

# HIGHWAY SAFETY INFORMATION SYSTEM GUIDEBOOK FOR THE

## CALIFORNIA STATE DATA FILES

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## Introduction to the California HSIS Guidebook

The Highway Safety Information System (HSIS), established in 1987, is a foundational highway research data system. The State of California has participated in the HSIS program since 1991, 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 California HSIS data for the years 2018 and beyond. Data and documentation prior to 2018 (1991-2017) are available upon request to the [HSIS Virtual Laboratory](#). Prior to 2018, the California datasets included variables for the following files:

1. Roadway inventory.
2. Intersection inventory.
3. Interchange ramp inventory.
4. Accident characteristics.
5. Vehicles involved in crashes.
6. Vehicle occupants involved in crashes.

Beginning in 2018, the vehicle occupants file is no longer available, and [Appendix A](#) summarizes revisions the [HSIS Laboratory](#) made to the variables. There are several key differences between the California 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 and Unit files to represent these characteristics. Figure 1 illustrates the connection between the previous file naming convention (1991-2017) and the current file naming convention (2018-2020).

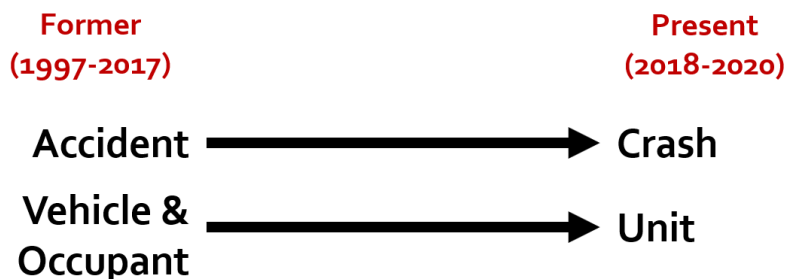


Figure 1. Changes to California HSIS Data File Naming Convention.

## 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 California'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. This guidebook represents data that are available to requestors for the years 2018 to 2020. Variables that were available in previous years and documented in past guidebooks may no longer be available or otherwise discontinued. 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 5 files. The following sections provide a brief summary of each file.

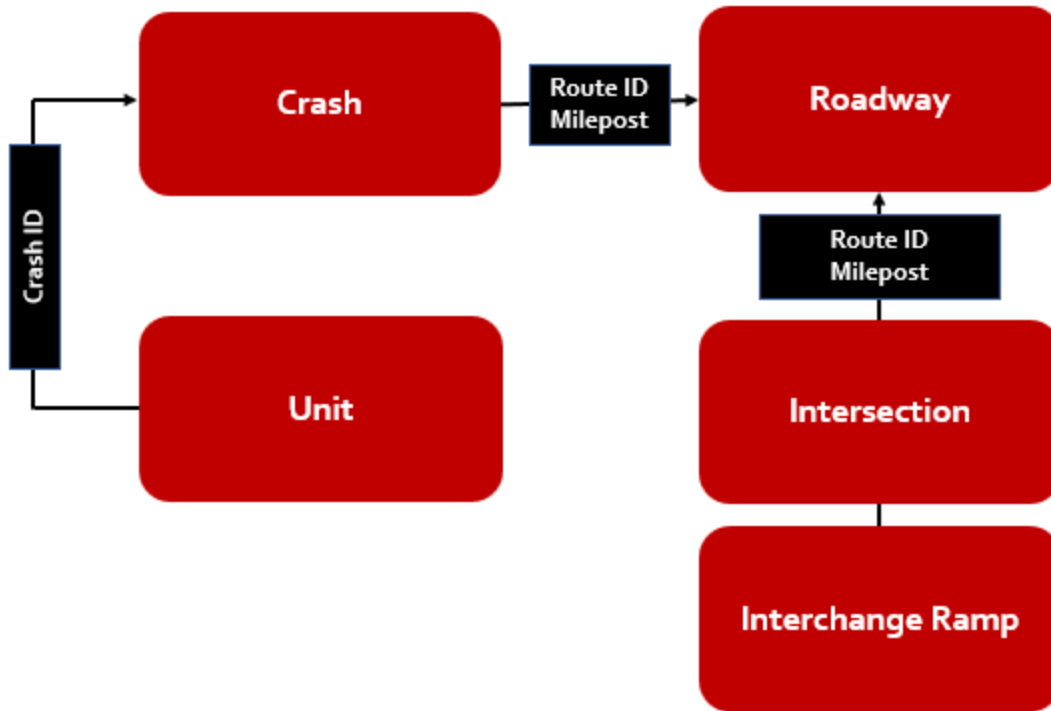


Figure 2. California HSIS Data Files and Linking Variables.

## Roadway File (2018 – 2020)

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

The *Route ID* is the key linking variable between the base roadway inventory and the associated datasets, (e.g., Crash, Intersection, and Intersection Ramps). California uses a county route system as part of the State’s linear referencing system (LRS); in other words, the mileposts associated with a single route (e.g., State Route 84) reset to ‘0’ when the route enters a county. The end milepost value will vary by county depending on the length of the route within a given county. Figure 3 provides an example of the *Route ID* naming convention for State Route 1 in Orange County. It is a concatenation of the *District*, *Route Number*, *Route Suffix*<sup>1</sup>, *County*, *Postmile Prefix*<sup>1</sup>, and *Postmile Suffix*<sup>1</sup>.

<sup>1</sup> (If present for the segment)

	District		Route Number			Route Suffix (if present)		County			Postmile Prefix (if present)		Postmile Suffix (if present)
Route ID	1	2	0	0	1		-	O	R	A	R	-	
Position	1	2	3	4	5	6	7	8	9	10	11	12	13

Figure 3. Example of California’s Route ID Naming Convention.

## Intersection (2018 – 2020)

This file provides the location of two or more public roads that intersect when at least one of the roadways is a State highway in California. This includes the location of the intersection on the State highway (i.e., milepost), as well as approach information for both the mainline (i.e., the State highway), as well as the cross-street. Route and location information only applies to the mainline, however.

## Interchange Ramp (2018 – 2020)

This file provides information associated with interchange ramps on State highways in California. The milepost associated with each ramp represents the location where the ramp enters the freeway (i.e., the “gore” location). Although there is no common identifier to link ramps to a single interchange, the route and milepost associated with each ramp can be used to inform relationships between individual ramps.

## Crash File (2018 – 2020)

Crash data are contained in two separate files. The Crash file contains basic information on the crash. Related information on the vehicles, pedestrians, and bicyclists involved in each crash are contained in the corresponding Unit 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 the Unit file using the Crash ID. The Crash file can be linked to the Roadway Inventory file using the *Route ID* and *Milepost* variables. These two variables are provided in the original data from the California Department of Transportation (Caltrans). The prescribed accident-reporting threshold is currently death, personal injury, or \$1,000 in property damage.

