

# HIGHWAY SAFETY INFORMATION SYSTEM GUIDEBOOK FOR THE

## OHIO STATE DATA FILES

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# Ohio HSIS Guidebook

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## Introduction to the Ohio HSIS Guidebook

The Highway Safety Information System (HSIS), established in 1987, is a foundational highway research data system. The State of Ohio has participated in the HSIS program since 1997, 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.

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## What Has Changed

This guidebook is intended to support the use of Ohio HSIS data for the years 2018 and beyond. Data and documentation prior to 2018 (1997-2017) are available upon request to the [HSIS Virtual Laboratory](#). Prior to 2018, the Ohio datasets included variables for the following files:

- Roadway inventory.
- Intersection inventory.
- Horizontal curve inventory.
- Vertical grade inventory.
- Accident characteristics.
- Vehicles involved in crashes.
- Vehicle occupants involved in crashes.

The revised Ohio database incorporated into HSIS contains 10 different files:

- Roadway inventory (including traffic information).
- Roadside and median barrier inventory.
- Lighting inventory.
- Intersection inventory.
- Intersection approach inventory.
- Bicycle route inventory.
- Horizontal curve inventory.
- Crash characteristics.
- Units involved in crashes.
- Persons involved in the crash.

[Appendix A](#) summarizes revisions the [HSIS Laboratory](#) made to the variables. In addition to the expanded list of files, there are several key differences between the Ohio 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 (1997-2017) and the current file naming convention (2018-2020).

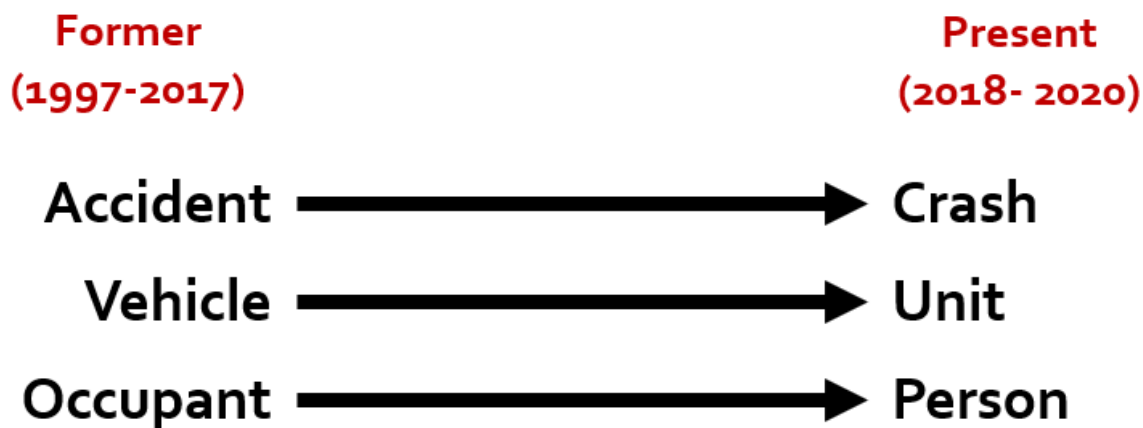


Figure 1. Changes to Ohio HSIS Data File Naming Convention.

## 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 Ohio'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 10 files. The following sections provide a brief summary of each file.

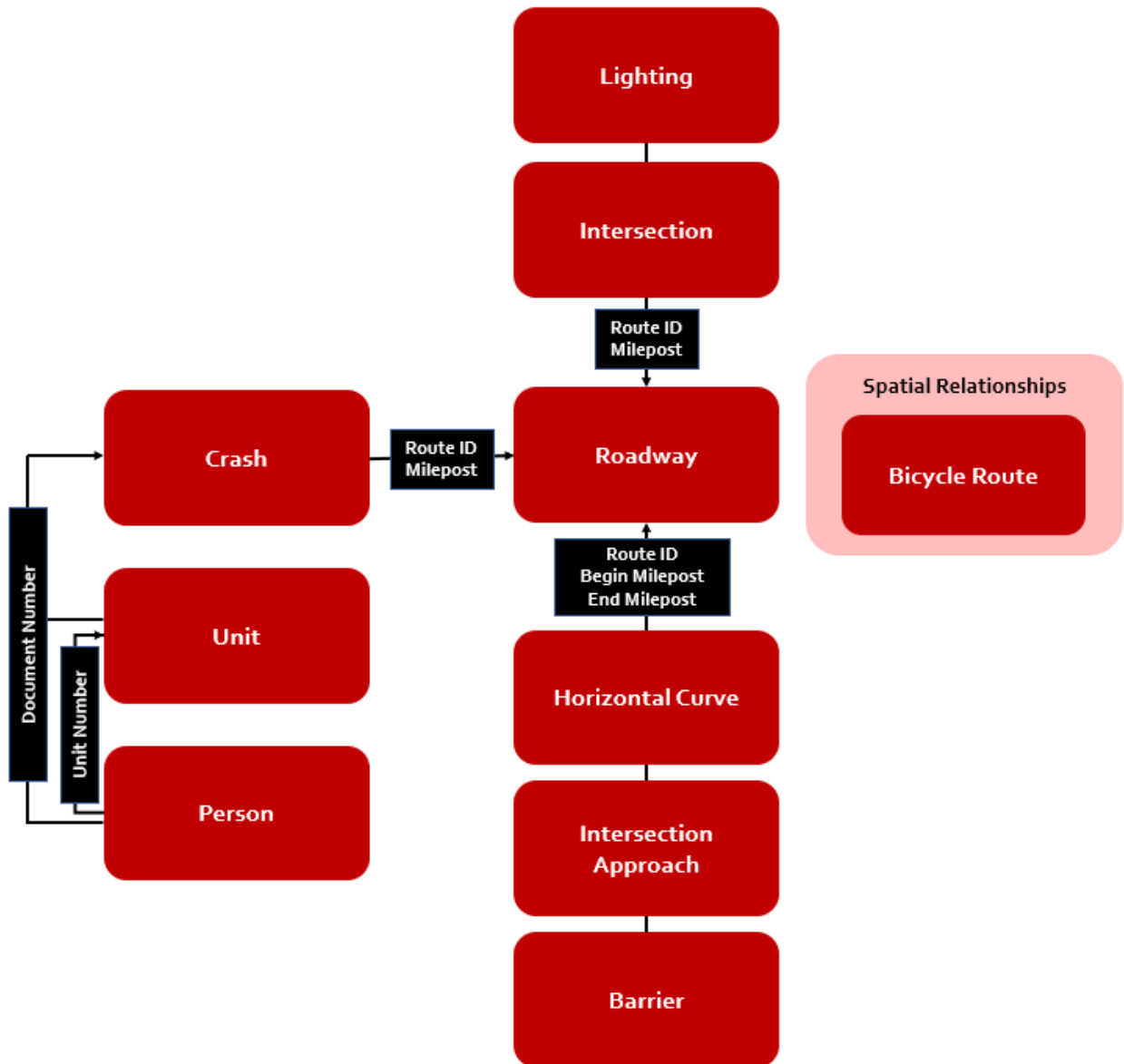


Figure 2. Ohio HSIS Data Files and Linking Variables.

## Roadway File (2018 – 2020)

This file contains information about the physical layout of Ohio’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).

*NLFID*, short for Network Linear Feature Identifier, is the key linking variable between the base roadway inventory and the associated datasets, (e.g., Crash, Horizontal Curve, Intersection, etc.). *NLFID* is also referred to as *Route ID* in the HSIS dataset. This variable is a 14-digit numerical code that documents the jurisdiction (e.g., road owner), county in which the route is located, route type (e.g., interstate route – IR), spur number (if applicable), main route number, and route direction code. Figure 3 illustrates the *Route ID* format for Interstate 271 in Cuyahoga County.

	Jurisdiction				County				Route Type		Spur Number			Route Number			Route Direction	
<b>NLFID</b>	S	C	U	Y	I	R	o	o	2	7	1	*	*	C				
<b>Position</b>	1	2	3	4	5	6	7	8	9	10	11	12	13	14				

Figure 3. Example of Ohio’s NLFID/Route ID Naming Convention.

## Horizontal Curve File (2019 – 2020)

This file provides the physical location and characteristics for horizontal curves on State routes (i.e., jurisdiction is “S”). It does not include any local routes.

## Intersection (2020)

This file provides the physical location of two or more public roads in Ohio. It contains the spatial and tabular location of each intersection.

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## Intersection Approach (2020)

This file provides the physical location of all public road approaches to each intersection contained in the Intersection file. It is linked to the Intersection file by the *INTERSECTION\_EVENT\_ID* which is derived from an original 'Cross Point' layer.

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## Barrier (2019 – 2020)

This file represents both shoulder and median barrier treatments on Ohio roads. This includes barrier type, material, length, end treatments, and other barrier characteristics.

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## Lighting (2020)

This file provides the location of light poles associated with State-maintained highways, primarily access-controlled roads and interchange locations.

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## Bicycle Route (2019 – 2020)

This file provides statewide bicycle routes in Ohio, both on-road and off-road facilities. This file provides both ownership and route type in addition to other characteristics.

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## 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 Crash file can be linked to Unit and Person file using the crash report number (Document Number). The Crash File can be linked to the Roadway Inventory File using the *Route ID* and *Milepost* variables. The crashes have all been located on the inventory side using the inventory *Route ID* and the corresponding inventory milepost. These two variables are provided in the original data from the Ohio Department of Transportation. The inventory direction (i.e., north and east direction) is the relevant *Route ID*, and the inventory milepost is associated *Milepost* variable in the data. The prescribed accident-reporting threshold is currently personal injury or \$400 property damage.

## Unit File (2018 – 2020)

This file provides information on the vehicles or units involved in crashes on Ohio 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 *Document 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 Ohio uses the KABCO system, which provides police estimates of injury level.

## Using the Files Together

Figure 1 highlighted the linkages between each of the 10 Ohio 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 *Document Number* and *Unit Number*. *Document 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, *Access Control* 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.

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## Requesting HSIS Data

Researchers can reference this guidebook to determine variables of interest for their particular research question. This section provides a tutorial 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 arterial crashes in Ohio. 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, as well as roadside barrier and curve information that may influence crash outcomes. 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 socioeconomic data to explore highway safety for communities 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 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.

Access Control

Median Type.

Median Width.

Speed Limit.

Number of Lanes – Total.

### Barrier Variables

Route ID (*linkable to the Route ID variable in the Roadway file*).

Begin Milepost.

End Milepost.

Barrier Type.

Barrier Length.

### Horizontal Curve Variables

Route ID (*linkable to the Route ID variable in the Roadway file*).

Begin Milepost.  
End Milepost.  
Curve Radius.  
Curve Length.  
Degree of Curvature.

### 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*).  
Document Number (*linkable to the Document Number variable in the Unit file*).  
Crash Date.  
Crash Severity.  
First Harmful Event.  
Light Condition.  
Number of Units.  
Road Condition.

### Unit Variables

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

### Person Variables

Document Number (*linkable to the Document 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 Bicycle Route, Intersection, or Intersection Approach files. 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 *Document 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 10 files. Attributes and fields have evolved since the introduction of Ohio into the HSIS data system, and users should carefully consider these changes during the data collection research process.

**Table 1. Summary of Ohio HSIS Variables by Data File.**

VARIABLE NAME	VARIABLE DESCRIPTION	DATA FILE
ACCESS_CONTROL	ACCESS CONTROL	Roadway
BEGIN_MILEPOST	BEGIN MILE POST	Roadway
COUNTY_CD	COUNTY CODE	Roadway
DISTRICT_NBR	DISTRICT	Roadway
DIVIDED_HWY_IND	DIVIDED HIGHWAY INDICATOR	Roadway
END_MILEPOST	END MILEPOST	Roadway
FACILITY_TYPE_CD	FACILITY TYPE	Roadway
FUNCTION_CLASS	FUNCTIONAL CLASS	Roadway
JURISDICTION	JURISDICTION	Roadway
SURFACE_TYPE_LEFT_CD	LEFT SIDE STANDARD SURFACE TYPE	Roadway
BASE_TYPE_LEFT_CD	LEFT SIDE SURFACE BASE TYPE	Roadway
SURFACE_WIDTH_LEFT	LEFT SIDE SURFACE WIDTH IN FEET	Roadway
ADT_PSNR_CAR_NBR	LIGHT VEHICLE ADT	Roadway
MEDIAN_TYPE_CD	MEDIAN TYPE	Roadway
MEDIAN_WIDTH_NBR	MEDIAN WIDTH	Roadway
MILEAGE_CLASS	MILE CLASS	Roadway
MUNI_CODE_LEFT	MUNICIPALITY CODE (LEFT)	Roadway
MUNI_CODE_RIGHT	MUNICIPALITY CODE (RIGHT)	Roadway
NHS_CD	NATIONAL HIGHWAY SYSTEM CODE	Roadway
LANES_NBR	NUMBER OF LANES	Roadway
BASE_TYPE_RIGHT_CD	RIGHT SIDE SURFACE BASE CLASS TYPE	Roadway
SURFACE_TYPE_RIGHT_CD	RIGHT SIDE SURFACE CLASS TYPE	Roadway
SURFACE_WIDTH_RIGHT	RIGHT SIDE SURFACE WIDTH IN FEET	Roadway
RODWYCLS	ROADWAY CLASS	Roadway
ROADWAY_WIDTH	ROADWAY WIDTH	Roadway
NLFID	ROUTE ID	Roadway
ROUTE_NBR	ROUTE NUMBER	Roadway
ROUTE_TYPE	ROUTE TYPE	Roadway
SCENIC_BYWAY_CD	SCENIC BYWAYS	Roadway
SEGMENT_LENGTH_NBR	SEGMENT LENGTH	Roadway

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SHOULDER_PVD_WIDTH_IN_LT	SHOULDER LEFT INSIDE	Roadway
SHOULDER_PVD_WIDTH_OUT_LT	SHOULD LEFT OUTSIDE	Roadway
SHOULDER_PVD_WIDTH_IN_RT	SHOULDER RIGHT INSIDE	Roadway
SHOULDER_PVD_WIDTH_OUT_RT	SHOULDER RIGHT OUTSIDE	Roadway
POSTED_SPEED_NBR	SPEED LIMIT OF ROAD	Roadway
STREET_PREFIX_DIR_CD	STREET NAME DIRECTIONAL PREFIX	Roadway
STREET_DIR_SUFFIX_CD	STREET NAME DIRECTIONAL SUFFIX	Roadway
STREET_NAME	STEET NAME	Roadway
ADT_TRUCK_NBR	TRUCK ADT	Roadway
ADT_TOTAL_NBR	WEIGHTED AVERAGE TOTAL AADT	Roadway
ADT_YEAR_NBR	YEAR OF AADT COUNT	Roadway
BEGIN_MILEPOST	BEGIN MILEPOST	Horizontal Curve
COUNTY	COUNTY	Horizontal Curve
CURVE_LENGTH	CURVE LENGTH	Horizontal Curve
CURVE_RADIUS	CURVE RADIUS	Horizontal Curve
CURVE_TYPE	CURVE TYPE	Horizontal Curve
DEGREE_OF_CURVE	DEGREE OF CURVE	Horizontal Curve
SIGN	DIRECTION OF CURVE	Horizontal Curve
DISTRICT_NBR	DISTRICT	Horizontal Curve
END_MILEPOST	END MILEPOST	Horizontal Curve
NLFID	ROUTE ID	Horizontal Curve
ROUTE_NBR	ROUTE NUMBER	Horizontal Curve
LOCAL_ONLY_IND	EXCLUSIVELY LOCAL ROADWAYS	Intersection
INTERSECTION_EVENT_ID	INTERSECTION EVENT ID	Intersection
INTERSECTION_ID	INTERSECTION ID	Intersection
INTERSECTION_NAME	INTERSECTION NAME	Intersection
MAJOR_NUMBER_LANES	MAJOR NUMBER OF LANES	Intersection
MAJOR_ROAD_OFFEST	MAJOR ROAD MILEPOST	Intersection
MAJOR_NLF_ID	MAJOR ROUTE ID	Intersection
MINOR_NUMBER_LANES	MINOR NUMBER OF LANES	Intersection
MINOR_ROAD_OFFSET	MINOR ROAD MILEPOST	Intersection
MINOR_NLF_ID	MINOR ROUTE ID	Intersection

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NUMBER_LEGS	NUMBER OF LEGS	Intersection
RETIRE_DT	RETIRE DATE	Intersection
RETIRED_IND	RETIRED FROM DATA SET	Intersection
SKEW	SKEW ANGLE	Intersection
TRAFFIC_CONTROL	TRAFFIC CONTROL	Intersection
VALID_IND	VALID INTERSECTION	Intersection
APPROACH_ANGLE	APPROACH ANGLE	Intersection Approach
BEGIN_MILEPOST	BEGIN MILEPOST	Intersection Approach
CROSS_ROUTE_ID	CROSS ROUTE ID	Intersection Approach
CROSS_ROUTE_LEG_ID	CROSS ROUTE LEG ID	Intersection Approach
END_MILEPOST	END MILEPOST	Intersection Approach
INTERSECTION_EVENT_ID	INTERSECTION EVENT ID	Intersection Approach
MILEPOST	INTERSECTION MILEPOST	Intersection Approach
LEG_DIRECTION	LEG DIRECTION	Intersection Approach
NLFID	ROUTE ID	Intersection Approach
AADT_BC_TRUCK	AADT FOR BUSINESSES/TRUCKS	Barrier
AADT_PASSENGERS	AADT FOR PASSENGER VEHICLES	Barrier
ACCESS_CONTROL	ACCESS CONTROL	Barrier
BARRIER_FILE_NUMBER	BARRIER FILE NUMBER	Barrier
BARRIER_LENGTH_FT	BARRIER LENGTH	Barrier
STATUS	BARRIER STATUS	Barrier
BARRIER_SUB_CATEGORY	BARRIER SUB CATEGORY	Barrier
BARRIER_TYPE	BARRIER TYPE	Barrier
BASE_TYPE	BASE_TYPE	Barrier
LATITUDE_DD_BEGIN	BEGIN LATITUDE	Barrier
LONGITUDE_DD_BEGIN	BEGIN LONGITUDE	Barrier
BEGIN_MILEPOST	BEGIN MILEPOST	Barrier
BLOCKOUT_TYPE	BLOCKOUT_TYPE	Barrier
END_CONSTRUCTION_DATE	CONSTRUCTION END DATE	Barrier
COUNTY	COUNTY	Barrier
COUNTY_CD	COUNTY_CODE	Barrier
CRS	COUNTY-ROUTE SECTION	Barrier
CURB	CURB	Barrier

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INSTALLATION_DATE	DATE OF INSTALLATION	Barrier
DISTRICT_NBR	DISTRICT	Barrier
DIVIDED_INDICATOR	DIVIDED INDICATOR	Barrier
LATITUDE_DD_END	END LATITUDE	Barrier
LONGITUDE_DD_END	END LONGITUDE	Barrier
END_MILEPOST	END MILEPOST	Barrier
END_TERMINAL	END TERMINAL	Barrier
FUNCTIONAL_CLASS	FUNCTIONAL CLASS	Barrier
INTERSECT_RADIUS_DEG	GUARDRAIL RADIUS	Barrier
INTERSECTION_RADIUS	INTERSECTION RADIUS	Barrier
INVENTORY_COMMENTS	INVENTORY COMMENTS	Barrier
JURISDICTION	JURISDICTION	Barrier
LANES_NBR	NUMBER OF LANES	Barrier
LONG_SPAN	LONG SPAN	Barrier
START_TERMINAL	MATERIAL FOR START OF TERMINAL	Barrier
RUN_POST_TYPE	MATERIAL TYPE OF BARRIER POSTS	Barrier
MIDDLE_TERMINAL	MIDDLE TERMINAL	Barrier
MOWSTRIP	MOW STRIP	Barrier
LEFT_MUNI_NAME	MUNICIPALITY TO THE LEFT OF THE ROAD	Barrier
RIGHT_MUNI_NAME	MUNICIPALITY TO THE RIGHT OF THE ROAD	Barrier
NESTED_RAIL	NESTED RAIL	Barrier
NHS_ROUTE	NATIONAL HIGHWAY SYSTEM ROUTE TYPE	Barrier
POST_ENCASMENT	POST ENCASMENT	Barrier
POST_SPACING	POST SPACING	Barrier
PRIORITY_SYSTEM	PRIORITY SYSTEM	Barrier
REFLECTORS	REFLECTORS	Barrier
MAINTAIN_RESPOSIBLE	RESPONSIBLE FOR MAINTENANCE	Barrier
ROADWAY_WIDTH_NBR	ROADWAY WIDTH	Barrier
ROUNDED_BUFFER	ROUNDED BUFFER	Barrier
NLFID	ROUTE ID	Barrier
ROUTE_NBR	ROUTE NUMBER	Barrier
ROUTE_SUFFIX	ROUTE SUFFIX	Barrier
ROUTE_TYPE	ROUTE TYPE	Barrier
SURFACE_TYPE	SURFACE TYPE	Barrier
SURFACE_WIDTH	SURFACE WIDTH (FEET)	Barrier
AADT_TOTAL	TOTAL AADT	Barrier
LEFT_TWP_NAME	TOWNSHIP TO THE LEFT OF THE ROAD	Barrier

