:* X value of GIS location based on NC State Plane projected coordinate system (e.g., 2818052).

Field Type: Numeric.

# Y Value of GIS Location

*Definition:* Y value of GIS location based on NC State Plane projected coordinate system (e.g., 938259).

*Field Type:* Numeric.

Variable Name: SPCE\_Y

# **Interchange File**

# County

#### Variable Name: COUNTY

*Definition*: County in which the interchange is located.

Field Type: Coded.

'1	Alamance	'38'	Graham
'2'	Alexander	'39'	Granville
'3'	Allegheny	'40'	Greene
'4'	Anson	'41'	Guilford
<b>'</b> 5'	Ashe	'42'	Halifax
'6'	Avery	'43'	Harnett
'7'	Beaufort	'44'	Haywood
'8'	Bertie	'45'	Henderson
'9'	Bladen	'46'	Hertford
'10'	Brunswick	'47'	Hoke
'11'	Buncombe	'48'	Hyde
'12'	Burke	'49'	Iredell
'13'	Carrabus	'50'	Jackson
'14'	Caldwell	'51'	Johnston
'15'	Camden	'52'	Jones
'16'	Carteret	'53'	Lee
'17'	Caswell	'54'	Lenoir
'18'	Catawba	'55'	Lincoln
'19'	Chatham	'56'	Macon
'20'	Cherokee	'57'	Madison
'21'	Chowan	'58'	Martin
'22'	Clay	'59'	McDowell
'23'	Cleveland	'60'	Mecklenburg
'24'	Columbus	'61'	Mitchell
'25'	Craven	'62'	Montgomery
'26'	Cumberland	'63'	Moore
'27'	Currituck	'64'	Nash
'28'	Dare	'65'	New Hanover
'29'	Davidson	'66'	Northampton
'30'	Davie	'67'	Onslow
'31'	Duplin	'68'	Orange
'32'	Durham	'69'	Pamlico
'33'	Edgecombe	'70'	Pasquotank
'34'	Forsyth	'71'	Pender
'35'	Franklin	'72'	Perquimans
'36'	Gaston	'73'	Person
'37'	Gates	'74'	Pitt

# Interchange File

'75'	Polk
'76'	Randolph
'77'	Richmond
'78'	Robeson
'79'	Rockingham
'80'	Rowan
'81'	Rutherford
'82'	Sampson
'83'	Scotland
'84'	Stanly
'85'	Stokes
'86'	Surry
'87'	Swain
'88'	Transylvania
'89'	Tyrell
'90'	Union
'91'	Vance
'92'	Wake
'93'	Warren
'94'	Washington
'95'	Watauga
'96'	Wayne
'97'	Wilkes
'98'	Wilson
'99'	Yadkin
'100'	Yancey

#### **Interchange ID**

Variable Name: INTERCHANG

Variable Name: LOGICALNAM

*Definition*: Unique identifier for interchange (e.g., TSUINTC00009).

Field Type: Text.

#### **Interchange Name**

*Definition*: Combination description that includes freeway, cross-street, and exit name associated with interchange (e.g., I-140, US-421, Exit 14).

Field Type: Text.

# Interchange Type

#### Variable Name: INTERCHANGE\_TYPE

Variable Name: INTERCHANGE\_SUBTYPE

Variable Name: MUNICIPALB

*Definition*: Description of interchange configuration (e.g., Partial cloverleaf). The file contains partial and full cloverleafs, diamonds, trumpets, four-leg all-directionals, three-leg directionals, semi-directionals, single points, diverging diamonds, double roundabouts, and a few miscellaneous interchange types.

Field Type: Text.

# Interchange Subtype

# *Definition*: Additional notes related to interchange configuration (e.g., One loop B, missing one right turn).

Field Type: Text.

# **Municipal Boundary**

Definition: Indicator that interchange is location within a municipal boundary.

Field Type: Coded.

'Yes'	Interchange is located within a municipal boundary.
'No'	Interchange is not located within a municipal boundary.

# Interchange File

#### **Urban Area**

#### Variable Name: SMOOTHURBA

*Definition*: Indicator that interchange is location within a Census-defined urbanized area boundary (2010 Census definitions).

*Field Type:* Coded.

'Yes'Interchange is located within a Census-defined urbanized area.'No'Interchange is not located within a Census-defined urbanized area.

# **Begin Latitude**

Definition: The global latitude of the beginning of the curve (e.g., 36.30876).

Field Type: Numeric.

# **Begin Longitude**

Definition: The global longitude of the beginning of the curve (e.g., -76.126883).

*Field Type:* Numeric.

# **Begin Milepost**

Definition: The beginning milepost for curve along Route ID (e.g., 8.548).

*Field Type:* Numeric.

# County

Definition: Numerical value of counties in alphabetical order.

Field Type: Coded.

'1'	Alamance	'15'	Camden
'2'	Alexander	'16'	Carteret
'3'	Allegheny	'17'	Caswell
'4'	Anson	'18'	Catawba
'5'	Ashe	'19'	Chatham
'6'	Avery	'20'	Cherokee
'7'	Beaufort	'21'	Chowan
'8'	Bertie	'22'	Clay
'9'	Bladen	'23'	Cleveland
'10'	Brunswick	'24'	Columbus
'11'	Buncombe	'25'	Craven
'12'	Burke	'26'	Cumberla
'13'	Cabarrus	'27'	Currituck
'14'	Caldwell	'28'	Dare

#### Variable Name: BEGINLAT

Variable Name: BEGINLON

Variable Name: BEGINMP

Variable Name: COUNTY

- S
- nd

'29'	Davidson	'68'	Orange
'30'	Davie	'69'	Pamlico
'31'	Duplin	'70'	Pasquotank
'32'	Durham	'71'	Pender
'33'	Edgecombe	'72'	Perquimans
'34'	Forsyth	'73'	Person
'35'	Franklin	'74'	Pitt
'36'	Gaston	'75'	Polk
'37'	Gates	'76'	Randolph
'38'	Graham	'77'	Richmond
'39'	Granville	'78'	Robeson
'40'	Greene	'79'	Rockingham
'41'	Guilford	'80'	Rowan
'42'	Halifax	'81'	Rutherford
'43'	Harnett	'82'	Sampson
'44'	Haywood	'83'	Scotland
'45'	Henderson	'84'	Stanly
'46'	Hertford	'85'	Stokes
'47'	Hoke	'86'	Surry
'48'	Hyde	'87'	Swain
'49'	Iredell	'88'	Transylvania
'50'	Jackson	'89'	Tyrell
'51'	Johnston	'90'	Union
'52'	Jones	'91'	Vance
'53'	Lee	'92'	Wake
'54'	Lenoir	'93'	Warren
'55'	Lincoln	'94'	Washington
'56'	Macon	'95'	Watauga
'57'	Madison	'96'	Wayne
'58'	Martin	'97'	Wilkes
'59'	McDowell	'98'	Wilson
'60'	Mecklenburg	'99'	Yadkin
'61'	Mitchell	'100'	Yancey
'62'	Montgomery		
'63'	Moore		
'64'	Nash		
'65'	New Hanover		
'66'	Northampton		

'67' Onslow

# Curve ID

*Definition:* Unique identifier for the horizontal curve (e.g., 1198).

*Field Type:* Numeric.

# **Degree of Curve**

*Definition:* Degree of curvature (e.g., -31.01).

Field Type: Numeric.

# End Latitude

*Definition:* The global latitude of the end of the curve (e.g., 36.30986).

Field Type: Numeric.

# **End Longitude**

Definition: The global longitude of the end of the curve (e.g., -76.130269).

Field Type: Numeric.

# **End Milepost**

Definition: The ending milepost for curve along Route ID (e.g., 8.754).

*Field Type:* Numeric.

# Length

Definition: Length of the curve in feet (e.g., 1092.32).

Field Type: Numeric.

9).

Variable Name: ENDLON

Variable Name: ENDMP

Variable Name: LENGTHFT

Variable Name: DEGREE

Variable Name: ENDLAT

Variable Name: CURVEID

#### Radius

Variable Name: RADIUSFT

Definition: Radius of the curve in feet (e.g., 2018.56).

Field Type: Numeric.

#### **Route ID**

#### Variable Name: ROUTEID

*Definition:* Primary route and linking variable within the NCDOT LRS (i.e., based on the 11-digit composite route number) (e.g., 30000343015).

*Field Type:* Numeric.

#### **Route Name**

#### Variable Name: ROUTENAME

*Definition:* The NCDOT name of the dominant route. It is a concatenation of an abbreviation of Route Class, Route Number, and Route Qualifier (e.g., NC-343).

*Field Type:* Text.

# Freeway Exit File

HSIS Guidebook – NC

# **Exit Name**

*Definition*: Description of locations and routes accessible via exit (e.g., I-26 W, I-240 E, Asheville, Downtown, Johnson City).

Field Type: Text.

# **Exit Number**

Definition: Number and identifier associated with signed exit (if applicable; e.g., 46B).

Field Type: Text.

# **Milepost**

Definition: Milepost location of exit (e.g., 18.937).

Field Type: Numeric.

# **Route ID**

Variable Name: ROUTEID

*Definition:* Primary route and linking variable within the NCDOT LRS (i.e., based on the 11-digit composite route number; e.g., 10000026011).

Field Type: Numeric.

#### Variable Name: EXITNAME

Variable Name: MEASURE

Variable Name: EXITNUMBER

# **Access Control (Crash Report)**

*Definition*: The degree of access to a roadway, controlled by public authority.

Field Type: Coded.

`1′	No Access Control
`2′	Full Access Control
`3′	Partial Access Control

# **Alcohol/Drugs in Crash**

Variable Name: ALCFLAG

Definition: Indicates if alcohol/drugs was a contributing factor in the crash.

Field Type: Coded.

`Ν′	No Drink or Drug
Ϋ́Υ	Intoxication Code 2 or 3

# **Bicycle Flag**

Variable Name: BIKEFLAG

Definition: Bicycle in crash.

Field Type: Coded.

`Ν′	Not a Bicycle Crash
ΥY′	Bicycle Crash

# **Case Number**

Variable Name: CASENO

*Definition:* A unique number assigned to the Crash Report by NC DMV. This value is the primary linking variable between crash, vehicle, and person files (e.g., 105369233).

Field Type: Numeric.

# City

Variable Name: CITY

Definition: Coded value of town in which the crash occurred.

Field Type: Coded.

HSIS Guidebook – NC

#### 56

Variable Name: ACCESS

`1′	Aberdeen	`39′	Belmont
`2′	Acme	`40'	Belville
`3′	Advance	`41′	Belwood
`4′	Ahoskie	`42′	Benson
`5 <b>′</b>	Alamance	`43 <sup>′</sup>	Bessemer City
`6′	Albemarle	`44'	Bethania
`7′	Alexander	`45 <sup>′</sup>	Bethel
`8′	Alexander Mills	`46′	Beulaville
`9 <b>′</b>	Alliance	`47′	Biltmore Forest
`10′	Andrews	`48′	Biscoe
`11'	Angier	`49 <sup>′</sup>	Black Creek
`12′	Ansonville	`50 <i>'</i>	Black Mountain
`13'	Apex	`51'	Bladenboro
`14'	Arapahoe	`52′	Blowing Rock
`15'	Archdale	`53 <b>′</b>	Boardman
`16′	Arlington	`54 <i>′</i>	Boiling Spring Lakes
`17′	Asheboro	`55 <sup>′</sup>	Boiling Springs
`18′	Asheville	`56′	Bolivia
`19′	Askewville	`57 <sup>′</sup>	Bolton
`20′	Atkinson	`57 <sup>′</sup>	Boone
`21′	Atlantic	`58′	Boonville
`22′	Atlantic Beach	`59 <i>′</i>	Bostic
`23'	Aulander	`6o'	Brevard
`24 <sup>′</sup>	Aurora	`61′	Bridgeton
`25'	Autryville	`62′	Broadway
`26′	Ayden	`6 <sub>3</sub> ′	Broadway
`27'	Badin	`64'	Brookford
`28′	Bailey	`65′	Brunswick
`29'	Bakersville	`66′	Bryson City
'30'	Bald Head Island	`67′	Bunn
`31′	Banner Elk	`68′	Bunnlevel
`32'	Bath	`69′	Burgaw
`33′	Battleboro	`70'	Burlington
`34′	Bayboro	`71′	Burnsville
`35′	Bear Grass	`72′	Butner
'36'	Beaufort	`73′	Cajahs Mountain
`37′	Beech Mountain	`74′	Calabash
`38′	Belhaven	`75′	Calypso

`76′	Cameron	`114′	Coats
`77'	Candor	`115′	Cofield
`78′	Canton	`116'	Colerain
`79 <sup>′</sup>	Cape Carteret	`117′	Columbia
`8o'	Caroleen	`118'	Columbus
`81'	Carolina Beach	`119′	Como
`82′	Carolina Shores	`120′	Concord
`8 <sub>3</sub> ′	Carrboro	`121′	Conetoe
`84′	Carthage	`122′	Connelly Springs
`85′	Cary	`123'	Conover
`86′	Casar	`124'	Contentnea
`87′	Cashiers	`125'	Conway
`88′	Castalia	`126'	Cooleemee
`89′	Caswell Beach	`127'	Cornelius
<b>`</b> 90′	Catawba	`128'	Council
`91′	Cedar Point	`129'	Cove City
`92′	Centerville	`130'	Cramerton
`93 <sup>′</sup>	Central Fall	`131′	Creedmoor
`94′	Cerro Gordo	`132'	Creswell
`95′	Chadbourn	`133′	Crossnore
`96′	Chadwick Acres	`134'	Culberson
`97′	Chapel Hill	`135'	Dallas
`98′	Charlotte	`136'	Danbury
`99′	Cherokee	`137′	Davidson
`100′	Cherryville	`138'	Delview
`101′	Chimney Rock	`139'	Denton
`102′	China Grove	`140'	Dillsboro
`103'	Chinquapin	`141'	Dobbins Heights
`104'	Chocowinity	`142'	Dobson
`105'	Claremont	`143'	Dortches
`106′	Clarkton	`144'	Dover
`107'	Clayton	`145'	Drexel
`108'	Clemmons	`146'	Dublin
`109'	Cleveland	`147'	Dudley
`110′	Cliffside	`148'	Dundarrach
`111′	Clinton	`149'	Dunn
`112′	Clyde	`150'	Durham
`113'	Coakley	`151'	Earl

`152 <i>'</i>	East Arcadia	<b>`190</b> ′	Franklinton
`153'	East Bend	`191 <i>'</i>	Franklinville
`154'	East Laurinburg	`192'	Fremont
`155'	East Spencer	`193 <i>'</i>	Fuquay Varina
`156'	Eden	`194'	Gamewell
`157'	Edenton	`195 <i>'</i>	Garland
`158'	Edward	`196′	Garner
`159 <i>′</i>	Elizabeth City	`197 <b>′</b>	Garysburg
`160'	Elizabethtown	`198'	Gaston
`161'	Elk Park	`199 <i>'</i>	Gastonia
`162'	Elkin	`200′	Gates
`163'	Ellenboro	`201′	Gatesville
`164'	Ellerbe	`202′	Germanton
`165'	Elm City	`203'	Germantown
`166′	Elon College	`204'	Gibson
`167'	Emerald Isle	`205'	Gibsonville
`168′	Enfield	`206′	Glen Alpine
`169'	Enochville	`207'	Glenville
`170′	Erwin	`208′	Godwin
`171′	Eureka	`209 <i>′</i>	Gold Hill
`172 <i>'</i>	Everetts	`210′	Gold Point
`173'	Fair Bluff	`211′	Goldsboro
`174′	Fairmont	`212′	Goldston
`175'	Faison	`213'	Graham
`176'	Faith	`214′	Graingers
`177′	Falcon	`215'	Grandfather
`178'	Falkland	`216′	Granite Falls
`179′	Fallston	`217'	Granite Quarry
`180'	Farmville	`218′	Green Level
`181'	Fayetteville	`219′	Greenevers
`182'	Flat Rock	`220′	Greensboro
`183'	Fletcher	`221′	Greenville
`184'	Forest City	`222′	Grifton
`185'	Foscoe	`223'	Grimesland
`186′	Fountain	`224'	Grover
`187'	Four Oaks	`225'	Guilford College
`188'	Foxfire Village	`226'	Halifax
`189′	Franklin	`227'	Hallsboro

`228'	Hamilton	`266′	Hudson
`229'	Hamlet	`267'	Huntersville
`230'	Hampstead	`268′	Huntsville
`231'	Hamptonville	`269'	Indian Beach
`232'	Harkers Island	`270 <i>′</i>	Indian Hill
`233'	Harmony	`271′	Indian Trail
`234′	Harrells	`272 <i>′</i>	Jackson
`235'	Harrellsville	`273'	Jackson Springs
`236'	Harrisburg	`274′	Jacksonville
`237'	Hassell	`275'	Jamestown
`238'	Hasty	`276′	Jamesville
`239′	Hatteras	`277′	Jason
`240'	Havelock	`278′	Jefferson
`241'	Haw River	`279′	Jonesville
`242'	Hayesville	`280'	Jupiter
`243'	Haywood	`281'	Kannapolis
`244 <sup>′</sup>	Hazelwood	`282'	Kelford
`245'	Hemby Bridge	`283'	Kenansville
`246'	Henderson	`284'	Kenly
`247′	Hendersonville	`285'	Kernersville
`248'	Hertford	`286′	Kill Devil Hills
`249'	Hickory	`287′	King
`250'	Hiddenite	`288′	Kings Mountain
`251'	High Point	`289'	Kingstown
`252 <i>′</i>	High Shoals	`290'	Kinston
`253'	Highlands	`291 <i>′</i>	Kittrell
`254 <i>′</i>	Hildebran	`292'	Kitty Hawk
`255'	Hillsborough	`293 <b>′</b>	Knightdale
`256'	Hobgood	`294'	Kure Beach
`257'	Hoffman	`295 <b>′</b>	Lagrange
`258'	Holden Beach	`296'	Lake Lure
`259'	Hollister	`297'	Lake Park
`260'	Holly Ridge	`298'	Lake Waccamaw
`261'	Holly Springs	`299'	Landis
`262'	Hollyville	,300,	Lansing
`263'	Hookerton	`301′	Lasker
`264'	Hope Mills	`302 <i>′</i>	Lattimore
`265'	Hot Springs	,303,	Laurel Park

`304'	Laurinburg	`342′	Mars Hill
`305 <i>′</i>	Lawndale	`343 <sup>′</sup>	Marshall
`306′	Lawrence	`344 <sup>′</sup>	Marshville
`307 <b>′</b>	Leasburg	`345 <sup>′</sup>	Marvin
,308,	Leggett	`346′	Matthews
,30ð,	Leland	`347 <b>′</b>	Maury
`310 <i>'</i>	Lemon Spring	`348′	Maxton
`311′	Lenoir	`349 <sup>′</sup>	Mayodan
`312'	Lewiston Woodville	`350 <i>′</i>	Maysville
`313'	Lewisville	`351 <i>′</i>	Mcadenville
`314′	Lexington	`352′	Mcdonalds
`315'	Liberty	`353 <b>′</b>	Mcfarlan
`316′	Lilesville	`354 <i>′</i>	Mebane
`317′	Lillington	`355 <i>′</i>	Mesic
`318′	Lincolnton	`356 <i>'</i>	Micro
`319′	Linden	`357 <i>′</i>	Middleburg
`320 <i>'</i>	Linville	`358 <i>′</i>	Middlesex
`321 <i>′</i>	Littleton	`359 <i>′</i>	Mildred
`322'	Locust	<u>`3</u> 60′	Milton
`323 <b>′</b>	Long Beach	`361′	Milwaukee
`324'	Long View	`362′	Minnesott Beach
`325 <b>′</b>	Longwood	`363 <b>′</b>	Mint Hill
`326'	Louisburg	`364′	Mocksville
`327'	Love Valley	`365'	Momeyer
`328'	Lowell	`366 <i>′</i>	Monroe
`329'	Lucama	`367 <b>′</b>	Montreat
,330,	Lumber Bridge	`368′	Mooresboro
`331′	Lumberton	`369′	Mooresville
`332′	Macclesfield	`370 <i>′</i>	Morehead City
`333 <i>′</i>	Macon	`371′	Morganton
`334′	Madison	`372′	Morrisville
`335 <i>′</i>	Maggie Valley	`373 <sup>′</sup>	Morven
`336′	Magnolia	`374 <i>′</i>	Mount Airy
`337′	Maiden	`375 <i>′</i>	Mount Gilead
`338′	Manteo	`376′	Mount Holly
`339′	Margaretsville	`377′	Mount Olive
`340'	Marietta	`378′	Mount Pleasant
`341'	Marion	`379 <sup>′</sup>	Mountain Island