## Unit File (2018 – 2020)

This file provides information on the individual parties (i.e., vehicles, pedestrians, or bicyclists) involved in crashes on California roads. The Unit file can be linked to the Crash file through the *Crash ID* variable.

## Using the Files Together

Figure 1 highlighted the linkages between each of the 5 California files. Researchers can use these files together to understand the circumstances, location, and vehicles and individuals involved in a crash. The California HSIS data can be linked and aggregated using 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 alphabetic 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, researchers 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 *Crash ID* and *Route ID*. *Crash ID* is used

to link the Crash and Unit files. For other variables, duplicated variable names across files are because the same information has been aggregated twice. For example, *Highway Group* is recorded in both the Intersection and Interchange Ramp files. 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 intersection-related crashes in California. Specifically, they are interested in injury severity at different types of intersections, and they want to control for traffic volumes on all approaches.

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.
- AADT.
- Median Type.
- Median Width.
- Average Lane Width.
- Right and Left Shoulder Widths.
- Design Speed (as an approximation of posted speed limit).
- Number of Lanes – Total.

#### Intersection Variables

- Mainline Route ID (*linkable to the Route ID variable in the Roadway file*).
- Milepost (*this is the major or mainline route*).
- Traffic Control Type.
- Intersection Type.
- Intersection Light Type.
- Mainline AADT.
- Mainline Traffic Flow.



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- Mainline Left/Right Turn Channelization.
- Cross Street AADT.
- Cross Street Traffic Flow.
- Cross Street Left/Right Turn Channelization.

### Crash Variables

- Route ID (*linkable to the Route ID variable in the Roadway file*).
- Milepost (*necessary for linking crashes to the Roadway file*).
- Crash ID (*linkable to the Crash ID variable in the Unit file*).
- Crash Date.
- Time of Crash.
- Crash Severity.
- Crash Type.
- Traffic Control Operating.
- Light Condition.
- Truck Involvement.
- Alcohol Involved.
- Bicycle Involved.
- Pedestrian Involved.

### Unit Variables

- Crash ID (*linkable to the Crash ID variable in the Crash file*).
- Unit Number.
- Movement Type.

The analyst does not request any information from the Interchange Ramp file. When merging the files, the student should note that the Crash, Unit, Intersection, 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, pedestrian, or bicyclist 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 *Crash ID*. 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.

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## Available Data

Table 1 provides a summary of all variables currently available in HSIS for the 5 files. Attributes and fields have evolved since the introduction of California into the HSIS data system, and users should carefully consider these changes during the data collection research process.

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

VARIABLE NAME	VARIABLE DESCRIPTION	DATA FILE
AADT	AADT	ROADWAY
ACCESS	ACCESS CONTROL	ROADWAY
LANEWID	AVERAGE LANE WIDTH	ROADWAY
BEGMP	BEGIN MILEPOST	ROADWAY
CITY	CITY	ROADWAY
COUNTY	COUNTY	ROADWAY
DESG_SPD	DESIGN SPEED	ROADWAY
DISTRICT	DISTRICT	ROADWAY
DIVIDED	DIVIDED HIGHWAY	ROADWAY
ENDMP	END MILEPOST	ROADWAY
HWY_GRP	HIGHWAY ALIGNMENT	ROADWAY
PAV_WDL	LEFT PAVED SHOULDER WIDTH (INSIDE)	ROADWAY
PAV_WDL2	LEFT PAVED SHOULDER WIDTH (OUTSIDE)	ROADWAY
LSHLDWID	LEF SHOULDER WIDTH (INSIDE)	ROADWAY
LSHL_WD2	LEFT SHOULDER WIDTH (OUTSIDE)	ROADWAY
MEDBARTY	MEDIAN BARRIER TYPE	ROADWAY
MED_TYPE	MEDIAN TYPE	ROADWAY
MED_VAR	MEDIAN VARIANCE	ROADWAY
MEDWID	MEDIAN WIDTH	ROADWAY
NO_LANE1	NUMBER OF LANES (RIGHT/INCREASING)	ROADWAY
NO_LANE2	NUMBER OF LANES (LEFT/DECREASING)	ROADWAY
PSMILPRF	POSTMILE PREFIX	ROADWAY
PSMILSUF	POSTMILE SUFFIX	ROADWAY
RODWYCLS	ROADWAY CLASS	ROADWAY
RTE_NBR	ROADWAY ROUTE NUMBER	ROADWAY
RTE_SUF	ROUTE SUFFIX	ROADWAY
PAV_WIDR	RIGHT PAVED SHOULDER WIDTH (OUTSIDE)	ROADWAY
PAV_WDR2	RIGHT PAVED SHOULDER WIDTH (INSIDE)	ROADWAY
RSHLDWID	RIGHT SHOULDER WIDTH (OUTSIDE)	ROADWAY
RSHL_WD2	RIGHT SHOULDER WIDTH (INSIDE)	ROADWAY
CNTRYRTE	ROUTE ID	ROADWAY
ROUTE_ID	ROUTE ID (GIS)	ROADWAY
RURURB	RURAL/URBAN	ROADWAY
SEG_LNG	SECTION LENGTH	ROADWAY
SURF_TYP	SURFACE TYPE (LEFT/DECREASING)	ROADWAY

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SURF_TY2	SURFACE TYPE (RIGHT/INCREASING)	ROADWAY
TERRAIN	TERRAIN	ROADWAY
NO_LANES	TOTAL NUMBER OF LANES	ROADWAY
SURF_WID	TRAVEL WAY WIDTH (LEFT/DECREASING)	ROADWAY
SURF_WD2	TRAVEL WAY WIDTH (RIGHT/INCREASING)	ROADWAY
CITY_CODE	CITY CODE	INTERSECTION
COUNTY	COUNTY	INTERSECTION
DISTRICT	DISTRICT	INTERSECTION
HWY_GRP	HIGHWAY ALIGNMENT	INTERSECTION
INT_RTE	INTERSECTING ROUTE NUMBER	INTERSECTION
INT_RSUF	INTERSECTION ROUTE SUFFIX	INTERSECTION
INT_DESC	INTERSECTION NAME	INTERSECTION
INT_DTE	INTERSECTION EFFECTIVE NAME	INTERSECTION
LGHT_TYP	INTERSECTION LIGHT TYPE	INTERSECTION
INTMP	INTERSECTION MILEPOST	INTERSECTION
TYPDESC	INTERSECTION TYPE	INTERSECTION
ML_AADT	MAINLINE AADT	INTERSECTION
ML_LEFT	MAINLINE LEFT TURN CHANNELIZATION	INTERSECTION
ML_LANES	MAINLINE NUMBER OF LANES	INTERSECTION
ML_RIGHT	MAINLINE RIGHT TURN CHANNELIZATION	INTERSECTION
CNTYRTE	MAINLINE ROUTE ID	INTERSECTION
ML_MAST	MAINLINE SIGNAL MAST ARM	INTERSECTION
ML_TRFLO	MAINLINE TRAFFIC FLOW	INTERSECTION
MILEPOST	MILEPOST	INTERSECTION
PSMILPRF	POSTMILE PREFIX	INTERSECTION
PSMILSUF	POSTMILE SUFFIX	INTERSECTION
RTE_NBR	ROADWAY ROUTE NUMBER	INTERSECTION
RTE_SUF	ROADWAY ROUTE SUFFIX	INTERSECTION
ROUTE_ID	ROUTE ID (GIS)	INTERSECTION
INT_POPGRP	RURAL/URBAN	INTERSECTION
TRF_CNTL	TRAFFIC CONTROL TYPE	INTERSECTION
XSTAADT	X-STREET AADT	INTERSECTION
INTY_RTE	X-STREET COUNTY ROUTE	INTERSECTION
XSTRTLFT	X-STREET LEFT TURN CHANNELIZATION	INTERSECTION
XSTLANES	X-STREET NUMBER OF LANES	INTERSECTION
XSTRTRGH	X-STREET RIGHT TURN CHANNELIZATION	INTERSECTION
XST_RSUF	X-STREET ROUTE SUFFIX	INTERSECTION
XSTRTMST	X-STREET SIGNAL MAST ARM	INTERSECTION
XSTSTRT	X-STREET STATE ROUTE	INTERSECTION