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RIGHT_TWP_NAME	TOWNSHIP TO THE RIGHT OF THE ROAD	Barrier
GLARE_SCREEN	TYPE OF GLARE SCREEN	Barrier
BRIDGE_MOUNT	BRIDGE MOUNT	Lighting
COUNTY	COUNTY	Lighting
CRS	COUNTY-ROUTE SECTION	Lighting
LATITUDE_DD_BEGN	LATITUDE OF LIGHT	Lighting
LIGHTING_TYPE	LIGHTING_TYPE	Lighting
LONGITUDE_DD_BEGIN	LONGITUDE OF LIGHT	Lighting
LUMINAIRE_TYPE	LUMINAIRE_TYPE	Lighting
MAINTAIN_RESPONSIBLE	RESPONSIBLE FOR MAINTENANCE	Lighting
MEDIAN_WALL_MOUNT	MEDIAN WALL MOUNT	Lighting
MILEPOST	MILEPOST	Lighting
NLFID	ROUTE ID	Lighting
ROUTE_NBR	ROUTE NUMBER	Lighting
STATUS	STATUS	Lighting
STRUCTURE_MOUNT	STRUCTURE MOUNT	Lighting
HL_FILE_NUM	UNIQUE ID	Lighting
BIKE_ROUTE_ID	BIKE ROUTE ID	Bicycle Route
F_WIDTH	BIKE ROUTE TOTAL WIDTH (FEET)	Bicycle Route
FACILITY_TYPE	CLASSIFICATION OF BIKE ROUTE	Bicycle Route
COUNTY	COUNTY	Bicycle Route
COUNTY_CD	COUNTY CODE	Bicycle Route
BEGIN_MILEPOST	BEGIN MILEPOST	Bicycle Route
END_MILEPOST	END MILEPOST	Bicycle Route
LTS	LEVEL OF TRAFFIC STRESS	Bicycle Route
NLFID	ROUTE ID	Bicycle Route
ROUTE_TYPE	ROUTE TYPE	Bicycle Route
NAME2	NAME OF LARGER TRAIL NETWORK	Bicycle Route
DISTRICT_NBR	ODOT DISTRICT NUMBER	Bicycle Route
FACILITY_OWNER	ORGANIZATION OWNING THE BIKE ROUTE	Bicycle Route
BIKE_ROUTE_TYPE	TYPE OF BIKE ROUTE	Bicycle Route
OWNER_TYPE	BIKE ROUTE OWNER	Bicycle Route
ROUTE_NBR	ROUTE NUMBER	Bicycle Route
ROUTE_STATUS	ROUTE STATUS	Bicycle Route
NAME	TRAIL NAME	Bicycle Route
ACCESS_CONTROL	ACCESS CONTROL	Crash
ROAD_CONTOUR_CD	CONTOUR OF ROADWAY	Crash
COUNTY_CD	COUNTY CODE	Crash

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CRASH_DATE	CRASH DATE	Crash
CRASH_SEVERITY_CD	CRASH SEVERITY	Crash
CRASH_YR	CRASH YEAR	Crash
DAY_IN_WEEK_CD	DAY OF WEEK	Crash
ODOT_DIR_FROM_REF_CD	DIRECTION FROM REFERENCE	Crash
ODOT_MILES_FROM_REF_NBR	DISTANCE OFFSET	Crash
DISTRICT_NBR	DISTRICT	Crash
DIVIDED_HWY_IND	DIVIDED/UNDIVIDED ROAD IDENTIFICATION	Crash
DOCUMENT_NBR	DOCUMENT NUMBER	Crash
FREEWAY_IND	FREEWAY/NON-FREEWAY INDICATOR	Crash
FUNCTIONAL_CLASS	FUNCTIONAL CLASSIFICATION	Crash
HOUR_OF_CRASH	HOUR OF DAY	Crash
INTERSTATE_IND	INTERSTATE HIGHWAY INDICATOR	Crash
INV_NLFID	INVENTORY ROUTE ID	Crash
JURISDICTION	JURISDICTION	Crash
LIGHT_COND_PRIMARY_CD	LIGHT CONDITION	Crash
LOCAL_REPORT_NUMBER_ID	LOCAL REPORT NUMBER	Crash
ODOT_CITY_VILLAGE_TWP_CD	LOCALITY	Crash
MILEPOST	MILEPOST	Crash
NHS_CD	NATIONAL HIGHWAY SYSTEM INDICATOR	Crash
LANES_NBR	NUMBER OF LANES	Crash
NUM_PEDESTRIANS	NUMBER OF PEDESTRIANS	Crash
NUMBER_OF_UNITS_NBR	NUMBER OF UNITS	Crash
PED_TOTAL_INJURED_NBR	PEDESTRIANS INJURED	Crash
PED_FATALITIES_NBR	PEDESTRIANS KILLED	Crash
ROAD_COND_PRIMARY_CD	ROAD CONDITION	Crash
RDWYCLS	ROADWAY CLASS	Crash
NLFID	ROUTE ID	Crash
ROUTE_NBR	ROUTE NUMBER	Crash
CROSS_ROUTE_NLFID	STREET AT/CROSS ROUTE	Crash
ODPS_LOC_ROAD_NAME	STREET ON	Crash
ODPS_TOTAL_FATALITIES_NBR	TOTAL FATALITIES	Crash
NO_INJURY_REPORTED_NBR	TOTAL NON-INJURIES	Crash
POSSIBLE_INJURIES_NBR	TOTAL POSSIBLE INJURIES	Crash
NON_INCAPAC_INJURIES_NBR	TOTAL SUSPECTED MINOR INJURIES	Crash
INCAPAC_INJURIES_NBR	TOTAL SUSPECTED SERIOUS INJURIES	Crash
U1_FIRST_HARMFUL_CD	TYPE OF CRASH (FIRST HARMFUL EVENT)	Crash



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WEATHER_COND_CD	WEATHER CONDITION	Crash
CARGO_BODY_TYPE_CD	CARGO BODY TYPE	Unit
CONT_CIR_PRIMARY_CD	CONTRIBUTING FACTOR OF VEHICLE	Unit
CRASH_YR	CRASH YEAR	Unit
DOCUMENT_NBR	DOCUMENT NUMBER	Unit
FIRST_HARMFUL_SEQ_NBR	FIRST HARMFUL EVENT	Unit
HAZ_MAT_PLACARD_IND	HAZARDOUS MATERIAL PLACARD	Unit
HAZ_MAT_RELEASED_IND	HAZARDOUS MATERIAL RELEASED	Unit
IN_EMERGENCY_RESPONSE	IN EMERGENCY RESPONSE	Unit
VEHICLE_MAKE	MAKE OF VEHICLE	Unit
VEHICLE_MODEL	MODEL OF VEHICLE	Unit
MOST_HARMFUL_CD	MOST HARMFUL EVENT	Unit
NON_MOTORIST_LOC_CD	NON-MOTORIST LOCATION	Unit
NUMBER_OF_OCCUPANTS_NBR	NUMBER OF OCCUPANTS	Unit
PRECRASH_ACTION_CD	PRE-CASH ACTIONS	Unit
IMPACT_AREA	POINT OF IMPACT	Unit
POSTED_SPEED_NBR	POSTED SPEED LIMIT	Unit
SEQ_OF_EVENTS_1_CD	SEQUENCE OF EVENTS 1	Unit
SEQ_OF_EVENTS_2_CD	SEQUENCE OF EVENTS 2	Unit
SEQ_OF_EVENTS_3_CD	SEQUENCE OF EVENTS 3	Unit
SEQ_OF_EVENTS_4_CD	SEQUENCE OF EVENTS 4	Unit
SPEED_DETECTED	SPEED DETECTED	Unit
COLLISION_ACTION_CD	STRIKING/STRUCK	Unit
TRAFFIC_CONTROL_CD	TRAFFIC CONTROL OF VEHICLE	Unit
WEIGHT_CLASS_GVWR	TRUCK/BUS WEIGHT	Unit
UNIT_NBR	UNIT NUMBER	Unit
DAMAGE_SCALE	VEHICLE DAMAGE SCALE	Unit
ODPS_PROOF_OF_INSURANCE_SH OWN	VEHICLE INSURED	Unit
VEHICLE_YEAR	VEHICLE MODEL YEAR	Unit
ODPS_DIRECTION_FROM_CD	VEHICLE/NON-MOTORIST DIRECTION	Unit
ODPS_DIRECTION_TO_CD	VEHICLE/NON-MOTORIST DIRECTION TO	Unit
VEHICLE_DEFECTS	VEHICLE CONDITION	Unit
TYPE_OF_UNIT_CD	VEHICLE TYPE	Unit
AIR_BAG_USAGE	AIRBAG DEPLOYMENT	Person
ODPS_IS_ALCOHOL_SUSPECTED	ALCOHOL INVOLVED	Person
ALCOHOL_TEST_STATUS	ALCOHOL TEST STATUS	Person
ALCOHOL_TEST_TYPE	ALCOHOL TEST TYPE	Person
CITATION_GIVEN	CITATION GIVEN	Person

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CITATION_LOCAL_CODE_IND	CITATION LOCAL CODE	Person
DOCUMENT_NBR	DOCUMENT NUMBER	Person
DRIVER_LICENSE_ISSUE_STATE	DRIVER LICENSE STATE	Person
DRUG_TEST_STATUS	DRUG TEST STATUS	Person
DRUG_TEST_TYPE	DRUG TEST TYPE	Person
ODPS_DRUG_TEST_RESULT_1	DRUG TEST 1 RESULT	Person
ODPS_DRUG_TEST_RESULT_2	DRUG TEST 2 RESULT	Person
EJECTION	EJECTED FROM VEHICLE	Person
MC_HELMET_USDOT_COMPLIANT	HELMET USE	Person
INJURED_TAKEN_BY	INJURED TRANSPORTATION	Person
AGE_NBR	OCCUPANT AGE	Person
GENDER_CD	OCCUPANT GENDER	Person
INJURIES	OCCUPANT INJURY	Person
TYPE_OF_PERSON	OCCUPANT TYPE	Person
CONDITION_CD	MOTORIST/NON-MOTORISE PHYSICAL CONDITION	Person
SAFETY_EQUIPMENT_USED	SAFETY EQUIPMENT	Person
SEATING_POSITION	SEATING POSITION	Person
TRAPPED	TRAPPED	Person
UNIT_NBR	UNIT NUMBER	Person

# Roadway File

## Roadway File

---

### Access Control\*

Variable Name: ACCESS\_CONTROL

*Definition:* The degree of access control for a given section of the road.

*Field Type:* Coded.

- '1' 'Full Access Control'
- '2' 'Partial Access Control'
- '3' 'No Access Control'

---

### Begin Mile Post

Variable Name: BEGIN\_MILEPOST

*Definition:* Calculated begin milepost of the roadway segment (e.g., 1.192).

*Field Type:* Numeric.

---

### County Code

Variable Name: COUNTY\_CD

*Definition:* County of the roadway segment.

*Field Type:* Coded.

---

\*Variable created or edited by HSIS Lab

## Roadway File

'ADA'	'Adams'	'HUR'	'Huron'
'ALL'	'Allen'	'JAC'	'Jackson'
'ASD'	'Ashland'	'JEF'	'Jefferson'
'ATB'	'Ashtabula'	'KNO'	'Knox'
'ATH'	'Athens'	'LAK'	'Lake'
'AUG'	'Auglaize'	'LAW'	'Lawrence'
'BEL'	'Belmont'	'LIC'	'Licking'
'BRO'	'Brown'	'LOG'	'Logan'
'BUT'	'Butler'	'LOR'	'Lorain'
'CAR'	'Carroll'	'LUC'	'Lucas'
'CHP'	'Champaign'	'MAD'	'Madison'
'CLA'	'Clark'	'MAH'	'Mahoning'
'CLE'	'Clermont'	'MAR'	'Marion'
'CLI'	'Clinton'	'MED'	'Medina'
'COL'	'Columbiana'	'MEG'	'Meigs'
'COS'	'Coshocton'	'MER'	'Mercer'
'CRA'	'Crawford'	'MIA'	'Miami'
'CUY'	'Cuyahoga'	'MOE'	'Monroe'
'DAR'	'Darke'	'MOT'	'Montgomery'
'DEF'	'Defiance'	'MRG'	'Morgan'
'DEL'	'Delaware'	'MRW'	'Morrow'
'ERI'	'Erie'	'MUS'	'Muskingham'
'FAI'	'Fairfield'	'NOB'	'Noble'
'FAY'	'Fayette'	'OTT'	'Ottawa'
'FRA'	'Franklin'	'PAU'	'Paulding'
'FUL'	'Fulton'	'PER'	'Perry'
'GAL'	'Gallia'	'PIC'	'Pickaway'
'GEA'	'Geauga'	'PIK'	'Pike'
'GRE'	'Greene'	'POR'	'Portage'
'GUE'	'Guemsey'	'PRE'	'Preble'
'HAM'	'Hamilton'	'PUT'	'Putnam'
'HAN'	'Hancock'	'RIC'	'Richland'
'HAR'	'Hardin'	'ROS'	'Ross'
'HAS'	'Harrison'	'SAN'	'Sandusky'
'HEN'	'Henry'	'SCI'	'Scioto'
'HIG'	'Highland'	'SEN'	'Seneca'
'HOC'	'Hocking'	'SHE'	'Shelby'
'HOL'	'Holmes'	'STA'	'Stark'

## Roadway File

'SUM'	'Summit'	'WAR'	'Warren'
'TRU'	'Trumbull'	'WAS'	'Washington'
'TUS'	'Tuscarawas'	'WAY'	'Wayne'
'UNI'	'Union'	'WIL'	'Williams'
'VAN'	'Van Wert'	'WOO'	'Wood'
'VIN'	'Vinton'	'WAY'	'Wyandot'

---

### District

Variable Name: DISTRICT\_NBR

*Definition:* District of roadway segment (e.g., 9).

*Field Type:* Coded.

'1'	'District 1 – Lima'
'2'	'District 2 – Bowling Green'
'3'	'District 3 – Ashland'
'4'	'District 4 – Akron'
'5'	'District 5 – Jacksontown'
'6'	'District 6 – Delaware'
'7'	'District 7 – Sidney'
'8'	'District 8 – Lebanon'
'9'	'District 9 – Chillicothe'
'10'	'District 10 – Marietta'
'11'	'District 11 – New Philadelphia'
'12'	'District 12 – Garfield Heights'

---

### Divided Highway Indicator

Variable Name: DIVIDED\_HWY\_IND

*Definition:* Whether the road segment is divided or not.

*Field Type:* Coded.

'Y'	'Divided'
'N'	'Not Divided'

---

### End Milepost

Variable Name: END\_MILEPOST

*Definition:* Calculated ending milepost of the roadway segment (e.g., 1.192).

*Field Type:* Numeric.

## Roadway File

### Facility Type

Variable Name: FACILITY\_TYPE\_CD

*Definition:* FHWA type of facility of the roadway segment.

*Field Type:* Coded.

'1'	'One-Way Roadway'
'2'	'Two-Way Roadway'
'3'	'Couplet'
'4'	'Ramp'
'5'	'Non Mainline'
'6'	'Non Inventory Direction'
'7'	'Planned/Unbuilt'

### Functional Class

Variable Name: FUNCTION\_CLASS

*Definition:* Functional class.

*Field Type:* Coded.

'1'	'Interstate'
'2'	'Principal Arterial – Other Freeway and Expressways'
'3'	'Principal Arterial - Other'
'4'	'Minor Arterial'
'5'	'Major Collector'
'6'	'Minor Collector'
'7'	'Local'

### Jurisdiction

Variable Name: JURISDICTION

*Definition:* Jurisdiction type of the roadway segment.

*Field Type:* Coded.

'C'	'County'
'F'	'Federal'
'M'	'Municipal'
'P'	'Private'
'S'	'State'
'T'	'Township'
'X'	'Unknown'

### Left Side Standard Surface Type Variable Name: SURFACE\_TYPE\_LEFT\_CD

*Definition:* Identifies surface material on the left side of the road while heading in the cardinal direction of dominant route. Left refers to the non-cardinal segment on a divided route. On a non-divided segment left refers to the non-cardinal direction of the segment.

*Field Type:* Coded.

'A'	'Combination Surface'
'B'	'Brick'
'C'	'Continuous Reinforced'
'D'	'Reinforced Concrete'
'E'	'Plain Concrete'
'G'	'Bituminous Concrete'
'I'	'Chip Seal on Granular'
'K'	'Open Graded Bituminous'
'L'	'Chip Seal or Micro'
'M'	'Gravel'
'U'	'Unimproved'
'X'	'Right of Way Only'

### Left Side Surface Base Type Variable Name: BASE\_TYPE\_LEFT\_CD

*Definition:* Identifies material type under the surface layer of a roadway. For non-divided routes, this would be the left lane in the non-cardinal direction. For a divided route, both the cardinal and non-cardinal left lanes would be coded the same.

*Field Type:* Coded.

'F'	'Crack and Seat'
'H'	'Rubblize and Roll'
'I'	'Aggregate Base 304 or Traffic Compacted'
'K'	'Water Bound Macadam'
'L'	'Bituminous Concrete Mix or Penetration Macadam'
'N'	'Plain Concrete'
'P'	'Reinforced Concrete'
'R'	'Brick – Flexible'
'T'	'Brick – Rigid'



## Roadway File

---

### Left Side Surface Width in Feet

Variable Name: SURFACE\_WIDTH\_LEFT

*Definition:* Identifies the total width in feet of the “drivable” portion of a route segment (or all lanes combined), on the non-cardinal side of divided segment. (e.g., 9).

*Field Type:* Numeric.

---

### Light Vehicle ADT

Variable Name: ADT\_PSNCR\_CAR\_NBR

*Definition:* ADT information for passenger cars on the roadway segment (e.g., 6190).

*Field Type:* Numeric.

---

### Median Type

Variable Name: MEDIAN\_TYPE\_CD

*Definition:* Type of median on the roadway segment.

*Field Type:* Coded.

- '1' 'None - No median or unprotected area less than 4 feet wide'
- '2' 'Unprotected - Median exists with a width of 4 feet or more'
- '3' 'Curbed - Barrier or mountable curbs with a minimum height of 4 inches'
- '4' 'Positive Barrier- unspecified - Prevents vehicles from crossing median'
- '5' 'Positive Barrier – flexible - Considerable deflection upon impact'
- '6' 'Positive Barrier – semi-rigid - Some deflection upon impact'
- '7' 'Positive Barrier – rigid - No deflection upon impact'

---

### Median Width

Variable Name: MEDIAN\_WIDTH\_NBR

*Definition:* Width of median in feet on the roadway segment (e.g., 204).

*Field Type:* Numeric.

---

### Mile Class

Variable Name: MILEAGE\_CLASS

*Definition:* Identifies the locations or jurisdictions of a roadway segment.

*Additional Information:* Codes 3, 4, and 5 are divided between two boundaries.

*Field Type:* Coded

- '0' 'N/A (only used for concurrent, secondary segments)'

## Roadway File

'1'	'Rural'
'2'	'Municipal'
'3'	'Rural/Municipal'
'4'	'Municipal/Municipal'
'5'	'Rural/Rural'

---

### Municipality Code (Left)

Variable Name: MUNI\_CODE\_LEFT

*Definition:* Municipality code of the roadway segment on the left made up by the three-letter county code, the municipality name, and the FIPS code.

*Field Type:* Text.

---

### Municipality Code (Right)

Variable Name: MUNI\_CODE\_RIGHT

*Definition:* Municipality code of the roadway segment on the right made up by the three-letter county code, the municipality name, and the FIPS code.

*Field Type:* Text.

---

### National Highway System Code

Variable Name: NHS\_CD

*Definition:* A roadway that is a component of the National Highway System (NHS). An NHS route, STRAHNET, or Intermodal Connector are all part of the NHS.

*Field Type:* Coded.

'N'	'NHS (Regular)'
'H'	'Congressional Corridors'
'S'	'STRAHNET'
'C'	'STRAHNET Connectors'
'2'	'Major Airport'
'3'	'Major Port Facility'
'4'	'Major Amtrak Station'
'5'	'Major Rail/Truck Terminal'
'6'	'Major Intercity Bus Terminal'
'7'	'Major Public Transit / Multi-Modal Passenger Terminal'
'8'	'Major Pipeline Terminal'
'9'	'Major Ferry Terminal'

### Number of Lanes

Variable Number: LANES\_NBR

*Definition:* Number of lanes – total for both directions that carry through traffic (e.g., 2).

*Field Type:* Numeric.

### Right Side Surface Base Class Type

Variable Number: BASE\_TYPE\_RIGHT\_CD

*Definition:* Identifies material type under the surface layer of a roadway. For non-divided routes, this would be the right lane in the cardinal direction. For a divided route, both the cardinal and non-cardinal right lanes would be coded the same.

*Field Type:* Coded.

'F'	'Crack and Seat'
'H'	'Rubble and Roll'
'I'	'Aggregate Base 304 or Traffic Compacted'
'K'	'Water Bound Macadam'
'L'	'Bituminous Concrete Mix or Penetration Macadam'
'N'	'Plain Concrete'
'P'	'Reinforced Concrete'
'R'	'Brick – Flexible'
'T'	'Brick – Rigid'

### Right Side Surface Class Type

Variable Name: SURFACE\_TYPE\_RIGHT\_CD

*Definition:* Identifies surface material on the right side of the road while heading in the cardinal direction of dominant route. Right refers to the cardinal segment on a divided route or non-divided route.

*Field Type:* Coded.