`380′	Moyock	`418′	Pilot Mountain
`381'	Murfreesboro	`419 <i>'</i>	Pine Knoll Shores
`382'	Murphy	`420'	Pine Level
`383′	Nags Head	`421'	Pinebluff
`384′	Nashville	`422 <b>′</b>	Pinehurst
`385'	Navassa	`423 <i>′</i>	Pinetops
`386′	New Bern	`424 <i>′</i>	Pinetown
`387′	New London	`425'	Pineville
`388′	Newland	`426'	Pink Hill
`389′	Newport	`427′	Pittsboro
,390,	Newton	`428′	Plymouth
`391′	Newton Grove	`429 <b>′</b>	Polkton
`392'	Norlina	`430′	Polkville
`393 <sup>′</sup>	Norman	`431'	Pollocksville
`394 <sup>′</sup>	North Topsail Beach	`432′	Powellsville
`395 <sup>′</sup>	North Wilkesboro	`433 <sup>′</sup>	Princeton
`396′	Northwest	`434 <sup>′</sup>	Princeville
`397 <b>′</b>	Norwood	`435 <sup>′</sup>	Proctorville
`398′	Oak City	`436′	Providence
`399 <sup>′</sup>	Oak Ridge	`437 <sup>′</sup>	Raeford
`400′	Oakboro	`438′	Raleigh
`401'	Ocean Isle Beach	`439 <sup>′</sup>	Ramseur
`402'	Old Fort	`440'	Randleman
`403'	Old Sparta	`441'	Ranlo
`404'	Oriental	`442'	Raynham
`405'	Orrum	`443 <sup>′</sup>	Red Oak
`406'	Oxford	`444'	Red Springs
`407'	Palmyra	`445'	Reidsville
`408'	Pantego	`446'	Rennert
`409'	Parkersburg	`447'	Rhodhiss
`410'	Parkton	`448'	Rich Square
`411'	Parmele	`449′	Richfield
`412'	Patetown	`450'	Richlands
`413'	Patterson	`451'	Ringwood
`414'	Patterson Springs	`452'	River Bend
`415'	Peachland	`453 <sup>′</sup>	Roanoke Rapids
`416'	Pembroke	`454 <sup>′</sup>	Robbins
`417'	Pikeville	`455 <i>′</i>	Robbinsville

`456'	Robersonville	`494 <i>′</i>	Severn
`457 <sup>′</sup>	Rockford	`495 <sup>′</sup>	Shady Forest
`458′	Rockingham	`496'	Shallotte
`459 <i>′</i>	Rockwell	`497 <sup>′</sup>	Sharpsburg
<b>`</b> 460′	Rocky Mount	`498'	Shelby
<b>`</b> 461'	Rolesville	`499 <b>′</b>	Siler City
`462'	Ronda	`500 <i>′</i>	Simpson
`463'	Roper	`501 <i>'</i>	Sims
`464'	Rose Hill	`502 <i>′</i>	Smithfield
`465'	Roseboro	`503 <i>'</i>	Smithtown
`466′	Rosman	`504 <i>′</i>	Sneads Ferry
`467′	Rowland	`505 <b>′</b>	Snow Hill
`468′	Roxboro	`506'	South Creek
`469′	Roxobel	`507 <i>′</i>	South Wadesboro
`470′	Rural Hall	`508 <i>′</i>	Southern Pines
`471'	Ruth	`509 <i>'</i>	Southern Shores
`472 <i>'</i>	Rutherford College	`510'	Southport
`473 <sup>′</sup>	Rutherfordton	`511'	Sparta
`474 <i>′</i>	Saint Helena	`512'	Speed
`475 <sup>′</sup>	Saint Louis	`513'	Spencer
`476′	Saint Pauls	`514'	Spencer Mountain
`477 <i>′</i>	Salemburg	`515'	Spindale
`478′	Salisbury	`516'	Spring Hope
`479 <sup>′</sup>	Saluda	`517'	Spring Lake
`480'	Sandy Creek	`518'	Spruce Pine
`481'	Sandyfield	`519'	Staley
`482'	Sanford	`520'	Stallings
`483'	Santeetlah	`521'	Stanfield
`484'	Saratoga	`522'	Stanley
`485'	Sarecta	`523'	Stantonsburg
`486′	Sawmills	`524'	Star
`487'	Scotland Neck	`525'	Statesville
`488′	Scuffleton	`526'	Stedman
`489′	Seaboard	`527'	Stem
`490′	Seagrove	`528'	Stokesdale
`491'	Selma	`529'	Stoneville
`492'	Seven Devils	`530'	Stonewall
`493'	Seven Springs	`531'	Stovall

`532 <b>′</b>	Sugar Mountain	`570 <i>'</i>	Wagram
`533 <sup>′</sup>	Summerfield	`571'	Wake Forest
`534 <sup>′</sup>	Sunset Beach	`572 <i>′</i>	Walkertown
`535 <sup>′</sup>	Surf City	`573 <b>′</b>	Wallace
`536 <i>′</i>	Swanns	`574 <i>′</i>	Walnut Cove
`537 <i>′</i>	Swansboro	`575 <i>′</i>	Walnut Creek
`538 <i>′</i>	Swepsonville	`576 <i>'</i>	Walstonburg
`539 <i>′</i>	Sylva	`577 <i>′</i>	Warrensville
`540'	Tabor City	`578′	Warrenton
`541'	Tar Heel	`579 <i>′</i>	Warsaw
`542'	Tarboro	`58o′	Washington
`543 <sup>′</sup>	Taylorsville	`581 <i>'</i>	Washington Park
`544 <sup>′</sup>	Taylortown	`582 <i>′</i>	Watha
`545 <sup>′</sup>	Teachey	`583 <i>′</i>	Waxhaw
`546'	Thomasville	`584′	Waynesville
`547 <b>′</b>	Tillery	`585 <i>′</i>	Weaverville
`548′	Tobaccoville	`586 <i>′</i>	Webster
`549 <i>′</i>	Todd	`5 <sup>8</sup> 7′	Weddington
`550'	Topsail Beach	`588 <i>′</i>	Wedton
`551'	Trent Woods	`589′	Weldon
`552'	Trenton	`590 <i>'</i>	Wendell
`553 <i>′</i>	Trinity	`591 <i>'</i>	Wesley Chapel
`554 <i>′</i>	Troutman	`592 <b>′</b>	West Jefferson
`555 <i>′</i>	Troy	`593 <i>′</i>	Whispering Pines
`556'	Tryon	`594 <i>′</i>	Whitakers
`557 <sup>′</sup>	Turkey	`595 <i>′</i>	White Lake
`558'	Unionville	`596'	Whiteville
`559′	Valdese	`597 <sup>′</sup>	Whitsett
`560'	Vanceboro	`598′	Wilkesboro
`561'	Vandemere	`599 <i>′</i>	Williamsboro
`562'	Vander	`6oo'	Williamston
`563'	Varnamtown	`601'	Wilmington
`564'	Vass	`6o2'	Wilson
`565'	Vienna	`6o3′	Wilsons Mills
`566′	Virgilina	`6o4'	Windsor
`567'	Waco	`6o5'	Winfall
`568′	Wade	`6o6′	Wingate
`569'	Wadesboro	`6o7′	Winston Salem

`6o8′	Winterville	`648'	Rougemont
`6o9′	Winton	`649 <sup>′</sup>	Lucia
`610'	Woodfin	`65o'	New Salem
`611'	Woodland	`651 <i>'</i>	Delco
`612'	Wrightsville Beach	`652 <i>'</i>	Nakina
`613′	Yadkinville	`6 <sub>53</sub> ′	Henrico
`614'	Yanceyville	`6 <u>5</u> 5′	Townsville
`615'	Yaupon Beach	`6 <u>5</u> 6′	Manson
`616'	Youngsville	`6 <sub>57</sub> ′	Vaughan
`617 <b>′</b>	Zebulon	`6 <u>5</u> 8′	Icard
`618′	Pleasant Garden	`6 <u>5</u> 9′	Barnesville
`619′	Saint James	`66o'	Knotts Island
`620'	Cedar Rock	`661'	Albertson
`621'	Bogue	`662'	Duck
`622'	Peletier	`663'	Red Cross
`624'	Bermuda Run	`664'	Colfax
`625'	Sedalia	`665 <b>′</b>	Willow Spring
`626'	Forest Hills	`666 <b>′</b>	Wise
`627'	Grantsboro	`667′	Snow Camp
`628′	Wentworth	`668′	Skyland
`629'	Denver	`669′	Laural Hill
`63o'	Mineral Springs	`67o'	Grantham
`631'	Oak Island	`671 <i>'</i>	Brown Summit
`632 <i>'</i>	Riegelwood	`672 <i>′</i>	Rex
`633'	Shannon	`673 <b>′</b>	Chesapeake-Va
`634'	Sunbury	`674 <i>′</i>	Raleigh Durham Airport
`635'	West End	`675 <b>′</b>	Peidmont Triad Airport
`636'	Cullowhee	`676 <i>'</i>	Kelly
`6 <sub>37</sub> ′	Fairview	`677 <b>′</b>	Ammon
`6 <sub>3</sub> 8′	Mcleansville	`678'	Corolla
`639′	Efland	`679 <i>'</i>	Pfafftown
`640'	Seven Lakes	`68o'	Eli Whitney
`641'	Stokes	`681'	Swan Quarter
`642'	Midland	`682 <i>′</i>	Engelhard
`643	Evergreen	`68 <sub>3</sub> ′	Virginia Beach-Va
`644'	New Hill	`684′	Mills River
`645'	White Oak	`685 <b>′</b>	Supply
`647'	Climax	`686′	Barco

Crash File			
`687′	Alexis	`706'	Coleridge
`688 <i>'</i>	Grandy	`707′	Deep Run
`689 <i>′</i>	Ridgeway	`708 <i>′</i>	Hillsdale
`69o'	Sligo	`709 <i>′</i>	Misenheimer
`691'	Point Harbor	`710'	Gold Rock
`692 <b>′</b>	Jarvisburg	`711′	Coinjock
`693 <b>′</b>	Farmington	`712′	Fort Bragg
`694 <b>′</b>	Salter Path	`713'	Ossipee
`695 <b>′</b>	Fort Barnwell	`714′	Wallburg
`696 <i>'</i>	Cedar Grove	`715'	Midway
`697′	Merry Hill	`716′	Castle Hayne
`6 <u>9</u> 8′	Pleasant Hill	`717′	Welcome
`6 <u>9</u> 9′	Ruffin	`718′	Eastover
`700 <i>'</i>	Ivanhoe	`719 <i>′</i>	Cherokee Reservation
`701′	Ingold	`720 <i>'</i>	Elon
`703 <b>′</b>	Union Grove	`721′	Archer Lodge
`704 <i>'</i>	Saxapahaw	`722′	Fontana Dam
`705'	Stony Point		

# **City Population**

Variable Name: CTY\_POP

*Definition:* The population of a city/town (e.g., 46556).

Field Type: Numeric.

# County

#### Variable Name: COUNTY

*Definition:* The code value that represents the county in North Carolina where the crash occurred.

Field Type: Coded.

`1'	Alamance	`8'	Bertie
`2′	Alexander	`9 <b>′</b>	Bladen
`3′	Allegheny	`10'	Brunswick
`4′	Anson	`11′	Buncombe
`5′	Ashe	`12′	Burke
`6'	Avery	`13′	Carrabus
`7′	Beaufort	`14′	Caldwell

Crash File			
`15'	Camden	`53 <sup>′</sup>	Lee
`16′	Carteret	`54′	Lenoir
`17′	Caswell	`55'	Lincoln
`18'	Catawba	`56′	Macon
`19′	Chatham	`57′	Madison
`20′	Cherokee	`58′	Martin
`21′	Chowan	`59 <i>′</i>	McDowell
`22′	Clay	`6o'	Mecklenburg
`23′	Cleveland	`61′	Mitchell
`24′	Columbus	`62′	Montgomery
`25'	Craven	`6 <sub>3</sub> ′	Moore
`26′	Cumberland	`64′	Nash
`27′	Currituck	`65′	New Hanover
`28′	Care	`66′	Northampton
`29′	Davidson	`67′	Onslow
,30,	Davie	`68 <i>′</i>	Orange
`31′	Duplin	`69′	Pamlico
`32'	Durham	`70′	Pasquotank
`33′	Edgecombe	`71′	Pender
`34′	Forsyth	`72′	Perquimans
`35′	Franklin	`73′	Person
<u>`</u> 36′	Gaston	`74′	Pitt
`37′	Gates	`75′	Polk
,38,	Graham	`76′	Randolph
`39′	Granville	`77′	Richmond
`40′	Greene	`78′	Robeson
`41′	Guilford	`79′	Rockingham
`42′	Halifax	`8o′	Rowan
`43′	Harnett	`81′	Rutherford
`44 <sup>′</sup>	Haywood	`82′	Sampson
`45′	Henderson	`8 <sub>3</sub> ′	Scotland
`46′	Hertford	`84′	Stanly
`47′	Hoke	`85′	Stokes
`48′	Hyde	`86′	Surry
`49 <sup>′</sup>	Iredell	`87′	Swain
`50 <i>′</i>	Jackson	`88′	Transylvania
`51′	Johnston	`89′	Tyrell
`52 <b>′</b>	Jones	<u>'90'</u>	Union

`91′	Vance
`92 <b>′</b>	Wake
`93 <b>′</b>	Warren
`94 <sup>′</sup>	Washington
`95 <b>′</b>	Watauga
<b>`</b> 96′	Wayne
`97 <sup>′</sup>	Wilkes
`98′	Wilson
`99 <b>′</b>	Yadkin
`100′	Yancey

# **Crash Date**

*Definition:* Date crash occurred (MM/DD/YY).

Field Type: Date.

# **Crash Severity**

*Definition:* Documents the most severe injury, can be Fatal injury.

Field Type: Coded.

`1′	Fatal
`2′	Suspected Serious Injury (A)
`3′	Suspected Minor Injury (B)
`4′	Possible Injury (C)
`5′	No Injury
`6′	Unknown

#### **Development Amount**

Variable Name: DEVELOP

*Definition:* The predominant type of development in the area in which the collision occurred. For example: Commercial (mainly retail stores), Institutional (schools, hospitals, government buildings).

Field Type: Coded.

`1′	Farms, Woods, Pastures
`2′	Residential
`3′	Commercial
`4′	Institutional
`5′	Industrial
`6′	Unknown

# Direction toward 'TO\_RD'

Variable Name: TO\_DIR

Definition: Direction toward the 'Toward Road.'

Field Type: Coded.

HSIS Guidebook – NC

Variable Name: CRASH\_DATE

Variable Name: SEVERITY

`Ε′	East
`Ν′	North
'NE'	Northeast
'NW′	Northwest
`S′	South
`SE'	Southeast
`SW′	Southwest
'W′	West

#### Distance from 'FRM\_RD' in Feet

Variable Name: REFDISFT

Definition: Distance, in feet, from the nearest intersecting street (e.g., 143).

*Field Type:* Numeric.

# Distance from 'FRM\_RD' in Miles

*Definition:* The distance, in miles, from the nearest intersecting street (e.g., 0.027).

Field Type: Numeric.

# **First Harmful Event**

*Definition:* The first injury or damage producing event which characterizes the crash type and identifies the nature of the first harmful event.

*Field Type:* Coded.

`0′	Unknown
`1′	Ran Off Road – Right
`2′	Ran Off Road – Left
`3′	Ran Off Road – Straight
`4′	Jackknife
`5′	Overturn/Rollover
`13'	Other Non-Collision
`14′	Pedestrian
`15'	Pedalcyclist
`16′	RR Train, Engine
`17'	Animal

#### Variable Name: ACCTYPE

Variable Name: REFDISMI

#### **Crash File `18**′ Movable Object **`19**′ Fixed Object `20' Parked Motor Vehicle Rear End, Slow or Stop `21′ `22' Rear End, Turn `23' Left Turn, Same Roadway `24′ Left Turn, Different Roadways Right Turn, Same Roadway `25' `26′ Right Turn, Different Roadways `27′ Head On

- '28' Sideswipe, Same Direction
- '29' Sideswipe, Opposite Direction
- `30' Angle
- '31' Backing Up
- '32' Other Collision with Vehicle

# From Road

#### Variable Name: FRM\_RD

*Definition*: From Road – used in describing crash location for subsequent mileposting (particularly if the route and milepost on which the crash occurred is unknown).

Field Type: Numeric.

# From Road Class

Definition: The road classification of the 'From Road.'

Field Type: Coded.

`CL' `!'	County Line Interstate
'LCL'	Local City Street
'MILE'	Mile Marker
`ML′	Municipal Limit
'NC'	NC Route
'PP'	Private Property
'PVA'	Public Vehicular Area
`RP'	Rural Paved
`RU′	Rural Unpaved

Variable Name: FRMRD\_CL

# Science State Line 'SR' State Route 'UNK' Unknown 'US' US Route

# **Light Condition**

#### Variable Name: LIGHT

*Definition:* The type of light that existed at the time of the crash. Note that extremely cloudy conditions may be classified as dawn (or dusk) if the ambient light conditions are similar.

Field Type: Coded.

`1′	Daylight
`2′	Dusk
`3′	Dawn
`4′	Dark – Lighted Roadway
`5′	Dark – Roadway Not Lighted
`6′	Dark – Unknown Lighting
`7′	Other
`8′	Unknown

# Locality

#### Variable Name: LOCALITY

*Definition:* The general type and level of development in the vicinity of the collision. For example: If the estimated total development is less than 30% or about 1/3 of road frontage on both sides of the road over a substantial distance from the scene of the collision, then this variable would return a "1" for rural development.

Field Type: Coded.

`1'	Rural (<30% Developed)
`2′	Mixed (30% to 70% Developed)
`3′	Urban (>70% Developed)

# Location Type

#### Variable Name: LOC\_TYPE

*Definition:* Location of the crash in relation to nearby roadway feature.

Field Type: Coded.

`o′	No Special Feature
`1′	Bridge
`2′	Bridge Approach
`3′	Underpass
`4′	Driveway, Public
`5′	Driveway, Private
`6′	Alley Intersection
`7′	Four-Way Intersection
`8′	T-Intersection
`9′	Y-Intersection
`10′	Traffic Circle/Roundabout
`11'	Five-Point, or More
`12′	Related to Intersection
`13'	Non-Intersection Median Crossing
`14′	End or Beginning-Divided Highway
`15'	Off Ramp Entry (The approach to an exit ramp serving as a connection
	from a major roadway to a minor roadway.)
`16'	Off Ramp Proper (The length of the ramp between the off-ramp entry
	and the off-ramp terminal.)
`17′	Off Ramp Terminal on Crossroad (The intersection of an exit ramp with
	the destination route.)
`18′	Merge Lane Between On and Off
`19′	On Ramp Entry (An entrance ramp serving as a connection from a minor
	roadway to a major roadway.)
`20′	On Ramp Proper (The length of the ramp between the on-ramp and the
	on-ramp terminal.)
`21′	On Ramp Terminal on Crossroad (The roadway area where an on-ramp
	joins the destination route.)
`22′	Railroad Crossing
`23′	Tunnel
`24′	Shared-Use Paths or Trails
`25'	Other

## **Milepost**

#### Variable Name: MILEPOST

*Definition:* The milepost location of the non-inventoried feature, landmark, or annotation. Recorded for strip analysis reports only (e.g., 2.72).

