HIGHWAY SAFETY INFORMATION SYSTEM GUIDEBOOK FOR THE

WASHINGTON STATE DATA FILES

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Introduction to the Washington State HSIS Guidebook

The Highway Safety Information System (HSIS), established in 1987, is a foundational highway research data system. The State of Washington has participated in the HSIS program since 1993, 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 Washington State HSIS data for the years 2018 and beyond. Data and documentation prior to 2018 (1993-2017) are available upon request to the HSIS Virtual Laboratory. Prior to 2018, the Washington State datasets included variables for the following files:

1. Roadway inventory.
2. Horizontal curve inventory.
3. Vertical grade.
4. Intersection inventory (2004-2009).
5. Accident characteristics.
6. Vehicles involved in crashes.
7. Vehicle occupants involved in crashes.

The revised Washington State database incorporated into HSIS contains six different files:

1. Roadway inventory (including traffic information).
2. Horizontal curve inventory.
3. Vertical grade.
4. Crash characteristics.
5. Units involved in crashes.
6. Persons involved in the crash.

Appendix A summarizes revisions the HSIS Laboratory made to the variables. In addition to the revised list of files, there are several key differences between the Washington State 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 (1993-2017) and the current file naming convention (2018 to 2020).
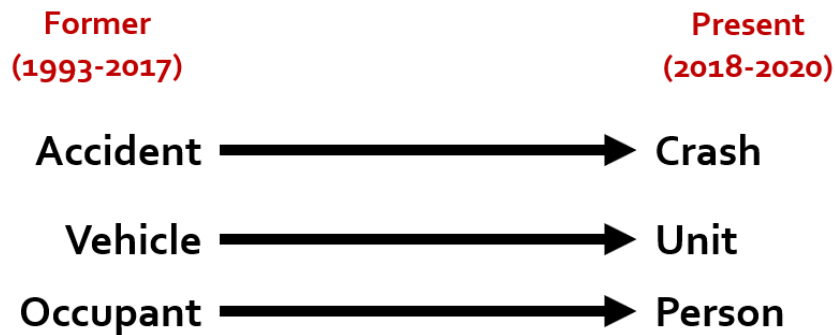
Former **Present**
(1993-2017) **(2018-2020)**

Accident ⟶ Crash

Vehicle ⟶ Unit

Occupant ⟶ Person

Figure 1. Changes to Washington State 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 Washington State's data documentation. Please consult the HSIS Virtual Laboratory 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 six files. The following sections provide a brief summary of each file.
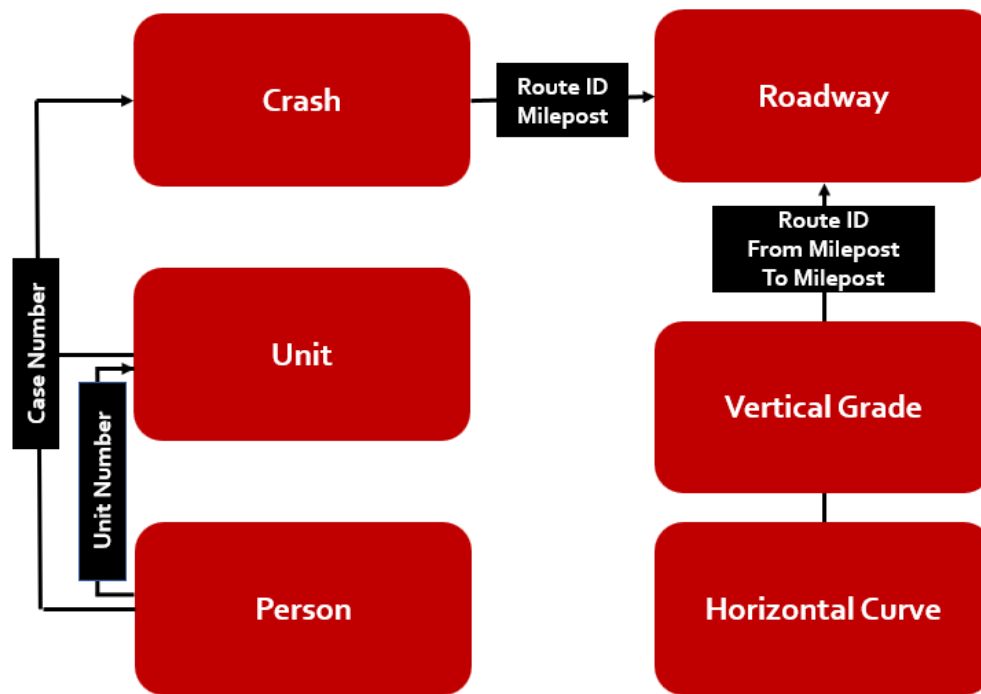
Figure 2. Washington State HSIS Data Files and Linking Variables.

Roadway File (2020)

This file contains information about the physical layout of Washington State'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 road width, surface 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).

Washington State also digitally represents data in a directional format, although many data elements are combined to bidirectional values. Table 1 provides an overview of road and traffic variables by format.

Table 1. Variable Format in Washington State's Road File.

VARIABLE NAME	VARIABLE DESCRIPTION	FORMAT
ACCESS_CONTROL	ACCESS CONTROL	Bidirectional
LANE_COUNT	NUMBER OF LANES (DIRECTIONAL)	Single Direction
FULL_LANE_COUNT	NUMBER OF LANES (BIDIRECTIONAL)	Bidirectional
MEDIAN_BARRIER	MEDIAN BARRIER TYPE	Bidirectional
MEDIAN_SURFACE	MEDIAN SURFACE TYPE	Bidirectional
NHS_INDICATOR	NATIONAL HIGHWAY SYSTEM	Bidirectional
PAVEMENT_SURFACE_TYPE	PAVEMENT SURFACE TYPE	Single Direction
ROAD_WIDTH	ROAD WIDTH (DIRECTIONAL)	Single Direction
FULL_ROAD_WIDTH	ROAD WIDTH (BIDIRECTIONAL)	Bidirectional
RIGHT_SHOULDER_SURFACE	RIGHT SHOULDER SURFACE TYPE	Single Direction
RIGHT_SHOULDER_WIDTH	RIGHT SHOULDER WIDTH	Single Direction
LEFT_SHOULDER_SURFACE	LEFT SHOULDER SURFACE TYPE	Single Direction
LEFT_SHOULDER_WIDTH	LEFT SHOULDER WIDTH	Single Direction
SPECIAL_USE_LANE_SURFACE	SPECIAL USE LANE (SURFACE TYPE)	Single Direction
SPECIAL_USE_LANE_WIDTH	SPECIAL USE LANE (WIDTH)	Single Direction
SPECIAL_USE_LANE_ROAD_SIDE	SPECIAL USE LANE (SIDE)	Single Direction
SPECIAL_USE_LANE_TYPE	SPECIAL USE LANE (TYPE)	Single Direction
SPEED_LIMIT	POSTED SPEED LIMIT	Bidirectional
LANE_SURFACE_TYPE	SURFACE TYPE	Single Direction
TOTAL_AADT	ANNUAL AVERAGE DAILY TRAFFIC	Bidirectional
FUNCTIONAL_CLASS	FUNCTIONAL CLASS	Bidirectional
RODWYCLS	ROADWAY CLASS	Bidirectional

Route ID is the key linking variable between the base roadway inventory and the associated dataset files, Crash, Horizontal Curve, and Vertical Grade. This identifier is simply the formal route number (e.g., the numerical portion of 'WA-700'), as well as a directional suffix after the route number. This is represented as an 'i' in the increasing direction of mileposts (typically in the east or north direction), or a 'd' in the direction of decreasing mileposts. In other words, WA-900 in the direction of increasing mileposts would have a *Route ID* of '900i'. Since Washington State routes have milepost values for the entire length of the State, there is no county component of the *Route ID*.

Users should note that certain roadway elements only became available starting in 2020. Appendix A and the HSIS Laboratory can help guide researchers on the availability of these data.

Horizontal Curve (2018 – 2020)

This file is a standalone representation of horizontal geometry or curvature of the roadway. It is typically recorded from the beginning of the curve in the direction of increasing mileposts. It is only available on the direction of increasing mileposts.

Grade File (2018 – 2020)

This file is a standalone representation of vertical grade of the roadway, typically based on the midpoint of a vertical curve. Grade is represented in a percent format. Like the Horizontal Curve file, it is only available on the direction of increasing mileposts.

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. The prescribed crash-reporting threshold is currently personal injury or $1,000 property damage.

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 in two methods:

1. Spatial linkages using GIS software and a latitude and longitude variable in the Crash file.
2. A tabular linkage using the *Route ID* and *Milepost* variables. Users should note that this method will only link crashes to the direction of increasing mileposts in the Roadway file. This matches the orientation of the Horizontal Curve and Grade files. Crashes are not linkable to the direction of decreasing mileposts on a divided highway for this method.

Non-Linkable Crashes

Although the Roadway file only represents State-maintained highways in Washington State, HSIS provides all recordable roadway crashes in the State for a particular year. These crashes are not linkable to a road in the network, but they are provided by the HSIS Laboratory to

assist researchers with a broader perspective on highway safety. These crashes can be linked in GIS to road centerline data furnished by a researcher.

Unit File (2018 – 2020)

This file provides information on the vehicles or units involved in crashes on Washington State 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, person type, sex, race, and injury. The injury variable in Washington State uses the KABCO system, which provides police estimates of injury level. There are supplementary injury codes that indicate injury or fatality unrelated to the crash itself.

Using the Files Together

Figure 2 highlighted the linkages between each of the six Washington State 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 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, *City* is recorded by the reporting officer in the Crash file. It is also a variable in the Roadway file. In these cases, the HSIS Laboratory 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 sample 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 Washington State. Specifically, they are interested in injury severity related to changes in horizontal curvature and vertical grade. 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 HSIS Laboratory 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 any subsequent phases of the study. The following is the structure of their request:

Roadway Variables

- Route ID (*linkable to the Route ID variable in the Crash, Horizontal Curve, and Grade files*).
- Roadway Class.
- Functional Class.
- Median Barrier Type.
- Median Width.
- Posted Speed Limit.
- Number of Lanes – Bidirectional.
- Road Width – Bidirectional.
- AADT.
- County.

Horizontal Curve Variables

- Route ID.
- From Measure.
- To Measure.
- Curve Radius.
- Curve Length.
- Superelevation.

Grade Variables

- Route ID.
- From Measure.
- To Measure.
- Curve Length.
- Percent grade ahead.
- Percent grade behind.

Crash Variables

- Route ID (*linkable to the Route ID variable in the Roadway file*).
- Milepost (*optional for linking crashes to the Roadway file in GIS*).
- Case Number (*linkable to the Case Number variable in the Unit file*).
- Date.
- Crash Severity (General).
- Crash Type.
- Weather Condition.
- Light Condition.
- Roadway Surface .

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 Action.
- Vehicle Traffic Control.
- Vehicle Year.
- 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*).
- Age.
- Injury Type.

- Restraint System Type.
- Ejection Status.
- Involved Person Type (provides seat position).

A few things to note about their request:

- There are several variables that are recorded in more than one file. The variable, *Age,* is an example; it is in the Unit and Person files (named *Driver Age* in the Unit file). Since the request involves both files, the variable is only included once in the Person file since this will capture more than just the driver of the unit.
- There are also variables in the student's request that record similar information. For example, the Crash file includes a variable, *Roadway Characteristic* that may seem redundant with the roadway variables in the Roadway, Grade, and Horizontal Curve files. 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 Washington State records in the case of the Roadway, Grade, and Horizontal Curve files. The student could request all variables to confirm that the roadway geometry in the crash report reflects Washington State's records, or the student could use the State roadway data to ground truth qualitative observations in the field.
- 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 2 provides a summary of all variables currently available in HSIS for the six files. Attributes and fields have evolved since the introduction of Washington State into the HSIS data system, and users should carefully consider these changes during the data collection research process.

Table 2. Summary of Washington State HSIS Variables by Data File.