'A'	'Combination Surface'
'B'	'Brick'
'C'	'Continuous Reinforced'
'D'	'Reinforced Concrete'
'E'	'Plain Concrete'
'G'	'Bituminous Concrete'
'I'	'Chip Seal on Granular'
'K'	'Open Graded Bituminous'
'L'	'Chip Seal or Micro'

## Roadway File

'M'	'Gravel'
'U'	'Unimproved'
'X'	'Right of Way Only'

---

### Right Side Surface Width in Feet Variable Name: SURFACE\_WIDTH\_RIGHT

*Definition:* Identifies the total width in feet of the “drivable” portion of a route segment (or all lanes combined), on the cardinal side of divided segment (e.g., 9).

*Field Type:* Numeric.

---

### Roadway Class\* Variable Name: RODWYCLS

*Definition:* 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*, *Median Type*, and *Functional Class* variables, and Census Urban Places data. (e.g., Rural 2 Lane Roads).

*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 Width Variable Name: ROADWAY\_WIDTH

*Definition:* The total width of the roadway segment in feet. (e.g., 20).

*Field Type:* Numeric.

---

\*Variable created or edited by HSIS Lab

## Route ID

Variable Name: NLFID

*Definition:* Primary key field which allows ODOT's graphic roadway network geometric segments to be linked to business data attributes (e.g., SSTASR00043\*\*C) (e.g., MMOTMR01594F\*C).

*Field Type:* Text.

## Route Number

Variable Name: ROUTE\_NBR

*Definition:* Route number of the roadway segment (e.g., 1).

*Field Type:* Numeric.

## Route Type

Variable Name: ROUTE\_TYPE

*Definition:* Route type information of the roadway segment.

*Field Type:* Coded.

'BK'	'Bike Route (Trail)'
'CN'	'Connecting Road'
'CR'	'County Road'
'DD'	'Department of Defense Road'
'DR'	'Driveway'
'FR'	'Forest Road'
'FW'	'National Fish and Wildlife Road'
'IR'	'Interstate'
'MR'	'Municipal Street'
'NA'	'NASA Road'
'NP'	'National Park Service Road'
'NR'	'Natural Resources Road (Park Road)'
'PL'	'Parking Lot'
'RA'	'Ramp'
'RE'	'Rest Area Entry/Exit'
'RR'	'Rail Road Track'
'SR'	'State Route'
'TR'	'Township Road'
'US'	'United States Route'
'WS'	'Weigh Station Entry/Exit'

## Roadway File

'XX' 'Unknown'

---

### Scenic Byways

Variable Name: SCENIC\_BYWAY\_CD

*Definition:* Scenic byways information of the roadway segment.

*Field Type:* Coded.

'A' 'All American Road'

'N' 'National Scenic Byway'

'S' 'State Scenic Byway'

---

### Segment Length

Variable Name: SEGMENT\_LENGTH\_NBR

*Definition:* Section length in miles (e.g., 1.192).

*Field Type:* Numeric.

---

### Shoulder Left Inside

Variable Name: SHOULDER\_PVD\_WIDTH\_IN\_LT

*Definition:* The width in feet of the paved shoulder on the median (inner) side of the roadway on a non-cardinal, divided roadway measured from the center of the edgeline outward (e.g., 16).

*Field Type:* Numeric

---

### Shoulder Left Outside

Variable Name: SHOULDER\_PVD\_WIDTH\_OUT\_LT

*Definition:* The width in feet of the paved portion of the left (outside) shoulder measured from the center of the edge line outward. (e.g., 10).

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

*Field Type:* Numeric.

---

### Shoulder Right Inside

Variable Name: SHOULDER\_PVD\_WIDTH\_IN\_RT

*Definition:* The width in feet of the paved portion of the right (inside) shoulder measured from the center of the edge line outward. (e.g., 16).

## Roadway File

*Field Type:* Numeric.

---

### Shoulder Right Outside

**Variable Name:** SHOULDER\_PVD\_WIDTH\_OUT\_RT

*Definition:* The width in feet of the paved portion of the right (outside) shoulder measured from the center of the edge line outward. (e.g., 10).

*Field Type:* Numeric.

---

### Speed Limit of Road

**Variable Name:** POSTED\_SPEED\_NBR

*Definition:* Posted speed limit in miles per hour on the roadway segment (e.g., 45).

*Field Type:* Numeric.

---

### Street Name Directional Prefix

**Variable Name:** STREET\_PREFIX\_DIR\_CD

*Definition:* Street name directional prefix information of the roadway segment.

*Field Type:* Coded.

'N'	'North'
'S'	'South'
'E'	'East'
'W'	'West'

---

### Street Name Directional Suffix

**Variable Name:** STREET\_DIR\_SUFFIX\_CD

*Definition:* Street name directional suffix information of the roadway segment

*Field Type:* Coded.

'N'	'North'
'S'	'South'
'E'	'East'
'W'	'West'

---

### Street Name

**Variable Name:** STREET\_NAME

*Definition:* Street name of the roadway segment (e.g., BEASLEY FORK).

## Roadway File

*Field Type:* Text.

---

### Truck ADT

**Variable Name:** ADT\_TRUCK\_NBR

*Definition:* ADT information for trucks on the roadway segment (e.g., 84).

*Field Type:* Numeric

---

### Weighted Average Total AADT

**Variable Name:** ADT\_TOTAL\_NBR

*Definition:* Calculated average AADT (e.g., 6274).

*Field Type:* Numeric.

---

### Year of AADT Count

**Variable Name:** ADT\_YEAR\_NBR

*Definition:* Year of AADT (e.g., 2020).

*Field Type:* Numeric.



# Horizontal Curve File

## Horizontal Curve File

---

### Begin Milepost

Variable Name: **BEGIN\_MILEPOST**

*Definition:* Beginning LRS milepost of the curve (e.g., 5.279).

*Field Type:* Numeric.

---

### County

Variable Name: **COUNTY**

*Definition:* County of the curve (e.g., 'ADAMS').

*Field Type:* Text.

---

### Curve Length

Variable Name: **CURVE\_LENGTH**

*Definition:* Curve length in feet (e.g., 335).

*Field Type:* Numeric.

---

### Curve Radius

Variable Name: **CURVE\_RADIUS**

*Definition:* Radius of the curve along the road segment in feet (e.g., 686).

*Field Type:* Numeric.

---

### Curve Type

Variable Name: **CURVE\_TYPE**

*Definition:* Whether the curve is along a mainline or a ramp segment (e.g., Mainline).

*Field Type:* Text.

---

### Degree of Curve\*

Variable Name: **DEGREE\_OF\_CURVE**

*Definition:* Degree of the roadway curve information. Calculated by dividing 5,729.58 by the curve radius (e.g., 8.35).

*Field Type:* Numeric.

---

\*Variable created or edited by HSIS Lab

## Horizontal Curve File

---

### Direction of Curve

Variable Name: SIGN

*Definition:* Direction of roadway curve. If the segment is a two-way road there will be a direction of curve 'Left' and 'Right' for each side of the road (e.g., 'Right').

*Field Type:* String.

---

### District

Variable Name: DISTRICT\_NBR

*Definition:* District information of the roadway curve.

*Field Type:* Coded.

- '1' 'District 1 – Lima'
- '2' 'District 2 – Bowling Green'
- '3' 'District 3 – Ashland'
- '4' 'District 4 – Akron'
- '5' 'District 5 – Jacksontown'
- '6' 'District 6 – Delaware'
- '7' 'District 7 – Sidney'
- '8' 'District 8 – Lebanon'
- '9' 'District 9 – Chillicothe'
- '10' 'District 10 – Marietta'
- '11' 'District 11 – New Philadelphia'
- '12' 'District 12 – Garfield Heights'

---

### End Milepost

Variable Name: END\_MILEPOST

*Definition:* Ending LRS milepost of the curve (e.g., 5.153).

*Field Type:* Numeric.

---

### Route ID

Variable Name: NLFID

*Definition:* Primary key field which allows ODOT's graphic roadway network geometric segments to be linked to business data attributes (e.g., SADASR00247\*\*C).

*Field Type:* Text.

## Horizontal Curve File

### Route Number

Variable Name: ROUTE\_NBR

*Definition:* Route number of the roadway curve (e.g.,00247).

*Additional Information:* From year 2000, this variable became 5 characters with first digit being '0' and last digit as RTE\_SUFIX

*Field Type:* Numeric.

# Intersection File

## Intersection File

---

### Exclusively Local Roadways

Variable Name: LOCAL\_ONLY\_IND

*Definition:* Indicates if the intersection is exclusively local roadways.

*Field Type:* Coded.

'Y'	'Yes'
'N'	'No'

---

### Intersection Event ID

Variable Name: INTERSECTION\_EVENT\_ID

*Definition:* ID of the intersection that will be used to link to the approach leg variables (e.g., 00001e03-59de-489e-8b73-01ab6fd929fd).

*Field Type:* Text.

---

### Intersection ID

Variable Name: INTERSECTION\_ID

*Definition:* ID of the intersection (e.g., 9e98c375-cd76-47ff-9cc9-c61050f09b68).

*Field Type:* String.

---

### Intersection Name

Variable Name: INTERSECTION\_NAME

*Definition:* Common names of the roads at the intersection (e.g., 'Gilhouse Rd & Dogwood Ln').

*Field Type:* Text.

---

### Major Number of Lanes

Variable Name: MAJOR\_NUMBER\_LANES

*Definition:* Total number of lanes on the major road at the intersection (e.g., 4).

*Field Type:* Numeric.

---

### Major Road Milepost

Variable Name: MAJOR\_ROAD\_OFFSET

*Definition:* The milepost of the major road at the point of the intersection (e.g., 3.242).

*Field Type:* Numeric.

## Intersection File

---

### Major Route ID

Variable Name: MAJOR\_NLF\_ID

*Definition:* The Route ID of the major road at the intersection (e.g., SSTASR00043\*\*C).

*Field Type:* Text.

---

### Minor Number of Lanes

Variable Name: MINOR\_NUMBER\_LANES

*Definition:* Total number of lanes on the minor road at the intersection (e.g., 3).

*Field Type:* Numeric.

---

### Minor Road Milepost

Variable Name: MINOR\_ROAD\_OFFSET

*Definition:* The milepost of the minor road at the point of the intersection (e.g., 12.409).

*Field Type:* Numeric.

---

### Minor Route ID

Variable Name: MINOR\_NLF\_ID

*Definition:* The Route ID of the minor road at the intersection (e.g., SSTASR00043\*\*C).

*Field Type:* Text.

---

### Number of Legs

Variable Name: NUMBER\_LEGS

*Definition:* Total number of legs at the intersection (e.g., 4).

*Field Type:* Numeric.

---

### Retire Date

Variable Name: RETIRE\_DT

*Definition:* Date the record was retired from use in the data set. (e.g., 4/1/2020).

*Field Type:* Date.

## Intersection File

---

### Retired from Data Set

Variable Name: RETIRED\_IND

*Definition:* Indicator that intersection has been retired from the dataset.

*Field Type:* Coded.

'Y'	'Yes'
'N'	'No'

---

### Skew Angle

Variable Name: SKEW

*Definition:* The angle of the narrowest skew at the intersection in degrees.

*Field Type:* Numeric.

---

### Traffic Control

Variable Name: TRAFFIC\_CONTROL

*Definition:* The type of traffic control present at the intersection.

*Field Type:* Text.

---

### Valid Intersection

Variable Name: VALID\_IND

*Definition:* Indicates if the record is a valid intersection.

*Field Type:* Coded.

'Y'	'Yes'
'N'	'No'



# **Intersection Approach File**

# Intersection Approach File

---

## Approach Angle

Variable Name: APPROACH\_ANGLE

*Definition:* Angle of the leg when exiting, relative to the East direction in degrees. A value of 0 represents the East cardinal direction (e.g., 265.071).

*Field Type:* Numeric.

---

## Begin Milepost

Variable Name: BEGIN\_MILEPOST

*Definition:* Beginning milepost of the approach (e.g., 0.485).

*Field Type:* Numeric.

---

## Cross Route ID

Variable Name: CROSS\_ROUTE\_ID

*Definition:* Variable used to link the approaches to a point in the Cross Points file. The Intersection Event ID can be attached to a leg through this variable (e.g., bb5ae3d558967c2de32f33d6fa9d3a28).

*Field Type:* Text.

---

## Cross Route Leg ID

Variable Name: CROSS\_ROUTE\_LEG\_ID

*Definition:* The unique leg identifier (e.g., 00001bf7-8896-491f-87c2-4bada47c5048).

*Field Type:* Text.

---

## End Milepost

Variable Name: END\_MILEPOST

*Definition:* Ending milepost of the approach (e.g., 0.042).

*Field Type:* Numeric.

---

## Intersection Event ID

Variable Name: INTERSECTION\_EVENT\_ID

*Definition:* Unique intersection ID. Every point at an intersection has the same Intersection Event ID. This variable is used to link the legs to an intersection point in the Intersection file (e.g., 9b5b2b6a-53ab-411b-9337-e0aec33f791c).

## Intersection Approach File

*Field Type:* Text.

---

### Intersection Milepost

**Variable Name:** MILEPOST

*Definition:* Milepost of the intersection point. If the leg is incoming the intersection milepost is equal to the end leg milepost. If the leg is outgoing, it matches the beginning leg milepost (e.g., 9.13).

*Field Type:* Numeric.

---

### Leg Direction

**Variable Name:** LEG\_DIRECTION

*Definition:* Whether the leg is incoming or outgoing (e.g., incoming).

*Field Type:* Text.

---

### Route ID

**Variable Name:** NLFID

*Definition:* The link to the LRS road that the approach falls on (e.g., TGALTR00530\*\*C).

*Field Type:* Text.

# Barrier File

## Barrier File

---

### AADT for Businesses/Trucks

Variable Name: AADT\_BC\_TRUCK

*Definition:* AADT for businesses/CMVs and trucks (e.g., 12).

*Field Type:* Numeric.

---

### AADT for Passenger Vehicles

Variable Name: AADT\_PASSENGER

*Definition:* AADT for passenger vehicles (e.g., 116).

*Field Type:* Numeric.

---

### Access Control\*

Variable Name: ACCESS\_CONTROL

*Definition:* The degree of access control for a given section of the road.

*Field Type:* Coded.

- '1' 'Full Access Control – Preference given to through traffic movements by providing interchanges with selected public roads, and by prohibiting crossing at-grade and direct driveway connections (i.e., limited access to the facility).'
- '2' 'Partial Access Control – Preference given to through traffic movement. In addition to interchanges, there may be some crossing at-grade with public roads, but, direct private driveway connections have been minimized through the use of frontage roads or other local access restrictions. Control of curb cuts is not access control.'
- '3' 'No Access Control – No degree of access control exists (i.e., full access to the facility is permitted).'

---

### Barrier File Number

Variable Name: BARRIER\_FILE\_NUMBER

*Definition:* File number for the barrier (e.g., BAR1041480).

*Field Type:* Text.

---

\*Variable created or edited by HSIS Lab

## Barrier File

---

### Barrier Length

Variable Name: BARRIER\_LENGTH\_FT

*Definition:* Barrier length in feet (e.g., 102).

*Field Type:* Numeric.

---

### Barrier Status

Variable Name: STATUS

*Definition:* Status of the barrier (e.g., A).

*Field Type:* Coded.

'A' 'Active'  
'P' 'Proposed'  
'R' 'Retired'

---

### Barrier Sub Category

Variable Name: BARRIER\_SUB\_CATEGORY

*Definition:* Specific technical type of barrier present.

*Field Type:* Text

---

### Barrier Type

Variable Name: BARRIER\_TYPE

*Definition:* Type of roadway barrier present.

*Field Type:* Coded.

'1' 'Guardrail'  
'2' 'Cable'  
'3' 'Concrete'

---

### Base Type

Variable Name: BASE\_TYPE

*Definition:* Type of base used in roadway pavement.

*Field Type:* Coded.

'F' 'Crack and Seat'  
'H' 'Rubblize and Roll'  
'I' 'Aggregate Base 304 or Traffic Compacted'

## Barrier File

'K'	'Water Bound Macadam'
'L'	'Bituminous Concrete Mix or Penetration Macadam'
'N'	'Plain Concrete'
'P'	'Reinforced Concrete'
'R'	'Brick – Flexible'
'T'	'Brick – Rigid'

---

### Begin Latitude

Variable Name: LATITUDE\_DD\_BEGIN

*Definition:* Beginning latitude (e.g., -81.248607).

*Field Type:* Numeric.

---

### Begin Longitude

Variable Name: LONGITUDE\_DD\_BEGIN

*Definition:* Beginning longitude (e.g., -81.248607).

*Field Type:* Numeric.

---

### Begin Milepost

Variable Name: BEGIN\_MILEPOST

*Definition:* Beginning milepost (e.g., 8.775).

*Field Type:* Numeric.

---

### Blockout Type

Variable Name: BLOCKOUT\_TYPE

*Definition:* Type of blockout used to hold barrier (e.g., Alternate).

*Field Type:* Text.

---

### Construction End Date

Variable Name: END\_CONSTRUCTION\_DATE

*Definition:* Construction end date (e.g., 1/13/2021).

*Field Type:* Date.

## Barrier File

### County

Variable Name: COUNTY

*Definition:* Name of county (e.g., Monroe).

*Field Type:* Text.

### County Code

Variable Name: COUNTY\_CD

*Definition:* County code.

*Field Type:* Code.

'ADA'	'Adams'	'GEA'	'Geauga'
'ALL'	'Allen'	'GRE'	'Greene'
'ASD'	'Ashland'	'GUE'	'Guemsey'
'ATB'	'Ashtabula'	'HAM'	'Hamilton'
'ATH'	'Athens'	'HAN'	'Hancock'
'AUG'	'Auglaize'	'HAR'	'Hardin'
'BEL'	'Belmont'	'HAS'	'Harrison'
'BRO'	'Brown'	'HEN'	'Henry'
'BUT'	'Butler'	'HIG'	'Highland'
'CAR'	'Carroll'	'HOC'	'Hocking'
'CHP'	'Champaign'	'HOL'	'Holmes'
'CLA'	'Clark'	'HUR'	'Huron'
'CLE'	'Clermont'	'JAC'	'Jackson'
'CLI'	'Clinton'	'JEF'	'Jefferson'
'COL'	'Columbiana'	'KNO'	'Knox'
'COS'	'Coshocton'	'LAK'	'Lake'
'CRA'	'Crawford'	'LAW'	'Lawrence'
'CUY'	'Cuyahoga'	'LIC'	'Licking'
'DAR'	'Darke'	'LOG'	'Logan'
'DEF'	'Defiance'	'LOR'	'Lorain'
'DEL'	'Delaware'	'LUC'	'Lucas'
'ERI'	'Erie'	'MAD'	'Madison'
'FAI'	'Fairfield'	'MAH'	'Mahoning'
'FAY'	'Fayette'	'MAR'	'Marion'
'FRA'	'Franklin'	'MED'	'Medina'
'FUL'	'Fulton'	'MEG'	'Meigs'
'GAL'	'Gallia'	'MER'	'Mercer'



## Barrier File

'MIA'	'Miami'	'SCI'	'Scioto'
'MOE'	'Monroe'	'SEN'	'Seneca'
'MOT'	'Montgomery'	'SHE'	'Shelby'
'MRG'	'Morgan'	'STA'	'Stark'
'MRW'	'Morrow'	'SUM'	'Summit'
'MUS'	'Muskingham'	'TRU'	'Trumbull'
'NOB'	'Noble'	'TUS'	'Tuscarawas'
'OTT'	'Ottawa'	'UNI'	'Union'
'PAU'	'Paulding'	'VAN'	'Van Wert'
'PER'	'Perry'	'VIN'	'Vinton'
'PIC'	'Pickaway'	'WAR'	'Warren'
'PIK'	'Pike'	'WAS'	'Washington'
'POR'	'Portage'	'WAY'	'Wayne'
'PRE'	'Preble'	'WIL'	'Williams'
'PUT'	'Putnam'	'WOO'	'Wood'
'RIC'	'Richland'	'WAY'	'Wyandot'
'ROS'	'Ross'		
'SAN'	'Sandusky'		

---

## County-Route Section

Variable Name: CRS

*Definition:* Country route section (e.g., MOE-260-8.775).

*Field Type:* Text.

---

## Curb

Variable Name: CURB

*Definition:* Curb located under or in front of barrier.

*Field Type:* Coded.

'Y' 'Yes'

'N' 'No'

---

### Date of Installation

Variable Name: INSTALLATION\_DATE

*Definition:* Date of installation (e.g., 8/3/2020 4:00:00 AM).

*Field Type:* Date.

---

### District

Variable Name: DISTRICT\_NBR

*Definition:* Name of district.

*Field Type:* Coded.

'1'	'District 1 – Lima'
'2'	'District 2 – Bowling Green'
'3'	'District 3 – Ashland'
'4'	'District 4 – Akron'
'5'	'District 5 – Jacksontown'
'6'	'District 6 – Delaware'
'7'	'District 7 – Sidney'
'8'	'District 8 – Lebanon'
'9'	'District 9 – Chillicothe'
'10'	'District 10 – Marietta'
'11'	'District 11 – New Philadelphia'
'12'	'District 12 – Garfield Heights'

---

### Divided Indicator

Variable Name: DIVIDED\_INDICATOR

*Definition:* Divided indicator.

*Field Type:* Code.

'Y'	'Yes'
'N'	'No'

---

### End Latitude

Variable Name: LATITUDE\_DD\_END

*Definition:* Ending latitude (e.g., 39.662673).

*Field Type:* Numeric.

## Barrier File

---

### End Longitude

Variable Name: LONGITUDE\_DD\_END

*Definition:* Ending longitude (e.g., -81.248652).