Field Type: Numeric.

#### **Most Harmful Event**

#### Variable Name: MOSTHARM

*Definition:* Record of the event which produced the greatest property damage or most severe in jury in the crash. Note, that a similar vehicle is also recorded at the unit level. If several vehicles are involved in a crash, the officer identifies which harmful event was the most harmful in the crash and records it here.

*Field Type:* Coded.

`o1'Ran Off Road – Right`o2'Ran Off Road – Left`o3'Ran Off Road – Straight`o4'Jackknife`o5'Overturn/Rollover`13'Other Non-Collision`14'Pedestrian`15'Pedalcycle`16'RR Train, Engine`17'Animal`18'Movable Object`19'Fixed Object`20'Parked Motor Vehicle`21'Rear End, Slow or Stop`22'Rear End, Turn`23'Left Turn, Same Roadway`24'Left Turn, Different Roadway`25'Right Turn, Same Roadway`26'Sideswipe, Same Direction`29'Sideswipe, Opposite Direction`30'Angle`31'Backing Up`32'Other Collision with Vehicle	`oo'	Unknown
'o3'Ran Off Road – Straight'o4'Jackknife'o5'Overturn/Rollover'13'Other Non-Collision'14'Pedestrian'15'Pedalcycle'16'RR Train, Engine'17'Animal'18'Movable Object'19'Fixed Object'20'Parked Motor Vehicle'21'Rear End, Slow or Stop'22'Rear End, Turn'23'Left Turn, Same Roadway'24'Left Turn, Different Roadway'25'Right Turn, Same Roadway'26'Sideswipe, Same Direction'29'Sideswipe, Opposite Direction'30'Angle'31'Backing Up	`01′	Ran Off Road – Right
Yo4'JackknifeYo5'Overturn/RolloverY13'Other Non-CollisionY14'PedestrianY15'PedalcycleY16'RR Train, EngineY17'AnimalY18'Movable ObjectY19'Fixed ObjectY20'Parked Motor VehicleY21'Rear End, Slow or StopY22'Rear End, TurnY23'Left Turn, Same RoadwayY24'Left Turn, Different RoadwayY26'Right Turn, Different RoadwayY26'Sideswipe, Same DirectionY29'Sideswipe, Opposite DirectionY30'AngleY31'Backing Up	`02′	Ran Off Road – Left
'o5'Overturn/Rollover'13'Other Non-Collision'14'Pedestrian'15'Pedalcycle'16'RR Train, Engine'17'Animal'18'Movable Object'19'Fixed Object'20'Parked Motor Vehicle'21'Rear End, Slow or Stop'22'Rear End, Turn'23'Left Turn, Same Roadway'24'Left Turn, Different Roadway'25'Right Turn, Different Roadway'26'Sideswipe, Same Direction'29'Sideswipe, Opposite Direction'30'Angle'31'Backing Up	`o3′	Ran Off Road – Straight
'13'Other Non-Collision'14'Pedestrian'15'Pedalcycle'16'RR Train, Engine'17'Animal'18'Movable Object'19'Fixed Object'20'Parked Motor Vehicle'21'Rear End, Slow or Stop'22'Rear End, Turn'23'Left Turn, Same Roadway'24'Left Turn, Different Roadway'25'Right Turn, Different Roadway'26'Sideswipe, Same Direction'28'Sideswipe, Opposite Direction'29'Angle'31'Backing Up	`04 <sup>′</sup>	Jackknife
'14'Pedestrian'15'Pedalcycle'16'RR Train, Engine'17'Animal'18'Movable Object'19'Fixed Object'20'Parked Motor Vehicle'21'Rear End, Slow or Stop'22'Rear End, Turn'23'Left Turn, Same Roadway'24'Left Turn, Different Roadway'25'Right Turn, Same Roadway'26'Sideswipe, Same Direction'29'Sideswipe, Opposite Direction'30'Angle'31'Backing Up	`05′	Overturn/Rollover
`15'Pedalcycle`16'RR Train, Engine`17'Animal`18'Movable Object`19'Fixed Object`20'Parked Motor Vehicle`21'Rear End, Slow or Stop`22'Rear End, Turn`23'Left Turn, Same Roadway`24'Left Turn, Different Roadway`25'Right Turn, Same Roadway`26'Sideswipe, Same Direction`28'Sideswipe, Opposite Direction`30'Angle`31'Backing Up	`13'	Other Non-Collision
'16'RR Train, Engine'17'Animal'18'Movable Object'19'Fixed Object'20'Parked Motor Vehicle'21'Rear End, Slow or Stop'22'Rear End, Turn'23'Left Turn, Same Roadway'24'Left Turn, Different Roadway'25'Right Turn, Same Roadway'26'Right Turn, Different Roadway'27'Head On'28'Sideswipe, Same Direction'29'Sideswipe, Opposite Direction'30'Angle'31'Backing Up	`14′	Pedestrian
`17'Animal`18'Movable Object`19'Fixed Object`20'Parked Motor Vehicle`21'Rear End, Slow or Stop`22'Rear End, Turn`23'Left Turn, Same Roadway`24'Left Turn, Different Roadway`25'Right Turn, Same Roadway`26'Sideswipe, Same Direction`28'Sideswipe, Opposite Direction`30'Angle`31'Backing Up	`15'	Pedalcycle
'18'Movable Object'19'Fixed Object'20'Parked Motor Vehicle'21'Rear End, Slow or Stop'22'Rear End, Turn'23'Left Turn, Same Roadway'24'Left Turn, Different Roadway'25'Right Turn, Same Roadway'26'Right Turn, Different Roadway'27'Head On'28'Sideswipe, Same Direction'29'Sideswipe, Opposite Direction'30'Angle'31'Backing Up	`16'	RR Train, Engine
'19'Fixed Object'20'Parked Motor Vehicle'21'Rear End, Slow or Stop'22'Rear End, Turn'23'Left Turn, Same Roadway'24'Left Turn, Different Roadway'25'Right Turn, Same Roadway'26'Right Turn, Different Roadway'27'Head On'28'Sideswipe, Same Direction'29'Sideswipe, Opposite Direction'30'Angle'31'Backing Up	`17′	Animal
'20'Parked Motor Vehicle'21'Rear End, Slow or Stop'22'Rear End, Turn'23'Left Turn, Same Roadway'24'Left Turn, Different Roadway'25'Right Turn, Same Roadway'26'Right Turn, Different Roadway'27'Head On'28'Sideswipe, Same Direction'29'Sideswipe, Opposite Direction'30'Angle'31'Backing Up	`18′	Movable Object
'21'Rear End, Slow or Stop'22'Rear End, Turn'23'Left Turn, Same Roadway'24'Left Turn, Different Roadway'25'Right Turn, Same Roadway'26'Right Turn, Different Roadway'27'Head On'28'Sideswipe, Same Direction'29'Sideswipe, Opposite Direction'30'Angle'31'Backing Up	`19'	Fixed Object
'22'Rear End, Turn'23'Left Turn, Same Roadway'24'Left Turn, Different Roadway'25'Right Turn, Same Roadway'26'Right Turn, Different Roadway'27'Head On'28'Sideswipe, Same Direction'29'Sideswipe, Opposite Direction'30'Angle'31'Backing Up	`20′	Parked Motor Vehicle
'23'Left Turn, Same Roadway'24'Left Turn, Different Roadway'25'Right Turn, Same Roadway'26'Right Turn, Different Roadway'26'Right Turn, Different Roadway'27'Head On'28'Sideswipe, Same Direction'29'Sideswipe, Opposite Direction'30'Angle'31'Backing Up	`21′	Rear End, Slow or Stop
'24'Left Turn, Different Roadway'25'Right Turn, Same Roadway'26'Right Turn, Different Roadway'27'Head On'28'Sideswipe, Same Direction'29'Sideswipe, Opposite Direction'30'Angle'31'Backing Up	`22′	Rear End, Turn
'25'Right Turn, Same Roadway'26'Right Turn, Different Roadway'27'Head On'28'Sideswipe, Same Direction'29'Sideswipe, Opposite Direction'30'Angle'31'Backing Up	`23'	Left Turn, Same Roadway
'26'Right Turn, Different Roadway'27'Head On'28'Sideswipe, Same Direction'29'Sideswipe, Opposite Direction'30'Angle'31'Backing Up	`24′	Left Turn, Different Roadway
<ul> <li>Y27' Head On</li> <li>Y28' Sideswipe, Same Direction</li> <li>Y29' Sideswipe, Opposite Direction</li> <li>Y30' Angle</li> <li>Y31' Backing Up</li> </ul>	`25'	Right Turn, Same Roadway
'28'Sideswipe, Same Direction'29'Sideswipe, Opposite Direction'30'Angle'31'Backing Up	`26′	Right Turn, Different Roadway
`29'Sideswipe, Opposite Direction`30'Angle`31'Backing Up	`27′	Head On
'30'Angle'31'Backing Up	`28′	Sideswipe, Same Direction
'31' Backing Up	`29'	Sideswipe, Opposite Direction
	,30,	Angle
'32' Other Collision with Vehicle	`31′	Backing Up
	`32′	Other Collision with Vehicle

#### **Non-Motorist Count**

*Definition:* Total number of non-motorist units in the crash (e.g., 1).

Additional Information: "<Null>" indicates no data available.

Field Type: Numeric.

#### **Non-Reportable**

#### Variable Name: NON\_REP

*Definition:* Some locals may choose to report crashes which do not meet the State's criteria for a reportable crash. If these are submitted to the State, the Non-Reportable box is checked. As indicated on page 1 and on the top cover sheet for the DMV-349, a reportable motor vehicle traffic crash must include a fatality, injury, property damage of \$1,000.00 or greater, or property damage of any amount to a vehicle seized. A reportable crash must occur on a trafficway or occur after the motor vehicle runs off the roadway but before events are stabilized.

This "non-reportable" check box will be used to direct requests for copies of non-reportable crashes back to the originating agency which investigated the crash.

Field Type: Coded.

`1′	No
`2′	Yes

#### Number of Lanes (Crash Report)

Variable Name: NBR\_LANE

Definition: Number of lanes at the crash location (e.g., 2).

Field Type: Numeric.

`oo'	Parking Lot
`01′	1 Lane
`02′	2 Lanes
ʻ03ʻ	3 Lanes
`04 <sup>′</sup>	4 Lanes
`05′	5 Lanes
`o6′	6 Lanes
`o7′	7 Lanes
`o8′	8 Lanes

Crash File		
`o9′	9 Lanes	
`10′	10 Lanes	
`11′	11 Lanes	
`12′	12 Lanes	
`99 <b>′</b>	Unknown	

#### Number of Vehicle + Pedestrian + Bike

*Definition:* Total Number of units involved in the crash. A unit is any motor vehicle, pedestrian, pedalcyclist, moped or other road vehicle, excluding railway vehicles (e.g., 2).

Field Type: Numeric.

#### **Pedestrian Flag**

Definition: Whether or not the accident involved pedestrians.

Field Type: Coded.

'N' Not Pedestrian Accident'Y' Pedestrian Accident

#### **Railroad Crossing Number**

*Definition:* If applicable, identifies the number posted at the railroad site or the name of the railroad company owning or operating the tracks (e.g., 6).

Additional Information: "<Null>" indicates no data available.

Field Type: Text.

#### **Ramp or Service Road**

Definition: Crash occurred on a ramp or service road.

Additional Information: "<Null>" indicates no data available.

*Field Type:* Coded.

'Blank' No '1' Yes

HSIS Guidebook – NC

#### Variable Name: RRX\_NUM

Variable Name: NUM\_UNIT

Variable Name: PEDFLAG

#### Variable Name: RMP\_SVRD

76

#### **Relation to Roadway**

*Definition:* The location of the first harmful event as it relates to its position within or outside the trafficway.

Field Type: Coded.

`1′	On roadway
`2′	Shoulder
`3′	Median
`4′	Roadside
`5′	Outside trafficway
`6′	Unknown

#### **Reportable Status**

#### Variable Name: REPORT

*Definition:* Documents the type of accident (i.e., Fatal, Injury, Property damage, Private property, or Non reportable).

*Field Type:* Coded.

`D′	Property Damage Only
`F′	Fatal
Ψ	Injury
`Ν′	Non-Reportable
`Ρ′	Private Property
`Χ′	PVA Property Damage
Ϋ́Υ	PVA Injury
`Z′	PVA Fatal
* *	Unknown

#### **Road Character**

#### Variable Name: RD\_CHAR

*Definition:* Road character describes the change in horizontal direction of a roadway, determined at the point of curvature.

*Field Type:* Coded.

`1'	Straight – Level
`2′	Straight – Hillcrest

#### Variable Name: REL\_RD

`3′	Straight – Grade
`4′	Straight – Bottom
`5 <b>′</b>	Curve – Level
`6 <b>′</b>	Curve – Hillcrest
`7′	Curve – Grade
`8′	Curve – Bottom
`9′	Other
`10′	Unknown

#### **Roadway Class**

#### Variable Name: RODWYCLS

*Definition*: Roadway Class. This variable is developed by the <u>HSIS Laboratory</u> for the purposes of readily classifying roadway data. This variable is a combination of the *Number of Lanes*, *Rural Urban Identification*, *Median Type*, and *Functional Class* variables.

Field Type: Text.

Values: Urban Freeways Urban Freeways Less than 4 Lanes Urban 2 Lane Roads Urban Multilane Divided Non-Freeway Urban Multilane Undivided Non-Freeway Others

Rural Freeways Rural Freeways Less than 4 Lanes Rural 2-Lane Roads Rural Multilane Divided Non-Freeway Rural Multilane Undivided Non-Freeway

## **Road Configuration**

#### Variable Name: RD\_CONF

*Definition:* A code indicating whether or not a trafficway is divided and whether it serves oneway or two-way traffic. Note that median must be present for a divided road.

*Field Type:* Coded.

`1′	One-Way, Not Divided

- '2' Two-Way, Not Divided
- '3' Two-Way, Divided, Unprotected
- '4' Two-Way, Divided, Positive Median
- `5' Unknown

## Road Surface Type

#### Variable Name: RD\_PAVE

*Definition:* Actual surface type of the roadway in the area in which the crash occurred. Examples are: Grooved concrete (areas where the concrete surface has been sawed, scratched, or molded to form grooves intended to improve traction or to make tire noise), Soil (dirt surfaces not identifiable as sand, gravel, or any paved type).

#### Field Type: Coded.

`1'	Concrete
`2′	Grooved Concrete
`3′	Smooth Asphalt
`4′	Coarse Asphalt
`5 <b>′</b>	Gravel
`6'	Sand
`7′	Soil
`8′	Other
`9′	Unknown

# Roadway Contributing Circumstance 1Variable Name: ROADCONT1Roadway Contributing Circumstance 2ROADCONT2

*Definition:* Roadway circumstance/condition that contributed to the crash.

Field Type: Coded.

`oo'	None
`01′	Road Surface Condition
`02′	Debris
`o3′	Rut, Holes, Bumps
`04′	Work Zone
`o5′	Worn Travel-Polished Surface
`o6′	Obstruction in Roadway
`07′	Traffic Control Device Inoperative, Not Visible or Uncoded
`o8′	Shoulders Low, Soft or High
`09′	No Shoulders
`10′	Non-Highway Work
`11′	Other
`12′	Unknown

#### **Route ID**

*Definition:* Primary route and linking variable within the NCDOT LRS (i.e., based on the 11-digit composite route number) (e.g., 50021029098).

Field Type: Numeric.

#### **Route Number**

*Definition:* Route number representing the complete individual route in the State less the 3-digit code representing the county (e.g., 50021029).

Field Type: Numeric.

## **Rural-Urban Identification**

Definition: Indicates if the city is considered Rural or Urban.

Field Type: Coded.

`R′	Rural
`U′	Urban

## **Surface Condition**

*Definition:* Describes the roadway surface conditions at the time and place of the crash. This information is important to identify and correct high wet-surface crash locations in order to provide information for setting coefficient of pavement friction standards. Critical for preventive programs and engineering evaluations.

Field Type: Coded.

HSIS Guidebook – NC

Not Stated
Dry
Wet
Water (Standing, Moving)
lce
Snow
Slush
Sand, Mud, Dirt, Gravel

Variable Name: RURURB

Variable Name: RTE NBR

#### Variable Name: RDSURF

Variable Name: ROUTEID

'08'	Fuel, Oil
`o9′	Other
`10′	Unknown

## Time of Day (24 Hour)

Variable Name: TIME

Definition: Date and time crash occurred.

*Field Type:* Date, HH:MM formatting.

#### **Toward Road**

#### Variable Name: TO\_RD

*Definition*: Toward Road – used in describing crash location for subsequent mileposting (particularly if the route and milepost on which the crash occurred is unknown) (e.g., 40003717).

Additional Information: "<Null>" indicates no data available.

Field Type: Numeric.

## **Toward Road Class**

Definition: The road classification of the 'Toward Road.'

Field Type: Coded.

`CL′	County Line
Ϋ́	Interstate
'LCL'	Local City Street
`MILE′	Mile Marker
`ML′	Municipal Limit
'NC'	NC Route
ΥΡΡ'	Private Property
'PVA'	Public Vehicular Area
'RP'	Rural Paved
`RU′	Rural Unpaved
`SL′	State Line
`SR′	State Route
'UNK'	Unknown
`US′	US Route

HSIS Guidebook – NC

Variable Name: TORD\_CL

#### **Total Property Damage**

*Definition:* Total monetary amount of damage due to the crash (e.g., 200). This includes all vehicular and any additional damage (e.g., railing, telephone post).

Field Type: Numeric.

## **Traffic Control Operating**

Definition: Indication of whether device was operating properly at time of the collision.

Field Type: Coded.

`1′	Yes
`2′	No
`3′	Unknown

#### **Traffic Control Type**

Variable Name: TRF\_CNTL

*Definition:* The type of traffic control device (TCD) present at the collision site and if it was operating and visible at the time. Examples include: RR cross bucks only (the black on white cross-arm device), Human control (law officer, railroad flagman, etc.). It is important that this data element is collected at the scene because the presence of specific devices is better verified at the time of the crash.

Field Type: Coded.

`o′	No Control Present
`1′	Stop Sign
`2′	Yield Sign
`3′	Stop and Go Signal
`4′	Flashing Signal with Stop Sign
`5′	Flashing Signal without Stop Sign
`6′	RR Gate and Flasher
`7′	RR Flasher
`8′	RR Crossbucks Only
`9′	Human Control
`10′	Warning Sign
`11′	School Zone Signs
`12′	Flashing Stop and Go Signal

#### Variable Name: PROPDAM

Variable Name: TRF\_OPER

Crash File		
`13 <sup>′</sup>	Double Yellow Line, No Passing Zone	

`14′

Double Yellow Line, No Passing Zone Other

# Weather Condition 1 Weather Condition 2

#### Variable Name: WEATHER1

#### WEATHER<sub>2</sub>

*Definition:* The general atmospheric conditions that existed at the time of the crash. A maximum of two weather conditions may be recorded in the crash, such as rain and severe crosswinds.

Field Type: Coded.

`o′	Not Stated
`1'	Clear
`2′	Cloudy
`3′	Rain
`4′	Snow
`5′	Fog, Smog, Smoke
`6′	Sleet, Hall, Freezing Rain/Drizzle
`7′	Severe Crosswinds
`8′	Blowing Sand, Dirt, Snow
`9′	Other

## Weather Contributed to Accident

#### Variable Name: WETHCONT

Variable Name: WZ\_ACT

Definition: Indicator that weather contributed to the accident.

Field Type: Coded.