VARIABLE NAME	VARIABLE DESCRIPTION	DATA FILE
TOTAL_AADT	AVERAGE ANNUAL DAILY TRAFFIC	Roadway
ACCESS_CONTROL	ACCESS CONTROL	Roadway
CITY_NAME	CITY	Roadway
DIVIDED_INDICATOR	DIVIDED INDICATOR	Roadway
FROM_MEASURE	FROM MEASURE	Roadway
FUNCTIONAL_CLASS	FUNCTIONAL CLASS	Roadway
LEFT_SHOULDER_SURFACE	LEFT SHOULDER SURFACE TYPE	Roadway
LEFT_SHOULDER_WIDTH	LEFT SHOULDER WIDTH	Roadway
MAINTENANCE_AREA	MAINTENANCE_AREA	Roadway
MEDIAN_BARRIER	MEDIAN BARRIER TYPE	Roadway
MEDIAN_SURFACE	MEDIAN SURFACE TYPE	Roadway
MEDIAN_WIDTH	MEDIAN WIDTH	Roadway
NHS_INDICATOR	NATIONAL HIGHWAY SYSTEM	Roadway
LANE_COUNT	NUMBER OF LANES (DIRECTIONAL)	Roadway
FULL_LANE_COUNT	NUMBER OF LANES (BIDIRECTIONAL)	Roadway
PAVEMENT_SURFACE_TYPE	PAVEMENT SURFACE TYPE	Roadway
SPEED_LIMIT	POSTED SPEED LIMIT	Roadway
DISTRICT_NUMBER	REGION	Roadway
REGION_NAME	REGION NAME	Roadway
RIGHT_SHOULDER_SURFACE	RIGHT SHOULDER SURFACE TYPE	Roadway
RIGHT_SHOULDER_WIDTH	RIGHT SHOULDER WIDTH	Roadway
ROAD_WIDTH	ROAD WIDTH (DIRECTIONAL)	Roadway
FULL_ROAD_WIDTH	ROAD WIDTH (BIDIRECTIONAL)	Roadway
RODWYCLS	ROADWAY CLASS	Roadway
ROUTE_ID	ROUTE ID	Roadway
SPECIAL_USE_LANE_ROAD_SIDE	SPECIAL USE LANE (SIDE)	Roadway
SPECIAL_USE_LANE_SURFACE	SPECIAL USE LANE (SURFACE TYPE)	Roadway
SPECIAL_USE_LANE_TYPE	SPECIAL USE LANE (TYPE)	Roadway
SPECIAL_USE_LANE_WIDTH	SPECIAL USE LANE (WIDTH)	Roadway
LANE_SURFACE_TYPE	SURFACE TYPE	Roadway
TO_MEASURE	TO MEASURE	Roadway
URBAN_RURAL	URBAN/RURAL	Roadway
ARM	ACCUMULATED ROUTE MILEAGE	Horizontal Curve
CURVE_CENTRAL_ANGLE	CURVE CENTAL ANGLE	Horizontal Curve
CURVE_DIRECTION	CURVE DIRECTION	Horizontal Curve

VARIABLE NAME	VARIABLE DESCRIPTION	DATA FILE
CURVE_LENGTH	CURVE LENGTH	Horizontal Curve
CURVE_RADIUS	CURVE RADIUS	Horizontal Curve
FMEAS	FROM MEASURE	Horizontal Curve
RID	ROUTE ID	Horizontal Curve
RRT_RRQ_IDENTIFIER	RELATED ROADWAY TYPE IDENTIFIER	Horizontal Curve
SRMP	STATE ROUTE MILEPOST	Horizontal Curve
STATE_ROUTE	STATE ROUTE NUMBER	Horizontal Curve
SUPER_ELEVATION	SUPERELEVATION	Horizontal Curve
TMEAS	TO MEASURE	Horizontal Curve
ARM	ACCUMULATED ROUTE MILEAGE	Grade
CURVE_LENGTH	CURVE LENGTH	Grade
FMEAS	FROM MEASURE	Grade
F_GRADE_AHEAD	PERCENT GRADE AHEAD	Grade
F_GRADE_BACK	PERCENT GRADE BEHIND	Grade
RID	ROUTE ID	Grade
RRT_RRQ_IDENTIFIER	RELATED ROADWAY TYPE IDENTIFIER	Grade
SRMP	STATE ROUTE MILEPOST	Grade
STATE_ROUTE	STATE ROUTE NUMBER	Grade
TMEAS	TO MEASURE	Grade
ALCFLAG	ALCOHOL IMPAIRED INVOLVED PERSON INDICATOR	Crash
CASENO	CASE NUMBER	Crash
CITY	CITY NAME	Crash
ADMCLASS	COLLISION REPORT TYPE	Crash
COUNTY	COUNTY NAME	Crash
LOC_TYPE	CRASH LOCATION TYPE	Crash
MONTH	CRASH MONTH	Crash
REPORT	CRASH SEVERITY (GENERAL)	Crash
SEVERITY	CRASH SEVERITY (SPECIFIC)	Crash
TIME	CRASH TIME	Crash
ACCTYPE	CRASH TYPE	Crash
ACC_DATE	DATE	Crash
WEEKDAY	DAY OF WEEK	Crash
FUNC_CLS	FEDERAL FUNCTIONAL CLASS	Crash
FIRE	FIRE	Crash
COLTYPE1	FIRST HARMFUL EVENT	Crash
COLTYPE2	SECOND HARMFUL EVENT	Crash

VARIABLE NAME	VARIABLE DESCRIPTION	DATA FILE
HAZMAT	HAZARDOUS MATERIAL CARRIED	Crash
HIT_RUN	HIT AND RUN	Crash
IMPACT	IMPACT LOCATION	Crash
INTENT	INTENTIONAL ACTION	Crash
AGENCY	INVESTIGATING AGENCY	Crash
GPS_LATY	LATITUDE	Crash
LIGHT	LIGHT CONDITION	Crash
LOC_CHAR	LOCATION CHARACTERISTICS	Crash
GPS_LATX	LONGITUDE	Crash
MILEPOST	MILEPOST	Crash
MEDCAUSE	MEDICALLY CAUSED	Crash
NO_PEDS	NUMBER OF PEDESTRIANS	Crash
TOT_INJ	NUMBER OF PERSONS INJURED	Crash
TOT_KILL	NUMBER OF PERSONS KILLED	Crash
NUMVEHS	NUMBER OF VEHICLES	Crash
OBJECT1	OBJECT STRUCK 1	Crash
OBJECT2	OBJECT STRUCK 2	Crash
RDQUAL	RELATED ROADWAY QUALIFIER	Crash
RD_TYPE	RELATED ROADWAY TYPE	Crash
RD_CHAR1	ROADWAY CHARACTERISTICS	Crash
RODWYCLS	ROADWAY CLASS	Crash
RD_INV	ROADWAY INVENTORY	Crash
RDSURF	ROADWAY SURFACE	Crash
ST_FUNC	STATE FUNCTIONAL CLASS	Crash
RTE_NBR	STATE ROUTE NUMBER	Crash
DISTRICT	STATE ROUTE REGION NAME	Crash
RUR_URB	URBAN/RURAL	Crash
V1CMPDIR	V1 COMPASS DIRECTION	Crash
V2CMPDIR	V2 COMPASS DIRECTION	Crash
V1DIRCDE	V1 DIRECTION	Crash
V2DIRCDE	V2 DIRECTION	Crash
V1EVENT1	V1 MOVEMENT	Crash
M2EVENT1	V2 MOVEMENT	Crash
WEATHER	WEATHER CONDITION	Crash
WKZONE	WORK ZONE STATUS	Crash
ACCYR	YEAR	Crash
CASENO	CASE NUMBER	Unit

VARIABLE NAME	VARIABLE DESCRIPTION	DATA FILE
COM_BODY	COMMERCIAL CARRIER CARGO BODY	Unit
CMCONFIG	COMMERCIAL CARRIER CONFIGURATION	Unit
CDHAZNM	COMMERCIAL CARRIER HAZMAT	Unit
CMAXLES	COMMERCIAL CARRIER NUMBER OF AXLES	Unit
COM_GWR	COMMERCIAL CARRIER WEIGHT	Unit
DRV_ACTN	DRIVER ACTION	Unit
DRV_AGE	DRIVER AGE	Unit
DRAIRBAG	DRIVER AIRBAG STATUS	Unit
CONTRIB1	DRIVER CONTRIBUTION CIRCUMSTANCE 1	Unit
CONTRIB2	DRIVER CONTRIBUTION CIRCUMSTANCE 2	Unit
DRV_EJCT	DRIVER EJECTION	Unit
DRV_INJ	DRIVER INJURY SEVERITY	Unit
MISCAT1	DRIVER MISC ACTION 1	Unit
MISCAT2	DRIVER MISC ACTION 2	Unit
DRV_REST	DRIVER RESTRAINT USAGE	Unit
DRV_SEX	DRIVER SEX	Unit
INTOX	DRIVER SOBRIETY	Unit
DRASSESS	DRUG RECOGNITION EXPERT ASSESS	Unit
INTER_A	INTERSTATE CARRIER INDICATOR	Unit
CYC_INJ	PEDALCYCLIST INJURY CLASS	Unit
VRD_TYPE	ROADWAY TYPE	Unit
EVENT1	SEQUENCE OF EVENTS 1	Unit
EVENT2	SEQUENCE OF EVENTS 2	Unit
EVENT3	SEQUENCE OF EVENTS 3	Unit
EVENT 4	SEQUENCE OF EVENTS 4	Unit
V_STATE	STATE OF VEHICLE REGISTRATION	Unit
VEH_SEV	UNIT INJURY SEVERITY	Unit
UNITNO	UNIT NUMBER	Unit
VEHCOND1	VEHICLE DEFECT 1	Unit
VEHCOND2	VEHICLE DEFECT 2	Unit
VEHCOND3	VEHICLE DEFECT 3	Unit
MAKE	VEHICLE MAKE	Unit
BODYTYPE	VEHILCE MODEL	Unit
SPDLIMIT	VEHICLE POSTED SPEED	Unit
STOLEN	VEHICLE STOLEN	Unit

VARIABLE NAME	VARIABLE DESCRIPTION	DATA FILE
TRF_CNTL	VEHICLE TRAFFIC CONTROL	Unit
VEHTYPE	VEHICLE TYPE	Unit
VEH_USE	VEHICLE USAGE	Unit
VEHYR	VEHICLE YEAR	Unit
AGE	AGE	Person
AIRBAG	AIR BAG TYPE	Person
CASENO	CASE NUMBER	Person
EJECT	EJECTION STATUS	Person
HELMET	HELMET USE	Person
INJ	INJURY TYPE	Person
SEATPOS	INVOLVED PERSON TYPE	Person
SEX	PERSON SEX	Person
REST1	RESTRAINT SYSTEM TYPE	Person
UNITNO	UNIT NUMBER	Person

Roadway File

Annual Average Daily Traffic
Variable Name: TOTAL_AADT

Definition: AADT of the road segment (e.g., '10500').

Field Type: Numeric.

Access Control
Variable Name: ACCESS_CONTROL

Definition: Level of access control on the road segment (e.g., 'Non Limited Access Least Restrictive').

Field Type: Text.

City
Variable Name: CITY_NAME

Definition: City in which the segment is located (e.g., 'Spokane').

Field Type: Text.

Divided Indicator
Variable Name: DIVIDED_INDICATOR

Definition: Coded value that indicates road is median divided.

Field Type: Coded.

'Y'   Yes
'N'   No

From Measure
Variable Name: FROM_MEASURE

Definition: The beginning milepost of the road segment (e.g., '0.5374').

Field Type: Numeric.

Functional Class   Variable Name: FUNCTIONAL_CLASS

Definition: The federal functional classification of the road separated further by urban and rural designations (e.g., 'Urban Other Principal Arterial').

Field Type: Text.

Left Shoulder Surface Type   Variable Name: LEFT_SHOULDER_SURFACE

Definition: Surface or structure type of the shoulder on the left side of the road. This applies separately to the applicable direction of travel (e.g., 'Curb').

Field Type: Text.

Left Shoulder Width   Variable Name: LEFT_SHOULDER_WIDTH

Definition: Width of the left shoulder in feet. This applies separately to the applicable direction of travel (e.g., '4').

Field Type: Numeric.

Maintenance Area   Variable Name: MAINTENANCE_AREA

Definition: Applicable Washington State Department of Transportation (WsDOT) maintenance area (e.g., 'Area 1').

Field Type: Text.

Median Barrier Type   Variable Name: MEDIAN_BARRIER

Definition: Type of barrier in the median, if applicable (e.g., 'CABLE').

Field Type: Text.

Median Surface Type   Variable Name: MEDIAN_SURFACE

Definition: Type of surface in the median, if applicable (e.g., 'Gravel').

Field Type: Text.

Median Width
Variable Name: MEDIAN_WIDTH

Definition: Width of the median in feet (e.g., '6').

Field Type: Numeric.

National Highway System
Variable Name: NHS_INDICATOR

Definition: Text field that indicates the road is part of the National Highway System (e.g., 'YES').