*Field Type:* Numeric.

---

### End Milepost

Variable Name: END\_MILEPOST

*Definition:* Ending milepost (e.g., 8.783).

*Field Type:* Numeric.

---

### End Terminal

Variable Name: END\_TERMINAL

*Definition:* Type of hardware bookending barrier at end (e.g., BTA 4).

*Field Type:* Text.

---

### Functional Class

Variable Name: FUNCTIONAL\_CLASS

*Definition:* Definition of roadway classes for the FHWA approved Functional Class system. This is based upon assignment of roads into systems according to the character of service they provide in relation to the total road network.

*Field Type:* Coded.

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

---

### Guardrail Radius

Variable Name: INTERSECT\_RADIUS\_DEG

*Definition:* Degree of radius of a guardrail at an intersection or drive (e.g., 150)

*Field Type:* Numeric.

## Barrier File

---

### Intersection Radius

Variable Name: INTERSECTION\_RADIUS

*Definition:* Presence of a radius guardrail element typically found at an intersection of drive.

*Field Type:* Coded.

'Y' 'Yes'

'N' 'No'

---

### Inventory Comments

Variable Name: INVENTORY\_COMMENTS

*Definition:* Comments about barrier inventory (e.g., 3 panels damaged).

*Field Type:* Text.

---

### Jurisdiction

Variable Name: JURISDICTION

*Definition:* Type of jurisdiction to which the section of the route belongs.

*Field Type:* Coded.

'C' 'County'

'F' 'Federal'

'M' 'Municipal'

'P' 'Private'

'S' 'State'

'T' 'Township'

'X' 'Unknown'

---

### Number of Lanes

Variable Name: LANES\_NBR

*Definition:* Number of lanes (e.g., 2).

*Field Type:* Numeric.

---

### Long Span

Variable Name: LONG\_SPAN

*Definition:* Indicates if there is a long span (omitted post) within the barrier run.

*Field Type:* Coded.

'Y' 'Yes'

'No' 'No'

## Barrier File

---

### Material for Start of Terminal

Variable Name: START\_TERMINAL

*Definition:* Type of hardware bookending barrier at start (e.g., Type T).

*Field Type:* Text.

---

### Material Type of Barrier Posts

Variable Name: RUN\_POST\_TYPE

*Definition:* Material type of barrier posts (e.g., Wood).

*Field Type:* Text.

---

### Middle Terminal

Variable Name: MIDDLE\_TERMINAL

*Definition:* Whether there is a terminal between start and end terminal.

*Field Type:* Coded.

'Y' 'Yes'

'N' 'No'

---

### Mow Strip

Variable Name: MOWSTRIP

*Definition:* Indicates if there is a mowstrip or pavement under barrier within the barrier run (e.g., Concrete).

*Field Type:* Text.

---

### Municipality to the Left of the Road

Variable Name: LEFT\_MUNI\_NAME

*Definition:* Municipality to the left of the road (e.g., WILMINGTON).

*Field Type:* Text.

---

### Municipality to the Right of the Road

Variable Name: RIGHT\_MUNI\_NAME

*Definition:* Municipality to the right of the road (e.g., WILMINGTON).

*Field Type:* Text.

## Barrier File

### Nested Rail

Variable Name: NESTED\_RAIL

*Definition:* Indicates there is a nested rail within the barrier run.

*Field Type:* Coded.

'Y' 'Yes'  
'N' 'No'

### National Highway System Route Type

Variable Name: NHS\_ROUTE

*Definition:* NHS route type.

*Field Type:* Coded.

'N' 'National Highway System (Regular)'  
'H' 'Congressional Corridor'  
'S' 'Strahnet'  
'C' 'Strahnet Connector'  
'2' 'Major Airport'  
'3' 'Major Port Facility'  
'4' 'Major Amtrack Station'  
'5' 'Major Rail/Truck Terminal'  
'6' 'Major Intercity Bus Terminal'  
'7' 'Major Public Transit/Multi Modal Passenger Terminal'  
'8' 'Major Pipeline Terminal'  
'9' 'Major Ferry Terminal'

### Post Encasement

Variable Name: POST\_ENCASEMENT

*Definition:* Post encased in concrete.

*Field Type:* Coded.

'Y' 'Yes'  
'N' 'No'

### Post Spacing

Variable Name: POST\_SPACING

*Definition:* Type of spacing between barrier posts (e.g., Normal).

*Field Type:* Text.

## Barrier File

---

### Priority System

Variable Name: PRIORITY\_SYSTEM

*Definition:* Priority system code for the highway section.

*Field Type:* Coded.

'G' General  
'P' Priority System'  
'U' 'Urban'

---

### Reflectors

Variable Name: REFLECTORS

*Definition:* Presence of reflectors on barrier run (e.g., Partial).

*Field Type:* Text.

---

### Responsible for Maintenance

Variable Name: MAINTAIN\_RESPONSIBLE

*Definition:* Maintenance responsibility.

*Field Type:* Coded.

'S' 'State'  
'C' 'County'  
'T' 'Township'  
'M' 'Municipality'  
'N' 'ODNR'  
'O' 'Other'

---

### Roadway Width

Variable Name: ROADWAY\_WIDTH\_NBR

*Definition:* Roadway width in feet (e.g., 24).

*Field Type:* Numeric.

---

### Rounded Buffer

Variable Name: ROUNDED\_BUFFER

*Definition:* Rounded end at the end of the guardrail.

*Field Type:* Coded.

'Y' 'Yes'  
'N' 'No'

## Barrier File

---

### Route ID

Variable Name: NLFID

*Definition:* Primary key field which allows ODOT's graphic roadway network geometric segments to be linked to business data attributes (e.g., SSTASR00043\*\*C).

*Field Type:* Text.

---

### Route Number

Variable Name: ROUTE\_NBR

*Definition:* Route number (e.g., 00260).

*Field Type:* Numeric.

---

### Route Suffix

Variable Name: ROUTE\_SUFFIX

*Definition:* Route suffix of the roadway segment the barrier is on.

*Field Type:* Text.

- 'A' 'Alternate'
- 'B' 'Bypass'
- 'C' 'Spur or Connector'
- 'D' 'Directional Alternate (1<sup>st</sup> within county)'
- 'E' 'East Bound'
- 'F' 'Directional Alternate (2<sup>nd</sup> within county)'
- 'G' 'Directional Alternate (3<sup>rd</sup> within county)'
- 'I' 'Interchange Roadway'
- 'J' 'Waiting for final disposition (abandonment or transfer)'
- 'K' 'Turnpike'
- 'N' 'North Bound'
- 'P' 'Proposed (not built)'
- 'S' 'South Bound'
- 'T' 'Temporary Route'
- 'W' 'West Bound'

---

### Route Type

Variable Name: ROUTE\_TYPE

*Definition:* The route type associated with the route.

*Field Type:* Coded.



## Barrier File

'BK'	'Bike Route (Trail)'
'CN'	'Connecting Road'
'CR'	'County Road'
'DD'	'Department of Defense Road'
'DR'	'Driveway'
'FR'	'Forest Road'
'FW'	'National Fish and Wildlife Road'
'IR'	'Interstate'
'MR'	'Municipal Street'
'NA'	'NASA Road'
'NP'	'National Park Service Road'
'NR'	'Natural Resources Road (Park Road)'
'PL'	'Parking Lot'
'RA'	'Ramp'
'RE'	'Rest Area Entry/Exit'
'RR'	'Rail Road Track'
'SR'	'State Route'
'TR'	'Township Road'
'US'	'United States Route'
'WS'	'Weigh Station Entry/Exit'
'XX'	'Unknown'

---

## Surface Type

Variable Name: SURFACE\_TYPE

*Definition:* Surface type of the segment the barrier is on.

*Field Type:* Coded.

'A'	'Combination Surface'
'B'	'Brick'
'C'	'Continuous Reinforced'
'D'	'Reinforced Concrete'
'E'	'Plain Concrete'
'G'	'Bituminous Concrete'
'I'	'Chip Seal on granular'
'K'	'Open Graded Bituminous'
'L'	'Chip Seal or micro'
'M'	'Gravel'
'U'	'Unimproved'

## Barrier File

'X' 'Right of Way only'

---

### Surface Width (Feet)

Variable Name: SURFACE\_WIDTH

*Definition:* Surface width in feet (e.g., 20).

*Field Type:* Numeric.

---

### Total AADT

Variable Name: AADT\_TOTAL

*Definition:* Total AADT (e.g., 128).

*Field Type:* Numeric.

---

### Township to the Left of the Road

Variable Name: LEFT\_TWP\_NAME

*Definition:* Township to the left of the road (e.g., BETHEL).

*Field Type:* Text.

---

### Township to the Right of the Road

Variable Name: RIGHT\_TWP\_NAME

*Definition:* Township to the right of the road (e.g., BETHEL).

*Field Type:* Text.

---

### Type of Glare Screen

Variable Name: GLARE\_SCREEN

*Definition:* Type of glare-reducing screen for incoming traffic (e.g., All).

*Field Type:* Text.

# Lighting File

---

## Bridge Mount

Variable Name: BRIDGE\_MOUNT

*Definition:* Indicator that light is mounted on a bridge.

*Field Type:* Coded.

'Y'    'Yes'  
'N'    'No'

---

## County

Variable Name: COUNTY

*Definition:* County in which the light is in (e.g., 'FRANKLIN').

*Field Type:* Text.

---

## County-Route Section

Variable Name: CRS

*Definition:* Unique identifier of the light made up of the 3-letter county code, the route number, and the milepost (e.g., LUC-75-4.069).

*Field Type:* Text.

---

## Latitude of Light

Variable Name: LATITUDE\_DD\_BEGIN

*Definition:* Latitude of light pole (e.g., 39.935933).

*Field Type:* Numeric.

---

## Lighting Type

Variable Name: LIGHTING\_TYPE

*Definition:* Type and location of lighting (e.g., 'Conventional').

*Field Type:* Text.

---

## Longitude of Light

Variable Name: LONGITUDE\_DD\_BEGIN

*Definition:* Longitude of light pole (e.g., -82.790018).

*Field Type:* Numeric.

## Lighting File

---

### Luminaire Type

Variable Name: LUMINAIRE\_TYPE

*Definition:* The type of lighting illumination fixture (e.g., 'LED').

*Field Type:* Text.

---

### Responsible for Maintenance

Variable Name: MAINTAIN\_RESPONSIBLE

*Definition:* The type of jurisdiction responsible for maintaining the light.

*Field Type:* Coded.

'C'	'County'
'M'	'Municipality'
'O'	'Other'
'P'	'Private'
'S'	'State'
'T'	'Township'

---

### Median Wall Mount

Variable Name: MEDIAN\_WALL\_MOUNT

*Definition:* Indicator that light is mounted on a median wall.

*Field Type:* Coded.

'Y'	'Yes'
'N'	'No'

---

### Milepost

Variable Name: MILEPOST

*Definition:* Milepost of the light. Can be used to locate the light on the LRS (e.g., 4.069).

*Field Type:* Numeric.

---

### Route ID

Variable Name: NLFID

*Definition:* Primary key field which allows ODOT's graphic roadway network geometric segments to be linked to business data attributes (e.g., 'SLUCIR00075\*\*C').

*Field Type:* Text.

## Lighting File

---

### Route Number

Variable Name: ROUTE\_NBR

*Definition:* 5-digit route number (e.g., 00075).

*Field Type:* Numeric.

---

### Status

Variable Name: STATUS

*Definition:* Status of the light, whether it is still active or has been retired.

*Field Type:* Coded.

'A'	'Active'
'R'	'Retired'

---

### Structure Mount

Variable Name: STRUCTURE\_MOUNT

*Definition:* Indicator that light is mounted on another type of structure.

*Field Type:* Coded.

'Y'	'Yes'
'N'	'No'

---

### Unique ID

Variable Name: HL\_FILE\_NUM

*Definition:* Unique file number of the light (e.g., 'HL0000002').

*Field Type:* Text.

# Bicycle Route File

## Bicycle Route File

---

### Begin Milepost

Variable Name: BEGIN\_MILEPOST

*Definition:* County log beginning number (e.g., 3.8383).

*Field Type:* Numeric.

---

### Bike Route ID

Variable Name: BIKE\_ROUTE\_ID

*Definition:* Bike route ID number (e.g., 'USBR 30').

*Field Type:* Text.

---

### Bike Route Total Width (Feet)

Variable Name: F\_WIDTH

*Definition:* Bike route total width in feet (e.g., 5).

*Field Type:* Numeric.

---

### Classification of Bike Route

Variable Name: FACILITY\_TYPE

*Definition:* Type of bike route.

*Field Type:* Coded.

'BBL'	'Buffered Bike Lane'
'BL'	'Bike Lane'
'CRS'	'Crossing'
'PS'	'Paved Shoulder'
'SBL'	'Separated Bike Lane'
'SL'	'Shared Lane'
'SUP'	'Shared Use Path'

---

### County

Variable Name: COUNTY

*Definition:* County (e.g., 'LAKE').

*Field Type:* Text.



## Bicycle Route File

### County Code

Variable Name: COUNTY\_CD

Definition: County code.

Field Type: Coded.

'ADA'	'Adams'	'HAR'	'Hardin'
'ALL'	'Allen'	'HAS'	'Harrison'
'ASD'	'Ashland'	'HEN'	'Henry'
'ATB'	'Ashtabula'	'HIG'	'Highland'
'ATH'	'Athens'	'HOC'	'Hocking'
'AUG'	'Auglaize'	'HOL'	'Holmes'
'BEL'	'Belmont'	'HUR'	'Huron'
'BRO'	'Brown'	'JAC'	'Jackson'
'BUT'	'Butler'	'JEF'	'Jefferson'
'CAR'	'Carroll'	'KNO'	'Knox'
'CHP'	'Champaign'	'LAK'	'Lake'
'CLA'	'Clark'	'LAW'	'Lawrence'
'CLE'	'Clermont'	'LIC'	'Licking'
'CLI'	'Clinton'	'LOG'	'Logan'
'COL'	'Columbiana'	'LOR'	'Lorain'
'COS'	'Coshocton'	'LUC'	'Lucas'
'CRA'	'Crawford'	'MAD'	'Madison'
'CUY'	'Cuyahoga'	'MAH'	'Mahoning'
'DAR'	'Darke'	'MAR'	'Marion'
'DEF'	'Defiance'	'MED'	'Medina'
'DEL'	'Delaware'	'MEG'	'Meigs'
'ERI'	'Erie'	'MER'	'Mercer'
'FAI'	'Fairfield'	'MIA'	'Miami'
'FAY'	'Fayette'	'MOE'	'Monroe'
'FRA'	'Franklin'	'MOT'	'Montgomery'
'FUL'	'Fulton'	'MRG'	'Morgan'
'GAL'	'Gallia'	'MRW'	'Morrow'
'GEA'	'Geauga'	'MUS'	'Muskingham'
'GRE'	'Greene'	'NOB'	'Noble'
'GUE'	'Guemsey'	'OTT'	'Ottawa'
'HAM'	'Hamilton'	'PAU'	'Paulding'
'HAN'	'Hancock'	'PER'	'Perry'

## Bicycle Route File

'PIC'	'Pickaway'	'SUM'	'Summit'
'PIK'	'Pike'	'TRU'	'Trumbull'
'POR'	'Portage'	'TUS'	'Tuscarawas'
'PRE'	'Preble'	'UNI'	'Union'
'PUT'	'Putnam'	'VAN'	'Van Wert'
'RIC'	'Richland'	'VIN'	'Vinton'
'ROS'	'Ross'	'WAR'	'Warren'
'SAN'	'Sandusky'	'WAS'	'Washington'
'SCI'	'Scioto'	'WAY'	'Wayne'
'SEN'	'Seneca'	'WIL'	'Williams'
'SHE'	'Shelby'	'WOO'	'Wood'
'STA'	'Stark'	'WAY'	'Wyandot'

---

## End Milepost

Variable Name: END\_MILEPOST

*Definition:* County log ending number (e.g., 4.1814).

*Field Type:* Numeric.

---

## Level of Traffic Stress

Variable Name: LTS

*Definition:* Level of traffic stress, measure of ease and safety of bikeway usage.

*Field Type:* Coded.

- '4' 'No bike lane on a busy street'
- '3' 'Narrow bike lane or shoulder on a busy street'
- '2' 'Buffered bike lane on a calm street'
- '1' 'Separated bike lane'

---

## Route ID

Variable Name: NLFID

*Definition:* LRS link (e.g., 'SLAKSR00283\*\*C').

*Field Type:* Text.

---

## Route Type

Variable Name: ROUTE\_TYPE

*Definition:* Route type of the segment the bike route is on.

*Field Type:* Text.

- 'AC' 'Army Corp of Engineers'
- 'AR' 'US Army Roads'
- 'BK' 'Bike Route (Trail)'
- 'CN' 'Connecting Road'
- 'CR' 'County Road'
- 'DD' 'Department of Defense Road'
- 'DE' 'Department of Energy'
- 'FR' 'Forest Road'
- 'FW' 'National Fish and Wildlife Road'
- 'IR' 'Interstate'

## Bicycle Route File

'MR'	'Municipal Street'
'NA'	'NASA Road'
'NP'	'National Park Service Road (Federal Park Road)'
'NR'	'Natural Resources Road (State Park Road)'
'NV'	'US Navy Road'
'RA'	'Ramp'
'RE'	'Rest Area Entry/Exit'
'RR'	'Rail Road Track'
'SP'	'Emergency Vehicle Turnaround (Spur)'
'SR'	'State Route'
'TR'	'Township Road'
'US'	'United States Route'
'WS'	'Weigh Station Entry/Exit'

---

### Name of Larger Trail Network

Variable Name: NAME2

*Definition:* Name of larger trail network, where applicable (e.g., 'Cleveland Lakefront Bikeway').

*Field Type:* Text.

---

### ODOT District Number

Variable Name: DISTRICT\_NBR

*Definition:* ODOT district number.

*Field Type:* Coded.

'1'	'District 1 – Lima'
'2'	'District 2 – Bowling Green'
'3'	'District 3 – Ashland'
'4'	'District 4 – Akron'
'5'	'District 5 – Jacksontown'
'6'	'District 6 – Delaware'
'7'	'District 7 – Sidney'
'8'	'District 8 – Lebanon'
'9'	'District 9 – Chillicothe'
'10'	'District 10 – Marietta'
'11'	'District 11 – New Philadelphia'
'12'	'District 12 – Garfield Heights'

## Bicycle Route File

---

### Organization Owning the Bike Route

Variable Name: FACILITY\_OWNER

*Definition:* Organization owning the bike route (e.g., 'Eastlake').

*Field Type:* Text.

---

### Type of Bike Route

Variable Name: BIKE\_ROUTE\_TYPE

*Definition:* Type of bike route ('State' vs. 'US').

*Field Type:* Code.

'SBR' 'State Bike Route'

'USBR' 'United States Bike Route'

---

### Bike Route Owner

Variable Name: OWNER\_TYPE

*Definition:* Type of organization owning the bike route (e.g., 'city').

*Field Type:* Text.

---

### Route Number

Variable Name: ROUTE\_NBR

*Definition:* Route number of the segment the bike route is along (e.g., 00283).

*Field Type:* Numeric.

---

### Route Status

Variable Name: ROUTE\_STATUS

*Definition:* Route status (e.g., 'Active Designation').

*Field Type:* Text.

---

### Trail Name

Variable Name: NAME

*Definition:* Most granular-level trail name (e.g., 'Whiskey Island Connector').

*Field Type:* Text.

# Crash File

## Crash File

---

### Access Control

Variable Name: ACCESS\_CONTROL

*Definition:* Access control at the location of the crash.

*Field Type:* Coded.

'1'	'Full Access Control'
'2'	'Partial Access Control'
'3'	'No Access Control'

---

### Contour of Roadway

Variable Name: ROAD\_CONTOUR\_CD

*Definition:* The contour of the road where the crash occurred.

*Field Type:* Coded.

'1'	'Straight Level'
'2'	'Straight Grade'
'3'	'Curve Level'
'4'	'Curve Grade'
'9'	'Other/Unknown'

---

### County Code

Variable Name: COUNTY\_CD

*Definition:* County where the crash occurred.

*Field Type:* Code.