`1′	Yes
`2′	No
`3′	Unknown

## Work Zone Activity

*Definition*: Whether or not there was activity in the work zone when the crash occurred.

Field Type: Coded.

'1' On Going Activity

HSIS Guidebook – NC

83

'2' No Apparent Activity

## Work Zone Area

Variable Name: WZ\_AREA

*Definition:* Type of work zone.

Field Type: Coded.

`1'	Construction Work Area
`2′	Maintenance Work Area
`3′	Utility Work Area
`4′	Intermittent/Moving Work
`5′	No

## Work Zone Crash Location

*Definition*: Part of work zone where crash occurred.

Field Type: Coded.

`1'	Before Work Area
`2′	In Work Area Approach Taper
`3′	Adjacent to Actual Work Area

#### Work Zone Marked

Variable Name: WORKZONE

Variable Name: WZ\_LOC

Definition: Indicates if the work area was marked with warning signs, cones, etc.

*Field Type:* Coded.

`1'	No
`2′	Yes

## 1 Digit Hazmat Number Bottom Placard

*Definition*: The 1-digit number from the bottom of the hazmat placard (e.g., 2).

Additional Information: "<NULL>" indicates no data available.

Field Type: Numeric.

#### 4 Digit Hazmat Number Bottom Placard

Definition: The 4-digit number or name from the hazmat placard (e.g., 1075).

Additional Information: "<NULL>" indicates no data available.

*Field Type:* Numeric.

#### **Alcohol Flag**

Definition: Indicator that the driver or person involved in the unit tested positive for alcohol or other drugs.

Field Type: Coded.

'N' Involves a	negative test for alcohol or other	drugs
----------------	------------------------------------	-------

'Y' Involves a positive test for alcohol or other drugs

#### Amount Damage to Vehicle

*Definition*: Dollar estimate of the cost to restore the vehicle to its condition just prior to the crash or an estimate of the value of the vehicle prior to the crash - whichever is less (e.g., 10000).

*Field Type:* Numeric.

#### **Bicycle Flag**

#### Variable Name: BIKEFLAG

Definition: Indicator that unit represents a pedalcyclist.

Field Type: Coded.

86

#### Variable Name: AMTDAMG

Variable Name: ALCFLAG

Variable Name: HAZ\_NUM1

Variable Name: HAZ\_NUM4

'N' Not a pedalcyclist'Y' Pedalcyclist

## Cargo Body Type

#### Variable Name: BODY

Definition: Cargo body type.

Field Type: Coded.

'o1' Bus (Seats for 16 or More, Including Driver)
'o2'Bus (Seats for Less Than 16, Including Driver)
'o3' Van/Enclosed Box
'o4' Grain/Chips/Gravel Truck
'o5' Pole Truck
'o5' Pole Truck
'o6' Cargo Tank
'o7' Flatbed
'o8' Dump
'o9' Concrete Mixer
'10' Auto Transporter
'11' Garbage/Refuse
'12' Log truck
'13' Other
'14' Intermodal Cargo Container

#### **Cargo Carrier Information**

*Definition*: Identifies whether the carrier name and address were obtained from the truck, shipping papers or the driver.

Field Type: Coded.

`1'	Truck
`2′	Shipping Papers
`3′	Driver
`4′	Log Book

Variable Name: INFO\_SRC\_IND

#### **Case Number**

*Definition*: A unique number assigned to the Crash Report by NC DMV. This value is the primary linking variable between crash, vehicle, and person files (e.g., 105822762).

*Field Type:* Numeric.

#### **CDL Indicator**

Definition: Indicates if this is a commercial driver's license.

*Field Type:* Coded.

• •	No
<b>`</b> 1′	Yes

#### **Chemical Test Given**

*Definition*: Presence and type of chemical test administered to this driver.

*Field Type:* Coded.

`0′	No Test
`1′	Alcohol Test
`2′	Test for Other Drugs
`3′	Alcohol and Other Drugs Test
`4′	Test Refused
`5′	Unknown

#### **Commercial Carrier Business State**

*Definition*: Identifies the state in which the motor carrier company's business is located.

Field Type: Coded.

`AΒ′	Alberta	`CΗ′	Chihuahua, MX
`ΑΕ′	Military Zip Codes 090 - 098	`CI′	Chiapas, MX
`ΒΑ′	Baja Norte, MX	`CL'	Colima, MX
`BC′	British Columbia	`CΜ′	Campeche, MX
`BJ′	Baja Sur, MX	`CU'	Coahuila, MX

#### Variable Name: CASENO

Variable Name: CDL IND

Variable Name: SOB\_TEST

Variable Name: CCB\_STAT

`DC'	Washington, DC	`AL′	Alabama
`DF′	Distrito Federal, MX	<b>`</b> AK′	Alaska
'DO'	Durango, MX	`AZ′	Arizona
`GR′	Guerrero, MX	`AR′	Arkansas
`GU′	Guam	`CΑ′	California
`HL′	Hidalgo, MX	`CO'	Colorado
`JL′	Jalisco, MX	`CT′	Connecticut
`MΒ′	Manitoba	`DΕ′	Delaware
`MC′	Michoacan, MX	`FL′	Florida
`MR′	Morelos, MX	`GA′	Georgia
`MX′	Mexico	`ΗΙ′	Hawaii
'NA′	Nayarit	`ID′	Idaho
'NB′	New Brunswick	`IL′	Illinois
`NF′	Newfoundland	`IN′	Indiana
`NL′	Nuevo Leon, MX	`ΙΑ΄	lowa
`NS′	Nova Scotia	`KS′	Kansas
`ΟΑ΄	Oaxaca, MX	`ΚΥ'	Kentucky
'ON'	Ontario	`LA′	Louisiana
`ΟΤ΄	Other	`ΜΕ′	Maine
`PΒ′	Puebla, MX	`MD′	Maryland
`ΡΕ′	Prince Edward Island	`MΑ′	Massachusetts
`PQ′	Prov Of Quebec	`MI′	Michigan
`PR'	Puerto Rico	`MN′	Minnesota
`QR′	Quintana, MX	`MS′	Mississippi
`UU′	Queretaro, MX	`MΟ′	Missouri
`SI′	Sinaloa, MX	`MΤ′	Montana
`SK′	Saskatchewan	`ΝΕ΄	Nebraska
`SL′	San Luis Potosi, MX	'NV′	Nevada
`SO'	Sonora, MX	`NH′	New Hampshire
`ΤΑ΄	Tamaulipas, MX	'NJ′	New Jersey
`ΤΒ′	Tabasco, MX	`NM′	New Mexico
`TL′	Tlaxcala, MX	'NY′	New York
'VC'	Veracruz, MX	`NC′	North Carolina
١٧٢	Virgin Islands	'ND'	North Dakota
`GE'	Germany	`OΗ'	Ohio
Ϋ́Υ	Yukon	`ΟΚ΄	Oklahoma
ΥU′	Yucatan, MX	'OR'	Oregon
`ΖΑ΄	Zacatecas, MX	Ϋ́ΡΑ΄	Pennsylvania

Unit File			
`RI′	Rhode Island	`WV′	West Virginia
`SC′	South Carolina	`WI′	Wisconsin
`SD′	South Dakota	'WY′	Wyoming
`ΤΝ΄	Tennessee	'NT′	Northwest Territories
`ΤΧ΄	Texas	`AA′	Military Zip Codes 340 Series
`UT'	Utah	`AG'	Aquascalientes, MX
'VT'	Vermont	`AP'	Military Zip Codes 962 - 966
'VA'	Virginia	`CΝ′	Canada
'WA'	Washington		

#### **Commercial Carrier City**

Variable Name: CC\_CITY

*Definition*: City of organization (e.g., ROANOKE).

Additional Information: "<NULL>" indicates no data available.

Field Type: Text.

#### Commercial Carrier Gross Vehicle Weight

*Definition*: The commercial motor vehicle's gross vehicle weight rating (e.g., 81000).

Additional Information: "<NULL>" indicates no data available.

Field Type: Numeric.

#### **Commercial Carrier Number of Axles**

*Definition*: Total number of axles on the truck or bus. Includes the axles on truck semi-trailers and trailers (e.g., 5).

Additional Information: "<NULL>" indicates no data available.

Field Type: Numeric.

#### **Commercial Carrier Zip Code**

*Definition*: Zip code of organization (e.g., 24037).

Additional Information: "<NULL>" indicates no data available.

Variable Name: AXLE\_NBR

Variable Name: CC\_ZIP

Variable Name: GVWR\_WGT

Field Type: Numeric.

# Contributing Circumstances, Non-Motorist 1Variable Name: PEDCONT1Contributing Circumstances, Non-Motorists 2PEDCONT2

Definition: Contributing circumstances, non-motorist.

Field Type: Coded.

`oo'	None
`01′	Coming from Behind Parked Vehicle
`02′	Darting
`o3′	Lying and/or Illegally in Roadway
`04′	Failure to Yield Right of Way
`o5′	Not Visible (Dark Clothing, Etc.)
`o6′	Inattentive (Talking, Eating, Etc.)
`07′	Failure to Obey Traffic Signs, Signals
`o8′	Wrong Side of Road
`o9′	Other
`10′	Unknown

#### **Direct Travel on Route**

Variable Name: DIR\_TRVL

*Definition*: Indicates the vehicle traveling direction.

Field Type: Coded.

East
North
Northeast
Northwest
South
Southeast
Southwest
West

## **Distance to Object Struck**

Variable Name: RD2OBJST

Definition: Location and distance from road to object struck by this vehicle.

HSIS Guidebook – NC

Field Type: Coded.

`oo'	None
`01′	In Road
`02′	Right of Road o-10 ft
`o3′	Right of Road 11-30 ft
`04′	Right of Road Over 30 ft
`o5′	Left of Road o-10 ft
`o6′	Left of Road 11-30 ft
`07′	Left of Road Over 30 ft
`o8′	Straight Ahead o-10 ft
`09′	Straight Ahead 11-30 ft
`10′	Straight Ahead Over 30 ft

#### **Distance Travel After Impact**

Definition: Distance, in feet, vehicle or pedestrian traveled after impact as a result of the force of the collision (e.g., 38).

Additional Information: "<NULL>" indicates no data available.

Field Type: Numeric.

## Driver Alcohol/Drug Suspected

*Definition*: Driver alcohol/drug suspected.

Field Type: Coded.

`o′	No
`1'	Yes – Alcohol, Impairment Suspected
`2′	Yes – Alcohol, No Impairment Detected
`3′	Yes – Other Drugs, Impairment Suspected
`4′	Yes – Other Drugs, No Impairment Detected
`5 <b>′</b>	Yes – Alcohol and Other Drugs, Impairment Detected
`6′	Yes – Alcohol and Other Drugs, No Impairment Detected
`7′	Unknown

#### Variable Name: IMPACTFT

Variable Name: DRG\_SUSP

#### **Driver Alcohol/Drug Test Result**

Definition: Driver alcohol/drug test result.

Field Type: Coded.

`o′	No Test
`1′	No Alcohol or Other Drugs
`2′	Alcohol (Present BAC)
`3′	Other Drugs Reported
`4′	Contaminated Sample/Unusable
`5′	Pending
`6 <b>′</b>	Unknown

#### **Driver Blood Alcohol Percentage**

Definition: Blood alcohol percent of the driver (e.g., 0.06).

Additional Information: "<NULL>" indicates no data available.

*Field Type:* Numeric.

#### **Driver City**

*Definition*: Identifies the city in which the driver or non-motorist currently resides (e.g., WADESBORO).

Field Type: Text.

#### **Driver License Indicator**

*Definition*: Indicates if a driver has a valid driver's license.

Field Type: Coded.

'N' No 'Y' Yes

## **Driver/Pedestrian Age**

Variable Name: DRV\_AGE

*Definition:* Age of the driver or pedestrian involved in the crash (e.g., 21).

HSIS Guidebook – NC

#### Variable Name: DRV\_CITY

Variable Name: LIC\_IND

Variable Name: DRV\_BAC

Variable Name: DRG\_RES

Field Type: Numeric.

## **Driver/Pedestrian Injury**

Definition: Injury severity of the driver or pedestrian.

Field Type: Coded.

`1′	Fatal
`2′	Suspected Serious Injury (A)
`3′	Suspected Minor Injury (B)
`4′	Possible Injury (C)
`5′	No Injury
`6′	Unknown

#### **Driver/Pedestrian Race**

*Definition*: Race of the driver/pedestrian involved in the crash.

*Field Type:* Coded.

`1′	White
`2′	Black
`3′	Native American
`4′	Hispanic
`5′	Asian
`6′	Other
`7′	Unknown

#### **Driver/Pedestrian Seat Position**

Definition: Driver/Pedestrian Seat Position.

Field Type: Coded.

`1'	Font – Left
`2′	Front – Middle
`3′	Front – Right
`4′	Second Seat – Left
`5′	Second Seat – Middle

#### Variable Name: DRV\_INJ

#### Variable Name: DRV\_RACE

#### Variable Name: DRV\_SEAT

- '7' Third Row Left
- '8' Third Road Middle
- '9' Third Road Right
- '10' Sleeper Section of Cab
- '11' Passenger in Other Enclosed Area
- '12' Passenger in Unenclosed Area
- `13' Trailing Unit
- '14' Riding on Vehicle Exterior
- `15' Unknown

#### **Driver/Pedestrian Sex**

Variable Name: DRV\_SEX

Definition: Sex of the driver or pedestrian involved in the crash.

Field Type: Coded.

`1′	Male
`2′	Female
`3′	Unknown

## **Driver Restraint**

Definition: Type of safety restraint used by the driver.

Field Type: Coded.

`o′	None Used
`1′	Lap Belt Only
`2′	Shoulder and Lap Belt
`3′	Shoulder Belt Only
`4′	Child Restraint
`5′	Helmet
`6'	Protective Pads
`7′	Reflective Clothing
<u>`8′</u>	Lighting
`9′	Other
`10′	Unable to Determine

Variable Name: DRV\_REST

#### **Driver Zip Code**

*Definition*: Identifies the zip code in which the driver or non-motorist currently resides (e.g., 281703164).

*Field Type:* Numeric.

#### **Emergency Vehicle Use**

*Definition*: Emergency Vehicle Use.

Field Type: Coded.

`1'	Firetruck
`2′	Ambulance
`3′	Military
`4′	Police
`5′	Other

## **Estimated Original Speed**

Variable Name: TRVL\_SPD

*Definition*: Speed the vehicle was traveling prior to impact (e.g., 35).

*Field Type:* Numeric.

`00′	Not Moving
`01-05'	01-05 MPH
`06-10′	06-10 MPH
`11-15'	11-15 MPH
`16-20'	16-20 MPH
`21-25'	21-25 MPH
`26-30'	26-30 MPH
`31-35'	31-35 MPH
`36-40'	36-40 MPH
`41-45'	41-45 MPH
`46-50'	46-50 MPH
`51-55'	51-55 MPH
`56-60'	56-60 MPH
`61-65'	61-65 MPH
`66-70'	66-70 MPH

#### Variable Name: DRV\_ZIP

Variable Name: EMERGUSE

`71-75'	71-75 MPH
`76-80'	76-80 MPH
`81-85'	81-85 MPH
`86-HIGH'	Over 85 MPH

#### **Government Owned Vehicle Indicator**

Variable Name: GOV\_OWN

Definition: Indicates whether the vehicle involved in the crash was owned by the government.

*Field Type:* Coded.

11	Uncoded
`Ύ	Yes
`Ν′	No

#### Hazardous Cargo

#### Variable Name: HAZMAT

Definition: Indicates whether this vehicle was carrying hazardous materials.

Field Type: Coded.

**	Blank
`o′	Unknown
`1'	Hazardous Material
`2′	No Hazardous Material

## **Impact Speed**

Variable Name: IMPACTSP

*Definition*: Estimated speed in miles per hour. Reflects the speed of each vehicle at the moment of impact (e.g., 35).

Field Type: Numeric.

## **Indicator of Parked Vehicle**

*Definition*: Indicates the vehicle is parked or traveling. If car is parked, then value is 1, otherwise value is null.

Field Type: Coded.

#### Variable Name: PARK\_VEH

`` Traveling

`1' Parked

#### **Insurance Indicator**

Definition: Indicates whether driver has insurance.

Field Type: Coded.

``,`0′	Unknown
`1′	Yes
`2′	No

#### Length of Trailer #1 in Feet

*Definition*: Documents the length, in feet, of the first trailer towed by a vehicle (e.g., 53).

Additional Information: "<NULL>" indicates no data available.

*Field Type:* Numeric.

#### Length of Trailer #2 in Feet

*Definition*: Documents the length, in feet, of the second trailer towed by a vehicle (e.g., 8).

Additional Information: "<NULL>" indicates no data available.

Field Type: Numeric.

## License State

*Definition*: Identifies the State that issued the driver's license to the driver or non-motorist.

Field Type: Coded.

`AΒ′	Alberta	`CI′	Chiapas, MX
`ΑΕ′	Military Zip Codes 090 - 098	`CL′	Colima, MX
`ΒΑ′	Baja Norte, MX	`CΜ′	Campeche, MX
`ΒC′	British Columbia	`CU'	Coahuila, MX
,Bl,	Baja Sur, MX	'DC'	Washington, DC
`CH'	Chihuahua, MX	`DF′	Distrito Federal, MX

Variable Name: INSURED

Variable Name: LENGTRL2

Variable Name: LENGTRL

Variable Name: LIC\_STAT

98

'DO'	Durango, MX	`AZ′	Arizona
`GR′	Guerrero, MX	`AR′	Arkansas
`GU′	Guam	`CA'	California
`HL′	Hidalgo, MX	`CO'	Colorado
`JL′	Jalisco, MX	`CT'	Connecticut
`MΒ′	Manitoba	'DE'	Delaware
`MC′	Michoacan, MX	`FL'	Florida
`MR′	Morelos, MX	`GA′	Georgia
`MΧ′	Mexico	`ΗΙ′	Hawaii
'NA′	Nayarit	`ID′	Idaho
'NB′	New Brunswick	`IL′	Illinois
`NF′	Newfoundland	`IN′	Indiana
`NL′	Nuevo Leon, MX	`IA'	lowa
`NS′	Nova Scotia	`KS′	Kansas
`ΟΑ′	Oaxaca, MX	`КΥ′	Kentucky
`ΟΝΊ	Ontario	`LA'	Louisiana
`ΟΤ΄	Other	`ΜΕ΄	Maine
`PΒ′	Puebla, MX	`MD′	Maryland
`ΡΕ′	Prince Edward Island	`MΑ′	Massachusetts
`PQ′	Prov Of Quebec	`MI′	Michigan
`PR'	Puerto Rico	`MN′	Minnesota
`QR′	Quintana, MX	`MS′	Mississippi
`UU'	Queretaro, MX	`MΟ′	Missouri
`SI′	Sinaloa, MX	`MT′	Montana
`SK′	Saskatchewan	`ΝΕ΄	Nebraska
`SL′	San Luis Potosi, MX	'NV′	Nevada
`SO'	Sonora, MX	`NΗ′	New Hampshire
`ΤΑ΄	Tamaulipas, MX	,ГИ,	New Jersey
`ΤΒ′	Tabasco, MX	`NΜ′	New Mexico
`ΤL′	Tlaxcala, MX	'NY'	New York
'VC'	Veracruz, MX	'NC'	North Carolina
٬۸۱	Virgin Islands	'ND'	North Dakota
`GE'	Germany	`OΗ′	Ohio
Ϋ́Τ	Yukon	`ΟΚ΄	Oklahoma
ΥU′	Yucatan, MX	`OR'	Oregon
`ΖΑ′	Zacatecas, MX	`PΑ′	Pennsylvania
`AL′	Alabama	`RI′	Rhode Island
<b>`</b> ΑΚ′	Alaska	`SC'	South Carolina

Unit File			
`SD′	South Dakota	`WI′	Wisconsin
`ΤΝ΄	Tennessee	'WY'	Wyoming
`ΤΧ΄	Texas	'NT'	Northwest Territories
'UT'	Utah	`AA'	Military Zip Codes 340 Series
٬۸۲	Vermont	`AG'	Aquascalientes, MX
'VA'	Virginia	`ΑΡ΄	Military Zip Codes 962 - 966
`WA′	Washington	`CΝ΄	Canada
`WV′	West Virginia		

#### **Model Year of Vehicle**

*Definition*: Model year of the vehicle (e.g., 2006).