Field Type: Text.

Number of Lanes (Directional)
Variable Name: LANE_COUNT

Definition: Total number of through lanes for a single direction of travel (e.g., '3').

Field Type: Numeric.

Number of Lanes (Bidirectional)
Variable Name: LANE_COUNT

Definition: Total number of through lanes for both directions of travel (e.g., '4').

Field Type: Numeric.

Pavement Surface Type
Variable Name: PAVEMENT_SURFACE_TYPE

Definition: The detailed surface type associated with paved roads.

Field Type: Coded.

'ACP'	Asphalt Concrete Pavement
'BST'	Bituminous Surface Treatment
'Gravel'	Gravel
'PCCP'	Portland Cement Concrete Pavement
'Other'	Other

Posted Speed Limit   Variable Name: SPEED_LIMIT

Definition: Posted speed limit of the road segment (e.g., '55').

Field Type: Numeric.

Region   Variable Name: DISTRICT_NUMBER

Definition: Coded value of the applicable WsDOT region (e.g., '6').

Field Type: Numeric.

Region Name   Variable Name: REGION_NAME

Definition: Textual name associated with the applicable WsDOT region (e.g., 'Eastern Region').

Field Type: Text.

Right Shoulder Surface Type   Variable Name: RIGHT_SHOULDER_SURFACE

Definition: Surface or structure type of the shoulder on the right side of the road. This applies separately to the applicable direction of travel (e.g., 'Asphalt').

Field Type: Text.

Right Shoulder Width   Variable Name: RIGHT_SHOULDER_WIDTH

Definition: Width of the right shoulder in feet. This applies separately to the applicable direction of travel (e.g., '6').

Field Type: Numeric.

Roadway Class*   Variable Name: RODWYCLS

Roadway Class. This variable is developed by the HSIS Laboratory for the purposes of readily classifying roadway data. This variable is a combination of the *Number of Lanes (Bidirectional)*, *Urban/Rural*, *Median Barrier Type/Width*, and *Functional Class* variables.

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* Variable created by HSIS Lab

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

Road Width (Directional)   Variable Name: ROAD _WIDTH

Definition: Width of the travel way in feet for a single direction of travel (e.g., '60').

Field Type: Numeric.

Road Width (Bidirectional)   Variable Name: FULL_ROAD _WIDTH

Definition: Width of the travel way in feet for the full cross-section that includes both directions of travel (e.g., '48').

Field Type: Numeric.

Route ID   Variable Name: ROUTE_ID

Definition: The unique route ID of the road segment. This is linkable to other HSIS files (e.g., '002COBROWNEi').

Field Type: Text.

Special Use Lane (Side)   Variable Name: SPECIAL_USE_LANE_ROAD_SIDE

Definition: Applicable side of the road associated with the special use lane. This is in relation to the applicable direction of travel.

Field Type: Coded.

'C'	Center
'L'	Left
'LC	Left Center
'R'	Right
'RC'	Right Center

Special Use Lane (Surface Type)   Variable Name: SPECIAL_USE_LANE_SURFACE

Definition: The surface type associated with the special use lane (e.g., 'Bituminous').

Field Type: Text.

Special Use Lane (Type)   Variable Name: SPECIAL_USE_LANE_TYPE

Definition: The functional use type of the special use lane.

Field Type: Coded.

'CL'	Climbing
'BL'	Bicycle Lane
'CU	Chain Up
'SV'	Slow Vehicle Turnout
'HV'	High Occupancy Vehicle
'HL'	Holding
'AX'	Weaving/Speed Change
'TW'	Two Way Turn
'TR'	Transit
'RV'	Reversible
'PK'	Parking
'RE'	Ramp Extension
'TS'	Truck Climbing Shoulder

Special Use Lane (Width)   Variable Name: SPECIAL_USE_LANE_WIDTH

Definition: The width of the special use lane in feet (e.g., '10').

Field Type: Numeric.

Surface Type   Variable Name: LANE_SURFACE_TYPE

Definition: Surface material of the travel way (e.g., 'Asphalt').

Field Type: Text.

To Measure   Variable Name: TO_MEASURE

Definition: The end milepost of the road segment (e.g., '0.68').

Field Type: Numeric.

Urban/Rural   Variable Name: URBAN_RURAL

Definition: Variable indicating the urban or rural setting of the road segment.

Field Type: Coded.

'R'   Rural
'U'   Urban

Horizontal Curve File

Accumulated Route Mileage
Variable Name: ARM

Definition: Milepost associated with the beginning of the curve. This is the milepost that WsDOT uses for locating curvature on its network (e.g., '0.28').

Field Type: Numeric.

Curve Central Angle
Variable Name: CURVE_CENTRAL_ANGLE

Definition: The angle in degrees whose apex is the center of a circle and whose legs are radii intersecting the circle in two distinct points (e.g., '114*55.8').

Field Type: Text.

Curve Direction
Variable Name: CURVE_DIRECTION

Definition: Direction of a curve on a roadway in relation to the direction of travel. This is relative to the direction of increasing mileposts.

Field Type: Coded.

> 'L'   Left
> 'R'   Right

Curve Length
Variable Name: CURVE_LENGTH

Definition: Length of the curve in feet (e.g., '501').

Field Type: Numeric.

Curve Radius
Variable Name: CURVE_RADIUS

Definition: The distance from the center point of a curve to the arc of a curve in feet (e.g., '250').

Field Type: Numeric.

From Measure Variable Name: FROM_MEASURE

Definition: The beginning milepost measure of the curve on the designated route (e.g., '0.28').

Field Type: Numeric.

Route ID Variable Name: ROUTE_ID

Definition: The unique route ID of the curve used to link it to the base road network (e.g., '018P500872i').

Field Type: Text.

Related Roadway Type Identifier Variable Name: RRT_RRQ_IDENTIFIER

Definition: Related Roadway Type (RRT) or Related Roadway Qualifier (RRQ); this number concatenated with *State Route Number* field and applicable direction (i.e., 'i' or 'd') results in the Route ID (e.g., 'P500872').

Field Type: Text.

State Route Milepost Variable Name: SRMP

Definition: A logical number, assigned by a Linear Referencing Method, to curve along a State Route. This value will match the *Accumulated Route Mileage* value unless there has been a realignment or jurisdictional transfer which changes the length of a route (e.g., '0.28').

Field Type: Numeric.

State Route Number Variable Name: STATE_ROUTE

Definition: Applicable State route number on which the curve is located (e.g., '18').

Field Type: Numeric.

Superelevation   Variable Name: SUPER_ELEVATION

Definition: The inclination or banking of the roadway along the curve. It is the height of the outer edge of the pavement with respect to the width of the pavement (e.g., '0.1').

Field Type: Numeric.

To Measure   Variable Name: TO_MEASURE

Definition: The end milepost measure associated with the curve (e.g., '0.374886').

Field Type: Numeric.

Grade File

Accumulated Route Mileage
Variable Name: ARM

Definition: Milepost associated with the beginning of the curve. This is the milepost that WsDOT uses as a reference point on its road network (e.g., '0.28').

Field Type: Numeric.

Curve Length
Variable Name: CURVE_LENGTH

Definition: Length of the curve in feet (e.g., '501').

Field Type: Numeric.

From Measure
Variable Name: FROM_MEASURE

Definition: The beginning milepost measure of the curve (e.g., 0.28).

Field Type: Numeric.

Percent Grade Ahead
Variable Name: F__GRADE_AHEAD

Definition: The vertical grade in percent of the roadway ahead of the ARM location. This is in reference to the direction of increasing milepost values (e.g., '1.85').

Field Type: Numeric.

Percent Grade Behind
Variable Name: F__GRADE_BACK

Definition: The vertical grade in percent of the roadway behind of the ARM location. This is in reference to the direction of decreasing milepost values (e.g., '-2.55').

Field Type: Numeric.

Route ID
Variable Name: ROUTE_ID

Definition: The unique route ID applicable to the grade measurement (e.g., '018P500872i').

Field Type: Text.

Related Roadway Type Identifier   Variable Name: RRT_RRQ_IDENTIFIER

Definition: RRT or RRQ; this number concatenated with *State Route Number* field and applicable direction (i.e., 'i' or 'd') results in the Route ID (e.g., 'P500872').

Field Type: Text.

State Route Milepost   Variable Name: SRMP

Definition: A logical number, assigned by a Linear Referencing Method, to the curve along a State Route. This value will match the *Accumulated Route Mileage* value unless there has been a realignment or jurisdictional transfer which changes the length of a route (e.g., '0.28').

Field Type: Numeric.

State Route Number   Variable Name: STATE_ROUTE

Definition: Applicable State route number on which the curve is located (e.g., '18').

Field Type: Numeric.

To Measure   Variable Name: TO_MEASURE

Definition: The end milepost measure associated with the curve (e.g., '0.374886').

Field Type: Numeric.

Crash File

Alcohol Impaired Involved Person Indicator   Variable Name: ALCFLAG

Definition: Indicator that a person involved in the crash was under the influence of alcohol.

Field Type: Coded.

'0'   Not Impaired
'1'   Impaired

Case Number   Variable Name: CASENO

Definition: Unique case number of the crash. This variable can be used to link the Crash file to the Unit and Person files (e.g., '2020000001').

Field Type: Numeric.

City Name   Variable Name: CITY

Definition: City in which the crash occurred (e.g., 'Seattle').

Field Type: Text.

Collision Report Type   Variable Name: ADMCLASS

Definition: Administrative class of road on which the crash occurred (e.g., 'State Route').

Field Type: Text.

County Name   Variable Name: COUNTY

Definition: County in which the crash occurred (e.g., 'King').

Field Type: Text.

Crash Location Type   Variable Name: LOC_TYPE

Definition: Location of the crash in relation to an intersection or driveway (e.g., 'At Intersection and Related').

Field Type: Text.

Crash Month   Variable Name: MONTH

Definition: Month when crash occurred (e.g., 'January').

Field Type: Text.

Crash Severity (General)   Variable Name: REPORT

Definition: General injury level associated with the crash (e.g., 'Injury').

Field Type: Text.

Crash Severity (Specific)   Variable Name: SEVERITY

Definition: Severity of the crash on the KABCO scale. Variable also indicates when fatality occurred if crash resulted in a fatality (e.g., 'Suspected Minor Injury').

Field Type: Text.

Crash Time   Variable Name: TIME

Definition: Time of the crash according to a 24 hour clock (e.g., '1800).

Field Type: Numeric.

Crash Type   Variable Name: ACCTYPE

Definition: Type of crash and description of the collision (e.g., 'Strikes REAR END of other vehicle').

Field Type: Text.

Date   Variable Name: ACC_DATE

Definition: Date when the crash occurred (MM/DD/YYYY).

Field Type: Date.

Day of Week   Variable Name: WEEKDAY

Definition: Day of week when the crash occurred.

Field Type: Coded.

'1'	Monday
'2'	Tuesday
'3'	Wednesday
'4'	Thursday
'5'	Friday
'6'	Saturday
'7'	Sunday

Federal Functional Class   Variable Name: FUNC_CLS

Definition: Federal functional class separated by urban and rural (e.g., 'Urban Interstate').

Field Type: Text.

Fire   Variable Name: FIRE

Definition: Indicator that the crash resulted in a vehicle fire (e.g., 'Yes').

Field Type: Text.

First Harmful Event   Variable Name: COLTYPE1
Second Harmful Event   Variable Name: COLTYPE2

Definition: Objects struck during the collision or action(s) that led to a collision (e.g., 'Fixed Object').

Field Type: Text.

Hazardous Material Carried

Variable Name: HAZMAT

Definition: Indicator that hazardous material was being transported, as well as if it was released (e.g., 'Hazmat Transported – Released').

Field Type: Text.

Hit and Run

Variable Name: HIT_RUN

Definition: Indicator of a hit and run (e.g., 'No').

Field Type: Text.

Impact Location

Variable Name: IMPACT

Definition: Location in relation to the roadway where impact occurred (e.g., 'Lane of Primary Trafficway').

Field Type: Text.

Intentional Action

Variable Name: INTENT

Definition: indicator that the crash was the result of an intentional action by any participant (e.g., 'No').

Field Type: Text.

Investigating Agency

Variable Name: AGENCY

Definition: Agency that investigated and reported the crash (e.g., 'Municipal/City Police').

Field Type: Text.

Latitude

Variable Name: GPS_LATY

Longitude

Variable Name: GPS_LATX

Definition: GPS coordinates in Washington State Plane South where the crash occurred (e.g., '1208303.82, 741565.16').