## Crash File

'ADA'	'Adams'	'HUR'	'Huron'
'ALL'	'Allen'	'JAC'	'Jackson'
'ASD'	'Ashland'	'JEF'	'Jefferson'
'ATB'	'Ashtabula'	'KNO'	'Knox'
'ATH'	'Athens'	'LAK'	'Lake'
'AUG'	'Auglaize'	'LAW'	'Lawrence'
'BEL'	'Belmont'	'LIC'	'Licking'
'BRO'	'Brown'	'LOG'	'Logan'
'BUT'	'Butler'	'LOR'	'Lorain'
'CAR'	'Carroll'	'LUC'	'Lucas'
'CHP'	'Champaign'	'MAD'	'Madison'
'CLA'	'Clark'	'MAH'	'Mahoning'
'CLE'	'Clermont'	'MAR'	'Marion'
'CLI'	'Clinton'	'MED'	'Medina'
'COL'	'Columbiana'	'MEG'	'Meigs'
'COS'	'Coshocton'	'MER'	'Mercer'
'CRA'	'Crawford'	'MIA'	'Miami'
'CUY'	'Cuyahoga'	'MOE'	'Monroe'
'DAR'	'Darke'	'MOT'	'Montgomery'
'DEF'	'Defiance'	'MRG'	'Morgan'
'DEL'	'Delaware'	'MRW'	'Morrow'
'ERI'	'Erie'	'MUS'	'Muskingham'
'FAI'	'Fairfield'	'NOB'	'Noble'
'FAY'	'Fayette'	'OTT'	'Ottawa'
'FRA'	'Franklin'	'PAU'	'Paulding'
'FUL'	'Fulton'	'PER'	'Perry'
'GAL'	'Gallia'	'PIC'	'Pickaway'
'GEA'	'Geauga'	'PIK'	'Pike'
'GRE'	'Greene'	'POR'	'Portage'
'GUE'	'Guemsey'	'PRE'	'Preble'
'HAM'	'Hamilton'	'PUT'	'Putnam'
'HAN'	'Hancock'	'RIC'	'Richland'
'HAR'	'Hardin'	'ROS'	'Ross'
'HAS'	'Harrison'	'SAN'	'Sandusky'
'HEN'	'Henry'	'SCI'	'Scioto'
'HIG'	'Highland'	'SEN'	'Seneca'
'HOC'	'Hocking'	'SHE'	'Shelby'
'HOL'	'Holmes'	'STA'	'Stark'



## Crash File

'SUM'	'Summit'	'WAR'	'Warren'
'TRU'	'Trumbull'	'WAS'	'Washington'
'TUS'	'Tuscarawas'	'WAY'	'Wayne'
'UNI'	'Union'	'WIL'	'Williams'
'VAN'	'Van Wert'	'WOO'	'Wood'
'VIN'	'Vinton'	'WAY'	'Wyandot'

---

## Crash Date

Variable Name: CRASH\_DATE

*Definition:* Date and time when the accident occurred. (e.g., 12/13/2019 6:14:00 AM).

*Field Type:* Date.

---

## Crash Severity

Variable Name: CRASH\_SEVERITY\_CD

*Definition:* The most severe injury in the crash.

*Field Type:* Coded.

'1'	'Fatal'
'2'	'Serious Injury Suspected'
'3'	'Minor Injury Suspected'
'4'	'Injury Possible'
'5'	'Property Damage Only'

---

## Crash Year

Variable Name: CRASH\_YR

*Definition:* Year accident occurred (e.g., 2019).

*Field Type:* Numeric.

---

## Day of Week

Variable Name: DAY\_IN\_WEEK\_CD

*Definition:* Day of week when the crash occurred.

*Field Type:* Coded.

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

### Direction from Reference

Variable Name: ODOT\_DIR\_FROM\_REF\_CD

*Definition:* Direction from reference road or feature to where crash occurred.

*Field Type:* Coded.

'E'	'East'
'N'	'North'
'S'	'South'
'W'	'West'

## Crash File

---

### Distance Offset

Variable Name: ODOT\_MILES\_FROM\_REF\_NBR

*Definition:* Distance from reference road or feature to the crash location (e.g., 0.011).

*Field Type:* Numeric.

---

### District

Variable Name: DISTRICT\_NBR

*Definition:* District where the crash occurred.

*Field Type:* Coded.

'1'	'District 1 – Lima'
'2'	'District 2 – Bowling Green'
'3'	'District 3 – Ashland'
'4'	'District 4 – Akron'
'5'	'District 5 – Jacksontown'
'6'	'District 6 – Delaware'
'7'	'District 7 – Sidney'
'8'	'District 8 – Lebanon'
'9'	'District 9 – Chillicothe'
'10'	'District 10 – Marietta'
'11'	'District 11 – New Philadelphia'
'12'	'District 12 – Garfield Heights'

---

### Divided/Undivided Road Identification

Variable Name: DIVIDED\_HWY\_IND

*Definition:* Design of the roadway where the crash occurred.

*Field Type:* Coded.

'Y'	'Divided'
'N'	'Not Divided'

---

### Document Number

Variable Name: DOCUMENT\_NBR

*Definition:* Unique identifier of the crash. This is the linking variable to the Unit and Person files (e.g., 20193272697).

*Field Type:* Numeric.

## Freeway / Non-Freeway Indicator

Variable Name: FREEWAY\_IND

*Definition:* Indicates whether a crash occurred on a freeway or non-freeway.

*Field Type:* Coded.

'Y'	'Yes'
'N'	'No'

## Functional Classification

Variable Name: FUNCTIONAL\_CLASS

*Definition:* Roadway functional classification where crash occurred.

*Field Type:* Coded.

'1'	'Interstate Route'
'2'	'Other Freeways or Expressways'
'3'	'Other Principal Arterial Roads'
'4'	'Minor Arterial Roads'
'5'	'Major Collector Roads'
'6'	'Minor Collector Roads'
'7'	'Local Roads'

## Hour of Day

Variable Name: HOUR\_OF\_CRASH

*Definition:* Hour at which the crash has occurred (e.g., 6).

*Field Type:* Numeric.

## Interstate Highway Indicator

Variable Name: INTERSTATE\_IND

*Definition:* Indicates whether crash occurred on interstate.

*Field Type:* Coded.

'Y'	'Yes'
'N'	'No'

## Inventory Route ID

Variable Name: INV\_NLFID

*Definition:* Variable to link crashes to the inventory side of the LRS. (e.g., 'CSHECR00018\*\*C').

*Field Type:* Text.

## Jurisdiction

Variable Name: JURISDICTION

*Definition:* Indicates the primary agency responsible for the site.

*Field Type:* Coded.

'C'	'County'
'F'	'Federal'
'M'	'Municipal'
'P'	'Private'
'S'	'State'
'T'	'Township'

## Light Condition

Variable Name: LIGHT\_COND\_PRIMARY\_CD

*Definition:* The type/level of light that existed at the time of the crash.

*Field Type:* Coded.

'1'	'Daylight'
'2'	'Dawn/Dusk'
'3'	'Dark – Lighted Roadway'
'4'	'Dark – Roadway Not Lighted'
'5'	'Dark – Unknown Roadway Lighting'
'9'	'Other/Unknown'

## Local Report Number

Variable Name: LOCAL\_REPORT\_NUMBER\_ID

*Definition:* Local report number of the crash (e.g., '19O22413').

*Field Type:* Text.

## Locality

Variable Name: ODOT\_CITY\_VILLAGE\_TWP\_CD

*Definition:* Type of locality the crash occurred in.

*Field Type:* Coded.

'1'	'City'
'2'	'Village'
'3'	'Township'

## Milepost

Variable Name: MILEPOST

*Definition:* Reference point where the crash occurred on the inventory side of the road (e.g., 29.4).

*Field Type:* Numeric.

## National Highway System Indicator

Variable Name: NHS\_CD

*Definition:* Whether this roadway section is part of the National Highway System (NHS).

*Field Type:* Coded.

'N'	'NHS (Regular)'
'H'	'Congressional Corridors'
'S'	'Strahnet'
'C'	'Strahnet Connectors'
'2'	'Major Airport'
'3'	'Major Port Facility'
'4'	'Major Amtrak Station'
'5'	'Major Rail/Truck Terminal'
'6'	'Major Intercity Bus Terminal'
'7'	'Mj Pub Tran / Mul-Mdl Pas Ter'
'8'	'Major Pipeline Terminal'
'9'	'Major Ferry Terminal'
' '	'Not Coded'

## Number of Lanes

Variable Name: LANES\_NBR

*Definition:* Total number of lanes – total for both directions (e.g., 2).

*Field Type:* Numeric.

## Number of Pedestrians

Variable Name: NUM\_PEDESTRIANS

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

*Field Type:* Numeric.

## Number of Units

Variable Name: NUMBER\_OF\_UNITS\_NBR

*Definition:* Number of vehicles involved in the crash (e.g., 3).

*Field Type:* Numeric.

## Pedestrians Injured

Variable Name: PED\_TOTAL\_INJURED\_NBR

*Definition:* Number of pedestrians injured in the crash (e.g., 1).

*Field Type:* Numeric.

## Pedestrians Killed

Variable Name: PED\_FATALITIES\_NBR

*Definition:* Number of pedestrians killed in the crash (e.g., 1).

*Field Type:* Numeric.

## Road Condition

Variable Name: ROAD\_COND\_PRIMARY\_CD

*Definition:* The condition of the road surface where the crash occurred.

*Field Type:* Coded.

'1'	'Dry'
'2'	'Wet'
'3'	'Snow'
'4'	'Ice'
'5'	'Sand, Mid, Dirt, Oil, Gravel'
'6'	'Water (Standing, Moving)'
'7'	'Slush'
'9'	'Other/Unknown'

## Roadway Class\*

Variable Name: RODWYCLS

*Definition:* 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*, *Median Type*, and *Functional Class* variables, and Census Urban Places data. (e.g., 'Rural 2 Lane Roads').

\*Variable created or edited by HSIS Lab



## Crash File

*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

---

### Route ID

**Variable Name:** NLFID

*Definition:* Variable to link crashes to an LRS segment. (e.g., 'CSHECR00018\*\*C').

*Field Type:* Text.

---

### Route Number

**Variable Name:** ROUTE\_NBR

*Definition:* The number of the route where the crash occurred (e.g., '00351').

*Field Type:* Text.

---

### Street At/Cross Route

**Variable Name:** CROSS\_ROUTE\_NLFID

*Definition:* Route ID of crossing route or street where crash occurred (e.g., 'TMIATR01134\*\*C').

*Field Type:* Text.

---

### Street On

**Variable Name:** ODPS\_LOC\_ROAD\_NME

*Definition:* Street/route name where crash occurred (e.g., 'MASON MONTGOMERY').

*Field Type:* Text.

---

### Total Fatalities

Variable Name: ODPS\_TOTAL\_FATALITIES\_NBR

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

*Field Type:* Numeric.

---

### Total Non-Injuries

Variable Name: NO\_INJURY\_REPORTED\_NBR

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

*Field Type:* Numeric.

---

### Total Possible Injuries

Variable Name: POSSIBLE\_INJURIES\_NBR

*Definition:* Total possible injuries (C level) in the crash (e.g., 0).

*Field Type:* Numeric.

---

### Total Suspected Minor Injuries

Variable Name: NON\_INCAPAC\_INJURIES\_NBR

*Definition:* Total suspected minor injuries (B level) in the crash (e.g., 2).

*Field Type:* Numeric.

---

### Total Suspected Serious Injuries

Variable Name: INCAPAC\_INJURIES\_NBR

*Definition:* Total suspected serious injuries (A level) in the crash (e.g., 2).

*Field Type:* Numeric.

---

### Type of Crash (First Harmful Event)

Variable Name: U1\_FIRST\_HARMFUL\_CD

*Definition:* First harmful even in the crash sequence.

*Field Type:* Coded.

'01'	'Overturn/Rollover'
'02'	'Fire/Explosion'
'03'	'Immersion'
'04'	'Jackknife'

## Crash File

'05'	'Cargo/Equipment Loss or Shift'
'06'	'Equipment Failure'
'07'	'Separation of Units'
'08'	'Ran off Road Right'
'09'	'Ran off Road Left'
'10'	'Cross Median'
'11'	'Cross Centerline – Opposite Direction of Travel'
'12'	'Downhill Runaway'
'13'	'Other Non-Collision'
'14'	'Pedestrian'
'15'	'Pedalcycle'
'16'	'Railway Vehicle'
'17'	'Animal – Farm'
'18'	'Animal – Deer'
'19'	'Animal – Other'
'20'	'Motor Vehicle on Transport'
'21'	'Parked Motor Vehicle'
'22'	'Work Zone Maintenance Equipment'
'23'	'Struck By Falling, Shifting Cargo or Anything Set in Motion by a Motor Vehicle'
'24'	'Other Moveable Object'
'25'	'Impact Attenuator/Crash Cushion'
'26'	'Bridge Overhead Structure'
'27'	'Bridge Pier or Abutment'
'28'	'Bridge Parapet'
'29'	'Bridge Rail'
'30'	'Guardrail Face'
'31'	'Guardrail End'
'32'	'Portable Barrier'
'33'	'Median Cable Barrier'
'34'	'Median Guardrail Barrier'
'35'	'Median Concrete Barrier'
'36'	'Median Other Barrier'
'37'	'Traffic Sign Post'
'38'	'Overhead Sign Post'
'39'	'Light/Luminaries Support'
'40'	'Utility pole'
'41'	'Other Post, Pole or Support'
'42'	'Culvert'
'43'	'Curb'
'44'	'Ditch'
'45'	'Embankment'

## Crash File

'46'	'Fence'
'47'	'Mailbox'
'48'	'Tree'
'49'	'Fire Hydrant'
'50'	'Work Zone Maintenance Equipment'
'51'	'Wall'
'52'	'Building'
'53'	'Tunnel'
'54'	'Other Fixed Object'
'99'	'Other/Unknown'

---

## Weather Condition

Variable Name: WEATHER\_COND\_CD

*Definition:* Weather conditions when the crash occurred.

*Field Type:* Coded.

'1'	'Clear'
'2'	'Cloudy'
'3'	'Fog, Smog, Smoke'
'4'	'Rain'
'5'	'Sleet, Hail'
'6'	'Snow'
'7'	'Severe Crosswinds'
'8'	'Blowing Sand, Soil, Dirt, Snow'
'9'	'Freezing Rain or Freezing Drizzle'
'99'	'Other/Unknown'

# Unit File

### Cargo Body Type

Variable Name: CARGO\_BODY\_TYPE\_CD

*Definition:* The type of the cargo body for this vehicle if it qualifies.

*Field Type:* Coded.

'1'	'No Cargo Body Type/Not Applicable'
'2'	'Bus '
'3'	'Vehicle Towing Another Motor Vehicle'
'4'	'Logging'
'5'	'Intermodal Container Chassis'
'6'	'Cargo Van/Enclosed Box'
'7'	'Grain/Chips/Gravel'
'8'	'Pole'
'9'	'Cargo Tank'
'10'	'Flat Bed'
'11'	'Dump'
'12'	'Concrete Mixer'
'13'	'Auto Transporter'
'14'	'Garbage/Refuse'
'99'	'Other/Unknown'

### Contributing Factor of Vehicle

Variable Name: CONT\_CIR\_PRIMARY\_CD

*Definition:* Vehicle-related factor contributing to the crash.

*Field Type:* Coded.

'1'	'None'
'2'	'Failure to Yield'
'3'	'Ran Red Light'
'4'	'Ran Stop Sign'
'5'	'Unsafe Speed'
'6'	'Improper Turn'
'7'	'Left of Center'
'8'	'Followed Too Closely/ACDA'
'9'	'Improper Lane Change'
'10'	'Improper Passing'
'11'	'Drove Off Road'

## Unit File

'12'	'Improper Backing'
'13'	'Improper Start from a Parked Position'
'14'	'Stopped or Parked Illegally'
'15'	'Swerving to Avoid'
'16'	'Wrong Way'
'17'	'Vision Obstruction'
'18'	'Operating Defective Equipment'
'19'	'Load Shifting/Falling/Spilling'
'20'	'Improper Crossing'
'21'	'Lying in Roadway'
'22'	'Not Discernible'
'23'	'Opening Door Into Roadway'
'99'	'Other Improper Action'

---

### Crash Year

Variable Name: CRASH\_YR

*Definition:* Year crash occurred.

*Field Type:* Numeric.

---

### Document Number

Variable Name: DOCUMENT\_NBR

*Definition:* Unique identifier of the crash. This is the linking variable to the Crash and Person files (e.g., 20193272697).

*Field Type:* Numeric.

---

### First Harmful Event

Variable Name: FIRST\_HARMFUL\_SEQ\_NBR

*Definition:* Matches the sequence of events as it occurs in the data.

*Field Type:* Coded.

'1'	'SEQ_OF_EVENT_1_CD'
'2'	'SEQ_OF_EVENT_2_CD'
'3'	'SEQ_OF_EVENT_3_CD'
'4'	'SEQ_OF_EVENT_4_CD'

## Unit File

---

### Hazardous Material Placard

Variable Name: HAZ\_MAT\_PLACARD\_IND

*Definition:* Whether the vehicle had a hazardous material placard.

*Field Type:* Coded.

'N'	'No'
'Y'	'Yes'

---

### Hazardous Material Released

Variable Name: HAZ\_MAT\_RELEASED\_IND

*Definition:* Whether or not hazardous material was released from this vehicle when the crash occurred.

*Field Type:* Coded.

'N'	'No'
'Y'	'Yes'

---

### In Emergency Response

Variable Name: IN\_EMERGENCY\_RESPONSE

*Definition:* Whether emergency response was required for the occupants of this vehicle.

*Field Type:* Coded.

'N'	'No'
'Y'	'Yes'

---

### Make Of Vehicle

Variable Name: VEHICLE\_MAKE

*Definition:* Make of this vehicle (e.g., 'Ford').

*Field Type:* Text.

---

### Model of Vehicle

Variable Name: VEHICLE\_MODEL

*Definition:* Model of this motor vehicle (e.g., 'F-150').

*Field Type:* Text.



### Most Harmful Event

Variable Name: MOST\_HARMFUL\_CD

*Definition:* Most harmful event in the crash sequence for this vehicle.

*Field Type:* Coded.

- '1' 'Overturn/Rollover'
- '2' 'Fire/Explosion'
- '3' 'Immersion'
- '4' 'Jackknife'
- '5' 'Cargo/Equipment Loss/Shift'
- '6' 'Equipment Failure'
- '7' 'Separation of Units'
- '8' 'Ran Off Road Right'
- '9' 'Ran Off Road Left'
- '10' 'Cross Median'
- '11' 'Cross Centerline - Opposite Direction of Travel'
- '12' 'Downhill Runaway'
- '13' 'Other Non-Collision'
- '14' 'Pedestrian'
- '15' 'Pedalcycle'
- '16' 'Railway Vehicle'
- '17' 'Animal – Farm'
- '18' 'Animal – Deer'
- '19' 'Animal – Other'
- '20' 'Motor Vehicle In Transport'
- '21' 'Parked Motor Vehicle'
- '22' 'Work Zone Maintenance Equipment'
- '23' 'Struck by Falling, Shifting Cargo, Or Anything Set in Motion by a Motor Vehicle'
- '24' 'Other Movable Object'
- '25' 'Impact Attenuator/Crash Cushion'
- '26' 'Bridge Overhead Structure'
- '27' 'Bridge Pier or Abutment'
- '28' 'Bridge Parapet'
- '29' 'Bridge Rail'
- '30' 'Guardrail Face'
- '31' 'Guardrail End'
- '32' 'Portable Barrier'

## Unit File

'33'	'Median Cable Barrier'
'34'	'Median Guardrail Barrier'
'35'	'Median Concrete Barrier'
'36'	'Median Other Barrier'
'37'	'Traffic Sign Post'
'38'	'Overhead Sign Post'
'39'	'Light/Luminaries Support'
'40'	'Utility Pole'
'41'	'Other Post, Pole or Support'
'42'	'Culvert'
'43'	'Curb'
'44'	'Ditch'
'45'	'Embankment'
'46'	'Fence'
'47'	'Mailbox'
'48'	'Tree'
'49'	'Fire Hydrant'
'50'	'Work Zone Maintenance Equipment'
'51'	'Wall'
'52'	'Building'
'53'	'Tunnel'
'54'	'Other Fixed Object'
'99'	'Other/Unknown'

---

### Non-Motorist Location

Variable Name: NON\_MOTORIST\_LOC\_CD

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

*Field Type:* Coded.

'1'	'Intersection – Marked Crosswalk'
'2'	'Intersection – Unmarked Crosswalk'
'3'	'Intersection - Other'
'4'	'Midblock – Marked Crosswalk'
'5'	'Travel Lane – Other Location'
'6'	'Bicycle Lane'
'7'	'Shoulder/Roadside'

## Unit File

'8'	'Sidewalk'
'9'	'Median/Crossing Island'
'10'	'Driveway Access'
'11'	'Shared Used Paths or Trails'
'12'	'First Responder at Incident Scene'
'99'	'Other/Unknown'

---

### Number of Occupants

Variable Name: NUMBER\_OF\_OCCUPANTS\_NBR

*Definition:* Number of occupants in this vehicle.

*Field Type:* Numeric.

---

### Pre-Crash Actions

Variable Name: PRECRASH\_ACTION\_CD

*Definition:* Pre-crash action of the vehicle or non-motorist.

*Field Type:* Coded.

'1'	'Straight Ahead'
'2'	'Backing'
'3'	'Changing Lanes'
'4'	'Overtaking/Passing'
'5'	'Making Right Turn'
'6'	'Making Left Turn'
'7'	'Making U-Turn'
'8'	'Entering Traffic Lane'
'9'	'Leaving Traffic Lane'
'10'	'Parked'
'11'	'Slowing or Stopped in Traffic'
'12'	'Driverless'
'13'	'Negotiating a Curve'
'14'	'Entering or Crossing Specified Location'
'15'	'Walking, Running, Jogging, Playing'
'16'	'Working'
'17'	'Pushing Vehicle'
'18'	'Approaching or Leaving Vehicle'

## Unit File

'19'	'Standing'
'20'	'Other Non-Motorist'
'21'	'Standing Outside Disabled Vehicle'
'99'	'Other/Unknown'

---

## Point of Impact

Variable Name: IMPACT\_AREA

*Definition:* Point of impact for this vehicle at the crash.

*Field Type:* Coded.