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XSTTRFLO	X-STREET TRAFFIC FLOW	INTERSECTION
CITY_CODE	CITY CODE	INTERCHANGE RAMP
COUNTY	COUNTY	INTERCHANGE RAMP
DISTRICT	DISTRICT	INTERCHANGE RAMP
HWY_GRP	HIGHWAY ALIGNMENT	INTERCHANGE RAMP
ON_OFFRP	ON/OFF RAMP INDICATOR	INTERCHANGE RAMP
PSMILPRF	POSTMILE PREFIX	INTERCHANGE RAMP
PSMILSUF	POSTMILE SUFFIX	INTERCHANGE RAMP
RMP_AADT	RAMP AADT	INTERCHANGE RAMP
AREA <sub>4</sub>	RAMP AREA <sub>4</sub> INDICATOR	INTERCHANGE RAMP
MILEPOST	RAMP MILEPOST	INTERCHANGE RAMP
CNTYRTE	ROUTE ID	INTERCHANGE RAMP
ROUTE_ID	ROUTE ID (GIS)	INTERCHANGE RAMP
RTE_NBR	ROUTE NUMBER	INTERCHANGE RAMP
RTE_SUF	ROUTE SUFFIX	INTERCHANGE RAMP
RMP_POPGRP	RURAL/URBAN	INTERCHANGE RAMP
ALCH_FLG	ALCOHOL INVOLVED	CRASH
BIKE_FLG	BICYCLE INVOLVED IN THE CRASH	CRASH
COUNTY	COUNTY	CRASH
ACC_DATE	CRASH DATE	CRASH
ACC_ID	CRASH ID	CRASH
RPT_LEV	CRASH REPORT LEVEL	CRASH
SEVERITY	CRASH SEVERITY	CRASH
ACCYR	CRASH YEAR	CRASH
WEEKDAY	DAY OF WEEK	CRASH
DISTRICT	DISTRICT	CRASH
FILETYP	FILE TYPE	CRASH
INTER	INTERSECTION CRASH	CRASH
INT_RMP	INTERSECTION/RAMP CRASH LOCATION	CRASH
LIGHT	LIGHT CONDITION	CRASH
LOC_TYP	LOCATION TYPE	CRASH
MILEPOST	MILEPOST	CRASH
MTCY_FLG	MOTORCYCLE INVOLVED	CRASH
PED_FLG	PEDESTRIAN FLAG	CRASH
TOT_INJ	PERSONS INJURED	CRASH
TOT_KILL	PERSONS KILLED	CRASH
PSMILPRF	POSTMILE PREFIX	CRASH
PSMILSUF	POSTMILE SUFFIX	CRASH
CAUSE <sub>1</sub>	PRIMARY COLLISION FACTOR	CRASH

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RDSURF	ROAD SURFACE	CRASH
RODWYCLS	ROADWAY CLASS	CRASH
RD_DEF1	ROADWAY CONDITION	CRASH
RTE_NBR	ROADWAY ROUTE NUMBER	CRASH
CNTYRTE	ROUTE ID	CRASH
ROUTE_ID	ROUTE ID (GIS)	CRASH
RTE_SUF	ROUTE SUFFIX	CRASH
HOURL	TIME OF CRASH	CRASH
TOT_BIKE_INJ	TOTAL BICYCLISTS INJURED	CRASH
TOT_BIKEKIL	TOTAL BICYCLISTS KILLED	CRASH
TOT_MTCYLINJ	TOTAL MOTORCYCLISTS INJURED	CRASH
TOT_MTCYLKIL	TOTAL MOTORCYCLISTS KILLED	CRASH
TOT_PEDINJ	TOTAL PEDESTRIANS INJURED	CRASH
TOT_PEDKILL	TOTAL PEDESTRIANS KILLED	CRASH
NUMVEHS	TOTAL NUMBER OF VEHICLES	CRASH
TRF_OPER	TRAFFIC CONTROL OPERATING	CRASH
TRK_FLG	TRUCK INVOLVEMENT	CRASH
ACCTYPE	TYPE OF CRASH	CRASH
WEATHER	WEATHER PRIMARY	CRASH
WEATHER1	WEATHER SECONDARY	CRASH
ACC_ID	CRASH ID	UNIT
POSN_1	CRASH LOCATION 1	UNIT
POSN_2	CRASH LOCATION 2	UNIT
POSN_3	CRASH LOCATION 3	UNIT
POSN_4	CRASH LOCATION 4	UNIT
HWY_IND_TYPE	HIGHWAY INDICATOR TYPE	UNIT
MOVEMENT_TYPE	MOVEMENT TYPE	UNIT
OBJECT_1	OBJECT STRUCK 1	UNIT
OBJECT_2	OBJECT STRUCK 2	UNIT
OBJECT_3	OBJECT STRUCK 3	UNIT
OBJECT_4	OBJECT STRUCK 4	UNIT
IMPAIRMENT_CODE_2	PARTY DRUG OR PHYSICAL IMPAIRMENT	UNIT
IMPAIRMENT_CODE_1	PARTY SOBRIETY	UNIT
PED_ACTN	PEDESTRIAN ACTION	UNIT
PED_INJ_CODE	PEDESTRIAN INJURY CODE	UNIT
SPECIAL_FACTOR_CODE	SPECIAL INFORMATION	UNIT
MAJOR_INJURY	TOTAL SUSPECTED SERIOUS INJURIES	UNIT
MINOR_INJURY	TOTAL SUSPECTED MINOR INJURIES	UNIT
POSSIBLE_INJURY	TOTAL POSSIBLE INJURIES	UNIT

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UNIT_VEC	UNIT NUMBER	UNIT
VEH_DIR	UNIT TRAVEL DIRECTION	UNIT
PARTY_GROUP	UNIT TYPE – GENERAL	UNIT
PARTY_TYPE	UNIT TYPE – SPECIFIC	UNIT

# Roadway File

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## AADT

Variable Name: AADT

*Definition:* Calculated average AADT (e.g., '1,100').