Field Type: Numeric.

Light Condition   Variable Name: LIGHT

Definition: The type/level of ambient lighting at the time of the crash (e.g., 'Daylight').

Field Type: Text.

Location Characteristics   Variable Name: LOC_CHAR

Definition: Additional location information to indicate any special features (e.g., 'Bridge or Overpass').

Field Type: Text.

Milepost   Variable Name: MILEPOST

Definition: Milepost of the crash according to the State Route Accumulated Route Milepost value (e.g., '19.7').

Field Type: Numeric.

Medically Caused   Variable Name: MEDCAUSE

Definition: Indicator that the crash occurred due to a medical reason (e.g., 'Yes').

Field Type: Text.

Number of Pedestrians   Variable Name: NO_PEDS

Definition: Number of pedestrians involved in the crash (e.g., '1')

Field Type: Numeric.

Number of Persons Injured   Variable Name: TOT_INJ

Definition: Total number of persons injured in the crash (e.g., '2').

Field Type: Numeric.

Number of Persons Killed

Variable Name: TOT_KILL

Definition: Total number of persons killed in the crash (e.g., '1').

Field Type: Numeric.

Number of Vehicles

Variable Name: NUMVEHS

Definition: Total number of vehicles involved in the crash (e.g., '3').

Field Type: Numeric.

Object Struck 1

Variable Name: OBJECT1

Object Struck 2

Variable Name: OBJECT2

Definition: Specific type of fixed objects struck in the crash if applicable (e.g., 'Roadway Ditch').

Field Type: Text.

Related Roadway Qualifier

Variable Name: RDQUAL

Definition: Related roadway qualifier of the location where crash occurred. This variable also applies to the Route ID if applicable to the crash (e.g., 'ABERDN')

Field Type: Text.

Related Roadway Type

Variable Name: RD_TYPE

Definition: Roadway type of the location where crash occurred (e.g., 'MAINLINE').

Field Type: Text.

Roadway Characteristics

Variable Name: RD_CHAR1

Definition: The general characteristics of the curve and grade of the road where the crash occurred as reported by the responding officer (e.g., 'Straight & Level').

Field Type: Text.

Roadway Class*   Variable Name: RODWYCLS

Roadway Class. This variable is developed by the HSIS Laboratory for the purposes of readily classifying roadway data. This variable is a combination of the *Number of Lanes (Bidirectional)*, *Urban/Rural*, *Median Barrier Type/Width*, 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

Roadway Inventory   Variable Name: RD_INV

Definition: Roadway inventoried number where the crash occurred (e.g., '405').

Field Type: Numeric.

Roadway Surface   Variable Name: RDSURF

Definition: The condition of the road surface where the crash occurred at the time of the crash (e.g., 'Dry').

Field Type: Text.

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* Variable created by HSIS Lab

State Functional Class   Variable Name: ST_FUNC

Definition: State functional class designation of the road where crash occurred.

Field Type: Coded.

'R1'	Rural - Principal Arterial
'R2'	Rural - Minor Arterial
'R3'	Rural - Collector
'R4'	Rural - Unclassified
'R5'	Rural - Interstate
'U1'	Urban - Principal Arterial
'U2'	Urban - Minor Arterial
'U3'	Urban - Collector
'U4'	Urban - Unclassified
'U5'	Urban - Interstate

State Route Number   Variable Name: RTE_NBR

Definition: Route number associated with the crash (e.g., '167').

Field Type: Text.

State Route Region Name   Variable Name: DISTRICT

Definition: WsDOT region name associated with the crash location (e.g., 'Northwest').

Field Type: Text.

Urban/Rural   Variable Name: RUR_URB

Definition: Variable indicating the urban or rural setting of the crash (e.g., 'Rural').

Field Type: Text.

V1 Compass Direction
V2 Compass Direction

Variable Name: V1CMPDIR

Variable Name: V2CMPDIR

Definition: Compass direction of travel associated with the units (1 and 2) in the crash.

Field Type: Coded.

'N'	North
'NE'	Northeast
'E'	East
'SE'	Southeast
'S'	South
'SW'	Southwest
'W'	West
'NW'	Northwest
'Un'	Unknown

V1 Direction
V2 Direction

Variable Name: V1DIRCDE

Variable Name: V2DIRCDE

Definition: Direction of the units (1 and 2) in the crash related to roadway (e.g., 'Increasing milepost of major roadway').

Field Type: Text.

V1 Movement
V2 Movement

Variable Name: V1EVENT1

Variable Name: V2EVENT1

Definition: Relative movements of the units (1 and 2) prior to the crash (e.g., 'Moving Straight').

Field Type: Text.

Weather Condition

Variable Name: WEATHER

Definition: Weather conditions when the crash occurred (e.g., 'Clear or Partly Cloudy').

Field Type: Text.

Work Zone Status   Variable Name: WKZONE

Definition: Work zone details if the crash occurred in a work zone (e.g., 'Within WorkZone').

Field Type: Text.

Year   Variable Name: ACCYR

Definition: Year crash occurred.

Field Type: Numeric.

Unit File

Case Number   Variable Name: CASENO

Definition: Unique case number of the crash. This variable can be used to link the Unit file to the Crash and Person files (e.g., '2020000001').

Field Type: Numeric.

Commercial Carrier Cargo Body   Variable Name: COM_BODY

Definition: Commercial carrier cargo body type (e.g., 'Van/Enclosed Box').

Field Type: Text.

Commercial Carrier Configuration   Variable Name: CMCONFIG

Definition: Commercial carrier vehicle configuration (e.g., 'Tractor/Semi-Trailer').

Field Type: Text.

Commercial Carrier Hazmat   Variable Name: CDHAZNM

Definition: Indicator that hazardous materials were carried by a commercial vehicle, and if so, whether or not they were released (e.g., 'Hazmat Transported – Not Released').

Field Type: Text.

Commercial Carrier Number of Axles   Variable Name: CMAXLES

Definition: Number of axles on the commercial carrier (e.g., '5').

Field Type: Numeric.

Commercial Carrier Weight   Variable Name: COM_GWR

Definition: Weight of the commercial carrier in pounds (e.g., '80000').

Field Type: Numeric.

Driver Action

Definition: Action of the unit prior to the crash (e.g., 'Stopped for Traffic').

Field Type: Text.

Driver Age

Definition: The age of the driver of the vehicle (or non-motorist) involved in the crash (e.g., '35').

Field Type: Numeric.

Driver Airbag Status

Definition: Indicator that the airbag was deployed, and if so, location (e.g., 'Front Airbag Deployed').

Field Type: Text.

Driver Contribution Circumstance 1

Driver Contribution Circumstance 2

Definition: First and second violations or factors related to the unit's action that contributed to the crash (e.g., 'Inattention').

Field Type: Text.

Driver Ejection

Definition: Indicator that the driver was ejected from the vehicle, as well as the severity of ejection (e.g., 'Partially Ejected').

Field Type: Text.

Driver Injury Severity

Variable Name: DRV_INJ

Definition: Injury severity of the driver of the vehicle (or non-motorist). This is related to the KABCO scale (e.g., 'Suspected Serious Injury').

Field Type: Text.

Driver Misc Action 1

Variable Name: MISCACT1

Driver Misc Action 2

Variable Name: MISCACT2

Definition: Other special actions related to the unit (e.g., 'Hit and Run').

Field Type: Text.

Driver Restraint Usage

Variable Name: DRV_REST

Definition: Type of safety restraint used by the driver (e.g., 'Lap & Shoulder Used').

Field Type: Text.

Driver Sex

Variable Name: DRV_SEX

Definition: Sex of the driver of the vehicle (or non-motorist) involved in crash (e.g., 'Male').

Field Type: Text.

Driver Sobriety

Variable Name: INTOX

Definition: Sobriety of the driver (or non-motorist) in the vehicle (e.g., 'Had NOT Been Drinking').

Field Type: Text.

Drug Recognition Expert Assess

Variable Name: DRASSESS

Definition: Drug recognition expert (DRE) assessment for the driver of the vehicle or non-motorist (e.g., 'DRE Requested and Assisted').

Field Type: Text.

Interstate Carrier Indicator   Variable Name: INTER_A

Definition: Interstate carrier indicator for commercial vehicles (e.g., 'Intrastate').

Field Type: Text.

Pedalcyclist Injury Class   Variable Name: CYC_INJ

Definition: Injury severity associated with the pedalcyclist involved in the crash (e.g., 'Suspected Serious Injury').

Field Type: Text.

Roadway Type   Variable Name: VRD_TYPE

Definition: General roadway configuration associated with the unit's location at the time of the crash (e.g., 'Two Way – Undivided').

Field Type: Text.

Sequence of Events 1   Variable Name: EVENT1
Sequence of Events 2   Variable Name: EVENT2
Sequence of Events 3   Variable Name: EVENT3
Sequence of Events 4   Variable Name: EVENT4

Definition: First, second, third, and fourth event in the crash sequence of this vehicle (e.g., 'Ran off the Road').

Field Type: Text.

State of Vehicle Registration   Variable Name: V_STATE

Definition: State associated with the vehicle's registration (e.g., 'Washington')

Field Type: Text.

Unit Injury Severity   Variable Name: VEH_SEV

Definition: Most severe injury associated with the unit (e.g., 'Suspected Serious Injury').

Field Type: Text.

Unit Number   Variable Name: UNITNO

Definition: Unique unit number. In addition to the *Case Number*, this variable can be used to link the Unit file and the Person file (e.g., '2').

Field Type: Numeric.

Vehicle Defect 1   Variable Name: VEHCOND1
Vehicle Defect 2   Variable Name: VEHCOND2
Vehicle Defect 3   Variable Name: VEHCOND3

Definition: Defects present in this vehicle at the time of the crash (e.g., 'Defective Brakes').

Field Type: Text.

Vehicle Make   Variable Name: MAKE

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

Field Type: Text.

Vehicle Model   Variable Name: BODYTYPE

Definition: Model of the vehicle involved in the crash (e.g., 'CAMRY').

Field Type: Text.

Vehicle Posted Speed   Variable Name: SPDLIMIT

Definition: Posted speed limit of the road in miles per hour that the vehicle was on at the time of the crash (e.g., '45').

Field Type: Numeric.

Vehicle Stolen

Definition: Indicator that the vehicle was stolen (e.g., 'No').

Field Type: Text.

Vehicle Traffic Control

Definition: Traffic control devices where the crash occurred (e.g., 'Signals').

Field Type: Text.

Vehicle Type

Definition: Type of vehicle involved in the crash (e.g., 'Passenger Car'). This value will be null for non-motorists.

Field Type: Text.

Vehicle Usage

Definition: Special vehicle use type (e.g., 'Trailer – Utility').

Field Type: Text.

Vehicle Year

Definition: Model year of the vehicle involved in the crash (e.g., '2015').

Field Type: Numeric.

Person File

Age

Definition: Age of the person (e.g., '35').

Field Type: Numeric.

Air Bag Type

Definition: Indicator that the airbag was deployed, and if so, location (e.g., 'Front Airbag Deployed').

Field Type: Text.

Case Number

Definition: Unique case number of the crash. This variable can be used to link the Person file to the Crash and Unit files (e.g., '2020000001').

Field Type: Numeric.

Ejection Status

Definition: Indicator that the person was ejected from the vehicle, as well as the severity of ejection (e.g., 'Partially Ejected').

Field Type: Text.

Helmet Use

Definition: Indicator that the pedestrian/cyclist/motorcyclist used a helmet at the time of the crash, and what type of helmet it was (e.g., 'DO Compliant Motorcycle Helmet').

Field Type: Text.

Injury Type

Variable Name: INJ

Definition: Severity of injuries sustained in the crash by the person. This is related to the KABCO injury scale (e.g., 'Suspected Minor Injury').

Field Type: Text.

Involved Person Type

Variable Name: SEATPOS

Definition: Type of person, including both motor vehicle occupants and non-motorists (e.g., 'MV Driver').

Field Type: Text.

Person Sex

Variable Name: SEX

Definition: Sex of person involved in the crash (e.g., 'Male').

Field Type: Text.

Restraint System Type

Variable Name: REST1

Definition: Safety equipment or restraint used by the person (e.g., 'Lap & Shoulder Used').

Field Type: Text.

Unit Number

Variable Name: UNITNO

Definition: Unique unit number. In addition to the *Case Number*, this variable can be used to link the Unit file and the Person file (e.g., '2').

Field Type: Numeric.