Field Type: Numeric.

#### **Most Harmful Event**

Definition: Most Harmful Event in the crash sequence.

*Field Type:* Coded.

`oo'	Unknown
`01′	Ran off Road Right
'02'	Ran Off Road Left
`o3′	Ran Off Road Straight Ahead
`04 <sup>′</sup>	Jackknife
`05′	Overturn/Rollover
`o6′	Crossed Centerline/Median
`07′	Downhill Runaway
`o8′	Cargo/Equipment Loss or Shift
`o9′	Fire/Explosion
`10′	Immersion
`11′	Equipment Failure
`12′	Separation of Units
`13'	Other Non-Collision
`14'	Pedestrian
`15'	Pedalcyclist
`16′	RR Train, Engine
`17′	Animal

#### Variable Name: VEHYR

Variable Name: MOSTHARM

1-0/	Maurahla Ohiaat
`18'	Movable Object
20'	Parked Motor Vehicle
`21'	Rear End, Slow or Stop
`22′	Rear End, Turn
`23′	Left Turn, Same Roadway
`24′	Left Turn, Different Roadways
`25′	Right Turn, Same Roadway
`26′	Right Turn, Different Roadways
`27′	Head On
`28′	Sideswipe, Same Direction
`29′	Sideswipe, Opposite Direction
,30,	Angle
`31′	Backing Up
`32′	Other Collision with Vehicle
`33′	Tree
`34′	Utility Pole
`35′	Luminaire Pole Non-Breakaway
`36′	Luminaire Pole Breakaway
`37′	Official Highway Sign Non-Breakaway
`38′	Official Highway Sign Breakaway
`39′	Overhead Sign Support
`40'	Commercial Sign
`41'	Guardrail End on Shoulder
`42'	Guardrail Face on Shoulder
`43′	Guardrail End in Median
`44'	Guardrail Face in Median
`45′	Shoulder Barrier End
`46′	Shoulder Barrier Face
`47′	Median Barrier End
`48′	Median Barrier Face
`49 <sup>′</sup>	Bridge Rail End
`50 <b>′</b>	Bridge Rail Face
`51'	Overhead Part Underpass
`52 <i>′</i>	Pier on Shoulder of Underpass
`53 <b>′</b>	Pier in Median of Underpass
`54´	Abutment of Underpass
`55 <b>′</b>	Traffic Island Curb or Median
`56′	Catch Basin or Culvert on Shoulder

- '57' Catch Basin or Culvert on Median
- `58′ Ditch
- `59' Embankment
- `6o' Mailbox
- '61' Fence or Fence Post
- '62' Construction Barrier
- '63' Crash Cushion
- '64' Other Fixed Object

#### **Non-Motorist Action**

Variable Name: PEDACT

Definition: Non-motorist action.

*Field Type:* Coded.

`oo'	Unknown
`01′	Entering or Crossing Specified Location
`02′	Walking, Riding, Running/Jogging with Traffic
`o3′	Walking, Riding, Running/Jogging against Traffic
`04′	Working
`o5′	Pushing Vehicle
`o6′	Approaching or Leaving Vehicle
`07′	Playing
`o8′	Standing
`o9'	Other

#### **Non-Motorist Location Prior to Crash**

Variable Name: PED\_LOC

*Definition*: Location of the non-motorist prior to the crash.

Field Type: Coded.

- `o1'Marked Crosswalk at Intersection`o2'At Intersection but No Crosswalk`o3'Non-Intersection Crosswalk`o4'Driveway Access Crosswalk`o5'In Roadway`o6'Not In Roadway
- '07' Median

`o8′	Island
`o9′	Shoulder
`10′	Sidewalk
`11′	Within 10 ft of Roadway
`12′	Beyond 10 ft of Roadway
`13'	Outside Trafficway
`14′	Shared Use Path or Trails

#### Number of Axles for TRL#1

Definition: Documents the number of axles on the first trailer towed by a vehicle (e.g., 2).

Additional Information: "<NULL>" indicates no data available.

*Field Type:* Numeric.

## Number of Axles for TRL#2

Definition: Documents the number of axles on the second trailer towed by a vehicle (e.g., 2).

Additional Information: "<NULL>" indicates no data available.

*Field Type:* Numeric.

#### **On Road**

Definition: On road (e.g., 50031342).

*Field Type:* Numeric.

#### **On Road Class**

Definition: On road class.

Field Type: Coded.

`CL'	County Line
Ϋ́	Interstate
`LCL'	Local City Street
'MILE'	Mile Marker

Variable Name: ONRD\_CL

Variable Name: ON\_RD

Variable Name: AXLES2

Variable Name: AXLES

HSIS Guidebook – NC

`ML′	Municipal Limit
'NC'	NC Route
ΥΡΥ'	Private Property
'PVA'	Public Vehicular Area
`RP'	Rural Paved
'RU'	Rural Unpaved
`SL′	State Line
`SR′	State Route
'UNK'	Unknown
'US'	US Route

## **Pedestrian Flag**

Variable Name: PEDFLAG

Definition: Indicator that unit represents a pedestrian.

*Field Type:* Coded.

`N′	Not a Pedestrian
Ϋ́Υ	Pedestrian

## **Physical Condition of Driver**

Variable Name: PHYSCOND

*Definition*: Physical condition of the driver when the crash occurred.

Field Type: Coded.

'01'	Apparently Normal
`02′	Illness
`o3′	Fatigue
`04′	Fell Asleep, Fainted, Loss of Consciousness
`05′	Impairment Due to Medications, Drugs, Alcohol
'o6'	Medical Condition
`07′	Other Physical Impairment
`o8′	Restriction Not Complied With
`o9′	Other
`10′	Unknown

Point of Contact #1	Variable Name: PTCONT1
Point of Contact #2	PTCONT2
Point of Contact #3	PTCONT <sub>3</sub>
Point of Contact #4	PTCONT <sub>4</sub>
Point of Contact #5	PTCONT5

*Definition*: Description of each point of contact for this vehicle.

Field Type: Coded.

`o′	Pedestrian and Non-Contact Vehicle
`1′	Font – Right
`2′	Front – Center
`3′	Front – Left
`4′	Front – Left Corner
`5′	Front – Left Fender
<b>`</b> 6′	Left Side (Door)
`7′	Back Left Fender
`8′	Rear – Left Corner
`9′	Trunk
`10′	Rear Windshield
`11′	Roof
`12′	Front Windshield
`13'	Hood
`14'	Rear – Left
`15'	Rear – Center
`16′	Rear – Right
`17′	Rear – Right Corner
`18′	Back Right Fender
`19′	Right Side (Door)
`20′	Front – Right Fender
`21′	Front – Right Corner
`22′	Underneath – Front
`23'	Underneath – Center
`24'	Underneath – Rear
`25'	Rollover
`26′	Unknown
`27′	Front

`28′	Left Side
`29'	Rear
,30,	Right Side
`31′	Tractor-Trailer Front Left Side
`32'	Tractor-Trailer Back Left Side
`33′	Tractor-Trailer Rear Left Corner
`34′	Tractor-Trailer Rear Left
`35′	Tractor-Trailer Rear Center
`36′	Tractor-Trailer Rear Right
`37′	Tractor-Trailer Rear Right Corner
`38′	Tractor-Trailer Back Right Side
`39′	Tractor-Trailer Front Right Side
`40′	Tractor-Trailer Roof

## Post – Crash Fire

*Definition*: Whether or not the crash resulted in a fire.

*Field Type:* Coded.

`o′	No
`1′	Yes
`2′	Unknown

# **Posted Speed Limit**

*Definition:* Authorized speed limit for the vehicle at the time of the crash (e.g., 35).

Field Type: Coded.

`oo'	Not Stated
`01′	Unknown
`10′	10 Mph
`15'	15 Mph
`20′	20 Mph
`25'	25 Mph
,30,	30 Mph
`35′	35 Mph
`40'	40 Mph

Variable Name: FIRE

Variable Name: SPDLIM

`45 <sup>′</sup>	45 Mph
`50 <i>'</i>	50 Mph
`55 <sup>′</sup>	55 Mph
`6o'	6o Mph
`6 <u>5</u> ′	65 Mph
`70′	70 Mph
<i>'</i> 75'	75 Mph
Other	Error Codes

#### School Bus Contact Vehicle

#### Variable Name: SCH\_BUS1

Definition: Whether or not this vehicle was a school bus and was a contact vehicle in this crash.

Field Type: Coded.

`o′	No
`1′	Yes
`2′	Unknown

#### School Bus Non-Contact Vehicle

Variable Name: SCH\_BUS2

*Definition*: Whether or not this vehicle was a school bus and was a non-contact vehicle in this crash.

*Field Type:* Coded.

`o′	No
`1′	Yes
`2′	Unknown

Sequence of Events 1	Variable Name: EVENT1
Sequence of Events 2	EVENT2
Sequence of Events 3	EVENT <sub>3</sub>
Sequence of Events 4	EVENT4

*Definition*: Description of each event in the crash sequence for this vehicle.

Field Type: Coded.

HSIS Guidebook – NC

'00'	Unknown
`01′	Ran off Road Right
`02′	Ran Off Road Left
`o3′	Ran Off Road Straight Ahead
`04′	Jackknife
`o5′	Overturn/Rollover
`o6′	Crossed Centerline/Median
`07′	Downhill Runaway
`o8′	Cargo/Equipment Loss or Shift
'09'	Fire/Explosion
`10′	Immersion
`11'	Equipment Failure
`12′	Separation of Units
`13'	Other Non-Collision
`14'	Pedestrian
`15'	Pedalcyclist
`16'	RR Train, Engine
`17'	Animal
`18′	Movable Object
<b>'</b> 20 <b>'</b>	Parked Motor Vehicle
`21′	Rear End, Slow or Stop
`22′	Rear End, Turn
`23′	Left Turn, Same Roadway
`24'	Left Turn, Different Roadways
`25'	Right Turn, Same Roadway
`26'	Right Turn, Different Roadways
`27′	Head On
`28′	Sideswipe, Same Direction
`29'	Sideswipe, Opposite Direction
,30,	Angle
`31'	Backing Up
`32′	Other Collision with Vehicle
<b>'</b> 33'	Tree
`34′	Utility Pole
`35′	Luminaire Pole Non-Breakaway
`36′	Luminaire Pole Breakaway
'37'	Official Highway Sign Non-Breakaway
<u>`¬</u> 8′	Official Highway Sign Breakaway

'38' Official Highway Sign Breakaway

`39′	Overhead Sign Support
`40′	Commercial Sign
`41′	Guardrail End on Shoulder
`42'	Guardrail Face on Shoulder
`43 <sup>′</sup>	Guardrail End in Median
`44'	Guardrail Face in Median
`45 <b>′</b>	Shoulder Barrier End
`46′	Shoulder Barrier Face
`47′	Median Barrier End
`48′	Median Barrier Face
`49 <sup>′</sup>	Bridge Rail End
`50 <b>′</b>	Bridge Rail Face
`51'	Overhead Part Underpass
`52'	Pier on Shoulder of Underpass
`53 <sup>′</sup>	Pier in Median of Underpass
`54 <sup>′</sup>	Abutment of Underpass
`55 <b>′</b>	Traffic Island Curb or Median
`56′	Catch Basin or Culvert on Shoulder
`57 <sup>′</sup>	Catch Basin or Culvert on Median
`58′	Ditch
`59 <b>′</b>	Embankment
`6o'	Mailbox
`61′	Fence or Fence Post
`62'	Construction Barrier
`6 <sub>3</sub> ′	Crash Cushion
`64 <b>′</b>	Other Fixed Object

### TAD #1 (Area of Damage) Location TAD #2 Location TAD #3 Location

*Definition*: Identifies the damage area on the vehicle.

*Field Type:* Coded.

`BC′	Rear Center
'BD'	Rear Distributed
`BL′	Rear Left Corner

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Variable Name: V\_DAMAGE V\_DAMAGE2 V\_DAMAGE3

	Description Constant
'BR'	Rear Right Corner
`FC΄	Front Concentrated
`FD'	Front Distributed
`FL'	Front Left Corner
`FR'	Front Right Corner
`L&T′	Left Side & Top (Rollover)
`LBQ′	Left Side Rear Quarter
`LD′	Left Side Distributed
`LFQ′	Left Side Front Quarter
`LΡ′	Left Side (Door)
'ND'	No Damage
'ND' 'R&T'	No Damage Right Side & Top (Rollover)
	5
'R&T'	Right Side & Top (Rollover)
`R&T' `RBQ'	Right Side & Top (Rollover) Right Side Rear Quarter
`R&T' `RBQ' `RD'	Right Side & Top (Rollover) Right Side Rear Quarter Right Side Distributed
'R&T' 'RBQ' 'RD' 'RFQ'	Right Side & Top (Rollover) Right Side Rear Quarter Right Side Distributed Right Side Front Quarter
`R&T' `RBQ' `RD' `RFQ' `RP'	Right Side & Top (Rollover) Right Side Rear Quarter Right Side Distributed Right Side Front Quarter Right Side (Door)
'R&T' 'RBQ' 'RD' 'RFQ' 'RP' 'TOP'	Right Side & Top (Rollover) Right Side Rear Quarter Right Side Distributed Right Side Front Quarter Right Side (Door) Top
`R&T' `RBQ' `RD' `RFQ' `RP' `TOP' `UND'	Right Side & Top (Rollover) Right Side Rear Quarter Right Side Distributed Right Side Front Quarter Right Side (Door) Top Underneath

### TAD#1 Severity TAD#2 Severity TAD#3 Severity

*Definition*: Rates the severity of damage to the area or damage on the vehicle from a scale from o (no damage) to 7 (most severe damage).

Field Type: Coded.

`o′	Not Stated
`1′	Least Severe Damage #1
`2′	Some Severe Damage #2
`3′	Some Severe Damage #3
`4′	Some Severe Damage #4
`5′	Severe Damage #5
`6′	More Severe Damage #6
`7′	Most Severe Damage #7

Variable Name: DAMSEV DAMSEV2 DAMSEV3 **`**8′

Invalid

#### **Tire Impressions in Feet**

*Definition*: Length, in feet, of tire impressions (skid marks, tire print yaw) for vehicle prior to impact (e.g., o).

Additional Information: "<NULL>" indicates no data available.

*Field Type:* Numeric.

#### **Total Occupants in Vehicle**

*Definition*: The total number of occupants in the Unit (e.g., 1).

*Field Type:* Numeric.

#### **Trailer Type**

Definition: Trailer type.

*Field Type:* Coded.

`00′	No Trailer
`01′	Boat Trailer
`02′	Camper
`o3′	Utility Trailer
`04 <sup>′</sup>	Horse Trailer
`o5′	House Trailer
`o6′	Towed Vehicle
`07′	Other Non-Semi Trailer
`o8′	Tanker
`o9′	Enclosed Van
`10′	Flatbed or Platform
`11′	Other Semi Trailer
`12′	Double Trailer

Variable Name: OCPNT\_CNT

Variable Name: TIRESKID

Variable Name: TRL\_TYPE

#### **Unit Number**

*Definition*: Unique unit number of the unit/vehicle involved in the crash, such as 1, 2, etc. (e.g., 1).

*Field Type:* Numeric.

#### Unit Type

Definition: Indicates the type of unit involved in the crash, (i.e., vehicle, pedestrian, other).

*Field Type:* Coded.

Blank
Commercial
Hit and Run
Other
Pedestrian
Vehicle

#### **Vehicle Defects**

Variable Name: VEH\_DEF

Definition: The type of defect the vehicle has, if any.

Field Type: Coded.

None Detected
Brakes
Headlights
Rear Lights
Steering
Tires
Other Defects
Unknown

#### Vehicle Drivable

#### Variable Name: DRIVABLE

*Definition*: Whether or not this vehicle was drivable after the crash (i.e., was not towed from scene).

Variable Name: UNIT\_TYP

Field Type: Coded.

`o′	No
`1′	Yes
`2′	Unknown

#### Vehicle Make

Variable Name: MAKENAME

Definition: Make of the vehicle involved in the crash (e.g., TOYO).

Field Type: Text.

#### Vehicle Maneuver

Variable Name: MANEUVER

Definition: Vehicle maneuver.

Field Type: Coded.

<b>'</b> 1'	Stopped in Travel Lane
`2′	Parked Out of Travel Lanes
`3′	Parked in Travel Lanes
`4′	Going Straight Ahead
`5′	Changing Lanes or Merging
`6 <b>′</b>	Passing
`7′	Making Right Turn
`8′	Making Left Turn
`9′	Making U Turn
`10′	Backing
`11′	Slowing or Stopping
`12′	Starting in Roadway
`13'	Parking
`14′	Leaving Parked Position
`15'	Avoiding Object in Road
`16′	Other

#### **Vehicle Owner City**

Variable Name: OWN\_CITY

*Definition*: City of residence for the vehicle owner (e.g., WADESBORO).

Field Type: Text.

#### Vehicle Owner Zip Code

*Definition*: Vehicle owner zip code (e.g., 28170).

*Field Type:* Numeric.

#### Vehicle Seizure DWI

Definition: Whether or not this vehicle was seized due to a DWI violation.

Field Type: Coded.

`0′	No
`1′	Yes
`2′	Unknown

#### Vehicle Type

Definition: Type of vehicle involved in the crash.

Field Type: Coded.

'01' Passenger Car `o2'Pickup '03' Light Truck (Mini-Van, Panel) '04'Sport Utility `o5'Van 'o6'Commercial Bus '07' School Bus 'o8'Activity Bus '09'Other Bus '10' Single Unit Truck (2-Axle, 6-Tire) '11' Single Unit Truck (3 Axles or More) `12' Truck/Trailer '13' Truck/Tractor '14' Tractor/Semi Trailer '15' Tractor/Doubles '16' Unknown Heavy Truck '17' Taxicab `18' Farm Equipment

Variable Name: VEHTYPE

Variable Name: VEH\_SEIZ

'19' Farm Tractor
'20' Motorcycle
'21' Moped
'22' Motor Scooter or Motor Bike
'23' Pedalcycle
'24' Pedestrian
'25' Motor Home/Recreational Vehicle
'26' Other
'27' All Terrain Vehicle (ATV)
'28' Fire Truck
'29' EMS Vehicle, Ambulance, Rescue
'30' Military
'31' Police
'32' Unknown

#### Vehicle Underride/Override

*Definition*: Whether this vehicle underrides (e.g., goes under) or overrides (e.g., runs over) another vehicle in this crash.

Field Type: Coded.

`1′	Underride
`2′	Override
`3′	Neither Underride or Override
`4′	Unknown

### Violating/Contributing Factor #1 Violating/Contributing Factor #2 Violating/Contributing Factor #3

Definition: Violating/contributing factor.

Field Type: Coded.