*Field Type:* Numeric.

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## Access Control

Variable Name: ACCESS

*Definition:* Level of access control on the roadway segment (e.g., 'Freeway').

*Field Type:* Text.

---

## Average Lane Width

Variable Name: LANEWID

*Definition:* Average lane width of the roadway segment (e.g., '12').

*Field Type:* Numeric.

---

## Begin Milepost

Variable Name: BEGMP

*Definition:* Beginning milepost number (e.g., '0.129').

*Field Type:* Numeric.

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## City

Variable Name: CITY

*Definition:* City where the crash occurred.

*Field Type:* Coded.

'ADA'	ARCADIA	'AND'	ANDERSON
'ADEL'	ADELANTO	'ANG'	ANGELS CAMP
'AGRH'	AGOURA HILLS	'ANT'	ANTIOCH
'ALA'	ALAMEDA	'APLV'	APPLE VALLEY
'ALB'	ALBANY	'ARC'	ARCATA
'ALH'	ALHAMBRA	'ARGD'	ARROYO GRANDE
'ALT'	ALTURAS	'ART'	ARTESIA
'AMCN'	AMERICAN CANYON	'ARV'	ARVIN
'ANA'	ANAHEIM	'ATAS'	ATASCADERO



## Roadway File

'ATN'	ATHERTON	'CLNG'	COALINGA
'ATW'	ATWATER	'CLP'	CALIPATRIA
'AUB'	AUBURN	'CLU'	COLUSA
'AVNL'	AVENAL	'CLVD'	CLOVERDALE
'AZU'	AZUSA	'CLX'	CALEXICO
'BAN'	BANNING	'CMAD'	CORTE MADERA
'BAU'	BEAUMONT	'CMB'	CAMPBELL
'BBL'	BIG BEAR LAKE	'CMRC'	COMMERCE
'BELL'	BELL	'CMRL'	CAMARILLO
'BEN'	BENICIA	'CMS'	COSTA MESA
'BER'	BERKELEY	'CMSA'	CALIMESA
'BFL'	BELLFLOWER	'CND'	CONCORD
'BIS'	BISHOP	'COA'	COACHELLA
'BKD'	BAKERSFIELD	'COL'	COLTON
'BLY'	BLYTHE	'COM'	COMPTON
'BMT'	BELMONT	'COR'	CORONA
'BPK'	BUENA PARK	'CORD'	CORONADO
'BRB'	BURBANK	'COTI'	COTATI
'BRE'	BREA	'CPO'	CUPERTINO
'BRW'	BRAWLEY	'CPTL'	CAPITOLA
'BSBN'	BRISBANE	'CRC'	CRESCENT CITY
'BSW'	BARSTOW	'CRCN'	CORCORAN
'BURL'	BURLINGAME	'CRSN'	CARSON
'BWP'	BALDWIN PARK	'CRTS'	CERRITOS
'CAL'	CALABASAS	'CSTG'	CALISTOGA
'CARP'	CARPINTERIA	'CTHC'	CATHEDRAL CITY
'CBD'	CARLSBAD	'DAPT'	DANA POINT
'CER'	CERES	'DBLN'	DUBLIN
'CFX'	COLFAX	'DLC'	DALY CITY
'CHC'	CHICO	'DLN'	DELANO
'CHN'	CHINO	'DMBR'	DIAMOND BAR
'CHNH'	CHINO HILLS	'DMR'	DUNSMUIR
'CHV'	CHULA VISTA	'DNVL'	DANVILLE
'CHW'	CHOWCHILLA	'DNY'	DOWNEY
'CLA'	CLAREMONT	'DPLS'	DOS PALOS
'CLC'	CULVER CITY	'DRO'	DEL REY OAKS
'CLLK'	CLEARLAKE	'DRS'	DORRIS
'CLM'	COLMA	'DRT'	DUARTE

## Roadway File

'DVS'	DAVIS	'GNDL'	GLENDALE
'DXN'	DIXON	'GNFD'	GREENFIELD
'ECJ'	EL CAJON	'GNZ'	GONZALES
'ECN'	EL CENTRO	'GRC'	GROVER BEACH
'ECR'	EL CERRITO	'GRD'	GRIDLEY
'ELKG'	ELK GROVE	'GRTR'	GRAND TERRACE
'EMTE'	EL MONTE	'GUS'	GUSTINE
'EMV'	EMERYVILLE	'GVY'	GRASS VALLEY
'ENTS'	ENCINITAS	'HAN'	HANFORD
'EPAO'	EAST PALO ALTO	'HAW'	HAWTHORNE
'ESD'	ESCONDIDO	'HAY'	HAYWARD
'ESEG'	EL SEGUNDO	'HEM'	HEMET
'ESL'	ESCALON	'HER'	HERCULES
'ESN'	LAKE ELSINORE	'HES'	HESPERIA
'ETN'	ETNA	'HIGH'	HIGHLAND
'EUR'	EUREKA	'HIL'	HILLSBOROUGH
'EXR'	EXETER	'HLBG'	HEALDSBURG
'FBG'	FORT BRAGG	'HMB'	HERMOSA BEACH
'FER'	FERNDALE	'HMBY'	HALF MOON BAY
'FIL'	FILLMORE	'HNTB'	HUNTINGTON BEACH
'FIR'	FIREBAUGH		
'FJN'	FORT JONES	'HNTP'	HUNTINGTON PARK
'FMT'	FREMONT	'HOLT'	HOLTVILLE
'FNA'	FONTANA	'HRN'	HURON
'FNV'	FOUNTAIN VALLEY	'HST'	HOLLISTER
'FOW'	FOWLER	'IDY'	INDUSTRY
'FRE'	FRESNO	'IMB'	IMPERIAL BEACH
'FRFD'	FAIRFIELD	'IND'	INDIO
'FRFX'	FAIRFAX	'ING'	INGLEWOOD
'FSTC'	FOSTER CITY	'ION'	IONE
'FTA'	FORTUNA	'IRVN'	IRVINE
'FUL'	FULLERTON	'IRW'	IRWINDALE
'GAL'	GALT	'IST'	ISLETON
'GAR'	GARDENA	'JKN'	JACKSON
'GDLP'	GUADALUPE	'KMN'	KERMAN
'GDR'	GLENDORA	'KNC'	KING CITY
'GGR'	GARDEN GROVE	'KNGB'	KINGSBURG
'GIL'	GILROY	'LA'	LOS ANGELES