Appendix A: History of Revisions

File	Variable Name	Variable	Description of Change	Year of Change
Crash	AC_MLMP	ACC MAINLINE MILEPOST	Variable discontinued Variable recreated Variable discontinued	1999 2012 2018
Crash	AC_SRMPI	SRMP AHEAD BACK INDICATOR	Variable discontinued	2018
Crash	ACC_DATE	ACC DATE YYMMDD	Variable discontinued Variable recreated	1999 2018
Crash	ACCTYPE	ACC TYPE	Variable type change from coded to text	2018
Crash	ADMCLASS	ADMIN CLASS	Variable type change from coded to text	2018
Crash	AGENCY	INVESTIGATING AGENCY	Variable type change from coded to text	2018
Crash	ALCFLAG	DRV ALCOHOL FLAG	Variable discontinued Variable recreated	1999 2018
Crash	CENTURY	ACC CENTURY	Variable discontinued	1999
Crash	CITY	CITY NUMBER	Variable type change from coded to text	2018
Crash	COLTYPE1	COLLISION TYPE 1	Variable type change from coded to text	2018
Crash	COLTYPE2	COLLISION TYPE 2	Variable type change from coded to text	2018
Crash	COUNTY	COUNTY NUMBER	Variable type change from coded to text	2018
Crash	DAYMTH	ACC DAY OF MONTH	Variable discontinued	2018
Crash	DISTRICT	DISTRICT NUMBER	Variable type change from coded to text	2018
Crash	FIRE	FIRE	Variable type change from coded to text	2018
Crash	FORM_REPT_NO	TRAFFIC COLLISION REPORT FORM NUMBER	Variable added Variable discontinued	2012 2018
Crash	FUNC_CLS	FUNCTIONAL CLASS	Variable type change from coded to text	2018
Crash	GPS_LATX	GPS X	Variable added	1999
Crash	GPS_LATY	GPS Y	Variable added	1999
Crash	GPS_LATZ	GPS Z	Variable added Variable discontinued	1999 2018
Crash	HAZMAT	HAZARDOUS MATERIAL	Variable type change from coded to text	2018
Crash	HIT_RUN	HIT AND RUN	Variable added Variable type change from coded to text	1999 2018

Appendix A: History of Revisions

File	Variable Name	Variable	Description of Change	Year of Change
Crash	IMPACT	IMPACT LOCATION	Variable type change from coded to text	2018
Crash	INTENT	INTENTIONAL ACTION	Variable added Variable type change from coded to text	1999 2018
Crash	LIGHT	LIGHT CONDITION	Variable type change from coded to text	2018
Crash	LOC_CHAR	LOCATION CHARACTERISTICS	Variable type change from coded to text	2018
Crash	LOC_TYPE	ACC LOCATION TYPE	Variable type change from coded to text	2018
Crash	MAINTDT	LAST MAINTENANCE DATE	Variable discontinued	2018
Crash	MEDCAUSE	MEDICALLY CAUSED	Variable added Variable type change from coded to text	1999 2018
Crash	MLMP_IND	MAINLINE ARM INDICATOR	Variable discontinued	1999
Crash	MONTH	ACC MONTH	Variable type change from coded to text	2018
Crash	MVMT	MILLION VEH MILES TRAVELLED	Variable discontinued	1999
Crash	NO_PEDS	NUMBER OF PEDESTRAINS	Variable added	1999
Crash	NONMVIND	NON-TRAFFIC INDICATOR	Variable added Variable discontinued	1999 2018
Crash	OBJECT1	OBJECT STRUCK 1	Variable type change from coded to text	2018
Crash	OBJECT2	OBJECT STRUCK 2	Variable type change from coded to text	2018
Crash	PREFX_CD	PREFIX 1	Variable discontinued	2018
Crash	PROPDAM	PROPERTY DAMAGE AMOUNT	Variable discontinued	1999
Crash	RAMP_IND	RAMP INDICATOR	Variable discontinued	1999
Crash	RD_CHAR1	ROADWAY CHARACTERISTICS	Variable type change from coded to text	2018
Crash	RD_QUAL	ROADWAY QUALIFIER	Variable discontinued	2018
Crash	RD_REL	ON/OFF ROAD	Variable discontinued	2018
Crash	RD_TYPE	RELATED ROADWAY TYPE	Variable type change from coded to text	2018
Crash	RDSURF	ROADWAY SURFACE	Variable type change from coded to text	2018
Crash	REC_TYPE	RECORD TYPE	Variable discontinued	2018
Crash	REPORT	ACC SEVERITY	Variable type change from coded to text	2018
Crash	REV_MP	REVERSE ARM	Variable discontinued	2018

File	Variable Name	Variable	Description of Change	Year of Change
Crash	RODWYCLS	ROADWAY CLASS	Variable type change from coded to text	2018
Crash	RUR_URB	RURAL URBAN	Variable type change from coded to text	2018
Crash	SEQNO	SEQUENCE NUMBER	Variable discontinued	1999
Crash	SEVERITY	MOST SEVERE INJURY	Variable type change from coded to text	2018
Crash	SPILLAGE	FUEL SPILLAGE	Variable discontinued	1999
Crash	SR_ADID	STATE ROUTE ADDITIONAL ID	Variable discontinued	2018
Crash	STREPORT	STATE REPORT	Variable added Variable discontinued	1999 2018
Crash	TIME	ACC TIME	Variable type change from coded to numeric	2018
Crash	TIMEARR	POLICE ARRIVED TIME	Variable discontinued	2018
Crash	TIMENOTE	POLICE DISPATCHED TIME	Variable discontinued	2018
Crash	V1DIRCDE	V1 DIRECTION	Variable type change from coded to text	2018
Crash	V2DIRCDE	V2 DIRECTION	Variable type change from coded to text	2018
Crash	V1EVENT1	V1 MOVEMENT	Variable type change from coded to text	2018
Crash	V2EVENT1	V2 MOVEMENT	Variable type change from coded to text	2018
Crash	WEATHER	WEATHER CONDITION	Variable type change from coded to text	2018
Crash	WKZONE	WORK ZONE STATUS	Variable added Variable type change from coded to text	1999 2018
Crash	WSP_UPDT	WSP UPDATE DATE	Variable discontinued	1999
Crash	XRDCLASS	CROSS ROAD CLASS TYPE	Variable added Variable discontinued	1999 2018
Crash	ACCYR	YEAR	Variable added Variable discontinued	2018 2007
Unit	ADD_INFO	ACC VEH ADDITIONAL INFO	Variable discontinued	1999
Unit	CDHAZNM	COMM CARRIER HAZMAT	Variable added	1999
Unit	CDPLACCD	COMM CARRIER PLACARD	Variable added Variable discontinued	1999 2018
Unit	CDPLACNO	COMM CARRIER PLACARD NUM	Variable added Variable discontinued	1999 2018

File	Variable Name	Variable	Description of Change	Year of Change
Unit	CDPLACSU	COMM CARRIER PLACARD SUFFIX	Variable added Variable discontinued	1999 2018
Unit	CMAXLES	COMM CARRIER NUM OF AXLES	Variable added	1999
Unit	CMCONFIG	COMM CARRIER CONFIG	Variable added Variable type change from coded to text	1999 2018
Unit	COM_BODY	COMM CARRIER CARGO BODY	Variable added Variable type change from coded to text	1999 2018
Unit	COM_GWR	COMMERCIAL CARRIER WEIGHT	Variable added	1999
Unit	CONTRIB1	DRV CONTRIB CIRCUMS 1	Variable type change from coded to text	2018
Unit	CONTRIB2	DRV CONTRIB CIRCUMS 2	Variable type change from coded to text	2018
Unit	CYC_INJ	PEDALCYCLIST INJURY CLASS	Variable type change from coded to text	2018
Unit	DAMSEV	VEH DAMAGE SEVERITY	Variable discontinued	1999
Unit	DIR_TRVL	VEH MOVEMENT DIRECTION	Variable discontinued	1999
Unit	DRAIRBAG	DRV AIRBAG STATUS	Variable added Variable type change from coded to text	1999 2018
Unit	DRASSESS	DRUG RECOG EXPERT ASSESS	Variable added Variable type change from coded to text	1999 2018
Unit	DRV_ACTN	DRV ACTION	Variable type change from coded to text	2018
Unit	DRV_AGE	DRV AGE	Variable type change from coded to numeric	2018
Unit	DRV_EJCT	DRV EJECTION	Variable type change from coded to text	2018
Unit	DRV_INJ	DRV INJURY CLASS	Variable type change from coded to text	2018
Unit	DRV_REST	DRV RESTRAINT USAGE	Variable type change from coded to text	2018
Unit	DRV_SEX	DRV SEX	Variable type change from coded to text	2018
Unit	EVENT1	SEQUENCE OF EVENTS 1	Variable added Variable type change from coded to text	1999 2018

File	Variable Name	Variable	Description of Change	Year of Change
Unit	EVENT2	SEQUENCE OF EVENTS 2	Variable added Variable type change from coded to text	1999 2018
Unit	EVENT3	SEQUENCE OF EVENTS 3	Variable added Variable type change from coded to text	1999 2018
Unit	EVENT4	SEQUENCE OF EVENTS 4	Variable added Variable type change from coded to text	1999 2018
Unit	HELMET	PED/CYC HELMET	Variable type change from coded to text	2013
Unit	INTER_A	INTERSTATE INDICATOR	Variable added Variable type change from coded to text	1999 2018
Unit	INTOX	DRV SOBRIETY	Variable added Variable type change from coded to text	1996 2018
Unit	MISCACT1	DRV MISC ACTION 1	Variable type change from coded to text	2018
Unit	MISCACT2	DRV MISC ACTION 2	Variable type change from coded to text	2018
Unit	MTC_INJ	PEDALCYCLIST INJURY CLASS	Variable added Variable discontinued	1999 2018
Unit	MTC_INJ_TYPE	PECALCYCLIST INJURY TYPE	Variable discontinued	1999
Unit	OCCUPAC	DRV OCCUPATION	Variable discontinued	1999
Unit	OFF_ACTN	OFFICER ACTION	Variable discontinued	1999
Unit	ON_DUTY	ON DUTY STATUS	Variable added	1999
Unit	OUTSTATE	VEH STATE OF REGISTRATION	Variable discontinued	1999
Unit	PED_CLT	PED/CYC CLOTHING	Variable discontinued	1999
Unit	PED_CUM1	PED/CYC CIRCUMS 1	Variable discontinued	1999
Unit	PED_CUM2	PED/CYC CIRCUMS 2	Variable discontinued	1999
Unit	PED_LOC	PED/CYC LOCATION	Variable discontinued	1999
Unit	PED_STUS	PED/CYC STATUS	Variable discontinued	1999
Unit	PED_WLK	PED WALK	Variable discontinued	1999
Unit	PEDACT	PED/CYC ACTIONS	Variable discontinued	1999
Unit	RD_SEP	VEH ROAD SEPARATE	Variable discontinued	1999
Unit	RESIDLOC	DRV RESIDENCE PROXIMITY	Variable discontinued	1999
Unit	SOB_TEST	DRV SOBRIETY	Variable discontinued	1999

File	Variable Name	Variable	Description of Change	Year of Change
Unit	SPDLIMIT	VEH POSTED SPEED	Variable type change from coded to text	2013
Unit	STOLEN	VEH STOLEN	Variable added	1999
Unit	STYLE	VEH STYLE	Variable discontinued	1999
Unit	SURF_TYP	ROADWAY SURFACE TYPE	Variable discontinued	2018
Unit	TRAILER	TRAILER INFO	Variable discontinued	1999
Unit	TRF_CNTL	VEH TRAFFIC CONTROL	Variable type change from coded to text	2018
Unit	V_STATE	STATE OF VEH REGISTRATION	Variable added	1999
Unit	VEH_SEV	DRV INJURY SEVERITY	Variable type change from coded to text	2018
Unit	VEH_USE	VEH USAGE	Variable added Variable type change from coded to text	1999 2018
Unit	VEHCOND1	VEH DEFECT 1	Variable type change from coded to text	2018
Unit	VEHCOND2	VEH DEFECT 2	Variable type change from coded to text	2018
Unit	VEHCOND3	VEH DEFECT 3	Variable added Variable type change from coded to text	1999 2018
Unit	VEHNO	VEHICLE NUMBER	Variable name changed to 'UNITNO'	2018
Unit	VEHTYPE	VEH TYPE	Variable type change from coded to text	2018
Unit	VRD_TYPE	ROADWAY TYPE	Variable type change from coded to text	2018
Person	AGE	DRV/OCC AGE	Variable type change from coded to numeric	2018
Person	AIRBAG	OCCUPANT AIRBAG	Variable added Variable type change from coded to text	1999 2018
Person	EJECT	DRV/OCC EJECTION	Codes added to coded values Variable type change from coded to text	1999 2018
Person	HELMET	PED/CYC HELMET	Variable added Variable type change from coded to text	2006 2018