### Motor Vehicles

'0'	'No Damage'
'1'	'Front Right'
'2'	'Middle-Front Right'
'3'	'Middle Right'
'4'	'Middle-Back Right'
'5'	'Rear Right'
'6'	'Rear Center'
'7'	'Rear Left'
'8'	'Middle-Rear Left'
'9'	'Middle Left'
'10'	'Middle-Front Left'
'11'	'Front Left'
'12'	'Front Center'
'13'	'Top'
'14'	'Undercarriage'
'15'	'Vehicle Not At Scene'
'99'	'Unknown'

### Non-Motorists/Non-Motor Vehicles

'3'	'Right'
'6'	'Back'
'9'	'Left'
'12'	'Front'

### Posted Speed Limit

Variable Name: POSTED\_SPEED\_NBR

*Definition:* Speed limit of the road traveled by the vehicle in miles per hour.

*Field Type:* Numeric.

### Sequence of Events 1

Variable Name: SEQ\_OF\_EVENTS\_1\_CD

### Sequence of Events 2

Variable Name: SEQ\_OF\_EVENTS\_2\_CD

### Sequence of Events 3

Variable Name: SEQ\_OF\_EVENTS\_3\_CD

### Sequence of Events 4

Variable Name: SEQ\_OF\_EVENTS\_4\_CD

*Definition:* First, second, third, and fourth event in the crash sequence of this vehicle.

*Field Type:* Coded.

- '1' 'Overturn/Rollover'
- '2' 'Fire/Explosion'
- '3' 'Immersion'
- '4' 'Jackknife'
- '5' 'Cargo/Equipment Loss/Shift'
- '6' 'Equipment Failure'
- '7' 'Separation Of Units'
- '8' 'Ran Off Road Right'
- '9' 'Ran Off Road Left'
- '10' 'Cross Median'
- '11' 'Cross Centerline - Opposite Direction of Travel'
- '12' 'Downhill Runaway'
- '13' 'Other Non-Collision'
- '14' 'Pedestrian'
- '15' 'Pedalcycle'
- '16' 'Railway Vehicle'
- '17' 'Animal – Farm'
- '18' 'Animal – Deer'
- '19' 'Animal – Other'
- '20' 'Motor Vehicle In Transport'
- '21' 'Parked Motor Vehicle'
- '22' 'Work Zone Maintenance Equipment'
- '23' 'Struck by Falling, Shifting Cargo, Or Anything Set in Motion by a Motor Vehicle'

## Unit File

- '24' 'Other Movable Object'
- '25' 'Impact Attenuator/Crash Cushion'
- '26' 'Bridge Overhead Structure'
- '27' 'Bridge Pier Or Abutment'
- '28' 'Bridge Parapet'
- '29' 'Bridge Rail'
- '30' 'Guardrail Face'
- '31' 'Guardrail End'
- '32' 'Portable Barrier'
- '33' 'Median Cable Barrier'
- '34' 'Median Guardrail Barrier'
- '35' 'Median Concrete Barrier'
- '36' 'Median Other Barrier'
- '37' 'Traffic Sign Post'
- '38' 'Overhead Sign Post'
- '39' 'Light/Luminaries Support'
- '40' 'Utility Pole'
- '41' 'Other Post, Pole or Support'
- '42' 'Culvert'
- '43' 'Curb'
- '44' 'Ditch'
- '45' 'Embankment'
- '46' 'Fence'
- '47' 'Mailbox'
- '48' 'Tree'
- '49' 'Fire Hydrant'
- '50' 'Work Zone Maintenance Equipment'
- '51' 'Wall'
- '52' 'Building'
- '53' 'Tunnel'
- '54' 'Other Fixed Object'
- '99' 'Other/Unknown'

---

### Speed Detected

Variable Name: SPEED\_DETECTED

*Definition:* The method used for estimating vehicle travel speed.

## Unit File

*Field Type:* Coded.

'1'	'Stated/Estimated Speed'
'2'	'Calculated/EDR'
'3'	'Undetermined'

---

### Striking/Struck

Variable Name: COLLISION\_ACTION\_CD

*Definition:* Action of the unit during the crash.

*Field Type:* Coded.

'1'	'Non-Contact'
'2'	'Non-Collision'
'3'	'Striking'
'4'	'Struck'
'5'	'Both Striking & Struck'
'9'	'Other/Unknown'

---

### Traffic Control of Vehicle

Variable Name: TRAFFIC\_CONTROL\_CD

*Definition:* Traffic control devices for the roadway being traveled by this vehicle.

*Field Type:* Coded.

'1'	'Roundabout'
'2'	'Signal'
'3'	'Flasher'
'4'	'Stop Sign'
'5'	'Yield Sign'
'6'	'No Control'

---

### Truck/Bus Weight

Variable Name: WEIGHT\_CLASS\_GVWR

*Definition:* Weight class of the truck/bus.

*Field Type:* Coded.

'1'	'Less than or Equal to 10,000 Pounds'
-----	---------------------------------------

## Unit File

- '2' '10,001 to 26,000 Pounds'
- '3' 'Greater than 26,000 Pounds'

---

## Unit Number

Variable Name: UNIT\_NBR

*Definition:* Unique identifier of the vehicle or non-motorist.

*Field Type:* Numeric.

---

## Vehicle Damage Scale

Variable Name: DAMAGE\_SCALE

*Definition:* The severity of the damage to this vehicle.

*Field Type:* Coded.

- '1' 'None'
- '2' 'Minor Damage'
- '3' 'Functional Damage'
- '4' 'Disabling Damage'
- '9' 'Unknown'

---

## Vehicle Insured

Variable Name: ODPS\_PROOF\_OF\_INSURANCE\_SHOWN

*Definition:* Whether this vehicle was insured.

*Field Type:* Coded.

- 'Y' 'Yes'
- 'N' 'No'

---

## Vehicle Model Year

Variable Name: VEHICLE\_YEAR

*Definition:* Model year of this vehicle.

*Field Type:* Numeric.



## Unit File

---

### Vehicle/Non-Motorist Direction Variable Name: ODPS\_DIRECTION\_FROM\_CD

*Definition:* The direction from which the vehicle of non-motorist was traveling.

*Field Type:* Coded.

'1'	'North'
'2'	'South'
'3'	'East'
'4'	'West'
'5'	'NE'
'6'	'NW'
'7'	'SE'
'8'	'SW'
'9'	'Unknown'

---

### Vehicle/Non-Motorist Direction To Variable Name: ODPS\_DIRECTION\_TO\_CD

*Definition:* The direction to which this vehicle or non-motorist was traveling.

*Field Type:* Coded.

'1'	'North'
'2'	'South'
'3'	'East'
'4'	'West'
'5'	'NE'
'6'	'NW'
'7'	'SE'
'8'	'SW'
'9'	'Unknown'

---

### Vehicle Condition

Variable Name: VEHICLE\_DEFECTS

*Definition:* Type of defects that the vehicle has, if any.

*Field Type:* Coded.

'1'	'Turn Signals'
-----	----------------

## Unit File

'2'	'Head Lamps'
'3'	'Tail Lamps'
'4'	'Brakes'
'5'	'Steering'
'6'	'Tire Blowout'
'7'	'Worn or Slick Tires'
'8'	'Trailer Equipment Defective'
'9'	'Motor Trouble'
'10'	'Disabled From Prior Accident'
'99'	'Other/Unknown'

---

## Vehicle Type

Variable Name: TYPE\_OF\_UNIT\_CD

*Definition:* Type of vehicle involved in the crash.

*Field Type:* Coded.

'1'	'Passenger Car'
'2'	'Passenger Van (Minivan)'
'3'	'Sport Utility Vehicle'
'4'	'Pick Up'
'5'	'Cargo Van'
'6'	'Van (9-15 Seats)'
'7'	'Motorcycle 2-Wheeled'
'8'	'Motorcycle 3-Wheeled'
'9'	'Autocycle'
'10'	'Moped or Motorized Bicycle'
'11'	'All Terrain Vehicle (ATV/UTV)'
'12'	'Golf Cart'
'13'	'Snowmobile'
'14'	'Single Unit Truck'
'15'	'Semi-Tractor'
'16'	'Farm Equipment'
'17'	'Motorhome'
'18'	'Limo (Livery Vehicle)'
'19'	'Bus (16+ Passengers)'
'20'	'Other Vehicle'

## Unit File

- '21' 'Heavy Equipment'
- '22' 'Animal with Rider or Animal-Drawn Vehicle'
- '23' 'Pedestrian/Skater'
- '24' 'Wheelchair (Any Type)'
- '25' 'Other Non-Motorist'
- '26' 'Bicycle'
- '27' 'Train'
- '99' 'Unknown or Hit/Skip'

# Person File

## Person File

### Airbag Deployment

Variable Name: AIR\_BAG\_USAGE

*Definition:* Whether the airbag for this occupant deployed in the crash.

*Field Type:* Coded.

'1'	'Not-Deployed'
'2'	'Deployed-Front'
'3'	'Deployed-Side'
'4'	'Deployed Both Front/Side'
'5'	'Not Applicable'
'6'	'Unknown'

### Alcohol Involved

Variable Name: ODPS\_IS\_ALCOHOL\_SUSPECTED

*Definition:* Indicator that alcohol involvement is suspected in the crash.

*Field Type:* Coded.

'Y'	'Yes'
'N'	'No'

### Alcohol Test Status

Variable Name: ALCOHOL\_TEST\_STATUS

*Definition:* Status of the chemical alcohol test for this driver.

*Field Type:* Coded.

'1'	'None Given'
'2'	'Test Refused'
'3'	'Test Given, Contaminated Sample/Unusable'
'4'	'Test Given, Results Known'
'5'	'Test Given, Results Unknown'

### Alcohol Test Type

Variable Name: ALCOHOL\_TEST\_TYPE

*Definition:* Indicates specimen type for alcohol test performed.

*Field Type:* Coded.

'1'	'None'
-----	--------

## Person File

'2'	'Blood'
'3'	'Urine'
'4'	'Breath'
'5'	'Other'

---

### Citation Given

Variable Name: CITATION\_GIVEN

*Definition:* Indicator that a citation was issued (e.g., 'Yes').

*Field Type:* Text.

---

### Citation Local Code

Variable Name: CITATION\_LOCAL\_CODE\_IND

*Definition:* Indicator that a local citation was issued.

*Field Type:* Coded

'Y'	'Yes'
'N'	'No'

---

### Document Number

Variable Name: DOCUMENT\_NBR

*Definition:* Unique identifier of the crash. This is the linking variable to the Unit and Crash files (e.g., 20195009827).

*Field Type:* Numeric.

---

### Driver License State

Variable Name: DRIVER\_LICENCE\_ISSUE\_STATE

*Definition:* State of the driving license for this driver (e.g., 'OH').

*Field Type:* Text.

---

### Drug Test Status

Variable Name: DRUG\_TEST\_STATUS

*Definition:* Drug test status for this driver.

*Field Type:* Coded.

'1'	'None Given'
-----	--------------

## Person File

'2'	'Test Refused'
'3'	'Test Given, Contaminated Sample/Unusable'
'4'	'Test Given, Results Known'
'5'	'Test Given, Results Unknown'

---

### Drug Test Type

Variable Name: DRUG\_TEST\_TYPE

*Definition:* Drug test type used for this driver.

*Field Type:* Coded.

'1'	'None'
'2'	'Blood'
'3'	'Urine'
'4'	'Other'

---

### Drug Test 1 Result

Variable Name: ODPS\_DRUG\_TEST\_RESULT\_1

*Definition:* Drug test results for the person

*Field Type:* Coded.

'1'	'Amphetamines'
'2'	'Barbiturates'
'3'	'Benzodiazepines'
'4'	'Cannabinoids'
'5'	'Cocaine'
'6'	'Opiates/Opioids'
'7'	'Other'
'8'	'Negative Results'

---

### Drug Test 2 Result

Variable Name: ODPS\_DRUG\_TEST\_RESULT\_2

*Definition:* Drug test results for this occupant (e.g., 7).

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

*Field Type:* Coded.

'1'	'Amphetamines'
-----	----------------

## Person File

'2'	'Barbiturates'
'3'	'Benzodiazepines'
'4'	'Cannabinoids'
'5'	'Cocaine'
'6'	'Opiates/Opioids'
'7'	'Other'
'8'	'Negative Results'

---

## Ejected From Vehicle

Variable Name: EJECTION

*Definition:* Type of ejection for the person when the crash occurred.

*Field Type:* Coded.

'1'	'Not Ejected'
'2'	'Partially Ejected'
'3'	'Totally Ejected'
'4'	'Not Applicable'

---

## Helmet Use

Variable Name: MC\_HELMET\_USDOT\_COMPLIANT

*Definition:* Whether there was a helmet used by the person or not.

*Field Type:* Coded.

'Y'	'Yes'
'N'	'No'

---

## Injured Transportation

Variable Name: INJURED\_TAKEN\_BY

*Definition:* Mode of transportation to a medical facility.

*Field Type:* Coded.

'1'	'Not Transported/Treated at Scene'
'2'	'EMS'
'3'	'Police'
'9'	'Other/Unknown'



## Person File

### Occupant Age

Variable Name: AGE\_NBR

*Definition:* Age of the person (e.g., 34).

*Field Type:* Numeric.

### Occupant Gender

Variable Name: GENDER\_CD

*Definition:* Gender of the person.

*Field Type:* Coded.

'F'	'Female'
'M'	'Male'
'U'	'Unknown/Other'

### Occupant Injury

Variable Name: INJURIES

*Definition:* Severity of injuries sustained in the crash by occupant (e.g., 3).

*Field Type:* Coded.

'1'	'Fatal'
'2'	'Suspected Serious Injury'
'3'	'Suspected Minor Injury'
'4'	'Possible Injury'
'5'	'No Apparent Injury'

### Occupant Type

Variable Name: TYPE\_OF\_PERSON

*Definition:* Person type.

*Field Type:* Coded.

'D'	'Driver'
'O'	'Occupant'
'P'	'Pedestrian'

### Motorist/Non-Motorist Physical Condition Variable Name: CONDITION\_CD

*Definition:* The physical or emotional condition of the motorist or non-motorist at the time of the crash.

*Field Type:* Coded.

'1'	'Apparently Normal'
'2'	'Physical Impairment'
'3'	'Emotional (e.g., Depressed, Angry, Disturbed)'
'4'	'Illness'
'5'	'Fell Asleep, Fainted, Fatigued, etc.'
'6'	'Under the Influence of Medications/Drugs/Alcohol'
'9'	'Other/Unknown'

### Safety Equipment

Variable Name: SAFETY\_EQUIPMENT\_USED

*Definition:* Type of safety equipment used by person.

*Field Type:* Coded.

'1'	'Non Used – Vehicle Occupant'
'2'	'Shoulder Belt Only Used'
'3'	'Lap Belt Only Used'
'4'	'Shoulder & Lap Belt Used'
'5'	'Child Restraint System – Forward Facing'
'6'	'Child Restraint System – Rear Facing'
'7'	'Booster Seat'
'8'	'Helmet Used'
'9'	'Protective Pads Used (Elbow, Knees, Etc.)'
'10'	'Reflective Clothing'
'11'	'Lighting – Pedestrian/Bicycle Only'
'99'	'Other/Unknown'

## Person File

### Seating Position

Variable Name: SEATING\_POSITION

*Definition:* Occupant or non-motorist position in vehicle or outside vehicle when the crash occurred.

*Field Type:* Coded.

'1'	'Front - Left Side (Motorcycle Driver)'
'2'	'Front - Middle'
'3'	'Front – Right Side'
'4'	'Second - Left (Motorcycle Passenger)'
'5'	'Second - Middle'
'6'	'Second – Right Side'
'7'	'Third - Left (Motorcycle Side Car)'
'8'	'Third - Middle'
'9'	'Third – Right Side'
'10'	'Sleeper Section of Truck Cab'
'11'	'Passenger in other Enclosed Cargo Area (Non-Trailing Unit, Bus, Pick-Up with Cap)'
'12'	'Passenger in Unenclosed Cargo Area'
'13'	'Trailing Unit'
'14'	'Riding on Vehicle Exterior (Non-Trailing Unit)'
'15'	'Non-Motorist'
'99'	'Other/Unknown'

### Trapped

Variable Name: TRAPPED

*Definition:* Whether this occupant was trapped in the vehicle as a result of the crash.

*Field Type:* Coded.

'1'	'Not Trapped'
'2'	'Extricated By Mechanical Means'
'3'	'Freed By Non-Mechanical Means'

### Unit Number

Variable Name: UNIT\_NBR

*Definition:* Links the person to the unit file by assigning them to the appropriate unit.

*Field Type:* Numeric.

# **Appendix A: History of Revisions**

## Appendix A: History of Revisions

File	Variable Name	Variable Description	Description of Change	Year of Change
Accident/ Crash	ACC_DATE	ACCIDENT DATE YYYYMMDD	Variable name changed to 'CRASH_DATE'	2018
Accident/ Crash	ACCESS	ACCESS CONTROL	Variable name changed to 'ACCESS_CONTROL'	2018
Accident/ Crash	ACCTYPE	TYPE OF CRASH (FIRST HARMFUL EVENT)	Variable name changed to 'U1_FIRST_HARMFUL_CD'  Code change (categories changed and added)	2018  2018
Accident/ Crash	ACCYR	ACCIDENT YEAR	Variable name changed to 'CRASH_YR'	2018
Accident/ Crash	AGENCY	INVESTIGATING AGENCY	Variable discontinued	2018
Accident/ Crash	ANGLE	TURN CRASH INDICATOR	Variable discontinued	2018
Accident/ Crash	ANIMAL	ANIMAL TYPE	Variable discontinued	2018
Accident/ Crash	CASENO	UNIQUE ACCIDENT CASE NUMBER	Variable name changed to 'DOCUMENT_NBR' and 'DOCUMENT NUMBER'	2018
Accident/ Crash	CNTYRTE	COUNTY ROUTE	Variable name changed to 'NLFID'	2018
Accident/ Crash	COUNTY	COUNTY	Variable name changed to 'COUNTY_CD'  Code change from letter abbreviations to numerical	2018  2018
Accident/ Crash	DIR_REF	DIRECTION FROM REFERENCE	Variable name changed to 'ODOT_DIR_FROM_REF_CD'	2018
Accident/ Crash	DIST_OFF	DISTANCE OFFSET	Variable name changed to 'ODOT_MILES_FROM_REF_NB R'	2018
Accident/ Crash	DISTRICT	DISTRICT	Variable name changed to 'DISTRICT_NBR'	2018
Accident/ Crash	DIV_CODE	ROAD IDENTIFICATION	Variable name changed to 'ODOT_DIV_UNDIV_IND'	2018
Accident/ Crash	FAULT	VIOLATOR	Variable discontinued	2018
Accident/ Crash	FIPSMUNI	FIPS CODE	Variable name changed to 'ODOT_FIPS_CD'	2018
Accident/ Crash	FLIP_IND	INDICATES DUPLICATE RECORD GENERATION	Variable discontinued	2018
Accident/ Crash	FRWY_IND	FREEWAY/NON-	Variable added	2000

## Appendix A: History of Revisions

File	Variable Name	Variable Description	Description of Change	Year of Change
Crash		FREEWAY INDICATOR	Variable name changed to 'FREEWAY_IND'	2018
Accident/ Crash	FUNCLS	FUNCTIONAL CLASSIFICATION	Variable name changed to 'FUNCTIONAL_CLASS'	2018
Accident/ Crash	HOUR	HOUR OF DAY	Variable name changed to 'HOUR_OF_CRASH'	2018
			Code change from categorical to numeric	2018
Accident/ Crash	INTER_IND	INTERSTATE HIGHWAY INDICATOR	Variable added	2000
			Variable name changed to 'INTERSTATE_IND'	2018
Accident/ Crash	JUR_TYPE	JURISDICTION	Variable name changed to 'JURISDICTION'	2018
			Code change	2018
Accident/ Crash	LIGHT	LIGHT CONDITION	Variable name changed to 'LIGHT_COND_PRIMARY_CD'	2018
			Code change	2018
Accident/ Crash	LOC_CASE	LOCAL REPORT NUMBER	Variable name changed to 'LOCAL_REPORT_NUMBER_ID'	2018
Accident/ Crash	LOC_TYPE	LOCATION	Variable discontinued	2018
Accident/ Crash	MILEPOST	MILEPOST	Variable name changed to 'ODPS_MILEPOST_REFERENCE'	2018
Accident/ Crash	MUNICODE	MUNICIPALITY CODE	Variable discontinued	2018
Accident/ Crash	MVMT	MILLION VEHICLE MILES OF TRAVEL	Variable discontinued	2018
Accident/ Crash	NHS	NATIONAL HIGHWAY SYSTEM INDICATOR	Variable name changed to 'NHS_CD'	2018
Accident/ Crash	NO_LANES	NUMBER OF LANES	Variable name changed to 'LANES_NBR'	2018
			Code change from categorical to numeric	2018
Accident/ Crash	NUMPEDS	NUMBER OF PEDESTRIANS	Variable name changed to 'NUM_PEDESTRIANS'	2018
Accident/ Crash	NUMVEHS	NUMBER OF VEHICLES	Variable name changed to 'NUMBER_OF_UNITS_NBR'	2018