## Roadway File

'LAH'	LOS ALTOS HILLS	'MAD'	MADERA
'LALM'	LOS ALAMITOS	'MAL'	MALIBU
'LAN'	LANCASTER	'MANB'	MANHATTAN BEACH
'LATS'	LOS ALTOS		
'LBCH'	LONG BEACH	'MCF'	MCFARLAND
'LBNS'	LOS BANOS	'MCL'	MONTCLAIR
'LCF'	LA CANADA FLINTRIDGE	'MCP'	MARICOPA
		'MDA'	MENDOTA
'LEM'	LEMOORE	'MER'	MERCED
'LFYT'	LAFAYETTE	'MGH'	MORGAN HILL
'LGNB'	LAGUNA BEACH	'MLBR'	MILLBRAE
'LGNG'	LAGUNA NIGUEL	'MLP'	MENLO PARK
'LGNH'	LAGUNA HILLS	'MMLK'	MAMMOTH LAKES
'LGTS'	LOS GATOS	'MNRO'	MONROVIA
'LHB'	LA HABRA	'MNTG'	MONTAGUE
'LIO'	LIVE OAK	'MOBY'	MORRO BAY
'LKFR'	LAKE FOREST	'MOD'	MODESTO
'LKPT'	LAKEPORT	'MON'	MONTEREY
'LKSP'	LARKSPUR	'MONP'	MONTEREY PARK
'LKW'	LAKESWOOD	'MORV'	MORENO VALLEY
'LMGR'	LEMON GROVE	'MPS'	MILPITAS
'LMLN'	LOMA LINDA	'MRNA'	MARINA
'LMRD'	LA MIRADA	'MRPK'	MOORPARK
'LMS'	LOOMIS	'MRTA'	MURRIETA
'LMSA'	LA MESA	'MSHA'	MOUNT SHASTA
'LMTA'	LOMITA	'MSNV'	MISSION VIEJO
'LNDL'	LAWNDALE	'MSO'	MONTE SERENO
'LNSY'	LINDSAY	'MTBL'	MONTEBELLO
'LOD'	LODI	'MTCA'	MANTECA
'LOM'	LOMPOC	'MTZ'	MARTINEZ
'LOY'	LOYALTON	'MVL'	MARYSVILLE
'LPMA'	LA PALMA	'MVW'	MOUNTAIN VIEW
'LPU'	LA PUENTE	'MYD'	MAYWOOD
'LTRP'	LATHROP	'NAP'	NAPA
'LVMR'	LIVERMORE	'NATC'	NATIONAL CITY
'LVN'	LA VERNE	'NED'	NEEDLES
'LVTN'	LIVINGSTON	'NEVC'	NEVADA CITY
'LYN'	LYNWOOD	'NEWM'	NEWMAN

## Roadway File

'NPTB'	NEWPORT BEACH	'PRV'	PICO RIVERA
'NRCO'	NORCO	'PSP'	PALM SPRINGS
'NRW'	NORWALK	'PSRS'	PASO ROBLES
'NVTO'	NOVATO	'PTA'	POINT ARENA
'NWK'	NEWARK	'PTRV'	PORTERVILLE
'OAK'	OAKLAND	'PWY'	POWAY
'OCN'	OCEANSIDE	'RBL'	RED BLUFF
'OJI'	OJAI	'RCH'	RICHMOND
'OKDL'	OAKDALE	'RCUC'	RANCHO CUCAMONGA
'ONT'	ONTARIO		
'ORA'	ORANGE	'RDEL'	RIO DELL
'ORCV'	ORANGE COVE	'RDG'	REDDING
'ORIN'	ORINDA	'RDL'	REDLANDS
'ORL'	ORLAND	'RDOB'	REDONDO BEACH
'OVL'	OROVILLE	'RDWC'	REDWOOD CITY
'OXN'	OXNARD	'RGCR'	RIDGECREST
'PA'	PALO ALTO	'RIA'	RIALTO
'PAS'	PASADENA	'RIP'	RIPON
'PAT'	PATTERSON	'RIV'	RIVERSIDE
'PBCH'	PISMO BEACH	'RNPK'	ROHNERT PARK
'PDST'	PALM DESERT	'ROC'	ROCKLIN
'PER'	PERRIS	'ROPV'	RANCHO PALOS VERDES
'PET'	PETALUMA		
'PFA'	PACIFICA	'RSM'	RANCHO SANTA MARGARITA
'PGR'	PACIFIC GROVE		
'PHME'	PORT HUENEME	'RSMD'	ROSEMEAD
'PIN'	PINOLE	'RSV'	ROSEVILLE
'PIT'	PITTSBURG	'RVBK'	RIVERBANK
'PLCN'	PLACENTIA	'RVS'	RIO VISTA
'PLCR'	PLACERVILLE	'SA'	SANTA ANA
'PLE'	PLEASANTON	'SAC'	SACRAMENTO
'PLHL'	PLEASANT HILL	'SAL'	SALINAS
'PLY'	PLYMOUTH	'SAR'	SARATOGA
'PMDL'	PALMDALE	'SAUS'	SAUSALITO
'POM'	POMONA	'SB'	SANTA BARBARA
'PRDS'	PARADISE	'SBD'	SAN BERNARDINO
'PRM'	PARAMOUNT	'SBR'	SAN BRUNO
'PRTL'	PORTOLA	'SCAR'	SAN CARLOS