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File	Variable Name	Variable	Description of Change	Year of Change
Person	INJ	DRV/OCC INJURY	Codes added to coded values Variable type change from coded to text	1999 2018
Person	NO_OCCS	NUMBER OF OCCUPANTS	Variable added Variable discontinued	1999 2006
Person	REST1	DRV/OCC RESTRAINT	Variable type change from coded to text	2018
Person	SEATPOS	DRV/OCC SEAT POSITION	Variable type change from coded to text	2018
Person	SEX	DRV/OCC SEX	Variable type change from coded to text	2018
Person	VEHNO	VEHICLE NUMBER	Variable name changed to 'UNITNO'	2018
Roadway	AADT	AVER ANNUAL DAILY TRAFFIC	Variable type change from coded to numeric	2020
Roadway	ACCES_DT	ACCESS CONTROL DATE	Variable discontinued	2019
Roadway	ACCESS	ACCESS CONTROL TYPE	Variable name changed to 'ACCESS_CONTROL' Variable type change from coded to text	2020 2020
Roadway	ACLL_DT1	LEFT ACCEL LANE DATE RD1	Variable discontinued	2018
Roadway	ACLL_DT2	LEFT ACCEL LANE DATE RD2	Variable discontinued	2018
Roadway	ACLL_LG1	LEFT ACCEL LANE LENGTH RD1	Variable discontinued	2018
Roadway	ACLL_LG2	LEFT ACCEL LANE LENGTH RD2	Variable discontinued	2018
Roadway	ACLL_WD1	LEFT ACCEL LANE WIDTH RD1	Variable discontinued	2018
Roadway	ACLL_WD2	LEFT ACCEL LANE WIDTH RD2	Variable discontinued	2018
Roadway	ACLR_DT1	RIGHT ACCEL LANE DATE RD1	Variable discontinued	2018
Roadway	ACLR_DT2	RIGHT ACCEL LANE DATE RD2	Variable discontinued	2018
Roadway	ACLR_LG1	RIGHT ACCEL LANE LENGTH RD1	Variable discontinued	2018
Roadway	ACLR_LG2	RIGHT ACCEL LANE LENGTH RD2	Variable discontinued	2018
Roadway	ACLR_WD1	RIGHT ACCEL LANE WIDTH RD1	Variable discontinued	2018
Roadway	ACLR_WD2	RIGHT ACCEL LANE WIDTH RD2	Variable discontinued	2018
Roadway	ACSEQ_NB	ACC SEQ NUM	Variable discontinued	2018

File	Variable Name	Variable	Description of Change	Year of Change
Roadway	BEGMP	BEGMP	Variable name changed to 'FROM_MEASURE'	2020
Roadway	CITY	CITY NUMBER	Variable name changed to 'CITY_NAME' Variable type change from coded to text	2020 2020
Roadway	CITY_DT	CITY DATE	Variable discontinued	2018
Roadway	CNTL_SEC	CONTROL SECTION	Variable discontinued	2018
Roadway	CNTY_DT	COUNTY DATE	Variable discontinued	2018
Roadway	COMP_DIR	COMPASS DIRECTION	Variable discontinued	2018
Roadway	COUNTY	COUNTY NUMBER	Variable discontinued	2018
Roadway	CTY_ZONE	CITY ZONE TYPE	Variable discontinued	2018
Roadway	DETCH_NB	WSP DETACHEMENT NUM	Variable discontinued	2018
Roadway	DEVCD	LEVEL OF DEVLMPT	Variable discontinued	2018
Roadway	DEVCD_DT	LEVEL OF DEVELMT DATE	Variable discontinued	2018
Roadway	DIR_DT	COMPASS DIRECTION DATE	Variable discontinued	2018
Roadway	DISCN_DT	DISCONTY DATE	Variable discontinued	2018
Roadway	DISCONTY	DISCONTY IND	Variable discontinued	2018
Roadway	DISTR_DT	DISTRICT DATE	Variable discontinued	2018
Roadway	DISTRICT	DISTRICT NUMBER	Variable name changed to 'DISTRICT_NUMBER Variable type change from coded to numeric	2020 2020
Roadway	DOMAIN	DOMAIN TYPE	Variable discontinued	2018
Roadway	DOMN_DT	DOMAIN DATE	Variable discontinued	2018
Roadway	ENDMP	CALCULATED ENDING MILEPOST	Variable name changed to 'TO_MEASURE'	2020
Roadway	EW_DTE	EAST/WEST INDICATOR DATE	Variable discontinued	2018
Roadway	EW_IND	EAST WEST IND	Variable discontinued	2018
Roadway	FED_AID	FED AID CLASS	Variable discontinued	2018
Roadway	FED_CD	FED AID TYPE	Variable discontinued	2018
Roadway	FEDAD_DT	FED-AID DATE	Variable discontinued	2018
Roadway	FUNC_CLS	FEDERAL FUNC CLASS	Variable name changed to 'FUNCTIONAL_CLASS' Variable type change from coded to text	2020 2020
Roadway	FUNC_DT	FUNCTIONAL CLASS DATE	Variable discontinued	2018
Roadway	HPMS	HPMS SECTION NUMBER	Variable discontinued	2018
Roadway	HPMS_DTE	HPMS DATE	Variable discontinued	2018

File	Variable Name	Variable	Description of Change	Year of Change
Roadway	LANEWID	CALCULATED LANE WIDTH	Variable discontinued	2018
Roadway	LSHL_DT2	LEFT SHOULDER DATE RD2	Variable discontinued	2018
Roadway	LSHL_DTE	LEFT SHOULDER DATE RD1	Variable discontinued	2018
Roadway	LSHL_TY2	LEFT SHOULDER TYPE RD2	Variable discontinued	2018
Roadway	LSHL_TYP	LEFT SHOULDER TYPE RD1	Variable name changed to 'LEFT_SHOULDER_SURFACE' Variable type change from coded to text	2020 2020
Roadway	LSHL_WD2	LEFT SHOULDER WIDTH RD2	Variable discontinued	2018
Roadway	LSHLDWID	LEFT SHOULDER WIDTH RD1	Variable name changed to 'LEFT_SHOULDER_SURFACE' Variable type change from coded to numeric	2020 2020
Roadway	LST_UPDT	CONTROL SECTION LAST UPDATE	Variable discontinued	2018
Roadway	MDXN_DTE	MEDIAN CROSSING DATE	Variable discontinued	2018
Roadway	MED_TYPE	MEDIAN TYPE	Variable name changed to 'MEDIAN_SURFACE' Variable type change from coded to text	2020 2020
Roadway	MEDBARTY	MEDIAN BARRIER TYPE	Variable name changed to 'MEDIAN_BARRIER' Variable type change from coded to text	2020 2020
Roadway	MEDN_DTE	MEDIAN DATE	Variable discontinued	2018
Roadway	MEDWID	MEDIAN WIDTH	Variable name changed to 'MEDIAN_WIDTH' Variable type change from coded to numeric	2020 2020
Roadway	MEDXNGTY	MEDIAN CROSSING TYPE	Variable discontinued	2019
Roadway	MNT_AREA	MAINTENANCE AREA NBR	Variable name changed to 'MAINTENANCE_AREA' Variable type change from numeric to text	2020 2020

File	Variable Name	Variable	Description of Change	Year of Change
Roadway	MNT_DTE	MAINTENANCE DATE	Variable discontinued	2018
Roadway	MNTSC_DT	MAINTENANCE SECTION DATE	Variable discontinued	2018
Roadway	MNTSEC	MAINTENANCE SECT NBR	Variable discontinued	2018
Roadway	MT_DTE	LAST MAINT DATE	Variable discontinued	2018
Roadway	MT_PASID	MTN PASS ID	Variable discontinued	2018
Roadway	MTPAS_DT	MOUNTAIN PASS DATE	Variable discontinued	2018
Roadway	MVMT	MILLION VEH MILES TRAVELLED	Variable discontinued	2018
Roadway	NHS_DT	NHS DATE	Variable discontinued	2018
Roadway	NHS_IND	NHS INDICATOR	Variable name changed to 'NHS_INDICATOR' Variable type change from coded to text	2020 2020
Roadway	NO_LANE1	NUMBER LANES INC	Variable name changed to 'LANE_COUNT'	2020
Roadway	NO_LANE2	NUMBER LANES DEC		2020
Roadway	NO_LANES	TOTAL NUMBER OF LANES	Variable name changed to 'FULL_LANE_COUNT' Variable type change from coded to numeric	2020 2020
Roadway	NO_LNDT1	NUMBER OF LANES DATE RD1	Variable discontinued	2018
Roadway	NO_LNDT2	NUMBER OF LANES DATE RD2	Variable discontinued	2018
Roadway	PGRP_DT	POPULATION GROUP DATE	Variable discontinued	2018
Roadway	POP_GRP	CITY POPULATION	Variable discontinued	2018
Roadway	PRK_ZNE	PARKING ZONE TYPE	Variable discontinued	2018
Roadway	PRKZN_DT	PARKING ZONE TYPE DATE	Variable discontinued	2018
Roadway	RD_ABIND	RDWY AHEAD/BACK IND	Variable discontinued	2018
Roadway	RD_EQDTE	EQUATION DATE	Variable discontinued	2018
Roadway	RD_EQUAT	EQUATION	Variable discontinued	2018
Roadway	RD_LIGHT	INTERSECTION ILLUM-ND	Variable discontinued	2018
Roadway	RD_OPEN	ROAD OPEN DATE	Variable discontinued	2018
Roadway	RD_OWNER	ROADWAY OWNER CODE	Variable discontinued	2018
Roadway	RD_QUAL	RELATED RD QUAL	Variable discontinued	2018
Roadway	RD_RARM	REVERSE ARM	Variable discontinued	2018
Roadway	RD_SRMP	RDWY SRMP	Variable discontinued	2018
Roadway	RD_TYPE	RELATED RD TYPE	Variable discontinued	2018
Roadway	RDAC_MGC	ACCESS MANAGEMENTCLASS	Variable discontinued	2018

File	Variable Name	Variable	Description of Change	Year of Change
Roadway	RDAC_MGS	ACCESS MANAGEMENT SUBCLASS	Variable discontinued	2018
Roadway	RDWY_WD1	ROADWAY WIDTH RD 1	Variable discontinued	2018
Roadway	RDWY_WD2	ROADWAY WIDTH RD 2	Variable discontinued	2018
Roadway	RDWY_WID	ROADWAY WIDTH	Variable name changed to 'FULL_ROAD_WIDTH' Variable type change from coded to numeric	2020 2020
Roadway	RDWYWDD1	ROADWAY WIDTH DATE RD 1	Variable name changed to 'ROAD_WIDTH'	2020
Roadway	RDWYWDD2	ROADWAY WIDTH DATE RD 2		
Roadway	REC_TYPE	RECORD TYPE	Variable discontinued	2018
Roadway	ROAD_INV	ROUTE TYPE ID	Variable name changed to 'ROUTE_ID	2020
Roadway	RODWYCLS	ROADWAY CLASSIFICATION	Variable discontinued	2018
Roadway	RSHL_DT2	RIGHT SHOULDER DATE RD2	Variable discontinued	2018
Roadway	RSHL_DTE	RIGHT SHOULDER DATE RD1	Variable discontinued	2018
Roadway	RSHL_TY2	RIGHT SHOULDER TYPE RD2	Variable discontinued	2018
Roadway	RSHL_TYP	RIGHT SHOULDER TYPE RD1	Variable name changed to 'RIGHT_SHOULDER_SURFACE' Variable type change from coded to text	2020 2020
Roadway	RSHL_WD2	RIGHT SHOULDER WIDTH RD2	Variable discontinued	2018
Roadway	RSHLDWID	RIGHT SHOULDER WIDTH RD1	Variable name changed to 'RIGHT_SHOULDER_WIDTH Variable type change from coded to numeric	2020 2020
Roadway	RTE_NBR	ROUTE NUMBER	Variable discontinued	2018
Roadway	RURURB	RURAL URBAN	Variable name changed to 'URBAN_RURAL'	2020
Roadway	SEG_LNG	RD CALCULATED SECT LNGTH	Variable discontinued	2018
Roadway	SPD_LIMT	POSTED SPEED LIMIT	Variable name changed to 'SPEED_LIMIT' Variable type change from coded to numeric	2020 2020