`oo'	No Contributing Circumstances
`01′	Disregarded Yield Sign
`02′	Disregarded Stop Sign
`o3′	Disregarded Other Traffic Signs

### Variable Name: CONTRIB1 CONTRB2 CONTRIB3

#### Variable Name: UNDEROVR

'os'Disregarded Road Markings'o6'Exceeded Authorized Speed Limit'o7'Exceeded Safe Speed for Conditions'08'Failure to Reduce Speed'09'Improper Turn'10'Right Turn on Red'11'Crossed Center Line/Going Wrong Way'12'Improper Lane'14'Overcorrected/Oversteered'15'Passed Stopped School Bus'16'Passed on Curve'18'Other Improper Passing'19'Failed to Yield Right of Way'20'Improper Passing'21'Improper Pasking'22'Improper Parking'23'Driver Distracted'24'Improper Parking'23'Driver Distracted'24'Improper or No Signal'25'Followed Too Closely'26'Operated Defective Equipment'27'Swerved or Avoided Due to Wind, Slippery Surface, Vehicle, Object, Non-Motorist'28'Visibility Obstructed'29'Operated Defective Equipment'30'Alcohol Use'31'Drug Use'32'Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)'36'Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)	`04′	Disregarded Traffic Signals
'06'Exceeded Authorized Speed Limit'07'Exceeded Safe Speed for Conditions'08'Failure to Reduce Speed'09'Improper Turn'10'Right Turn on Red'11'Crossed Center Line/Going Wrong Way'12'Improper Lane Change'13'Use of Improper Lane'14'Overcorrected/Oversteered'15'Passed Stopped School Bus'16'Passed on Hill'17'Passed on Curve'18'Other Improper Passing'19'Failed to Yield Right of Way'20'Inattention'21'Improper Backing'22'Improper Paksing'23'Driver Distracted'24'Improper or No Signal'25'Followed Too Closely'26'Operated Vehicle in Erratic, Reckless, Careless, Negligent or Aggressive Manner'27'Swerved or Avoided Due to Wind, Slippery Surface, Vehicle, Object, Non- Motorist'28'Visibility Obstructed'29'Operated Defective Equipment'30'Alcohol Use'31'Drug Use'32'Other'33'Unable to Determine'34'Unknown'35'Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)'36'Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)	`o5′	Disregarded Road Markings
'08'Failure to Reduce Speed'09'Improper Turn'10'Right Turn on Red'11'Crossed Center Line/Going Wrong Way'12'Improper Lane Change'13'Use of Improper Lane'14'Overcorrected/Oversteered'15'Passed Stopped School Bus'16'Passed on Hill'17'Passed on Curve'18'Other Improper Passing'19'Failed to Yield Right of Way'20'Inattention'21'Improper Backing'22'Improper Parking'23'Driver Distracted'24'Operated Vehicle in Erratic, Reckless, Careless, Negligent or Aggressive Manner'27'Swerved or Avoided Due to Wind, Slippery Surface, Vehicle, Object, Non- Motorist'28'Visibility Obstructed'29'Operated Defective Equipment'30'Alcohol Use'31'Drug Use'32'Other'33'Unable to Determine'34'Unknown'35'Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)'36'Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)	`o6′	Exceeded Authorized Speed Limit
'og'Improper Turn'10'Right Turn on Red'11'Crossed Center Line/Going Wrong Way'12'Improper Lane Change'13'Use of Improper Lane'14'Overcorrected/Oversteered'14'Passed Stopped School Bus'16'Passed Stopped School Bus'16'Passed on Hill'17'Passed on Curve'18'Other Improper Passing'19'Failed to Yield Right of Way'20'Inattention'21'Improper Backing'22'Improper Parking'23'Driver Distracted'24'Improper or No Signal'25'Followed Too Closely'26'Operated Vehicle in Erratic, Reckless, Careless, Negligent or Aggressive Manner'27'Swerved or Avoided Due to Wind, Slippery Surface, Vehicle, Object, Non- Motorist'28'Visibility Obstructed'29'Operated Defective Equipment'30'Alcohol Use'31'Drug Use'33'Unable to Determine'34'Unknown'35'Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)'36'Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)	`07′	Exceeded Safe Speed for Conditions
'10'Right Turn on Red'11'Crossed Center Line/Going Wrong Way'12'Improper Lane Change'13'Use of Improper Lane'14'Overcorrected/Oversteered'15'Passed Stopped School Bus'16'Passed on Hill'17'Passed on Curve'18'Other Improper Passing'19'Failed to Yield Right of Way'20'Inattention'21'Improper Backing'22'Improper Backing'23'Driver Distracted'24'Improper on No Signal'25'Followed Too Closely'26'Operated Vehicle in Erratic, Reckless, Careless, Negligent or Aggressive Manner'27'Swerved or Avoided Due to Wind, Slippery Surface, Vehicle, Object, Non- Motorist'28'Visibility Obstructed'29'Operated Defective Equipment'30'Alcohol Use'31'Drug Use'32'Unable to Determine'33'Unable to Determine'34'Unknown'35'Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)'36'Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)	`o8′	Failure to Reduce Speed
'11'Crossed Center Line/Going Wrong Way'12'Improper Lane Change'13'Use of Improper Lane'14'Overcorrected/Oversteered'15'Passed Stopped School Bus'16'Passed on Curve'18'Other Improper Passing'19'Failed to Yield Right of Way'20'Inattention'21'Improper Pasking'22'Improper Parking'23'Driver Distracted'24'Improper on No Signal'25'Followed Too Closely'26'Operated Vehicle in Erratic, Reckless, Careless, Negligent or Aggressive Manner'27'Swerved or Avoided Due to Wind, Slippery Surface, Vehicle, Object, Non- Motorist'28'Visibility Obstructed'29'Operated Defective Equipment'30'Alcohol Use'31'Urug Use'32'Unknown'33'Unable to Determine'34'Unknown'35'Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)'36'Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)	`o9′	Improper Turn
'12'Improper Lane Change'13'Use of Improper Lane'14'Overcorrected/Oversteered'15'Passed Stopped School Bus'16'Passed on Hill'17'Passed on Curve'18'Other Improper Passing'19'Failed to Yield Right of Way'20'Inattention'21'Improper Backing'22'Improper Parking'23'Driver Distracted'24'Improper on No Signal'25'Followed Too Closely'26'Operated Vehicle in Erratic, Reckless, Careless, Negligent or Aggressive Manner'27'Swerved or Avoided Due to Wind, Slippery Surface, Vehicle, Object, Non- Motorist'28'Visibility Obstructed'29'Operated Defective Equipment'30'Alcohol Use'31'Drug Use'32'Unable to Determine'34'Unknown'35'Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)'36'Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)	`10′	Right Turn on Red
'13'Use of Improper Lane'14'Overcorrected/Oversteered'15'Passed Stopped School Bus'16'Passed on Hill'17'Passed on Curve'18'Other Improper Passing'19'Failed to Yield Right of Way'20'Inattention'21'Improper Backing'22'Improper Parking'23'Driver Distracted'24'Improper on No Signal'25'Followed Too Closely'26'Operated Vehicle in Erratic, Reckless, Careless, Negligent or Aggressive Manner'27'Swerved or Avoided Due to Wind, Slippery Surface, Vehicle, Object, Non- Motorist'28'Visibility Obstructed'29'Operated Defective Equipment'30'Alcohol Use'31'Drug Use'32'Other'33'Unable to Determine'34'Unknown'35'Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)'36'Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)	`11'	Crossed Center Line/Going Wrong Way
'14'Overcorrected/Oversteered'15'Passed Stopped School Bus'16'Passed on Hill'17'Passed on Curve'18'Other Improper Passing'19'Failed to Yield Right of Way'20'Inattention'21'Improper Backing'22'Improper Parking'23'Driver Distracted'24'Improper or No Signal'25'Followed Too Closely'26'Operated Vehicle in Erratic, Reckless, Careless, Negligent or Aggressive Manner'27'Swerved or Avoided Due to Wind, Slippery Surface, Vehicle, Object, Non- Motorist'28'Visibility Obstructed'29'Operated Defective Equipment'30'Alcohol Use'31'Drug Use'32'Other'33'Unable to Determine'34'Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)'36'Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)	`12′	Improper Lane Change
'15'Passed Stopped School Bus'16'Passed on Hill'17'Passed on Curve'18'Other Improper Passing'19'Failed to Yield Right of Way'20'Inattention'21'Improper Backing'22'Improper Parking'23'Driver Distracted'24'Improper or No Signal'25'Followed Too Closely'26'Operated Vehicle in Erratic, Reckless, Careless, Negligent or Aggressive Manner'27'Swerved or Avoided Due to Wind, Slippery Surface, Vehicle, Object, Non- Motorist'28'Visibility Obstructed'29'Operated Defective Equipment'30'Alcohol Use'31'Drug Use'32'Other'33'Unable to Determine'34'Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)'36'Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)	`13'	Use of Improper Lane
'16'Passed on Hill'17'Passed on Curve'18'Other Improper Passing'19'Failed to Yield Right of Way'20'Inattention'21'Improper Backing'22'Improper Parking'23'Driver Distracted'24'Improper on No Signal'25'Followed Too Closely'26'Operated Vehicle in Erratic, Reckless, Careless, Negligent or Aggressive Manner'27'Swerved or Avoided Due to Wind, Slippery Surface, Vehicle, Object, Non- Motorist'28'Visibility Obstructed'29'Operated Defective Equipment'30'Alcohol Use'31'Drug Use'32'Uhable to Determine'34'Unknown'35'Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)'36'Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)	<b>'14</b> '	Overcorrected/Oversteered
'17'Passed on Curve'18'Other Improper Passing'19'Failed to Yield Right of Way'20'Inattention'21'Improper Backing'22'Improper Parking'23'Driver Distracted'24'Improper or No Signal'25'Followed Too Closely'26'Operated Vehicle in Erratic, Reckless, Careless, Negligent or Aggressive Manner'27'Swerved or Avoided Due to Wind, Slippery Surface, Vehicle, Object, Non- Motorist'28'Visibility Obstructed'29'Operated Defective Equipment'30'Alcohol Use'31'Drug Use'32'Unable to Determine'33'Unable to Determine'34'Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)'36'Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)	`15'	Passed Stopped School Bus
<ul> <li>'18' Other Improper Passing</li> <li>'19' Failed to Yield Right of Way</li> <li>'20' Inattention</li> <li>'21' Improper Backing</li> <li>'22' Improper Parking</li> <li>'23' Driver Distracted</li> <li>'24' Improper or No Signal</li> <li>'25' Followed Too Closely</li> <li>'26' Operated Vehicle in Erratic, Reckless, Careless, Negligent or Aggressive Manner</li> <li>'27' Swerved or Avoided Due to Wind, Slippery Surface, Vehicle, Object, Non-Motorist</li> <li>'28' Visibility Obstructed</li> <li>'29' Operated Defective Equipment</li> <li>'30' Alcohol Use</li> <li>'32' Other</li> <li>'33' Unable to Determine</li> <li>'34' Unknown</li> <li>'35' Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)</li> <li>'36' Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)</li> </ul>	`16'	Passed on Hill
'19'Failed to Yield Right of Way'20'Inattention'21'Improper Backing'22'Improper Parking'23'Driver Distracted'24'Improper or No Signal'25'Followed Too Closely'26'Operated Vehicle in Erratic, Reckless, Careless, Negligent or Aggressive Manner'27'Swerved or Avoided Due to Wind, Slippery Surface, Vehicle, Object, Non- Motorist'28'Visibility Obstructed'29'Operated Defective Equipment'30'Alcohol Use'31'Drug Use'32'Other'33'Unable to Determine'34'Unknown'35'Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)'36'Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)	`17′	Passed on Curve
'20'Inattention'21'Improper Backing'22'Improper Parking'23'Driver Distracted'24'Improper or No Signal'25'Followed Too Closely'26'Operated Vehicle in Erratic, Reckless, Careless, Negligent or Aggressive Manner'27'Swerved or Avoided Due to Wind, Slippery Surface, Vehicle, Object, Non- Motorist'28'Visibility Obstructed'29'Operated Defective Equipment'30'Alcohol Use'31'Drug Use'32'Other'33'Unable to Determine'34'Unknown'35'Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)'36'Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)	`18′	Other Improper Passing
'21'Improper Backing'22'Improper Parking'23'Driver Distracted'24'Improper or No Signal'25'Followed Too Closely'26'Operated Vehicle in Erratic, Reckless, Careless, Negligent or Aggressive Manner'27'Swerved or Avoided Due to Wind, Slippery Surface, Vehicle, Object, Non- Motorist'28'Visibility Obstructed'29'Operated Defective Equipment'30'Alcohol Use'31'Drug Use'32'Other'33'Unable to Determine'34'Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)'36'Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)	<b>'19'</b>	Failed to Yield Right of Way
'22'Improper Parking'23'Driver Distracted'24'Improper or No Signal'25'Followed Too Closely'26'Operated Vehicle in Erratic, Reckless, Careless, Negligent or Aggressive Manner'27'Swerved or Avoided Due to Wind, Slippery Surface, Vehicle, Object, Non- Motorist'28'Visibility Obstructed'29'Operated Defective Equipment'30'Alcohol Use'31'Drug Use'32'Other'33'Unable to Determine'34'Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)'36'Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)	`20′	Inattention
'23'Driver Distracted'24'Improper or No Signal'25'Followed Too Closely'26'Operated Vehicle in Erratic, Reckless, Careless, Negligent or Aggressive Manner'27'Swerved or Avoided Due to Wind, Slippery Surface, Vehicle, Object, Non- Motorist'28'Visibility Obstructed'29'Operated Defective Equipment'30'Alcohol Use'31'Drug Use'32'Other'33'Unable to Determine'34'Unknown'35'Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)'36'Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)	`21′	Improper Backing
'24'Improper or No Signal'25'Followed Too Closely'26'Operated Vehicle in Erratic, Reckless, Careless, Negligent or Aggressive Manner'27'Swerved or Avoided Due to Wind, Slippery Surface, Vehicle, Object, Non- Motorist'28'Visibility Obstructed'29'Operated Defective Equipment'30'Alcohol Use'31'Drug Use'32'Other'33'Unable to Determine'34'Unknown'35'Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)'36'Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)	'22'	Improper Parking
'25'Followed Too Closely'26'Operated Vehicle in Erratic, Reckless, Careless, Negligent or Aggressive Manner'27'Swerved or Avoided Due to Wind, Slippery Surface, Vehicle, Object, Non- Motorist'28'Visibility Obstructed'29'Operated Defective Equipment'30'Alcohol Use'31'Drug Use'32'Other'33'Unable to Determine'34'Unknown'35'Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)'36'Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)	`23′	Driver Distracted
'26'Operated Vehicle in Erratic, Reckless, Careless, Negligent or Aggressive Manner'27'Swerved or Avoided Due to Wind, Slippery Surface, Vehicle, Object, Non- Motorist'28'Visibility Obstructed'29'Operated Defective Equipment'30'Alcohol Use'31'Drug Use'32'Other'33'Unable to Determine'34'Unknown'35'Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)'36'Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)	`24'	Improper or No Signal
Manner'27'Swerved or Avoided Due to Wind, Slippery Surface, Vehicle, Object, Non-Motorist'28'Visibility Obstructed'29'Operated Defective Equipment'30'Alcohol Use'31'Drug Use'32'Other'33'Unable to Determine'34'Unknown'35'Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)'36'Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)	`25'	Followed Too Closely
`27'Swerved or Avoided Due to Wind, Slippery Surface, Vehicle, Object, Non-Motorist`28'Visibility Obstructed`29'Operated Defective Equipment`30'Alcohol Use`31'Drug Use`32'Other`33'Unable to Determine`34'Unknown`35'Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)`36'Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)	`26'	Operated Vehicle in Erratic, Reckless, Careless, Negligent or Aggressive
Motorist'28'Visibility Obstructed'29'Operated Defective Equipment'30'Alcohol Use'31'Drug Use'32'Other'33'Unable to Determine'34'Unknown'35'Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)'36'Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)		Manner
'28'Visibility Obstructed'29'Operated Defective Equipment'30'Alcohol Use'31'Drug Use'32'Other'33'Unable to Determine'34'Unknown'35'Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)'36'Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)	`27′	Swerved or Avoided Due to Wind, Slippery Surface, Vehicle, Object, Non-
'29'Operated Defective Equipment'30'Alcohol Use'31'Drug Use'32'Other'33'Unable to Determine'34'Unknown'35'Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)'36'Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)		Motorist
'30'Alcohol Use'31'Drug Use'32'Other'33'Unable to Determine'34'Unknown'35'Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)'36'Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)	`28′	
'31'Drug Use'32'Other'33'Unable to Determine'34'Unknown'35'Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)'36'Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)	`29'	Operated Defective Equipment
'32'Other'33'Unable to Determine'34'Unknown'35'Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)'36'Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)	,30,	Alcohol Use
'33'Unable to Determine'34'Unknown'35'Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)'36'Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)	`31'	Drug Use
'34'Unknown'35'Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)'36'Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)	`32′	Other
<ul> <li>'35' Driver Distracted by Electronic Communication Device (Cell Phone, Texting, Etc.)</li> <li>'36' Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)</li> </ul>	`33′	Unable to Determine
Texting, Etc.) '36' Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)	`34′	Unknown
Texting, Etc.) '36' Driver Distracted by Other Electronic Device (Navigation Device, DVD Player, Etc.)	`35 <b>′</b>	Driver Distracted by Electronic Communication Device (Cell Phone,
Player, Etc.)		Texting, Etc.)
, <u>-</u>	`36′	Driver Distracted by Other Electronic Device (Navigation Device, DVD
		Player, Etc.)
'37' Driver Distracted by Other Inside the Vehicle	`37 <sup>′</sup>	Driver Distracted by Other Inside the Vehicle

`38′

Driver Distracted by External Distraction (Outside the Vehicle)

#### **Vision Obstruction**

Variable Name: VISION

Definition: Vision obstruction for this vehicle's driver that contributed to the crash.

Field Type: Coded.

`oo'None `o1' Vehicle Window(s) Obscured `o2'Trees, Crops, Brush, Etc. `o3' Building(s) `o4'Embankment `o5' Sign(s) `o6'Hillcrest `o7' Parked Vehicle(s) `o6'Hillcrest `o7' Parked Vehicle(s) `o8'Vehicle(s) in Traffic/Moving `o9'Blinded, Headlights `10' Blinded, Sunlight '11' Blinded, Other Lights `12' Other `13' Unknown

#### Width of Trailer #1

#### Variable Name: WIDTRL

Variable Name: WIDTRL2

Definition: Documents the width, in inches, of the first trailer towed by a vehicle (e.g., 97).

Additional Information: "<NULL>" indicates no data available.

*Field Type:* Numeric.

#### Width of Trailer #2

Definition: Documents the width, in inches, of the second trailer towed by a vehicle (e.g., 97).

Additional Information: "<NULL>" indicates no data available.

*Field Type:* Numeric.

#### **Airbag Deployed**

Definition: Whether or not the vehicle's airbag was deployed when the crash occurred.

Field Type: Coded.

'0'	No Air Bag(s)
'1'	Not Deployed
'2'	Deployed Front
'3'	Deployed Side
'4'	Deployed Both Front and Side
'5'	Unknown

#### **Airbag Switch Status**

Definition: Airbag Switch Status.

Field Type: Coded.

'0'	No On-Off Switch
'1'	Switch in On Position
'2'	Switch in Off Position
'3'	Unknown if Switch Present
'4'	Unknown Position in Vehicle

#### **Case Number**

Definition: A unique number assigned to the Crash Report by NC DMV. This value is the primary linking variable between crash, vehicle, and person files (e.g., 105471365).

Field Type: Numeric.

#### **Ejection**

#### Variable Name: EJECT

Variable Name: CASENO

Definition: The location of each occupant's body as being completely or partially thrown from the vehicle as a result of the crash. Should be left blank for operators of railway vehicles.

Field Type: Coded.

'1' Not Ejected

HSIS Guidebook – NC

Variable Name: AIR\_SW



- '2' Totally Ejected
- '3' Partially Ejected
- '4' Unknown

#### **Emergency Medical Service**

Definition: Emergency medical service description (e.g., CABARRUS COUNTY EMS).

Field Type: Text.

#### **Occupant Race**

Definition: Race of the person involved in the crash.

Field Type: Coded.

'1'	White
'2'	Black
'3'	Native American
'4'	Hispanic
<b>'</b> 5'	Asian
<b>'</b> 6'	Other
'7'	Unknown

#### **Occupant Restraint**

Definition: Occupant restraint used by this person.

Field Type: Coded.