## Appendix A: History of Revisions

File	Variable Name	Variable Description	Description of Change	Year of Change
Accident/ Crash	PEDS_INJ	PEDESTRIANS INJURED	Variable added	2006
			Variable name changed to 'PED_TOTAL_INJURED_NBR'	2018
Accident/ Crash	PEDS_KILLED	PEDESTRIANS KILLED	Variable discontinued	2000
			Variable re-added with variable name of 'PEDS_KILL'	2006
			Variable name changed to 'PED_FATALITIES_NBR'	2018
Accident/ Crash	POP_GRP	POPULATION	Variable discontinued	2018
Accident/ Crash	PUBDMG	PUBLIC PROPERTY DAMAGE	Variable discontinued	2018
Accident/ Crash	RAMP	RAMP CODE	Variable discontinued	2018
Accident/ Crash	REL_RD	RELATION TO ROADWAY	Variable discontinued	2018
Accident/ Crash	RD_CHAR1	CONTOUR OF ROADWAY	Variable name changed to 'ROAD_CONTOUR_CD'	2018
			Code change	2018
Accident/ Crash	RDSURF	ROAD CONDITION	Variable name changed to 'ROAD_COND_PRIMARY_CD'	2018
			Code change	2018
Accident/ Crash	RODWYCLS	ROAD TYPE	Variable discontinued	2018
Accident/ Crash	RTE_NBR	ROUTE NUMBER	Variable name changed to 'ROUTE_NBR'	2018
Accident/ Crash	SAFTJUR	ORIGINAL JURISDICTION CODED BY HIGHWAY SAFETY	Variable added	2006
			Variable discontinued	2018
Accident/ Crash	SCH_WZON	SPECIAL AREA CODE	Variable discontinued	2018
Accident/ Crash	SEVERITY	CRASH SEVERITY (GENERATED)	Variable name changed to 'CRASH_SEVERITY_CD'	2018
Accident/ Crash	SEVERITY_OH	CRASH SEVERITY (ORIGINAL)	Variable added	2000
			Variable discontinued	2018
Accident/ Crash	STATE_EQ	STATION EQUATION SORT FIELD	Variable discontinued	2018

## Appendix A: History of Revisions

File	Variable Name	Variable Description	Description of Change	Year of Change
Accident/ Crash	STREET_1	STREET ON	Variable name changed to 'ODPS_LOC_ROAD_NME'	2018
Accident/ Crash	STREET_2	STREET AT/CROSS ROUTE	Variable name changed to 'CROSS_ROUTE_NLFID'	2018
Accident/ Crash	TOT_KILL	TYPE 1 TOTAL KILLED	Variable name changed to 'ODPS_TOTAL_FATALITIES_NBR'	2018
			Code change from categorical to numeric	2018
Accident/ Crash	TOT_NON	TYPE 5 NO INDICATED INJURY	Variable name changed to 'NO_INJURY_REPORTED_NBR'	2018
			Code change from categorical to numeric	2018
Accident/ Crash	TOT_UNK	TYPE 0 NO INDICATED INJURY	Variable discontinued	2018
Accident/ Crash	TOTAINJ	TYPE 2 SERIOUS VISIBLE INJURY	Variable name changed to 'INCAPAC_INJURIES_NBR'	2018
			Code change from categorical to numeric	2018
Accident/ Crash	TOTBINJ	TYPE 3 MINOR VISIBLE INJURY	Variable name changed to 'NON_INCAPAC_INJURIES_NBR'	2018
			Code change from categorical to numeric	2018
Accident/ Crash	TOTCINJ	TYPE 4 NO VISIBLE INJURY	Variable name changed to 'POSSIBLE_INJURIES_NBR'	2018
			Code change from categorical to numeric	2018
Accident/ Crash	TWNSHIP	TOWNSHIP ABBREVIATION/LOCALITY	Variable name changed to 'ODOT_CITY_VILLAGE_TWP_CD'	2018
Accident/ Crash	TYPED_DB	TYPE OF REFERENCE	Variable discontinued	2018
Accident/ Crash	WEATHER	WEATHER CONDITION	Variable name changed to 'WEATHER_COND_CD'	2018
			Code change	2018
Accident/ Crash	WEEKDAY	DAY OF WEEK	Variable name changed to 'DAY_IN_WEEK_CD'	2018



## Appendix A: History of Revisions

File	Variable Name	Variable Description	Description of Change	Year of Change
			Code change ('unknown' and 'not coded' categories discontinued)	2018
Vehicle/ Unit	ACCYR	ACCIDENT YEAR	Variable added	2000
			Variable name changed to 'CRASH_YR'	2018
Vehicle/ Unit	BODY	BODY TYPE	Variable discontinued	2000
Vehicle/ Unit	CASENO	UNIQUE ACCIDENT CASE NUMBER	Variable name changed to 'DOCUMENT_NBR' and 'DOCUMENT NUMBER'	2018
Vehicle/ Unit	CDL_CLASS	TRUCK/BUS CDL CLASS	Variable added	2000
			Variable discontinued	2018
Vehicle/ Unit	CONTRIB <sub>1</sub>	CONTRIBUTING FACTOR OF VEHICLE	Variable name changed to 'CONT_CIR_PRIMARY_CD'	2018
Vehicle/ Unit	DAMAGE	VEHICLE DAMAGE SEVERITY	Variable name changed to 'IMPACT_AREA'	2018
Vehicle/ Unit	DAMSEV	VEHICLE DAMAGE SCALE	Variable name changed to 'DAMAGE_SCALE'	2018
Vehicle/ Unit	DAMSEV <sub>2</sub>	VEHICLE DAMAGE SCALE	Variable discontinued	2000
Vehicle/ Unit	DIR_TRVL	DIRECTION OF VEHICLE	Variable discontinued	2000
Vehicle/ Unit	DL_CLASS	DL CLASS	Variable discontinued	2000
Vehicle/ Unit	DL_STATE	DRIVER LICENSE STATE	Variable discontinued	2018
Vehicle/ Unit	DLCOUNTY	COUNTY	Variable discontinued	2000
Vehicle/ Unit	DRV_AGE	DRIVER AGE	Code change from categorical to numeric	2018
Vehicle/ Unit	DRV_FLAG	DRIVE PRESENCE	Variable discontinued	2000
Vehicle/ Unit	DRV_INJ	DRIVER INJURY	Code change	2018
Vehicle/ Unit	DRV_REST	DRIVER SAFETY EQUIPMENT	Variable added	2000
Vehicle/ Unit	DRV_SEX	DRIVER SEX	N/A	
Vehicle/ Unit	EMER_USE	IN EMERGENCY RESPONSE	Variable added	2000
			Variable name changed to	2018

## Appendix A: History of Revisions

File	Variable Name	Variable Description	Description of Change	Year of Change
			'IN_EMERGENCY_RESPONSE'	
Vehicle/ Unit	EVENT <sub>1</sub>	SEQUENCE OF EVENTS <sub>1</sub>	Variable added	2000
			Variable name changed to 'SEQ_OF_EVENTS_1_CD'	2018
Vehicle/ Unit	EVENT <sub>2</sub>	SEQUENCE OF EVENTS <sub>2</sub>	Variable added	2000
			Variable name changed to 'SEQ_OF_EVENTS_2_CD'	2018
Vehicle/ Unit	EVENT <sub>3</sub>	SEQUENCE OF EVENTS <sub>3</sub>	Variable added	2000
			Variable name changed to 'SEQ_OF_EVENTS_3_CD'	2018
Vehicle/ Unit	EVENT <sub>4</sub>	SEQUENCE OF EVENTS <sub>4</sub>	Variable added	2000
			Variable name changed to 'SEQ_OF_EVENTS_4_CD'	2018
Vehicle/ Unit	F_HARM	FIRST HARMFUL EVENT	Variable added	2000
			Variable name changed to 'FIRST_HARMFUL_SEQ_NBR'	2018
Vehicle/ Unit	FIRE	FIRE	Variable discontinued	2000
Vehicle/ Unit	GVWR	TRUCK/BUS WEIGHT	Variable added	2000
			Variable name changed to 'WEIGHT_CLASS_GVWR'	2018
Vehicle/ Unit	HAZMATRL	HAZARDOUS MATERIAL RELEASED	Variable added	2000
			Variable name changed to 'HAZ_MAT_RELEASED_IND'	2018
Vehicle/ Unit	HAZPLACD	HAZARDOUS MATERIAL PLACARD	Variable added	2000
			Variable name changed to 'HAZ_MAT_PLACARD_IND'	2018
Vehicle/ Unit	INSURFLG	VEHICLE INSURED	Variable name changed to 'ODPS_PROOF_OF_INSURANC E_SHOWN'	2018
Vehicle/ Unit	MAKE	MAKE OF VEHICLE	Variable name changed to 'VEHICLE_MAKE'	2018
Vehicle/ Unit	MISCACT <sub>1</sub>	PRE-CRASH ACTIONS	Variable name changed to 'PRECRASH_ACTION_CD'	2018
Vehicle/ Unit	MODEL	MODEL OF VEHICLE	Variable not present	2000, 2001
			Variable name changed to	

## Appendix A: History of Revisions

File	Variable Name	Variable Description	Description of Change	Year of Change
			'VEHICLE_MODEL'	2018
Vehicle/ Unit	MOSTHARM	MOST HARMFUL EVENT	Variable added	2000
			Variable name changed to 'MOST_HARMFUL_CD'	2018
Vehicle/ Unit	MOVMNT	MOVEMENT OF VEHICLE	Variable discontinued	2000
Vehicle/ Unit	NUM_OCCS	NUMBER OF OCCUPANTS	Variable added	2000
			Variable name changed to 'NUMBER_OF_OCCUPANTS_N BR'	2018
Vehicle/ Unit	NUMVEH	NUMBER OF VEHICLES	Variable discontinued	2000
Vehicle/ Unit	OBJECT1	OBJECT STRUCK BY VEHICLE	Variable discontinued	2000
Vehicle/ Unit	ODT_ATFAUL T	ODOT-AT-FAULT- FLAG	Variable added	2000
			Variable discontinued	2018
Vehicle/ Unit	ODT_PERSON _CNT	ODOT-PEOPLE- FOUND-COUNT	Variable added	2000
			Variable discontinued	2018
Vehicle/ Unit	OWNERID	VEHICLE OWNERSHIP	Variable discontinued	2000
Vehicle/ Unit	PED_LOC	NON-MOTORIST LOCATION PRIOR TO IMPACT	Variable added	2000
			Variable name changed to 'NON_MOTORIST_LOC_CD'	2018
Vehicle/ Unit	POC1	POINT OF IMPACT	Variable added	2000
			Variable name changed to 'IMPACT_AREA'	2018
Vehicle/ Unit	PUB_PROP	PUBLIC PROPERTY DAMAGE	Variable discontinued	2000
Vehicle/ Unit	SPD_LIMT	SPEED LIMIT OF ROAD	Variable added	1998
			Variable name changed to 'POSTED_SPEED_NBR'	2018
			Code change from categorical to numeric	2018
Vehicle/ Unit	STRIKING	STRIKING/STRUCK	Variable added	2000
			Variable name changed to 'COLLISION_ACTION_CD'	2018

## Appendix A: History of Revisions

File	Variable Name	Variable Description	Description of Change	Year of Change
Vehicle/ Unit	TOWED	TOWED FLAG	Variable added	2000
			Variable name changed to 'TOWED_FLAG'	2018
Vehicle/ Unit	TRF_CNTL	TRAFFIC CONTROL OF VEHICLE	Code change (categories '20' and '21' only apply to pre-2000 data)	2000
			Variable name changed to 'TRAFFIC_CONTROL_CD'	2018
			Code change	2018
Vehicle/ Unit	TRK_BODY	CARGO BODY TYPE	Variable added	2000
			Variable name changed to 'CARGO_BODY_TYPE_CD'	2018
			Code change	2018
Vehicle/ Unit	TRK_LOAD	TYPE OF TRUCK LOAD	Variable discontinued	2000
Vehicle/ Unit	TRKAXLES	NUMBER OF TRUCK AXLES	Variable discontinued	2000
Vehicle/ Unit	TRVL_SPD	SPEED DETECTED	Variable added	2000
			Variable name changed to 'SPEED_DETECTED'	2018
Vehicle/ Unit	UNDEROVR	VEHICLE UNDERRIDE/OVERRIDE	Variable added	2000
			Variable discontinued	2018
Vehicle/ Unit	VEH_DISP	VEHICLE DISPOSITION	Variable discontinued	2000
Vehicle/ Unit	VEH_N_FROM	VEHICLE/NON-MOTORIST DIRECTION FROM	Variable added	2000
			Variable name changed to 'ODPS_DIRECTION_FROM_CD'	2018
Vehicle/ Unit	VEH_N_TO	VEHICLE/NON-MOTORIST DIRECTION TO	Variable added	2000
			Variable name changed to 'ODPS_DIRECTION_TO_CD'	2018
Vehicle/ Unit	VEH_SPEED_P OST_2000	DIRECTION FROM SPEED OF VEHICLE	Variable added	2000
			Variable discontinued	2018
Vehicle/ Unit	VEH_SPEED_P RE_2000	ESTIMATED SPEED OF VEHICLE	Variable discontinued	2000

## Appendix A: History of Revisions

File	Variable Name	Variable Description	Description of Change	Year of Change
Vehicle/ Unit	VEHCOND <sub>1</sub>	PRIMARY CONDITION <sub>1</sub>	Variable name changed to 'VEHICLE_DEFECTS'	2018
Vehicle/ Unit	VEHCOND <sub>2</sub>	PRIMARY CONDITION <sub>2</sub>	Variable discontinued	2000
Vehicle/ Unit	VEHNO	VEHICLE NUMBER	Variable name changed to 'ODPS_UNIT_NBR'	2018
Vehicle/ Unit	VEHSTATE	VEHICLE STATE	Variable discontinued	2018
Vehicle/ Unit	VEHTYPE	VEHICLE TYPE	Variable name changed to 'TYPE_OF_UNIT_CD'	2018
			Code change	2018
Vehicle/ Unit	VEHYR	VEHICLE MODEL YEAR	Variable name changed to 'VEHICLE_YEAR'	2018
Vehicle/ Unit	VIN	VIN NUMBER	Variable not present	2000- 2003
			Variable discontinued	2018
Occupant/ Person	AGE	OCCUPANT AGE	Variable name changed to 'AGE_NBR'	2018
			Code change from categorical to numeric	2018
Occupant/ Person	AIRBAG	AIRBAG	Variable added	2000
			Variable name changed to 'AIR_BAG_USAGE'	2018
Occupant/ Person	AIRBAG_SAW	AIRBAG SWITCH	Variable added	2000
			Variable name changed to 'AIRBAG_SW'	2007
			Variable name changed back to 'AIRBAG_SAW'	2008
			Variable discontinued	2018
Occupant/ Person	ALCOHOL_TE ST_STATUS	ALCOHOL TEST STATUS	Variable added	2000
			Code change (categories discontinued)	2018
Occupant/ Person	ALSTTYP	ALCOHOL TEST TYPE	Variable added	2000
			Variable name changed to 'ALTSTTYP'	2007

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File	Variable Name	Variable Description	Description of Change	Year of Change
			Variable name changed Back to 'ALSTTYP'	2008
			Variable name changed to 'ALCOHOL_TEST_TYPE'	2018
Occupant/ Person	BAC	BLOOD ALCOHOL CONTENT IN %	Variable discontinued	2018
Occupant/ Person	CASENO	UNIQUE ACCIDENT CASE NUMBER	Variable name changed to 'DOCUMENT_NBR' and 'DOCUMENT NUMBER'	2018
Occupant/ Person	CIT_LOC_CDE	CITATION LOCAL CODE	Variable added	2000
			Variable name changed to 'CITATION_LOCAL_CODE_IND'	2018
Occupant/ Person	CITATION	CITATION GIVEN	Variable name changed to 'CITATION_GIVEN'	2018
			Variable discontinued	2019
Occupant/ Person	DL_CLASS	DL CLASS	Variable discontinued	2000
Occupant/ Person	DL_STATE	DRIVER LICENSE STATE	Variable name changed to 'DRIVER_LICENCE_ISSUE_STATE'	2018
Occupant/ Person	DLCOUNTY	DL COUNTY	Variable discontinued	2000
Occupant/ Person	DRG_RES1	DRUG TEST 1 RESULT	Variable added	2000
			Variable name changed to 'ODPS_DRUG_TEST_RESULT_1'	2018
			Code change from categorical to string	2018
Occupant/ Person	DRG_RES2	DRUG TEST 2 RESULT	Variable added	2000
			Variable name changed to 'ODPS_DRUG_TEST_RESULT_2'	2018
			Code change from categorical to string	2018
Occupant/ Person	DRUG_INV	DRUGS INVOLVED	Variable discontinued	2000
Occupant/ Person	DRUG_TEST_STATUS	DRUGS TEST STATUS	Variable added	1999

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File	Variable Name	Variable Description	Description of Change	Year of Change
Occupant/ Person	DRUG_TEST_T YPE	DRUG TEST TYPE	Variable added	2000
Occupant/ Person	EJECT	EJECTED FROM VEHICLE	Variable name changed to 'EJECTION'	2018
			Code change (categories discontinued and codes changed)	2018
Occupant/ Person	HELMET	HELMET USE	Variable discontinued	2000
			Variable re-added with variable name of 'MC_HELMET_USDOT_COMPL IANT'	2018
Occupant/ Person	INJ	OCCUPANT INJURY	Variable name changed to 'INJURIES'	2018
Occupant/ Person	P_TYPE	OCCUPANT TYPE	Variable name changed to 'TYPE_OF_PERSON'	2018
Occupant/ Person	PHYSCOND	PEDESTRIAN PHYSICAL CONDITION	Variable name changed to 'CONDITION_CD'	2018
Occupant/ Person	REST1	SAFETY EQUIPMENT	Code change (categories 15-17 discontinued)	2000
			Variable name changed to 'SAFETY_EQUIPMENT_USED'	2018
			Code change	2018
Occupant/ Person	SEATPOS	SEATING POSITION	Variable name changed to 'SEATING_POSITION'	2018
			Code change (categories discontinued)	2018
Occupant/ Person	SEX	OCCUPANT GENDER	Variable name changed to 'GENDER_CD'	2018
Occupant/ Person	SOB_TST	ALCOHOL INVOLVED	Variable name changed to 'ODPS_IS_ALCOHOL_SUSPEC TED'	2018
			Code change	2018
Occupant/ Person	TAKEN_BY	INJURED TAKEN BY	Variable added	2000
			Variable name changed to 'INJURED_TAKEN_BY'	2018

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File	Variable Name	Variable Description	Description of Change	Year of Change
			Code change ('other' and 'unknown' combined into one category)	2018
Occupant/ Person	TRAPPED	TRAPPED	Variable added	2000
			Code change ('unknown' category discontinued)	2018
Occupant/ Person	VEHNO	VEHICLE NUMBER	Variable name changed to 'ODPS_UNIT_NBR'	2018
Roadway	AADT	WEIGHTED AVERAGE TOTAL ADT	Variable name changed to 'ADT_TOTAL_NBR'	2018
			Code change from categorical to numeric	2018
Roadway	AADT_BC	ADT FOR TYPE B AND C TRUCKS	Variable name changed to 'ADT_TRUCK_NBR'	2018
			Code change from categorical to numeric	2018
Roadway	AADT_PT	ADT FOR PASSENGER CARS AND A TYPE TRUCKS	Variable name changed to 'ADT_PSNGR_CAR_NBR'	2018
			Code change from categorical to numeric	2018
Roadway	AADT_YR	YEAR OF ADT COUNTS	Variable name changed to 'YEAR_ADT'	2016
			Variable name changed to 'ADT_YEAR_NBR'	2018
Roadway	ACCESS	ACCESS CONTROL	Variable name changed to 'ACCESS_CONTROL'	2018
			Code change (categories discontinued)	2018
Roadway	AREA_CDE	AREA CODE	Variable name changed to 'AREA_CODE_NBR'	2018
Roadway	BEGMP	BEGINNING MILE POST	Variable name changed to 'CTL_BEGIN_NBR'	2018
Roadway	CNT_TLOG	COUNTY TRUE LOG	Variable discontinued	2018
Roadway	CNTY_RTE	COUNTY ROUTE	Variable name changed to 'NLFID'	2018
Roadway	COUNTY	COUNTY	N/A	
Roadway	DISTRICT	DISTRICT	Variable name changed to 'DISTRICT_NBR'	2018
Roadway	DIVIDED	ROAD	Variable name changed to	2018



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File	Variable Name	Variable Description	Description of Change	Year of Change
		IDENTIFICATION	'DIVIDED_HWY_IND'  Code change	2018
Roadway	ENDMP	END MILE POST	Variable name changed to 'CTL_END_NBR'	2018
Roadway	FED_ACES	FEDERAL ACCESS CONTROL	Variable discontinued	2016
Roadway	FED_FACI	FHWA TYPE OF FACILITY	Variable name changed to 'FACILITY_TYPE_CD'  Code change (categories added and changed)	2018  2018
Roadway	FED_MEDW	FHWA MEDIAN WIDTH	Variable name changed to 'MEDIAN_WIDTH_NBR'	2018
Roadway	FED_SPSY	FHWA SPECIAL SYSTEMS	Variable discontinued	2018
Roadway	FIPS_CDE	FIPS CODE	Variable split into 'MUNI_FIPS_CODE_LEFT' and 'MUNI_FIPS_CODE_RIGHT'	2018
Roadway	FUNC_CLS	FUNCTIONAL CLASS	Variable name changed to 'FUNCTION_CLASS_CD'	2018
Roadway	HOV	FHWA HOV VEHICLES	Variable discontinued	2018
Roadway	HPMS	HPMS CODES	Variable discontinued	2018
Roadway	ID_CNTRL	ID CONTROL CODE	Variable discontinued	2018
Roadway	INV_DTE	INVENTORY DATE	Variable discontinued	2018
Roadway	JUR_TYPE	JURISDICTION	Variable name changed to 'JURISDICTION_CD'  Code change (categories added)	2018  2018
Roadway	LRS_BGPT	LRS BEGINNING MILE POST	Variable name changed to 'LRS_BEG_END_LOGPNT'  Variable discontinued	2016  2018
Roadway	LRS_BNDE	LRS B NODE	Variable discontinued	2018
Roadway	LRS_EDPT	LRS ENDING MILE POINT	Variable name changed to 'LRS_END_LOGPNT'  Variable discontinued	2016  2018
Roadway	LRS_ENDE	LRS END NODE	Variable discontinued	2018
Roadway	LRS_ID	LRS INVENTORY ROUTE NUMBER (10 CHARACTER)	Variable name changed to 'LRS_ID_HPMS'  Variable discontinued	2016  2018