## Roadway File

'SCL'	SANTA CLARA	'SOLB'	SOLANA BEACH
'SCLE'	SAN CLEMENTE	'SON'	SONOMA
'SCR'	SANTA CRUZ	'SPA'	SANTA PAULA
'SCTA'	SANTA CLARITA	'SPAS'	SOUTH PASADENA
'SCTV'	SCOTTS VALLEY	'SPB'	SAN PABLO
'SD'	SAN DIEGO	'SRA'	SONORA
'SDMS'	SAN DIMAS	'SRF'	SAN RAFAEL
'SEA'	SEASIDE	'SRMN'	SAN RAMON
'SEB'	SEBASTOPOL	'SRO'	SANTA ROSA
'SEL'	SELMA	'SSF'	SOUTH SAN FRANCISCO
'SEMT'	SOUTH EL MONTE		
'SF'	SAN FRANCISCO	'STCK'	SUTTER CREEK
'SFSP'	SANTA FE SPRINGS	'STKN'	STOCKTON
'SGB'	SAN GABRIEL	'STT'	STANTON
'SGT'	SOUTH GATE	'SUIS'	SUISUN CITY
'SHLA'	SAINT HELENA	'SUNV'	SUNNYVALE
'SHLK'	SHASTA LAKE	'SUSV'	SUSANVILLE
'SIGH'	SIGNAL HILL	'TAF'	TAFT
'SIMV'	SIMI VALLEY	'TBRN'	TIBURON
'SJB'	SAN JUAN	'THOK'	THOUSAND OAKS
	BAUTISTA	'THPI'	TEHACHAPI
'SJCP'	SAN JUAN	'TMCA'	TEMECULA
	CAPISTRANO	'TMPC'	TEMPLE CITY
'SJS'	SAN JOSE	'TNP'	TWENTYNINE PALMS
'SLB'	SEAL BEACH		
'SLMO'	SAN ANSELMO	'TOR'	TORRANCE
'SLN'	SAN LEANDRO	'TRA'	TRACY
'SLO'	SAN LUIS OBISPO	'TRK'	TRUCKEE
'SLTO'	SOUTH LAKE TAHOE	'TRND'	TRINIDAD
		'TUL'	TULARE
'SLVG'	SOLVANG	'TUR'	TURLOCK
'SM'	SAN MATEO	'TUS'	TUSTIN
'SMCA'	SANTA MONICA	'UKI'	UKIAH
'SMCS'	SAN MARCOS	'UNC'	UNION CITY
'SMRA'	SANTA MARIA	'UPL'	UPLAND
'SNDC'	SAND CITY	'VAC'	VACAVILLE
'SNT'	SANTEE	'VAL'	VALLEJO
'SOL'	SOLEDAD	'VCTV'	VICTORVILLE

## Roadway File

'VEN'	VENTURA	'WLKV'	WESTLAKE VILLAGE
'VER'	VERNON	'WLOS'	WILLOWS
'VIS'	VISALIA	'WLTS'	WILLITS
'VSTA'	VISTA	'WMD'	WESTMORLAND
'WAS'	WASCO	'WMS'	WILLIAMS
'WAT'	WATSONVILLE	'WSAC'	WEST
'WCOV'	WEST COVINA		SACRAMENTO
'WD'	WOODLAND	'WTM'	WESTMINSTER
'WDS'	WOODSIDE	'WTRF'	WATERFORD
'WEED'	WEED	'YC'	YUBA CITY
'WHT'	WHEATLAND	'YCPA'	YUCAIPA
'WIN'	WINTERS	'YNTV'	YOUNTVILLE
'WIT'	WHITTIER	'YRE'	YREKA
'WLC'	WALNUT CREEK	'YUCV'	YUCCA VALLEY
'WLK'	WOODLAKE		

## County

Variable Name: COUNTY

*Definition:* County where the crash occurred.

*Field Type:* Coded.

'ALA'	Alameda	'LAS'	Lassen
'ALP'	Alpine	'LA'	Los Angeles
'AMA'	Amador	'MAD'	Madera
'BUT'	Butte	'MRN'	Marin
'CAL'	Calaveras	'MPA'	Mariposa
'COL'	Colusa	'MEN'	Mendocino
'CC'	Contra Costa	'MER'	Merced
'DN'	Del Norte	'MOD'	Modoc
'ED'	El Dorado	'MNO'	Mono
'FRE'	Fresno	'MON'	Monterey
'GLE'	Glenn	'NAP'	Napa
HUM'	Humboldt	'NEV'	Nevada
'IMP'	Imperial	'ORA'	Orange
'INY'	Inyo	'PLA'	Placer
'KER'	Kern	'PLU'	Plumas
'KIN'	Kings	'RIV'	Riverside
'LAK'	Lake	'SAC'	Sacramento

## Roadway File

'SBT'	San Benito	'SIS'	Siskiyou
'SBD'	San Bernardino	'SOL'	Solano
'SD'	San Diego	'SON'	Sonoma
'SF'	San Francisco	'STA'	Stanislaus
'SJ'	San Joaquin	'SUT'	Sutter
'SLO'	San Luis Obispo	'TEH'	Tehama
'SM'	San Mateo	'TRI'	Trinity
'SB'	Santa Barbara	'TUL'	Tulare
'SCL'	Santa Clara	'TUO'	Tuolumne
'SCR'	Santa Cruz	'VEN'	Ventura
'SHA'	Shasta	'YOL'	Yolo
'SIE'	Sierra	'YUB'	Yuba

---

### Design Speed

Variable Name: DESG\_SPD

*Definition:* Design speed of the roadway segment in miles per hour (e.g., '30').

*Field Type:* Numeric.

---

### District

Variable Name: DISTRICT

*Definition:* Caltrans district in which the roadway segment is located (e.g., '12 - Orange County').

*Field Type:* Text.

---

### Divided Highway

Variable Name: DIVIDED

*Definition:* Indicator of a median divided highway (e.g., 'Yes').

*Field Type:* Text.

---

### End Milepost

Variable Name: ENDMP

*Definition:* Ending milepost number (e.g., '0.17').

*Field Type:* Numeric.

---

### Highway Alignment

Variable Name: HWY\_GRP

*Definition:* The alignment of the section of highway (e.g., 'Divided Highway').

*Field Type:* Text.

---

### Left Paved Shoulder Width (Inside)

Variable Name: PAV\_WDL

### Left Paved Shoulder Width (Outside)

Variable Name: PAV\_WDL2

*Definition:* Width of the paved shoulder on the 'left' alignment roadway segment in feet (e.g., '3'). This refers to the direction of decreasing mileposts.

*Field Type:* Numeric.



## Roadway File

---

### Left Shoulder Width (Inside)

Variable Name: LSHLDWID

### Left Shoulder Width (Outside)

Variable Name: LSHL\_WD2

*Definition:* Total width of the shoulder on the 'left' alignment roadway segment in feet (e.g., '3'). This refers to the direction of decreasing mileposts.

*Field Type:* Numeric.

---

### Median Barrier Type

Variable Name: MEDBARTY

*Definition:* Type of median barrier of the roadway segment (e.g., 'Guardrail in Median Both Roadway')

*Field Type:* Text.

---

### Median Type

Variable Name: MED\_TYPE

*Definition:* Type of median on the roadway segment (e.g., 'Paved Median').

*Field Type:* Text.

---

### Median Variance

Variable Name: MED\_VAR

*Definition:* Indicator median width varies for the roadway segment (e.g., 'Variable').

*Field Type:* Text.

---

### Median Width

Variable Name: MEDWID

*Definition:* Median width in feet (e.g., '14').

*Field Type:* Numeric.

---

### Number of Lanes (Right/Increasing)

Variable Name: NO\_LANE1

### Number of Lanes (Left/Decreasing)

Variable Name: NO\_LANE2

*Definition:* Number through lanes towards increasing and decreasing mileposts, respectively (e.g., '1').

## Roadway File

*Field Type:* Numeric.