'00'	None Used
'01'	Lap Belt Only
'02'	Shoulder and Lap Belt
'03'	Shoulder Belt Only
'04'	Child Restraint
'05'	Helmet
'06'	Protective Pads
'07'	Reflective Clothing
'08'	Lighting
'09'	Other

Variable Name: REST1

Variable Name: EMS\_DES

Variable Name: RACE

'10' Unable to Determine

#### **Occupant Sex**

Definition: Sex of the occupant in the vehicle involved in the crash.

Field Type: Coded.

'1'	Male
'2'	Female
'3'	Unknown

#### **Person Age**

Definition: Person's age (e.g., 22).

*Field Type:* Numeric.

#### **Person City**

*Definition*: City of origin of the individual person (e.g., KANNAPOLIS).

Field Type: Text.

#### **Person Injury**

*Definition*: Injury to the person involved in the crash.

Field Type: Coded.

'1'	K Killed
'2'	A Type Injury (Suspected Serious)
'3'	B Type Injury (Suspected Minor)
'4'	C Type Injury (Possible)
'4'	C Type Injury (Possible)

- '5' O No Injury
- '6' N Unknown

#### **Person Number**

#### Variable Name: PRSN\_NBR

*Definition*: Unique identifier for the individual person (e.g., 1).

HSIS Guidebook – NC

Variable Name: AGE

Variable Name: PRSN\_CTY

Variable Name: INJ

Variable Name: SEX

121

Field Type: Numeric.

#### **Person Type**

Variable Name: PRSN\_TYP

Definition: Person Type.

Field Type: Coded.

'1'	Driver
'2'	Passenger
'3'	Pedestrian
'4'	Pedalcyclist
'5'	Roller Skater, Roller Blader, Etc.
'6'	Other
'7'	Unknown

#### Person Zip Code

Definition: Department Address - Zip Code (e.g., 280833758).

Field Type: Numeric.

#### **Seating Position**

Definition: Location of occupant within a vehicle or on a motorcycle.

Field Type: Coded.

'01'	Front – Left
'02'	Front – Middle
'03'	Front – Right
'04'	Second Seat – Left
'05'	Second Seat – Middle
'06'	Second Seat – Right
'07'	Third Row – Left
'08'	Third Row – Middle
'09'	Third Row – Right
'10'	Sleeper Section of Cab
'11'	Passenger in Other Enclosed Area
(1)	Bassangar in Unanclosed Area

12' Passenger in Unenclosed Area

HSIS Guidebook – NC

Variable Name: PRSN\_ZIP

Variable Name: SEATPOS

'13' Trailing Unit

- '14' Riding on Vehicle Exterior
- '15' Unknown

#### Trapped

*Definition*: Persons who are restrained in the vehicle by damaged vehicle components. Should be left blank for operators of railway vehicles.

Field Type: Coded.

**Person File** 

'1' No'2' Yes'3' Unknown

#### **Treatment Facility Name**

*Definition*: Destination for each injured person that is transported from the scene of the crash. Includes a unique letter designation from column 1 for the person involved, if they were taken to a hospital, clinic, doctor's office, or other place of emergency medical service (e.g., TREATED ON SCENE).

Field Type: Text.

#### **Treatment City Name**

*Definition*: City in which the person was treated (e.g., CHARLOTTE NC).

Field Type: Text.

#### **Unit Number**

*Definition*: Unique unit number of the unit/vehicle involved in the crash, such as 1, 2, etc. (e.g., 1).

Field Type: Numeric.

#### Variable Name: UNT\_NBR

Variable Name: TRTMT\_CITY\_ADR

Variable Name: TRT\_FAC

Variable Name: TRAPPED

File	Variable Name	Variable	Description of	Year of
			Change	Change
Roadway	AADT	Annual Average Daily	Variable name changed to	2002 -
		Traffic	'AADT_FOUR DIGIT YEAR'	2010
			(e.g., AADT_2006)	
			Roadway segment	2002
			estimates from 2001 and	
			earlier may not match up	
			with 2002 and later.	
			Code change from	2018
			categorical to numeric	
Roadway	AADT_YR	Annual Average Daily Traffic Year	Variable discontinued	2018
Roadway	ACCESS	Access Control	Code change	2018
Roadway	AREATYPE	Area Type	Variable name changed to 'AREA_TYP_C'	2009
			Variable discontinued	2010
Roadway	BEGMP	Begin Milepost	Variable name changed to	2018
			'BEGINMP'	
Roadway	CNTR_PEAK_	Number of Lanes in the	Variable added	2010
		Direction Opposite to		
		the Peak Hour Direction	Variable name changed to	2015
		Flow	'CNTR_PEAK'	
			Variable discontinued	2018
Roadway	CNTYRTE	County Route Number	Variable discontinued and	2018
			converted to "ROUTEID"	
Roadway	COUNTY	County	Code change	2018
Roadway	DHRVOL	Design Hour Volume	Variable discontinued	2010
Roadway	DIV	Highway Division Route	Variable discontinued	2009
			Variable re-added with	2017
			Variable name changed to	,
			"DIVISION"	
Roadway	ENDMP	Ending Milepost	N/A	
Roadway	FUNC_CLS	Functional Class	Variable name changed to	2018
			'FUNCCLASS'	
			Code change	2018
Roadway	FUNC_ST	Functional Class (State)	Variable discontinued	2003
Roadway	HPMS1	HPMS Sample ID	Variable discontinued	2001
			Variable re-added	2009
			Variable discontinued	2018
Roadway	HOV_LN_CNT	Number of HOV Lanes	Variable added	2010
			Variable name changed to	2018

File	Variable Name	Variable	Description of	Year of	
			Change	Change	
			'HOVLNCOUNT'		
Roadway	HOV_TYP_CD	Type of Lanes Used for HOV Exclusively	Variable added	2010	
		or During Specified Time Periods	Variable name changed to "HOVTYP"	2015	
Roadway	IMPROVE1	Type of Recent Improvement	Variable name changed to 'IMPRVTYPE'	2018	
Roadway	INTSTMP	Interstate Milepost	Variable discontinued	2009	
Roadway	INV_CNTL	Inventory Control	Variable discontinued	2009	
Roadway	LISTCNTL	List Control	Variable discontinued	2009	
Roadway	LSHL_TYP	Left Shoulder Type	Variable not present	2015	
			Variable name changed to 'LFTSHLDRTYPE'	2017	
			Code change	2018	
Roadway	LSHLDWID	Left Shoulder Width	Variable name changed to 'LFTSHLDRWIDTH'	2018	
			Code change from categorical to numeric	2018	
Roadway	LT_PARK	Left Peak Park	Variable discontinued	2009	
Roadway	MED_TYPE	Median Type	Variable name changed to 'MEDIANTYPE'	2018	
			Code change	2018	
Roadway	MEDWID	Median Width Total	Variable name changed to 'MEDIANWIDTH'	2018	
			Code change from categorical to numeric	2018	
Roadway	MVMT	Million Vehicle Miles Travelled	Variable discontinued	2018	
Roadway	NHS	National Highway System	Variable added	1993	
		,	Code change	2018	
Roadway	NO_LANES	Number of Lanes- Total	Variable name changed to 'THRULANECOUNT'	2018	
			Code changed from categorical to numeric	2018	
Roadway	ONEWAY_DIR	One Way Direction	Variable added	2009	
			Variable discontinued	2018	
Roadway	PAVECOND	Pavement Condition	Variable name changed to "PVMT_QLTY_"	2009	
			Variable discontinued	2015	
Roadway	PAVED_LSHLDWID	Paved Shoulder Width	Variable added	2009	

File	Variable Name	Variable	Description of	Year of
			Change	Change
		(Left)		
			Variable name changed to 'LFTPVDSHLDRWIDTH'	2018
Roadway	PAVED_RSHLDWID	Paved Shoulder Width (Right)	Variable added	2009
			Variable name changed to 'RTPVDSHLDRWIDTH'	2018
Roadway	PCT_TRK1	Percent Trucks	Variable discontinued; reclassified into MU_PCT and SU_PCT	2012
Roadway	PEAK_TRK	Percent Trucks at Peak	Variable discontinued	2009
Roadway	PEAKLANE	Number of Lanes in the Peak Hour Direction of	Variable added	2002
		Flow	Variable name changed to 'PEAKLANES'	2018
Roadway	POP_GRP	Population Group	Variable name changed to 'MUNPOPGROUP'	2018
Roadway	PSTD_RTE_C	Posted Routes	Variable added	2011
			Variable name changed to 'POSTEDROUTE'	2018
Roadway	PTCSTAT	Portable Traffic Counter	Variable discontinued	2009
Roadway	RECCONTCD	Record Continuation Code	Variable added	1999
			Variable discontinued	2009
Roadway	RODWYCLS	Roadway Class Variable	Higher mileage data availability for 2003 and beyond causes higher mileages for some categories, particularly rural and two-lane.	2003
			Code change from categorical (by number) to text	2018
Roadway	ROUGH	Pavement Roughness	Variable discontinued	2009
Roadway	ROW	Right of Way	N/A	
Roadway	RSHL_TYP	Right Shoulder Type	Variable name changed to 'RTSHLDRTYPE'	2015
			Code change	2018
Roadway	RSHLDWID	Right Shoulder Width	Variable name changed to 'RTSHLDRWIDTH'	2018
			Code change from categorical to numeric	2018
Roadway	RT_PARK	Right Peak Park	Variable discontinued	2009
Roadway	RTE_NBR	Route Inventoried	N/A	-
Roadway	RTE_TYPE	Route Type (1st digit of	Variable name changed to	2018

File	Variable Name	Variable	Description of	Year of
			Change	Change
		RTE_NBR)	'ROUTECLASS'	
			Code change (categories added)	2018
Roadway	RULURBID	Rural Urban	Variable added	1992
		Identification	Variable name changed to 'URBANID'	2018
Roadway	SCENIC	Scenic Byway	Variable added	1999
			Maniah la dia anatima d	
Roadway	SEG_LNG	Section Length in Miles	Variable discontinued Variable name changed to	2002 2018
Roduway	JEG_ENG	Section Length in Miles	'MPLENGTH'	2010
Roadway	SIGHTDIS	Sight Distance	Variable discontinued	2009
Roadway	SPD_LIMT	Speed Limit	Variable name changed to 'SPEEDLIMIT'	2018
Roadway	SPEC_SYS	Special System	Variable discontinued	2018
Roadway	STATE_SY	State Highway System	Variable discontinued	2009
Roadway	STRCTR_CD	Location of Bridges, Tunnel and Causeways	Variable added	2010
		Turrier and Causeways	Variable discontinued	2015
Roadway	STREET_NAM	Street Name	Variable added	2009
,			Variable name changed to 'STREETNAME'	2018
Roadway	SURF_TYP	Surface Type	Variable name changed to 'SRFCTYPE'	2018
			Code change	2018
Roadway	SURF_WID	Surface Width Total	Variable name changed to 'SRFCWIDTH'	2018
Roadway	TERRAIN	Terrain	Variable name changed to 'TERRAINTYPE'	2018
Roadway	TOLL_DIRECTION	Toll Charged	Variable added	2012
			Variable discontinued	2014
			Variable readded with Variable name of 'TOLLCHARGED'	2018
Roadway	TOWN	Town	Variable name changed to 'TOWNNAME'	2018
Roadway	TRFGROW	Traffic Growth Factor	Variable discontinued	2009
Roadway	TRK_RTE	Designated Truck Route	Variable name changed to 'TRKROUTE'	2018
Roadway	TRNLNWD	Turn Lane Width	Variable added	1992
<u> </u>			Variable discontinued	2009
Roadway	UPDATE	Update	Variable added	1999

File	Variable Name	Variable	Description of	Year of
			Change	Change
			Variable discontinued	2009
Roadway	URB_LOC	Urban Location	Variable discontinued	2002
Roadway	URB_POP	Rural/Urban Designated by Population	Variable name changed to 'URBANPOP'	2018
Roadway	WTDSGSPD	Weighted Design Speed	Discontinued	2018
Roadway	YEAR	Year of Traffic Count	Variable added	1999
			Variable discontinued	2009
Roadway	YR_IMPR1	Year of Recent Improvement	Variable name changed to 'IMPRVTDATE	2018
Roadway	YRADD	Year Added	Variable name changed to 'ADDDATE'	2018
Accident/ Crash	ACC_DATE	Accident Date- MMDDYY	Data from 1999 and before includes only YYYYMMDD, but data from 2000 onwards also includes the time. Variable name changed to	2000
Accident/	ACCESS	Access Control	'CRASH_DATE' Variable added	2018 2000
Crash			Code changed from categorical (by numbers) to text	2018
Accident/ Crash	ACCTYPE	First Harmful Event	Code changes resulting in category shifts and combinations	2000
			Code change (categories discontinued)	2018
Accident/ Crash	ACCYR	Accident Year	Variable discontinued	2000
Accident/ Crash	ADD_DAMG	Additional Property Damage	Variable discontinued	2000
Accident/ Crash	AGENCY	Investigating Agency	Variable discontinued	2000
Accident/ Crash	ALCFLAG	Alcohol/Drugs in Accident	Code change ('o'/'1' used pre-2000, 'N'/'Y' used 2000 onwards)	2000
Accident/ Crash	AMB_TIME	Time of Ambulance Request	Variable discontinued	2000
Accident/ Crash	AMBUL	Ambulance Requested	Variable discontinued	2000
Accident/ Crash	BIKEFLAG	Bicycle in Accident	Code change: 'o'/'1' used pre-2000, 'N'/'Y' used 2000 onwards	2000
Accident/	CASENO	Year + Case Number	N/A	

File	Variable Name	Variable	Description of	Year of
			Change	Change
Crash				
Accident/ Crash	CITY	City/Town Code (Including County)	Changes to city element codes	2000
			Pre-2010 data must be combined with DIV variable to obtain 4-digit city/town codes.	2010
Accident/ Crash	CNTY_RTE	County Route Number	Variable discontinued	2018
Accident/ Crash	COMMFLAG	Commercial Vehicle in Accident	Variable discontinued	1999
Accident/ Crash	COUNTY	NC County Number	Code change	2018
Accident/ Crash	DAY	Day of the Month	Variable added	1998
			Variable discontinued	2000
Accident/ Crash	DEPT_CDE	Reporting Department Code	Variable added	2000
			Variable discontinued	2018
Accident/ Crash	DEVELOP	Development Amount	Code change	2018
Accident/ Crash	FRM_RD	From Road	N/A	
Accident/ Crash	FRMRD_CL	From Road Class	Variable added	2000
Accident/ Crash	FROM_DIR	Direction from Road	Variable name change from "FROMDIR" to "FROM_DIR"	2000
			Variable discontinued	2018
Accident/ Crash	HAZFLAG	Hazmat Vehicle in Accident	Variable discontinued	1999
Accident/ Crash	HITRUN	Hit and Run Accident	Variable discontinued	2000
Accident/ Crash	HOUR	Hour	Variable discontinued	2000
Accident/ Crash	LIGHT	Light Condition	Code change (category 'o' ('not stated') refers to pre- 2000 data)	2000
Accident/ Crash	LOC_TYPE	Accident Location Type	Code changes resulting in category shifts and changes	2000
			Code change	2018
Accident/ Crash	LOCALITY	Development Type	Code change	2018
Accident/ Crash	MCFLAG	Motorcycle in Accident	Variable discontinued	2000

File	Variable Name	Variable	Description of	Year of
			Change	Change
Accident/ Crash	MEANS	Means of Involvement	Variable discontinued	2000
Accident/ Crash	MHARM_AC	Most Harmful Event	Variable added	2000
Crush			Variable name changed to 'MOSTHARM'	2018
Accident/ Crash	MILEPOST	Milepost	N/A	
Accident/ Crash	MONTH	Month of Accident	Variable discontinued	2000
Accident/ Crash	MOPEDFLG	Moped in Accident	Variable discontinued	2000
Accident/ Crash	MUNI_DIR	Direction from Municipality to Accident	Variable added	2000
			Variable discontinued	2018
Accident/ Crash	MUNI_DIS	Distance from Municipality in Miles	Variable added	2000
			Variable discontinued	2018
Accident/ Crash	MVMT	Million Vehicle Miles Travelled	Variable discontinued	2015
Accident/ Crash	NBR_LANE	Number of Lanes	N/A	
Accident/ Crash	NEARTOWN	In or Near Town	Variable added	2000
			Variable discontinued	2018
Accident/ Crash	NON_REP	Non-Reportable	Variable added	2000
Accident/ Crash	NONMTCNT	Non-Motorist Count	Variable added	2000
Accident/ Crash	NUM_UNIT	Number of Units	N/A	
Accident/ Crash	NUMVEHS	Number of Veh+Ped+Bike	Variable discontinued	2018
Accident/ Crash	OFFCR_ST	Reporting Officer State	Variable added	2000
			Variable discontinued	2018
Accident/ Crash	ON_RD	On Road	N/A	
Accident/ Crash	ONRD_CL	On Road Class	Variable added	2000
Accident/ Crash	PATROLAC	Patrol Area Code	Variable added	2000
			Variable discontinued	2018
Accident/ Crash	PEDFLAG	Pedestrian in Accident	Code change ('o'/'1' used pre-2000, 'N'/'Y' used 2000 onwards)	2000
Accident/ Crash	PLOTQUAL	Quality of Milepost	Variable discontinued	2000
Accident/	POP_GRP	City Population in 1000	Code change (Pre-1999	1999

File	Variable Name	Variable	Description of	Year of
			Change	Change
Crash			values are in thousands (e.g., 10 = 10,000), 1999 onwards are written as the actual number (e.g., 10,000 = 10,000))	
			Variable name changed to "CTY_POP"	2018
			Code change from categorical to numerical	2018
Accident/ Crash	PROPDAM	Total Property Damage	Code change from categorical to numeric	2018
Accident/ Crash	PVA	Public Vehicle Area	Variable discontinued	2000
Accident/ Crash	RD_CHAR1	Road Character	Variable name change to 'RD_CHAR'	2018
Accident/ Crash	RD_CONF	Road Configuration	Code changes	1999, 2018
Accident/ Crash	RD_PAVE	Type of Road Surface (Rep)	Code change	2018
Accident/ Crash	RDSURF	Surface Condition	N/A	
Accident/ Crash	REFDISFT	Distance from FRM_RD in Feet	Variable added	2000
Accident/ Crash	REFDISMI	Distance from FRM_RD in Miles	N/A	
Accident/ Crash	REL_RD	Relation to Roadway	Variable added	2000
Accident/ Crash	REPORT	Reportable Status	Code change (category additions)	2000
Accident/ Crash	RMP_SVRD	Ramp or Service Road	Variable added	2000
			Code change	2018
Accident/ Crash	ROAD_CLS	Road Classification	Variable added	2000
			Variable discontinued	2018
Accident/ Crash	ROADCONT1	Roadway Contributing Circumstance 1	Code change (categories discontinued)	2000
Accident/ Crash	ROADCONT <sub>2</sub>	Roadway Contributing Circumstance 2	Variable added	2000
			Code change (categories discontinued)	2000
Accident/ Crash	RODWYCLS	Roadway Class	Variable not present	2016/2017
			Code change from categorical (by number) to text	2018