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File	Variable Name	Variable Description	Description of Change	Year of Change
Roadway	LRS_INRT	LRS INVENTORY ROUTE NUMBER	Variable not present  Variable name changed to 'NLF_ID'	2016, 2017  2018
Roadway	LRS_NDCN	LRS NODE CODE (COUNTY/STATE)	Variable name changed to 'LRS_NODE_CODE'  Variable discontinued	2016  2018
Roadway	LRS_NDNM	LRS NODE NAME	Variable name changed to 'LRS_NODENAME'  Variable discontinued	2016  2018
Roadway	LRS_NDSQ	LRS NODE SEQUENCE NUMBER	Variable name changed to 'LRS_NODE_SEQNBR'  Variable discontinued	2016  2018
Roadway	LRS_NRDE	LRS NODE ROUTE DESIGNATION	Variable discontinued	2016
Roadway	LRS_SBRT	LRS SUBROUTE NUMBER	Variable discontinued	2018
Roadway	MED_TYPE	FHWA MEDIAN TYPE	Code change (category 8 'Positive Barrier – unspecified' discontinued)  Variable name changed to 'MEDIAN_TYPE_CD'	2012  2018
Roadway	MED_WID	MEDIAN WIDTH	Variable discontinued	2018
Roadway	MI_CLASS	MILE CLASS (INCORPORATED/UNINCORPORATED)	Variable name changed to 'MILEAGE_CLASS'	2018
Roadway	MUN_NAM	MUNICIPALITY NAME	Variable discontinued	2018
Roadway	MVMT	MILLION VEHICLE MILES OF TRAVEL	Variable discontinued	2018
Roadway	NHS_CDE	NATIONAL HIGHWAY SYSTEM CODE	Variable name changed to 'NHS_CD'	2018
Roadway	NHS_INTR	NHS INTERMODAL NUMBER	Variable discontinued	2018
Roadway	NO_LANES	NUMBER OF LANES	Variable name changed to 'LANES_NBR'	2018
Roadway	PAS_NHS	PAS/NHS INTERSECTION MARKER	Variable discontinued	2018

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File	Variable Name	Variable Description	Description of Change	Year of Change
Roadway	PAV_ROUG	PAVEMENT ROUGHNESS	Variable discontinued	2018
Roadway	PAVECOND	PAVEMENT CONDITION	Variable name changed to 'PAV_COND'  Variable discontinued	2016  2018
Roadway	PK_LANES	PEAK LOAD LANES	Variable discontinued	2018
Roadway	POP_GRP	POPULATION	Variable discontinued	2018
Roadway	RD_WIDTH	ROADWAY WIDTH THRU LANES N/MEDIANS	Variable name changed to 'ROADWAY_WIDTH'  Code change from categorical to numeric	2018  2018
Roadway	RODWYCLS	ROADWAY TYPES	N/A	
Roadway	RTE_NBR	STATE ROUTE NUMBER	Variable not present  Variable name changed to 'ROUTE_NBR'	2016, 2017  2018
Roadway	RTE_SUFEX	STATE ROUTE NUMBER SUFFIX	Variable discontinued	2018
Roadway	RTE_TYPE	ROUTE TYPE	Variable name changed to 'ROUTE_TYPE'  Code change (many categories added and abbreviations changed)	2018  2018
Roadway	RURUID	POPULATION (OVER/UNDER 5000)	Variable discontinued	2018
Roadway	SCENIC	SCENIC BYWAYS	Variable name changed to 'SCENIC_BYWAY'  Variable name changed to 'SCENIC_BYWAY_CD'	2016  2018
Roadway	SEG_LNG	SEGMENT LENGTH	Variable name changed to 'SEGMENT_LENGTH_NBR'	2018
Roadway	SEQ_NBR	SEQUENCE NUMBER	Variable added  Variable discontinued	2005  2018
Roadway	SHWD_LEFT_INSIDE	SHOULDER LEFT INSIDE	Variable name changed to 'SHOULDER_PVD_WIDTH_IN_LT'  Code change from categorical	2018  2018

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File	Variable Name	Variable Description	Description of Change	Year of Change
			to numeric	
Roadway	SHWD_LEFT_OUTSIDE	SHOULDER LEFT OUTSIDE	Variable name changed to 'SHOULDER_PVD_WIDTH_OUT_LT'	2018
			Code change from categorical to numeric	2018
Roadway	SHWD_RIGHT_INSIDE	SHOULDER RIGHT INSIDE	Variable name changed to 'SHOULDER_PVD_WIDTH_IN_RT'	2018
			Code change from categorical to numeric	2018
Roadway	SHWD_RIGHT_OUTSIDE	SHOULDER RIGHT OUTSIDE	Variable name changed to 'SHOULDER_PVD_WIDTH_OUT_RT'	2018
			Code change from categorical to numeric	2018
Roadway	SPDLIMIT	SPEED LIMIT	Variable name changed to 'POSTED_SPEED_NBR'	2018
			Code change from categorical to numeric	2018
Roadway	SRF_BAS	STANDARD BASE CLASSIFICATION	Variable discontinued	2018
Roadway	SRF_BASL	LEFT SIDE SURFACE BASE TYPE	Variable name changed to 'BASE_TYPE_LEFT_CD'	2018
			Code change (categories discontinued)	2018
Roadway	SRF_BASR	RIGHT SIDE SURFACE BASE CLASS TYPE	Variable name changed to 'BASE_TYPE_RIGHT_CD'	2018
			Code change (categories discontinued)	2018
Roadway	SRF_TYPF	SUMMARY OF FHWA SURFACE TYPE	Variable discontinued	2018
Roadway	SRF_TYPL	LEFT SIDE STANDARD SURFACE TYPE	Variable name changed to 'SURFACE_TYPE_LEFT_CD'	2018
			Code change (category discontinued and category	2018

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File	Variable Name	Variable Description	Description of Change	Year of Change
			added)	
Roadway	SRF_TYPR	RIGHT SIDE SURFACE CLASS TYPE	Variable name changed to 'SURFACE_TYPE_RIGHT_CD'	2018
			Code change (category discontinued and category added)	2018
Roadway	SRFTYPLL	LEFT SIDE FHWA SURFACE TYPE	Variable discontinued	2018
Roadway	SRFTYPLR	FHWA RIGHT SIDE SURFACE TYPE	Variable discontinued	2018
Roadway	STAT_EQ	STATION EQUATION SORT FILED	Variable discontinued	2018
Roadway	STN_SUF	STREET NAME SUFFIX	Variable discontinued	2018
Roadway	STR_PFX	STREET NAME DIRECTIONAL PREFIX	Variable name changed to 'STRTN_DIRPRFX'	2016
			Variable name changed to 'STREET_PREFIX_DIR_CD'	2018
Roadway	STRT_DIR	STREET NAME DIRECTIONAL SUFFIX	Variable name changed to 'STRTN_DIRSUFX'	2016
			Variable name changed to 'STREET_DIR_SUFFIX_CD'	2018
Roadway	STRT_NAM	STREET NAME	Variable name changed to 'STREET_NAME'	2018
Roadway	SURF_TYP	STANDARD SURFACE CLASSIFICATION	Variable discontinued	2018
Roadway	SURF_WID	SURFACE WIDTH THRU LANES N/SHOULDERS	Variable discontinued	2018
Roadway	SURFWIDL	LEFT SIDE SURFACE WIDTH IN FEET	Variable name changed to 'SURFACE_WIDTH_LEFT'	2018
			Code change from categorical to numeric	2018
Roadway	SURFWIDR	RIGHT SIDE SURFACE WIDTH IN FEET	Variable name changed to 'SURFACE_WIDTH_RIGHT'	2018
			Code change from categorical to numeric	2018
Roadway	SYS_CLAS	SYSTEM CLASS	Variable name changed to	2016

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File	Variable Name	Variable Description	Description of Change	Year of Change
			'SYS_CLASS' Variable discontinued	2018
Roadway	UPDT_YR	UPDATE YEAR	Variable discontinued	2016
Point	CHNG_YR	RECORD CHANGE YEAR	Variable discontinued	2018
Point	CNTY_RTE	COUNTY ROUTE	Variable name changed to 'NLFID'	2018
Point	CNTYLOG	COUNTY TRUE LOG	Variable discontinued	2018
Point	COUNTY	COUNTY	Variable discontinued	2018
Point	DESC	LOCATION DESCRIPTION	Variable discontinued	2018
Point	DISTRICT	DISTRICT	Variable discontinued	2018
Point	LOG_SUFEX	LOG POINT SUFFIX	Variable discontinued	2018
Point	MILEPOST	LOG POINT	Variable discontinued	2018
Point	MUNI_CDE	MUNICIPAL CODE	Variable discontinued	2018
Point	OVRLDIR	OVERLAP LOG DIRECTION	Variable discontinued	2018
Point	REC_TYPE	RECORD TYPE	Variable discontinued	2018
Point	RTE_DIR	ROUTE DIRECTION	Variable discontinued	2018
Point	RTE_NBR	STATE ROUTE NUMBER	Variable discontinued	2018
Point	RTE_PREF	STATE ROUTE PREFIX	Variable discontinued	2018
Point	RTE_SUFEX	STATE ROUTE SUFFIX	Variable discontinued	2018
Point	SEQ_NBR	SEQUENCE NUMBER	Variable discontinued	2018
Point	SPECDESC	SPECIAL DESCRIPTION	Variable discontinued	2018
Point	STAT_EQ	STATE EQUATION SORT	Variable discontinued	2018
Point	STRT_SUF	STREET SUFFIX	Variable discontinued	2018
Point	TRUE_LOG	STATE ROUTE TRUE LOG	Variable discontinued	2018
Point	XCNTYRTE	CROSS ROAD COUNTY ROUTE	Variable discontinued	2018
Point	XLOG_SUF	CROSS ROUTE LOG SUFFIX	Variable discontinued	2018
Point	XMILEPST	CROSS ROUTE MILEPOST	Variable discontinued	2018
Point	XRTE_NBR	CROSS ROUTE NUMBER	Variable discontinued	2018
Point	XRTE_SUF	CROSS ROUTE	Variable discontinued	2018

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File	Variable Name	Variable Description	Description of Change	Year of Change
		SUFFIX		
Point	XRTEPREF	CROSS ROUTE PREFIX	Variable discontinued	2018
Horizontal Curve	ACCESS	ACCESS CONTROL	N/A	
Horizontal Curve	AREACODE	AREA CODE	N/A	
Horizontal Curve	BEGMP	BEGIN LOG POINT OF CURVE	Variable name changed to 'CTL_BEGIN_NBR'	2018
Horizontal Curve	CNTY_RTE	COUNTY ROUTE	Variable name changed to 'NLFID'	2018
Horizontal Curve	COUNTY	COUNTY	N/A	
Horizontal Curve	CURVE_TYPE	CURVE TYPE	Variable added	2018
Horizontal Curve	CURVE_RADIUS	CURVE RADIUS	Variable added	2018
Horizontal Curve	DEG_CURV	DEGREE OF CURVE	Variable name changed to 'DEGREE_OF_CURVE'	2018
Horizontal Curve	DESC	DESCRIPTION	Variable discontinued	2018
Horizontal Curve	DIR_CURV	DIRECTION OF CURVE	Variable name changed to 'SIGN'	2018
Horizontal Curve	DISTRICT	DISTRICT	Variable name changed to 'DISTRICT_NBR'	2018
Horizontal Curve	DIVIDED	DIVIDED HIGHWAY INDICATOR	Variable discontinued	2018
Horizontal Curve	ENDMP	END LOG POINT OF CURVE	Variable name changed to 'END_MILEPOST'	2018
Horizontal Curve	FUNC_CLS	FUNCTIONAL CLASS	Variable discontinued	2018
Horizontal Curve	INV_DATE	YEAR OF CODING CHANGE	N/A	
Horizontal Curve	MILE_CLS	MILE CLASS	Variable discontinued	2018
Horizontal Curve	NLFID	NLFID	Variable added	2018
Horizontal Curve	NO_LANES	NUMBER OF LANES	Variable discontinued	2018
Horizontal Curve	RTE_NBR	STATE ROUTE NUMBER	Variable name changed to 'ROUTE_NBR'	2018
Horizontal Curve	RTE_SUFIX	STATE ROUTE SUFFIX	Variable discontinued	2018
Horizontal Curve	SEG_LNG	SEGMENT LENGTH	Variable name changed to 'CURVE_LENGTH'	2018

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File	Variable Name	Variable Description	Description of Change	Year of Change
Horizontal Curve	SEQ_NBR	SEQUENCE NUMBER	Variable discontinued	2018
Horizontal Curve	STAT_EQU	STATION EQUATION SORT FIELD	Variable discontinued	2018
Horizontal Curve	SYS_CLAS	SYSTEM CLASS	Variable discontinued	2018
Grade	ACCESS	ACCESS CONTROL	Variable discontinued	2018
Grade	AREACODE	AREA CODE	Variable discontinued	2018
Grade	BEGMP	BEGIN LOG POINT OF CURVE	Variable discontinued	2018
Grade	CNTY_RTE	COUNTY ROUTE	Variable discontinued	2018
Grade	COUNTY	COUNTY	Variable discontinued	2018
Grade	DESC	DESCRIPTION	Variable discontinued	2018
Grade	DIR_GRAD	DIRECTION OF GRADE	Variable discontinued	2018
Grade	DISTRICT	DISTRICT	Variable discontinued	2018
Grade	DIVIDED	DIVIDED HIGHWAY INDICATOR	Variable discontinued	2018
Grade	ENDMP	END LOG POINT OF CURVE	Variable discontinued	2018
Grade	FUNC_CLS	FUNCTIONAL CLASS	Variable discontinued	2018
Grade	INV_DATE	YEAR OF CODING CHANGE	Variable discontinued	2018
Grade	MILE_CLS	MILE CLASS	Variable discontinued	2018
Grade	NO_LANES	NUMBER OF LANES	Variable discontinued	2018
Grade	PCT_GRAD	PERCENT OF GRADE	Variable discontinued	2018
Grade	RTE_NBR	STATE ROUTE NUMBER	Variable discontinued	2018
Grade	RTE_SUFEX	STATE ROUTE SUFFIX	Variable discontinued	2018
Grade	SEG_LNG	SEGMENT LENGTH	Variable discontinued	2018
Grade	SEQ_NBR	SEQUENCE NUMBER	Variable discontinued	2018
Grade	STAT_EQU	STATION EQUATION SORT FIELD	Variable discontinued	2018
Grade	SYS_CLAS	SYSTEM CLASS	Variable discontinued	2018
Angle Point	ACCESS	ACCESS CONTROL	N/A	
Angle Point	AREACODE	AREA CODE	N/A	
Angle Point	BEGMP	BEGIN LOG POINT OF CURVE	N/A	
Angle Point	CNTY_RTE	COUNTY ROUTE	N/A	



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File	Variable Name	Variable Description	Description of Change	Year of Change
Angle Point	COUNTY	COUNTY	N/A	
Angle Point	DEG_CURV	DEGREE OF CURVE	N/A	
Angle Point	DESC	DESCRIPTION	N/A	
Angle Point	DIR_CURV	DIRECTION OF CURVE	N/A	
Angle Point	DISTRICT	DISTRICT	N/A	
Angle Point	DIVIDED	DIVIDED HIGHWAY INDICATOR	N/A	
Angle Point	ENDMP	END LOG POINT OF CURVE	N/A	
Angle Point	FUNC_CLS	FUNCTIONAL CLASS	N/A	
Angle Point	INV_DATE	YEAR OF CODING CHANGE	N/A	
Angle Point	MILE_CLS	MILE CLASS	N/A	
Angle Point	NO_LANES	NUMBER OF LANES	N/A	
Angle Point	RTE_NBR	STATE ROUTE NUMBER	N/A	
Angle Point	RTE_SUFEX	STATE ROUTE SUFFIX	N/A	
Angle Point	SEG_LNG	SEGMENT LENGTH	N/A	
Angle Point	SEQ_NBR	SEQUENCE NUMBER	N/A	
Angle Point	STAT_EQU	STATION EQUATION SORT FIELD	N/A	
Angle Point	SYS_CLAS	SYSTEM CLASS	N/A	
Intersection	AGENCYID	Intersection ID	Variable added	2014
			Variable name changed to 'INTERSECTION_ID'	2018
Intersection	AGENCYsites UBTYP	SITE SUBTYPE	Variable added	2014
			Variable discontinued	2018
Intersection	ALTROUTENAMES	COINCIDING ROUTE NAME MAJRD	Variable added	2014
			Variable discontinued	2018
Intersection	AREATYPE	AREA TYPE	Variable added	2014
			Variable discontinued	2018
Intersection	CITY	FIPS CODE	Variable added	2014
			Variable discontinued	2018
Intersection	COMMENT	COMMENT	Variable added	2014

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File	Variable Name	Variable Description	Description of Change	Year of Change
			Variable discontinued	2018
Intersection	CORRIDOR	CORRIDOR (FUTURE VARIABLE)	Variable added	2014
			Variable discontinued	2018
Intersection	COUNTY	COUNTY	Variable added	2014
			Variable discontinued	2018
Intersection	DISTRICT	MAINTENANCE DISTRICT	Variable added	2014
			Variable discontinued	2018
Intersection	GISID	GIS ID	Variable added	2014
			Variable discontinued	2018
Intersection	GROWTHFACTOR	AADT GROWTH FACTOR	Variable added	2014
			Variable discontinued	2018
Intersection	INTERSECTIONTYPE1	INTERSECTION TYPE	Variable added	2014
			Variable discontinued	2018
Intersection	JURISDICTION	JURISDICTION	Variable added	2014
			Variable discontinued	2018
Intersection	MAJBEGININFLUENCEZONE	INFLUENCE ZONE BEG MAJRD	Variable added	2014
			Variable discontinued	2015
Intersection	MAJENDINFLUENCEZONE	INFLUENCE ZONE END MAJRD	Variable added	2014
			Variable discontinued	2014
Intersection	MAJOR_AADT_11	MAJOR ROAD AADT	Variable added	2014
			Variable discontinued	2015
Intersection	MAJORROADDIRECTION	DIRECTION MAJOR ROAD	Variable added	2014
			Variable discontinued	2018
Intersection	MAJORROADLOCATIONSYSTEM	LOCATION SYSTEM MAJOR ROAD	Variable added	2014
			Variable discontinued	2018
Intersection	MAJORROADNAME	NAME MAJOR ROAD	Variable added	2014
			Variable discontinued	2018
Intersection	MAJORROADOFFSET	MILEPOST MAJOR ROAD	Variable added	2014
			Variable discontinued	2018

## Appendix A: History of Revisions

File	Variable Name	Variable Description	Description of Change	Year of Change
Intersection	MAJORROADS SECTION	SECTION MAJOR ROAD	Variable added	2014
			Variable discontinued	2015
Intersection	MINBEGININFLUENCEZONE	INFLUENCE ZONE BEG MINRD	Variable added	2014
			Variable discontinued	2018
Intersection	MINENDINFLUENCEZONE	INFLUENCE ZONE END MINRD	Variable added	2014
			Variable discontinued	2018
Intersection	MINOR_AADT_11	MINOR ROAD AADT	Variable added	2014
			Variable discontinued	2018
Intersection	MINORROADLOCATIONSYSTEM	LOCATION SYSTEM MINOR ROAD	Variable added	2014
			Variable discontinued	2018
Intersection	MINORROADNAME	NAME MINOR ROAD	Variable added	2014
			Variable discontinued	2018
Intersection	MINORROADOFFSET	MILEPOST MINOR ROAD	Variable added	2014
			Variable discontinued	2015
Intersection	MINORROADROUTE NAME	ROUTE NUMBER MINOR ROAD	Variable added	2014
			Variable discontinued	2018
Intersection	MINORROADROUTE TYPE	ROUTE TYPE MINOR ROAD	Variable added	2014
			Variable discontinued	2015
Intersection	MINORROADSECTION	SECTION MINOR ROAD	Variable added	2014
			Variable discontinued	2018
Intersection	OFFSETDISTANCE	MINOR ROAD OFFSET DISTANCE	Variable added	2014
			Variable discontinued	2015
Intersection	OFFSETINTERSECTION	MINOR ROAD OFFSET FLAG	Variable added	2014
			Variable discontinued	2018
Intersection	OPENEDTOTRAFFIC	DATE OPENED TO TRAFFIC	Variable added	2014
			Variable discontinued	2018
Intersection	ROUTENAME	ROUTE NUMBER MAJOR ROAD	Variable added	2014
			Variable discontinued	2015
Intersection	ROUTETYPE	ROUTE TYPE MAJOR ROAD	Variable added	2014
			Variable discontinued	2018

## Appendix A: History of Revisions

File	Variable Name	Variable Description	Description of Change	Year of Change
Intersection	TRAFFICCONT ROL1	TRAFFIC CONTROL TYPE	Variable added	2014
			Variable discontinued	2018