---

### Postmile Prefix

**Variable Name:** PSMILPRF

*Definition:* An alpha code attached as a prefix to the postmile value to make the postmile value unique to other postmiles on the route that are numerically the same (e.g., 'Overlap postmile').

*Field Type:* Text.

---

### Postmile Suffix

**Variable Name:** PSMILSUF

*Definition:* An alpha code attached as a suffix to the postmile value to further define the road segment (e.g., 'Left independent alignment').

*Field Type:* Text.

---

### 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

---

\* Variable created or edited by HSIS Lab

## Roadway File

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### Roadway Route Number

Variable Name: RTE\_NBR

*Definition:* Route number of the roadway segment (e.g., '9').

*Field Type:* Numeric.

---

### Route Suffix

Variable Name: RTE\_SUF

*Definition:* This is an alpha code attached as a suffix to the route number to identify a highway (Truck or Busway route) with duplicate route number (e.g., 'Supplemental').

*Field Type:* Text.

---

### Right Paved Shoulder Width (Outside)

Variable Name: PAV\_WIDR

### Right Paved Shoulder Width (Inside)

Variable Name: PAV\_WDR2

*Definition:* Width of the paved shoulder on the 'right' alignment roadway segment in feet (e.g., '3'). This refers to the direction of increasing mileposts.

*Field Type:* Numeric.

---

### Right Shoulder Width (Outside)

Variable Name: RSHLDWID

### Right Shoulder Width (Inside)

Variable Name: RSHL\_WD2

*Definition:* Total width of the shoulder on the 'right' alignment roadway segment in feet (e.g., '3'). This refers to the direction of increasing mileposts.

*Field Type:* Numeric.

---

### Route ID

Variable Name: CNTYRTE

*Definition:* Unique identifier of the route (e.g., '04004\_CCR\_R').

*Field Type:* Text.

---

### Route ID (GIS)

Variable Name: ROUTE\_ID

*Definition:* Unique identifier of the LRS route specifically used for locating features in GIS (e.g., 'CC4\_RR').

## Roadway File

*Field Type:* Text.

---

### Rural/Urban

**Variable Name:** RURURB

*Definition:* Rural-urban indicator for the segment (e.g., 'Urbanized').

*Field Type:* Text.

---

### Section Length

**Variable Name:** SEG\_LNG

*Definition:* Roadway segment length in miles (e.g., '0.041').

*Field Type:* Numeric.

---

### Surface Type (Left/Decreasing)

**Variable Name:** SURF\_TYP

### Surface Type (Right/Increasing)

**Variable Name:** SURF\_TY2

*Definition:* Surface type of the roadway segment (e.g., 'AC - Base & Surface > 7' Thick').

*Field Type:* Text.

---

### Terrain

**Variable Name:** TERRAIN

*Definition:* The general type of physical terrain (i.e., grade) of the roadway segment (e.g., 'Flat').

*Field Type:* Text.

---

### Total Number of Lanes

**Variable Name:** NO\_LANES

*Definition:* Total number of through lanes. This is the sum of the *Number of Lanes (Right/Increasing)* and *Number of Lanes (Left/Decreasing)* fields (e.g., '4').

*Field Type:* Numeric.

### Travel Way Width (Left/Decreasing)

Variable Name: SURF\_WID

### Travel Way Width (Right/Increasing)

Variable Name: SURF\_WD2

*Definition:* Width of travel way on the roadway segment in feet (e.g., '36'). This value matches the *Total Number of Lanes* multiplied by the *Average Lane Width* value.

*Field Type:* Numeric.

# Intersection File

## Intersection File

### City Code

Variable Name: CITY\_CODE

*Definition:* City in which the intersection is located.

*Field Type:* Coded.

'ADA'	ARCADIA	'BLY'	BLYTHE
'ADEL'	ADELANTO	'BMT'	BELMONT
'AGRH'	AGOURA HILLS	'BPK'	BUENA PARK
'ALA'	ALAMEDA	'BRB'	BURBANK
'ALB'	ALBANY	'BRE'	BREA
'ALH'	ALHAMBRA	'BRW'	BRAWLEY
'ALT'	ALTURAS	'BSBN'	BRISBANE
'AMCN'	AMERICAN CANYON	'BSW'	BARSTOW
'ANA'	ANAHEIM	'BURL'	BURLINGAME
'AND'	ANDERSON	'BWP'	BALDWIN PARK
'ANG'	ANGELS CAMP	'CAL'	CALABASAS
'ANT'	ANTIOCH	'CARP'	CARPINTERIA
'APLV'	APPLE VALLEY	'CBD'	CARLSBAD
'ARC'	ARCATA	'CER'	CERES
'ARGD'	ARROYO GRANDE	'CFX'	COLFAX
'ART'	ARTESIA	'CHC'	CHICO
'ARV'	ARVIN	'CHN'	CHINO
'ATAS'	ATASCADERO	'CHNH'	CHINO HILLS
'ATN'	ATHERTON	'CHV'	CHULA VISTA
'ATW'	ATWATER	'CHW'	CHOWCHILLA
'AUB'	AUBURN	'CLA'	CLAREMONT
'AVNL'	AVENAL	'CLC'	CULVER CITY
'AZU'	AZUSA	'CLLK'	CLEARLAKE
'BAN'	BANNING	'CLM'	COLMA
'BAU'	BEAUMONT	'CLNG'	COALINGA
'BBL'	BIG BEAR LAKE	'CLP'	CALIPATRIA
'BELL'	BELL	'CLU'	COLUSA
'BEN'	BENICIA	'CLVD'	CLOVERDALE
'BER'	BERKELEY	'CLX'	CALEXICO
'BFL'	BELLFLOWER	'CMAD'	CORTE MADERA
'BIS'	BISHOP	'CMB'	CAMPBELL
'BKD'	BAKERSFIELD	'CMRC'	COMMERCE