File	Variable Name	Variable	Description of	Year of
			Change	Change
			Variable name changed to 'RODWYCLASS'	2018
Accident/ Crash	RRX_NUM	Railroad Crossing Number	Variable added	2000
Accident/ Crash	RRXFLAG	Railroad Cross Not Indicated	Variable discontinued	2000
Accident/ Crash	RTE_NBR	Mileposted Route	N/A	
Accident/ Crash	RURURB	Rural-Urban Identification	Variable added	2000
Accident/ Crash	SCHBUS	School Bus Involved in Accident	Variable discontinued	2000
Accident/ Crash	SEVERITY	Worst Injury in Accident	N/A	
Accident/ Crash	SPD_GRP	Computed Speed of Accident	Variable discontinued	2000
Accident/ Crash	TICKET1	Citation Issued to Someone in Accident	Variable discontinued	2000
Accident/ Crash	TIME	Time of Day (24 Hour)	Variable not present	1999
Crush			Code change from four- digit time categories (e.g., 0000-0059) to HH:MM.	2018
Accident/ Crash	TO_DIR	Direction Toward	Variable added	2000
Accident/ Crash	TO_RD	Toward Road	N/A	
Accident/ Crash	TORD_CL	Toward Road Class	Variable added	2000
Accident/ Crash	TOT_KILL	Total Killed in Accident	Variable discontinued	2015
Accident/ Crash	TOTAINJ	Total A Injuries in Accident	Variable discontinued	2015
Accident/ Crash	TOTBINJ	Total B Injuries in Accident	Variable discontinued	2015
Accident/ Crash	ΤΟΤΟΙΝΙ	Total C Injuries in Accident	Variable discontinued	2015
Accident/ Crash	TOWN_CD	DOT Assigned Town Code	Variable added	2000
Accident/	TRF_CNTL	Traffic Control Type	Variable discontinued Code changes (categories	2018 2000
Crash		Tranic control type	added)	2000
			Code change (category discontinued)	2018
Accident/ Crash	TRF_OPER	Traffic Control Operating	Code change (Category 3 (not stated) is only present for pre-2000 data)	2000

File	Variable Name	Variable	Description of	Year of
			Change	Change
			Code change	2018
Accident/ Crash	TRF_VIS	Traffic Control Visible	Variable discontinued	2000
Accident/ Crash	WEATHER1	Weather Condition 1	Code change (categories added)	2000
Accident/ Crash	WEATHER2	Weather Condition 2	Variable added	2000
Accident/ Crash	WEEKDAY	Day of Week	Variable discontinued	2000
Accident/ Crash	WETHCONT	Weather Contribute to Accident	Variable added	2000
Accident/ Crash	WORKZONE	Work Zone Marked	Code change Variable added	2018 2000
			Code change	2018
Accident/ Crash	WZ_ACT	Work Zone Activity	Variable added	2000
Accident/ Crash	WZ_AREA	Work Zone Area	Variable added	2000
Accident/ Crash	WZ_LOC	Work Zone Crash Location	Variable added	2000
Accident/ Crash	Y_LINE	Non-Mileposted Crossing Route Location	Variable discontinued	2000
Accident/ Crash	ZIP_ADR	Reporting Officer Zip Code	Variable added	2000
Occupant/	AGE	Occupant Age	Variable discontinued N/A	2018
Person				
Occupant/ Person	AIR_SW	Airbag Switch Status	Variable added	2000
Occupant/ Person	AIRDEPL	Airbag Deployed	Variable added	2000
			Code change (category additions)	2018
Occupant/ Person	CASENO	NC Accident Number with Year	N/A	
Occupant/ Person	EJECT	Ejection	Variable added	2000
Occupant/ Person	EMS_DES	Emergency Medical Service	Variable added	2000
Occupant/ Person	INJ	Occupant Injury	Code change (categories 6 (not stated) and 7 (not occupied) are only in pre- 2000 data)	2000
			Code change	2018
Occupant/ Person	PRSN_CTY	Person County	Variable added	2000
Occupant/	PRSN_DOB	Person Date of Birth	Variable added	2000

File	Variable Name	Variable	Description of	Year of
			Change	Change
Person				
			Variable discontinued	2018
Occupant/ Person	PRSN_NBR	Person Number	Variable added	2000
Occupant/ Person	PRSN_ST	Person State	Variable added	2000
			Variable discontinued	2018
Occupant/ Person	PRSN_TYP	Person Type	Variable added	2000
Occupant/ Person	PRSN_ZIP	Person Zip Code	Variable added	2000
Occupant/ Person	RACE	Occupant Race	Code change (categories 8 (not occupied) and 9 (non- white) are only included in pre-2000 data)	2000
Occupant/ Person	REST1	Occupant Restraint	Code change (categories 11 (not stated), 12 (unknown), and 13 (not occupied) are only included in pre-2000 data)	2000
Occupant/ Person	SEATPOS	Seating Position	N/A	
Occupant/ Person	SEX	Occupant Sex	Code change (categories 4 (not stated) and 5 (not occupied) are only included in pre-2000 data)	2000
Occupant/ Person	TRAPPED	Trapped	Variable added	2000
			Code change	2018
Occupant/ Person	TRT_FAC	Treatment Facility Name	Variable added	2000
Occupant/ Person	TRTMT_CITY_ADR	Treatment City Name	Variable added	20055
Occupant/ Person	VEHNO	Vehicle Position Number	Variable discontinued	
Vehicle/ Unit	ACTION	Driver Charged with Violation	Variable added	2000
Onic			Variable discontinued	2018
Vehicle/ Unit	AIRBAGS	Air Bags Present in Vehicle	Variable discontinued	2000
Vehicle/ Unit	AIRDEPL	Airbags Deployed During Crash	Variable discontinued	2000
Vehicle/ Unit	ALC_DRUG	Alcohol/Drug in Accident	Variable discontinued	2000
Vehicle/ Unit	ALCFLAG	Alcohol Flag	Variable added	2000
Vehicle/ Unit	AMTDAMG	Amount Of Damage To Vehicle	Code change from categorical to numeric	2018
Vehicle/	AXLE_NBR	Commercial Carrier	Variable added	2000

File	Variable Name	Variable	Description of	Year of
			Change	Change
Unit		Axles		
Vehicle/ Unit	AXLES	Number Of Axles for Trl#1	N/A	
Vehicle/ Unit	AXLES2	Number Of Axles for Trl#2	N/A	
Vehicle/ Unit	BIKEFLAG	Bicycle Flag	Variable added	2000
Vehicle/ Unit	BODY	Cargo Body Type	Variable added	1999
			Code change (category added)	2018
Vehicle/ Unit	CASENO	NC Accident Number with Year	N/A	
Vehicle/ Unit	CC_CITY	Commercial Carrier City	Variable added	2000
Vehicle/ Unit	CC_STATE	Commercial Carrier State	Variable added	2000
			Variable discontinued	2018
Vehicle/ Unit	CC_ZIP	Commercial Carrier Zip Code	Variable added	2000
Vehicle/	CCB_CITY	Comm Carr Business	Variable added	2000
Unit		City	Variable discontinued	2018
Vehicle/ Unit	CCB_STAT	Comm Carr Business State	Variable added	2000
Vehicle/ Unit	CDL_IND	CDL Indicator	Variable added	2000
Vehicle/ Unit	CNT_SEAT	Number of Seats Occupied	Variable discontinued	2000
Vehicle/ Unit	CONTRIB1	Viol/Contribution Factor#1	Code change	2018
Vehicle/ Unit	CONTRIB2	Viol/Contribution Factor#2	Code change	2018
Vehicle/ Unit	CONTRIB <sub>3</sub>	Viol/Contribution Factor#3	Code change	2018
Vehicle/ Unit	CONTRIB4	Viol/Contribution Factor#4	Variable discontinued	2000
Vehicle/ Unit	CONTRIB <sub>5</sub>	Viol/Contribution Factor#5	Variable discontinued	2000
Vehicle/ Unit	CROSSMED	Cross Median	Variable discontinued	2000
Vehicle/ Unit	DAMSEV	Tad#1 Severity	N/A	
Vehicle/ Unit	DAMSEV2	Tad#2 Severity	N/A	
Vehicle/ Unit	DAMSEV <sub>3</sub>	Tad#3 Severity	N/A	
Vehicle/ Unit	DIR_TRVL	Direct of Travel on	Code change (For pre-2000 data, 1-4 indicated N, E, S,	2000

File	Variable Name	Variable	Description of	Year of
			Change	Change
			and W respectively. In 2000	
			the code switches to E, N,	
			NE, NW, S, SE, SW, and	
			W.)	
Vehicle/	DRG_RES	Driver Alcohol/Drug	Variable added	2000
Unit		Test Result		
Vehicle/	DRG_SUSP	Driver Alcohol/Drug	Variable added	2000
Unit		Suspected		
Vehicle/	DRSTATE	Out Of State Drivers	Variable discontinued	2000
Unit		License		
Vehicle/	DRV_AGE	Driver/Pedestrian Age	Code change from	
Unit			categorical to numeric	
Vehicle/	DRV_BAC	Driver Blood Alcohol in	Variable added	2000
Unit		%		
Vehicle/	DRV_CITY	Driver City	Variable added	2000
Unit				
Vehicle/	DRV_DOB	Driver Date of Birth	Variable discontinued	2018
Unit				
Vehicle/	DRV_INJ	Driver/Pedestrian Injury	Code change	2018
Unit				
Vehicle/	DRV_LICENSE_RESTRICT	Drivers License	Variable added	2004
Unit		Restriction		
			Variable discontinued	2018
Vehicle/	DRV_RACE	Driver/Pedestrian Race	Code change: (category	2000
Unit			addition)	
			Code change	2018
Vehicle/	DRV_REST	Driver Restraint Usage	Code change (category	2000
Unit			additions)	
			Code change	2018
Vehicle/	DRV_SEAT	Driver/Pedestrian Seat	Code change (category	2018
Unit		Position	additions)	0
Vehicle/	DRV_SEX	Driver/Pedestrian Sex	Code change	2018
Unit	DRV_ZIP	Driver Zip Code	Variable added	
Vehicle/ Unit	DRV_ZIP	Driver Zip Code	valiable added	2000
Vehicle/	EMERGUSE	Emergency Vehicle Use	Variable added	2000
Unit	EMERGOSE	Emergency vehicle Ose	valiable added	2000
Vehicle/	EVENT1	Sequence of Events 1	Variable added	2000
Unit		Sequence of Events I		2000
Vehicle/	EVENT2	Sequence of Events 2	Variable added	2000
Unit		Sequence of Events 2		2000
Vehicle/	EVENT3	Sequence of Events 3	Variable added	2000
Unit		Sequence of Events 3	variable added	2000
Vehicle/	EVENT4	Sequence of Events 4	Variable added	2000
Unit		Sequence of Events 4		2000
<b>U</b> IIIC			Variable added	
Vehicle/	EXPR_DT	License Expiration Date	Variable added	2000

File	Variable Name	Variable	Description of	Year of
			Change	Change
			Variable discontinued	2018
Vehicle/ Unit	FIRE	Postcrash Fire	Code change	2018
Vehicle/ Unit	GOV_OWN	Government Owned Vehicle Indicator	Variable added	2000
Vehicle/ Unit	GVWR_WGT	Comm Carr Gross Vehicle Weight	Variable added	2000
Vehicle/ Unit	HAZ_NUM1	1 Digit Hazmat Num Placard	Variable added	2000
Vehicle/ Unit	HAZ_NUM4	4 Digit Hazmat Num Placard	Variable added	2000
Vehicle/ Unit	HAZ_PLAC	Hazmat Placard Indicator	Variable added	2000
Vehicle/ Unit	HAZMAT	Hazardous Cargo	Variable discontinued N/A	2018
Vehicle/ Unit	IMPACTFT	Distance Travel After Impact	Code change from categorical to numeric	2018
Vehicle/ Unit	IMPACTSP	Impact Speed	Code change from categorical to numeric	2018
Vehicle/ Unit	INSURED	Insurance Indicator	N/A	
Vehicle/ Unit	INTOXC	Driver Intoxication Group	Variable added Variable discontinued	1996 1998
Vehicle/ Unit	L_PERMIT	Learner Permit	Variable discontinued	2000
Vehicle/ Unit	LENGTRL	Length Of Trailer #1, in ft	N/A	
Vehicle/ Unit	LENGTRL2	Length Of Trailer #2, in ft	N/A	
Vehicle/ Unit	LIC_IND	Driver License Indicator	Variable added	2000
Vehicle/ Unit	LIC_STAT	License State	Variable added	2000
Vehicle/ Unit	LICRESTR	Restrict On Driver's License	Variable discontinued	2000
Vehicle/ Unit	LICTYPE	Type Of Driver's License	Variable discontinued	2018
Vehicle/ Unit	MAKE	Vehicle Make	Variable added	1999
Vehicle/ Unit	MAKENAME	Vehicle Make Name	Variable discontinued N/A	2000
Vehicle/ Unit	MANEUVER	Vehicle Maneuver/Pedestrian Action	Code change (category discontinued)	2000
Vehicle/ Unit	MISCACT1	Miscellaneous Action	Variable discontinued	2000

File	Variable Name	Variable	Description of	Year of
			Change	Change
Vehicle/ Unit	MOSTHARM	Most Harmful Event	Code change (categories discontinued)	2000
			Code change (categories discontinued)	2018
Vehicle/ Unit	NUM_A	Total A Injuries in Vehicle	Variable discontinued	2015
Vehicle/ Unit	NUM_B	Total B Injuries in Vehicle	Variable discontinued	2015
Vehicle/ Unit	NUM_C	Total C Injuries in Vehicle	Variable discontinued	2015
Vehicle/ Unit	NUM_K	Total Killed in Vehicle	Variable discontinued	2015
Vehicle/ Unit	NUM_OCCS	Total Occupants in Vehicle	Variable discontinued	2015
			Variable readded as 'OCPNT_CNT'	2018
Vehicle/ Unit	NUM_POCS	No of Points of Contact	Variable discontinued	2000
Vehicle/ Unit	NUM_TADS	Number of Tad Codes	Variable discontinued	2000
Vehicle/ Unit	NUMINJ	Total Injured in Vehicle (K+A+B+C)	Variable discontinued	2000
Vehicle/ Unit	NUMVIOLS	Num of Viols Indicated	Variable discontinued	2000
Vehicle/ Unit	OBJECT1	Type of Object Struck	Variable discontinued	2000
Vehicle/ Unit	ON_RD	On Road	Variable added	2000
Vehicle/ Unit	ONRD_CL	On Road Class	Variable added	2000
Vehicle/ Unit	OTH_UNIT	Other Unit Type	Variable added	2000
			Variable discontinued	2018
Vehicle/ Unit	OUTSTATE	Out of State Vehicle Registration	Variable discontinued	2000
Vehicle/ Unit	OWN_CITY	Vehicle Owner City	Variable added	2000
Vehicle/ Unit	OWN_STAT	Vehicle Owner State	Variable added	2000
			Variable discontinued	2018
Vehicle/ Unit	OWN_ZIP	Vehicle Owner Zip Code	Variable added	2000
Vehicle/ Unit	OWNERTYP	Owner Category	Code change	2000
			Variable discontinued	2018
Vehicle/ Unit	PARK_VEH	Indicator of Parked Vehicle	Variable added	2000
Vehicle/	PED_LOC	Non-Motorist Location	Variable added	2000

File	Variable Name	Variable	Description of Change	Year of Change
Vehicle/ Unit	PEDACT	Non-Motorist Action	Code change	2000
			Code change	2018
Vehicle/ Unit	PEDCONT1	Contributing Circumstance Non-Mot 1	Variable added	2000
Vehicle/ Unit	PEDCONT <sub>2</sub>	Contributing Circumstance Non-Mot 2	Variable added	2000
Vehicle/ Unit	PEDFLAG	Pedestrian In Accident	Variable added	2000
Vehicle/ Unit	PEDHITBY	Pupil Pedestrian Struck By (School bus Crash)	Variable discontinued	2000
Vehicle/ Unit	PHYSCOND	Physical Condition of Driver	Code change (category 11 (not stated) only included in pre-2000 data)	2000
Vehicle/ Unit	PTCONT1	Point of Contact #1	Code change	2018
Vehicle/ Unit	PTCONT2	Point of Contact #2	Code change	2018
Vehicle/ Unit	PTCONT <sub>3</sub>	Point of Contact #3	Code change	2018
Vehicle/ Unit	PTCONT4	Point of Contact #4	Variable added	2000
Vehicle/	PTCONT <sub>5</sub>	Point of Contact #5	Code change Variable added	2018
Unit	PICONIS	Point of Contact #5		2000
Vehicle/	RD2OBJST	Distance to Object	Code change	2018
Unit	RD20BJS1	Distance to Object Struck	N/A	
Vehicle/ Unit	REGION	Region of Impact	Variable discontinued	2000
Vehicle/ Unit	ROLLOVER	Vehicle Rollover	Variable discontinued	2000
Vehicle/ Unit	ROLLPTCT	Rollover, Point of Contact	Variable added	1996
•			Variable discontinued	1998
Vehicle/ Unit	ROLLTAD	Rollover, Tad Severity	Variable added	1996
			Variable discontinued	1998
Vehicle/ Unit	SCH_BUS1	School Bus Contact Vehicle	Variable added	2000
			Code change	2018
Vehicle/ Unit	SCH_BUS <sub>2</sub>	School Bus Non-Contact Vehicle	Variable added	2000
			Code change	2018
Vehicle/ Unit	SOB_TEST	Chemical Test Given	Code change (Pre-2000, all observations were coded	2000

File	Variable Name	Variable	Description of	Year of
			Change	Change
			as 'not stated')	
			Code change (categories	2018
Vehicle/	SPDLIM	Dested Speed Lippit	discontinued) N/A	
Unit		Posted Speed Limit	N/A	
Vehicle/	SPILL	Hazardous Cargo Spill	Variable discontinued	2018
Unit				
Vehicle/	TIRESKID	Tire Impressions in Feet	Code change from	2018
Unit			categorical to numeric	
Vehicle/	TOTLENG	Tot Length of Trailer(s)	Variable discontinued	2000
Unit		in Feet		
Vehicle/	TOWAWAY	Vehicle Drivable	Variable name changed to	2018
Unit			'DRIVABLE'	
			Code change	2018
Vehicle/	TOWED_BY	Towed By	Variable added	2018
Unit		Towed by	variable added	2000
onic			Variable discontinued	2006
Vehicle/	TOWED_TO	Towed To	Variable added	2000
Unit				
			Variable discontinued	2006
Vehicle/	TRL_TYPE	Trailer Type	N/A	
Unit				
Vehicle/	TRL1_FLG	Data Present (Trailer	Variable discontinued	2000
Unit Vehicle/	TRL2_FLG	#1) Data Present (Trailer	Variable discontinued	
Unit			Valiable discontinued	2000
Vehicle/	TRVL_SPD	Estimated Original	N/A	
Unit		Speed		
Vehicle/	UNDEROVR	Vehicle	Variable added	2000
Unit		Underride/Override		
Vehicle/	UNIT_TYP	Unit Type	Code change	2000
Unit				
Vehicle/	V_DAMAG2	Tad#2 Location	Code change	2018
Unit				
Vehicle/	V_DAMAG <sub>3</sub>	Tad#3 Location	Code change	2018
Unit Vehicle/	V_DAMAGE	Tad#1 (Area of	Code change	2018
Unit	V_DAMAGE	Damage) Location	code change	2010
Vehicle/	VEH_SEIZ	Vehicle Seizure DWI	Variable added	2000
Unit				2000
-			Code change	2018
Vehicle/	VEH_DEF	Vehicle Defect	Variable added	2000
Unit				
Vehicle/	VEHNO	Vehicle Position	Variable discontinued	2018
Unit		Number		
Vehicle/	VEHON	Vehicle Location Based	Vehicle discontinued	2000
Unit		on Road		

File	Variable Name	Variable	Description of	Year of
			Change	Change
Vehicle/ Unit	VEHSEV	Severity	Variable added	1996
			Variable discontinued	1998
Vehicle/ Unit	VEHTYPE	Vehicle Type	Code change for two-axle trucks	1991-92
			Code change (categories discontinued and added)	2000
Vehicle/ Unit	VEHYR	Model Year of Vehicle	N/A	
Vehicle/ Unit	VIN	Vehicle Identification Number	Variable discontinued	2000
Vehicle/ Unit	VIN_ID	Vehicle Identification Number	Variable added	2000
			Variable discontinued	2018
Vehicle/ Unit	VISION	Vision Obstruction	Code change: Category 14 (not stated) only included in pre-2000 data.	2000
Vehicle/ Unit	WIDTRL	Width Of Trailer #1 (in)	N/A	
Vehicle/ Unit	WIDTRL2	Width Of Trailer #2 (in)	N/A	