File	Variable Name	Variable	Description of Change	Year of Change
Roadway	ST_FUNC	STATE FUNC CLASS	Variable discontinued	2018
Roadway	SURF_TY2	SURFACE TYPE RD2	Variable discontinued	2018
Roadway	SURF_TYP	SURFACE TYPE RD1	Variable name changed to 'LANE_SURFACE_TYPE' Variable type change from coded to text	2020 2020
Roadway	SWS_DT	STATEWIDE SYSTEM DATE	Variable discontinued	2018
Roadway	SWS_IND	STATEWIDE SYSTEM IND	Variable discontinued	2018
Roadway	TERRAIN	TERRAIN TYPE	Variable discontinued	2018
Roadway	TERRN_DT	TERRAIN DATE	Variable discontinued	2018
Roadway	TRF_CNTL	INTERSECTION CONTROL TYPE	Variable discontinued	2018
Roadway	TRFCN_DT	TRAFFIC CONTROL DATE	Variable discontinued	2018
Roadway	TRKPCTS	TRUCK PERCENTAGE	Variable discontinued	2018
Roadway	TRLL_DT1	LEFT TURN LANE DATE RD1	Variable discontinued	2018
Roadway	TRLL_DT2	LEFT TURN LANE DATE RD2	Variable discontinued	2018
Roadway	TRLL_LG1	LEFT TURN LANE LENGTH RD1	Variable discontinued	2018
Roadway	TRLL_LG2	LEFT TURN LANE LENGTH RD2	Variable discontinued	2018
Roadway	TRLL_WD1	LEFT TURN LANE WIDTH RD1	Variable discontinued	2018
Roadway	TRLL_WD2	LEFT TURN LANE WIDTH RD2	Variable discontinued	2018
Roadway	TRLR_DT1	RIGHT TURN LANE DATE RD1	Variable discontinued	2018
Roadway	TRLR_DT2	RIGHT TURN LANE DATE RD2	Variable discontinued	2018
Roadway	TRLR_LG1	RIGHT TURN LANE LENGTH RD1	Variable discontinued	2018
Roadway	TRLR_LG2	RIGHT TURN LANE LENGTH RD2	Variable discontinued	2018
Roadway	TRLR_WD1	RIGHT TURN LANE WIDTH RD1	Variable discontinued	2018
Roadway	TRLR_WD2	RIGHT TURN LANE WIDTH RD2	Variable discontinued	2018
Roadway	UBREG_DT	URBAN NUMBER DATE	Variable discontinued	2018
Roadway	URB_DT	URBAN REGION DATE	Variable discontinued	2018
Roadway	URB_NBR	URBAN AREA NUMBER	Variable discontinued	2018
Roadway	URB_REG	URBAN REGION NUMBER	Variable discontinued	2018
Roadway	WSP_DIST	WSP DISTRICT NUMBER	Variable discontinued	2018
Roadway	WSP_DT	WSP DATE	Variable discontinued	2018

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File	Variable Name	Variable	Description of Change	Year of Change
Roadway	ZONE_DT	ZONE DATE	Variable discontinued	2018
Horizontal Curve	BEGMP	HORIZ CURVE BEGIN MLPOST	Variable discontinued Variable added and name changed to 'FROM_MEASURE'	2018 2020
Horizontal Curve	CURV_ANG	HORIZ CURVE CEN ANGLE	Variable discontinued Variable added and name changed to 'CURVE_CENTRAL_ANGLE'	2018 2020
Horizontal Curve	CURV_DT	HORIZ CURVE DATE	Variable discontinued	2019
Horizontal Curve	CURV_INV	STATE RTE TYPE ID	Variable discontinued Variable added and name changed to 'ROUTE_ID'	2018 2020
Horizontal Curve	CURV_LGT	HORIZ CURVE LGT (FT)	Variable discontinued Variable added and name changed to 'CURVE_LENGTH'	2018 2020
Horizontal Curve	CURV_MAX	HORIZ CURVE MAX SUPER	Variable discontinued Variable added and name changed to 'SUPER_ELEVATION'	2018 2020
Horizontal Curve	CURV_NUM	HORIZ CURVE CONTRACT NUM	Variable discontinued	2018
Horizontal Curve	CURV_RAD	HORIZ CURVE RAD	Variable discontinued Variable added and name changed to 'CURVE_RADIUS'	2018 2020
Horizontal Curve	DEG_CURV	DEGREE OF CURVATURE	Variable discontinued	2018
Horizontal Curve	DIR_CURV	HORIZ CURVE DIRN	Variable discontinued Variable added and name changed to 'CURVE_DIRECTION'	2018 2020
Horizontal Curve	ENDMP	HORIZ CURVE END MLPOST	Variable discontinued Variable added and name changed to 'TO_MEASURE'	2018 2020
Horizontal Curve	LEGAL_SP	LEGAL SPEED LIMIT	Variable discontinued	2018

File	Variable Name	Variable	Description of Change	Year of Change
Horizontal Curve	OVERLAP	CURVE OVERLAP IND	Variable discontinued	2018
Horizontal Curve	RTE_NBR	ROUTE NUMBER	Variable discontinued Variable added and name changed to 'STATE_ROUTE'	2018 2020
Horizontal Curve	SEG_LNG	HORIZ CURVE LGT (MI)	Variable discontinued	2018
Grade	BEGMP	GRADE BEGIN MILEPOST	Variable discontinued Variable added and name changed to 'FROM_MEASURE'	2018 2020
Grade	DIR_GRAD	DIRECTION OF GRADE	Variable discontinued	2018
Grade	ENDMP	GRADE END MILEPOST	Variable discontinued Variable added and name changed to 'TO_MEASURE'	2018 2020
Grade	GRAD_DT	VERT ALIGN DATE OF CHNG	Variable discontinued	2018
Grade	GRAD_INV	STATE RTE TYPE ID	Variable discontinued Variable added and name changed to 'ROUTE_ID'	2018 2020
Grade	GRAD_NUM	VERT ALIGN CONTRACT NUM	Variable discontinued	2018
Grade	GRAD_TYP	VERT CURVE TYPE	Variable discontinued	2018
Grade	LEGAL_SP	LEGAL SPEED LIMIT	Variable discontinued	2018
Grade	PCT_GRAD	PERCENT GRADE	Variable discontinued Variable added and broken into two new variables 'F__GRADE_AHEAD' and 'F__GRADE_BACK'	2018 2020
Grade	RTE_NBR	ROUTE NUMBER	Variable discontinued Variable added and name changed to 'STATE_ROUTE'	2018 2020
Grade	SEG_LNG	GRADE LENGTH (MI)	Variable discontinued	2018
Grade	VCUR_LGT	VERTICAL CURVE LENGTH	Variable discontinued Variable added and name changed to 'CURVE_LENGTH'	2018 2020
Ramp	AADT	AVER ANNUAL DAILY TRAFFIC	Variable discontinued	2018
Ramp	BEGMP	BEGMP	Variable discontinued	2018

File	Variable Name	Variable	Description of Change	Year of Change
Ramp	CITY	CITY NUMBER	Variable discontinued	2018
Ramp	CITY_DT	CITY DATE	Variable discontinued	2018
Ramp	CNTL_SEC	CONTROL SECTION	Variable discontinued	2018
Ramp	CNTY_DT	COUNTY DATE	Variable discontinued	2018
Ramp	COUNTY	COUNTY NUMBER	Variable discontinued	2018
Ramp	CTY_ZONE	CITY ZONE TYPE	Variable discontinued	2018
Ramp	DEVCD	LEVEL OF DEVLMPT	Variable discontinued	2018
Ramp	DEVCD_DT	LEVEL OF DEVELMT DATE	Variable discontinued	2018
Ramp	DISTR_DT	DISTRICT DATE	Variable discontinued	2018
Ramp	DISTRICT	DISTRICT NUMBER	Variable discontinued	2018
Ramp	ENDMP	CALCULATED ENDING MILEPOST	Variable discontinued	2018
Ramp	EW_DTE	EAST/WEST INDICATOR DATE	Variable discontinued	2018
Ramp	EW_IND	EAST WEST IND	Variable discontinued	2018
Ramp	FED_AID	FED AID CLASS	Variable discontinued	2018
Ramp	FED_CD	FED AID TYPE	Variable discontinued	2018
Ramp	FEDAD_DT	FED-AID DATE	Variable discontinued	2018
Ramp	FUNC_CLS	FEDERAL FUNC CLASS	Variable discontinued	2018
Ramp	FUNC_DT	FUNCTIONAL CLASS DATE	Variable discontinued	2018
Ramp	LANEWID	CALCULATED LANE WIDTH	Variable discontinued	2018
Ramp	LSHL_DTE	LEFT SHOULDER DATE RD1	Variable discontinued	2018
Ramp	LSHL_TYP	LEFT SHOULDER TYPE RD1	Variable discontinued	2018
Ramp	LSHLDWID	LEFT SHOULDER WIDTH	Variable discontinued	2018
Ramp	LST_UPDT	CONTROL SECTION LAST UPDATE	Variable discontinued	2018
Ramp	MNT_AREA	MAINTENANCE AREA NBR	Variable discontinued	2018
Ramp	MNT_DATE	MAINTENANCE DATE	Variable discontinued	2018
Ramp	MNTSC_DT	MAINTENANCE SECTION DATE	Variable discontinued	2018
Ramp	MNTSEC	MAINTENANCE SECT NBR	Variable discontinued	2018
Ramp	MT_DTE	LAST MAINT DATE	Variable discontinued	2018
Ramp	NO_LANE1	NUMBER LANES INC	Variable discontinued	2018
Ramp	NO_LANE2	NUMBER LANES DEC	Variable discontinued	2018
Ramp	NO_LANES	TOTAL NUMBER OF LANES	Variable discontinued	2018
Ramp	NO_LNDT1	NUMBER OF LANES DATE RD1	Variable discontinued	2018
Ramp	NO_LNDT2	NUMBER OF LANES DATE RD2	Variable discontinued	2018

File	Variable Name	Variable	Description of Change	Year of Change
Ramp	PGRP_DT	POPULATION GROUP DATE	Variable discontinued	2018
Ramp	POP_GRP	CITY POPULATION	Variable discontinued	2018
Ramp	RD_EQUAT	EQUATION	Variable discontinued	2018
Ramp	RD_LIGHT	INTERSECTION ILLUM-ND	Variable discontinued	2018
Ramp	RD_OPEN	ROAD OPEN DATE	Variable discontinued	2018
Ramp	RD_OWNER	ROADWAY OWNER CODE	Variable discontinued	2018
Ramp	RD_QUAL	RELATED RD QUAL	Variable discontinued	2018
Ramp	RD_RARM	REVERSE ARM	Variable discontinued	2018
Ramp	RD_SRMP	RDWY SRMP	Variable discontinued	2018
Ramp	RD_TYPE	RELATED RD TYPE	Variable discontinued	2018
Ramp	RDWY_WD1	ROADWAY WIDTH RD 1	Variable discontinued	2018
Ramp	RDWY_WID	TOTAL ROADWAY WIDTH	Variable discontinued	2018
Ramp	RDWYWDD1	ROADWAY WIDTH DATE RD 1	Variable discontinued	2018
Ramp	REC_TYPE	RECORD TYPE	Variable discontinued	2018
Ramp	ROAD_INV	ROUTE TYPE ID	Variable discontinued	2018
Ramp	RSHL_DTE	RIGHT SHOULDER DATE RD1	Variable discontinued	2018
Ramp	RSHL_TYP	RIGHT SHOULDER TYPE RD1	Variable discontinued	2018
Ramp	RSHLDWID	RIGHT SHOULDER WIDTH	Variable discontinued	2018
Ramp	RTE_NBR	ROUTE NUMBER	Variable discontinued	2018
Ramp	RURURB	RURAL URBAN	Variable discontinued	2018
Ramp	SEG_LNG	RD CALCULATED SECT LNGTH	Variable discontinued	2018
Ramp	ST_FUNC	STATE FUNC CLASS	Variable discontinued	2018
Ramp	SURF_TYP	SURFACE TYPE	Variable discontinued	2018
Ramp	TRF_CNTL	INTERSECTION CONTROL TYPE	Variable discontinued	2018
Ramp	TRFCN_DT	TRAFFIC CONTROL DATE	Variable discontinued	2018
Ramp	TRKPCTS	TRUCK PERCENTAGE	Variable discontinued	2018
Ramp	UBREG_DT	URBAN NUMBER DATE	Variable discontinued	2018
Ramp	URB_DT	URBAN REGION DATE	Variable discontinued	2018
Ramp	URB_NBR	URBAN AREA NUMBER	Variable discontinued	2018
Ramp	URB_REG	URBAN REGION NUMBER	Variable discontinued	2018
Ramp	WSP_DIST	WSP DISTRICT NUMBER	Variable discontinued	2018
Ramp	WSP_DT	WSP DATE	Variable discontinued	2018
Special Use Lane	LENGTH	LENGTH OF SLN IN FEET	Variable discontinued	2018

File	Variable Name	Variable	Description of Change	Year of Change
Special Use Lane	SLN_ABID	SPECIAL USE LANES AHEAD BACK INDICATOR	Variable discontinued	2018
Special Use Lane	SLN_DATE	SPECIAL LANE DATE	Variable discontinued	2018
Special Use Lane	SLN_DIST	SLN DISTRICT NUMBER	Variable discontinued	2018
Special Use Lane	SLN_DSDT	SLN DISTRICT DATE	Variable discontinued	2018
Special Use Lane	SLN_INV	SLN ROAD INV-SR TYPE ID	Variable discontinued	2018
Special Use Lane	SLN_MLPT	SPEC USE LANES ARM	Variable discontinued	2018
Special Use Lane	SLN_MTDT	SPEC USE LANES MAINT DTE	Variable discontinued	2018
Special Use Lane	SLN_QUAL	RELATED ROAD QUAL	Variable discontinued	2018
Special Use Lane	SLN_RARM	SPEC USE LANES RV ARM	Variable discontinued	2018
Special Use Lane	SLN_RDTY	RELATED ROAD TYPE	Variable discontinued	2018
Special Use Lane	SLN_RTNO	ROUTE NUMBER	Variable discontinued	2018
Special Use Lane	SLN_SFTY	SPECIAL LANE SURFACE TYPE	Variable discontinued	2018
			Variable moved to Roadway file, now called 'SPECIAL_USE_LANE_SURFACE'	2020
			Variable type change from coded to text	2020
Special Use Lane	SLN_SIDE	SLN LEFT/RIGHT SIDE IND	Variable discontinued	2018
			Variable moved to Roadway file, now called 'SPECIAL_USE_LANE_ROAD_SIDE'	2020
Special Use Lane	SLN_SRMP	SPEC USE LANES SRMP	Variable discontinued	2018
Special Use Lane	SLN_TYPE	SPECIAL LANE TYPE	Variable discontinued	2018
			Variable moved to Roadway file, now called 'SPECIAL_USE_LANE_TYPE'	2020

File	Variable Name	Variable	Description of Change	Year of Change
Special Use Lane	SLN_WID	SPECIAL LANE WIDTH	Variable discontinued	2018
			Variable moved to Roadway file, now called 'SPECIAL_USE_LANE_TWIDTH'	2020
			Variable type change from coded to numeric	2020
Bridge	BRDG_DT	BRIDGE DATE	Variable discontinued	2018
Bridge	BRDG_LGT	BRIDGE LIGHTING	Variable discontinued	2018
Bridge	BRDG_NBR	BRIDGE NUMBER	Variable discontinued	2018
Bridge	BRDG_OWN	BRIDGE XROAD OWNER CD	Variable discontinued	2018
Bridge	BRDG_XRD	BRIDGE XROAD DESC	Variable discontinued	2018
Bridge	CURV_ANG	HORIZ CURVE CEN ANGLE	Variable discontinued	2018
Bridge	CURV_DT	HORIZ CURVE DATE	Variable discontinued	2018
Bridge	CURV_LGT	HORIZ CURVE LENGTH (FT)	Variable discontinued	2018
Bridge	CURV_MAX	HORIZ CURVE MAX SUPER	Variable discontinued	2018
Bridge	CURV_NUM	HORIZ CURVE CONTRACT NUM	Variable discontinued	2018
Bridge	CURV_RAD	HORIZ CURVE RADIUS	Variable discontinued	2018
Bridge	CURV_TYP	HORIZ CURVE TYPE	Variable discontinued	2018
Bridge	DIR_CURV	HORIZ CURVE DIRN	Variable discontinued	2018
Bridge	DIST_DT	DISTRICT DATE	Variable discontinued	2018
Bridge	DISTNUM	DISTRICT NUMBER	Variable discontinued	2018
Bridge	GRAD_AHD	VERT ALIGN GRADE AHEAD	Variable discontinued	2018
Bridge	GRAD_BAK	VERT ALIGN GRADE BACK	Variable discontinued	2018
Bridge	GRAD_DT	VERT ALIGN DATE	Variable discontinued	2018
Bridge	GRAD_LGT	VERT CURVE LENGTH (FT)	Variable discontinued	2018
Bridge	GRAD_NUM	VERT ALIGN CONTRACT NUM	Variable discontinued	2018
Bridge	GRAD_TYP	VERT CURVE TYPE	Variable discontinued	2018
Bridge	IN_DIR	DIRECTION OF INVENTORY	Variable discontinued	2018
Bridge	IN_INV	STATE RTE TYPE ID	Variable discontinued	2018
Bridge	IN_MLPT	ACCUM ROUTE MILEPOST	Variable discontinued	2018
Bridge	IN_RTNBR	ROUTE NUMBER	Variable discontinued	2018
Bridge	IN_TYPE	RELATED ROAD TYPE	Variable discontinued	2018
Bridge	REC_TYPE	RECORD TYPE	Variable discontinued	2018
Bridge	SPD_DTE	SPEED DATE	Variable discontinued	2018

File	Variable Name	Variable	Description of Change	Year of Change
Bridge	SPD_LIMT	LEGAL SPEED LIMIT	Variable discontinued	2018
Bridge	STR_ALIS	STREET NAME ALIAS	Variable discontinued	2018
Bridge	STR_DTE	STRUCTURE DATE	Variable discontinued	2018
Bridge	TUN_NAME	TUNNEL NAME	Variable discontinued	2018
Bridge	TUN_NUM	TUNNEL NUMBER	Variable discontinued	2018
Bridge	TUNL_DT	TUNNEL DATE	Variable discontinued	2018
Bridge	UNX_DT	UNXING DATE	Variable discontinued	2018
Bridge	UNX_LGT	UNXING LIGHTING	Variable discontinued	2018
Bridge	UNX_OVHD	OVHD BRIDGE NUM	Variable discontinued	2018
Bridge	UNX_XRD	UNXROAD DESC	Variable discontinued	2018
Bridge	UNX_XRDO	UNXROAD OWNER CD	Variable discontinued	2018
Left/Right Crossing	DISCNTY	DISCONTINUITY INDICATOR	Variable discontinued	2018
Left/Right Crossing	FACT_DES	FACILITY DESC	Variable discontinued	2018
Left/Right Crossing	FACT_DT	FACILITY DATE	Variable discontinued	2018
Left/Right Crossing	FACT_OWN	FACILITY OWNER	Variable discontinued	2018
Left/Right Crossing	FACT_TYP	FACILITY TYPE	Variable discontinued	2018
Left/Right Crossing	FLY_DT	FLYER STOP DATE	Variable discontinued	2018
Left/Right Crossing	FLY_NUM	FLYER STOP NUMBER	Variable discontinued	2018
Left/Right Crossing	FLY_OWN	FLYER STOP OWNER	Variable discontinued	2018
Left/Right Crossing	LOT_DT	PARK RIDE LOT DATE	Variable discontinued	2018
Left/Right Crossing	LOT_NUM	PARK RIDE LOT NUMBER	Variable discontinued	2018
Left/Right Crossing	LOT_OWN	PARK RIDE LOT OWNER CD	Variable discontinued	2018
Left/Right Crossing	LR_ABIND	LR AHEAD/BACK IND	Variable discontinued	2018
Left/Right Crossing	LR_DESC	MISC FEATURE DESC	Variable discontinued	2018
Left/Right Crossing	LR_DISTR	DISTRICT NUMBER	Variable discontinued	2018
Left/Right Crossing	LR_INV	LEFT RIGHT ROAD INVENTORED	Variable discontinued	2018
Left/Right Crossing	LR_MLPT	LR ACCUM ROUTE MILEPOST	Variable discontinued	2018
Left/Right Crossing	LR_MTDTE	LEFT RIGHT MAINTENANCE DATE	Variable discontinued	2018
Left/Right Crossing	LR_QUAL	RELATED ROAD QUAL	Variable discontinued	2018
Left/Right Crossing	LR_RARM	LEFT RIGHT REVERSE ARM	Variable discontinued	2018

File	Variable Name	Variable	Description of Change	Year of Change
Left/Right Crossing	LR_RDTY	RELATED ROAD TYPE	Variable discontinued	2018
Left/Right Crossing	LR_RTNBR	ROUTE NUMBER	Variable discontinued	2018
Left/Right Crossing	LR_SEC	CONTROL SECTION	Variable discontinued	2018
Left/Right Crossing	LR_SIDE	LEFT/RIGHT SIDE IND	Variable discontinued	2018
Left/Right Crossing	LR_SRMP	LEFT RIGHT SRMP	Variable discontinued	2018
Left/Right Crossing	LRDIS_DT	DISTRICT DATE	Variable discontinued	2018
Left/Right Crossing	LRMIS_DT	MISC FEATURE DATE	Variable discontinued	2018
Left/Right Crossing	LST_UPDT	LAST UPDATE DATE	Variable discontinued	2018
Left/Right Crossing	MARK_DT	MILEPOST MARKER DATE	Variable discontinued	2018
Left/Right Crossing	MARK_IND	MILEPOST MARKER AB IND	Variable discontinued	2018
Left/Right Crossing	MARK_NUM	MILEPOST MARKER NUMBER	Variable discontinued	2018
Left/Right Crossing	PKZNE_DT	PARKING ZONE DATE	Variable discontinued	2018
Left/Right Crossing	PKZNE_TY	PARKING ZONE TYPE	Variable discontinued	2018
Left/Right Crossing	REC_TYPE	RECORD TYPE	Variable discontinued	2018
Left/Right Crossing	REST_DT	REST AREA DATE	Variable discontinued	2018
Left/Right Crossing	REST_NAM	REST AREA NAME	Variable discontinued	2018
Left/Right Crossing	REST_NUM	REST AREA NUMER	Variable discontinued	2018
Left/Right Crossing	REST_TYP	REST AREA TYPE	Variable discontinued	2018
Left/Right Crossing	WGHT_DT	WEIGHT STATION DATE	Variable discontinued	2018
Left/Right Crossing	WGHT_NUM	WEIGHT STATION NUMBER	Variable discontinued	2018
Left/Right Crossing	WGHT_TYP	WEIGHT STATION TYPE	Variable discontinued	2018
Left/Right Crossing	XRD_DESC	CROSSROAD ID DESC	Variable discontinued	2018
Left/Right Crossing	XRD_DT	CROSSROAD DATE	Variable discontinued	2018
Left/Right Crossing	XRD_OWN	CROSSROAD OWNER CD	Variable discontinued	2018

File	Variable Name	Variable	Description of Change	Year of Change
Left/Right Crossing	XRD_TYP	CROSSROAD CONFIG TYPE	Variable discontinued	2018
Railroad	DIR_INV	RDWY DIR OF INVENTORY	Variable discontinued	2018
Railroad	REC_TYPE	RECORD TYPE	Variable discontinued	2018
Railroad	RR_ABIND	RR CROSSING AB IND	Variable discontinued	2018
Railroad	RR_DISTR	DISTRICT NUMBER	Variable discontinued	2018
Railroad	RR_INV	RR CROSSING ROAD INV	Variable discontinued	2018
Railroad	RR_MLPT	RR XING ACCUM ROUTE MLPST	Variable discontinued	2018
Railroad	RR_MTDTE	RR CROSSING MAINT DTE	Variable discontinued	2018
Railroad	RR_QUAL	RELATED ROAD QUAL	Variable discontinued	2018
Railroad	RR_RARM	RR CROSSING REVERSE ARM	Variable discontinued	2018
Railroad	RR_RDTY	RELATED ROAD TYPE	Variable discontinued	2018
Railroad	RR_RTNBR	ROUTE NUMBER	Variable discontinued	2018
Railroad	RR_SRMP	RR CROSSING SRMP	Variable discontinued	2018
Railroad	RRDIS_DT	DISTRICT DATE	Variable discontinued	2018
Railroad	RRX_DTE	RR XING DATE	Variable discontinued	2018
Railroad	RRX_NUM	RR XING AAR NUM	Variable discontinued	2018
Railroad	RRX_TYPE	RR XING TYPE	Variable discontinued	2018