## Intersection File

'CMRL'	CAMARILLO	'ENTS'	ENCINITAS
'CMS'	COSTA MESA	'EPAO'	EAST PALO ALTO
'CMSA'	CALIMESA	'ESD'	ESCONDIDO
'CND'	CONCORD	'ESEG'	EL SEGUNDO
'COA'	COACHELLA	'ESL'	ESCALON
'COL'	COLTON	'ESN'	LAKE ELSINORE
'COM'	COMPTON	'ETN'	ETNA
'COR'	CORONA	'EUR'	EUREKA
'CORD'	CORONADO	'EXR'	EXETER
'COTI'	COTATI	'FBG'	FORT BRAGG
'CPO'	CUPERTINO	'FER'	FERNDALE
'CPTL'	CAPITOLA	'FIL'	FILLMORE
'CRC'	CRESCENT CITY	'FIR'	FIREBAUGH
'CRCN'	CORCORAN	'FJN'	FORT JONES
'CRSN'	CARSON	'FMT'	FREMONT
'CRTS'	CERRITOS	'FNA'	FONTANA
'CSTG'	CALISTOGA	'FNV'	FOUNTAIN VALLEY
'CTHC'	CATHEDRAL CITY	'FOW'	FOWLER
'DAPT'	DANA POINT	'FRE'	FRESNO
'DBLN'	DUBLIN	'FRFD'	FAIRFIELD
'DLC'	DALY CITY	'FRFX'	FAIRFAX
'DLN'	DELANO	'FSTC'	FOSTER CITY
'DMBR'	DIAMOND BAR	'FTA'	FORTUNA
'DMR'	DUNSMUIR	'FUL'	FULLERTON
'DNVL'	DANVILLE	'GAL'	GALT
'DNY'	DOWNEY	'GAR'	GARDENA
'DPLS'	DOS PALOS	'GDLP'	GUADALUPE
'DRO'	DEL REY OAKS	'GDR'	GLENDORA
'DRS'	DORRIS	'GGR'	GARDEN GROVE
'DRT'	DUARTE	'GIL'	GILROY
'DVS'	DAVIS	'GNDL'	GLENDALE
'DXN'	DIXON	'GNFD'	GREENFIELD
'ECJ'	EL CAJON	'GNZ'	GONZALES
'ECN'	EL CENTRO	'GRC'	GROVER BEACH
'ECR'	EL CERRITO	'GRD'	GRIDLEY
'ELKG'	ELK GROVE	'GRTR'	GRAND TERRACE
'EMTE'	EL MONTE	'GUS'	GUSTINE
'EMV'	EMERYVILLE	'GVY'	GRASS VALLEY



## Intersection File

'HAN'	HANFORD	'LEM'	LEMOORE
'HAW'	HAWTHORNE	'LFYT'	LAFAYETTE
'HAY'	HAYWARD	'LGNB'	LAGUNA BEACH
'HEM'	HEMET	'LGNG'	LAGUNA NIGUEL
'HER'	HERCULES	'LGNH'	LAGUNA HILLS
'HES'	HESPERIA	'LGTS'	LOS GATOS
'HIGH'	HIGHLAND	'LHB'	LA HABRA
'HIL'	HILLSBOROUGH	'LIO'	LIVE OAK
'HLBG'	HEALDSBURG	'LKFR'	LAKE FOREST
'HMB'	HERMOSA BEACH	'LKPT'	LAKEPORT
'HMBY'	HALF MOON BAY	'LKSP'	LARKSPUR
'HNTB'	HUNTINGTON BEACH	'LKW'	LAKESWOOD
'HNTP'	HUNTINGTON PARK	'LMGR'	LEMON GROVE
'HOLT'	HOLTVILLE	'LMLN'	LOMA LINDA
'HRN'	HURON	'LMRD'	LA MIRADA
'HST'	HOLLISTER	'LMS'	LOOMIS
'IDY'	INDUSTRY	'LMSA'	LA MESA
'IMB'	IMPERIAL BEACH	'LMTA'	LOMITA
'IND'	INDIO	'LNDL'	LAWNDALE
'ING'	INGLEWOOD	'LNSY'	LINDSAY
'ION'	IONE	'LOD'	LODI
'IRVN'	IRVINE	'LOM'	LOMPOC
'IRW'	IRWINDALE	'LOY'	LOYALTON
'IST'	ISLETON	'LPMA'	LA PALMA
'JKN'	JACKSON	'LPU'	LA PUENTE
'KMN'	KERMAN	'LTRP'	LATHROP
'KNC'	KING CITY	'LVMR'	LIVERMORE
'KNCB'	KINGSBURG	'LVN'	LA VERNE
'LA'	LOS ANGELES	'LVTN'	LIVINGSTON
'LAH'	LOS ALTOS HILLS	'LYN'	LYNWOOD
'LALM'	LOS ALAMITOS	'MAD'	MADERA
'LAN'	LANCASTER	'MAL'	MALIBU
'LATS'	LOS ALTOS	'MANB'	MANHATTAN BEACH
'LBCH'	LONG BEACH	'MCF'	MCFARLAND
'LBNS'	LOS BANOS	'MCL'	MONTCLAIR
'LCF'	LA CANADA FLINTRIDGE	'MCP'	MARICOPA
		'MDA'	MENDOTA

## Intersection File

'MER'	MERCED	'OKDL'	OAKDALE
'MGH'	MORGAN HILL	'ONT'	ONTARIO
'MLBR'	MILLBRAE	'ORA'	ORANGE
'MLP'	MENLO PARK	'ORCV'	ORANGE COVE
'MMLK'	MAMMOTH LAKES	'ORIN'	ORINDA
'MNRO'	MONROVIA	'ORL'	ORLAND
'MNTG'	MONTAGUE	'OVL'	OROVILLE
'MOBY'	MORRO BAY	'OXN'	OXNARD
'MOD'	MODESTO	'PA'	PALO ALTO
'MON'	MONTEREY	'PAS'	PASADENA
'MONP'	MONTEREY PARK	'PAT'	PATTERSON
'MORV'	MORENO VALLEY	'PBCH'	PISMO BEACH
'MPS'	MILPITAS	'PDST'	PALM DESERT
'MRNA'	MARINA	'PER'	PERRIS
'MRPK'	MOORPARK	'PET'	PETALUMA
'MRTA'	MURRIETA	'PFA'	PACIFICA
'MSHA'	MOUNT SHASTA	'PGR'	PACIFIC GROVE
'MSNV'	MISSION VIEJO	'PHME'	PORT HUENEME
'MSO'	MONTE SERENO	'PIN'	PINOLE
'MTBL'	MONTEBELLO	'PIT'	PITTSBURG
'MTCA'	MANTECA	'PLCN'	PLACENTIA
'MTZ'	MARTINEZ	'PLCR'	PLACERVILLE
'MVL'	MARYSVILLE	'PLE'	PLEASANTON
'MVW'	MOUNTAIN VIEW	'PLHL'	PLEASANT HILL
'MYD'	MAYWOOD	'PLY'	PLYMOUTH
'NAP'	NAPA	'PMDL'	PALMDALE
'NATC'	NATIONAL CITY	'POM'	POMONA
'NED'	NEEDLES	'PRDS'	PARADISE
'NEVC'	NEVADA CITY	'PRM'	PARAMOUNT
'NEWM'	NEWMAN	'PRTL'	PORTOLA
'NPTB'	NEWPORT BEACH	'PRV'	PICO RIVERA
'NRCO'	NORCO	'PSP'	PALM SPRINGS
'NRW'	NORWALK	'PSRS'	PASO ROBLES
'NVTO'	NOVATO	'PTA'	POINT ARENA
'NWK'	NEWARK	'PTRV'	PORTERVILLE
'OAK'	OAKLAND	'PWY'	POWAY
'OCN'	OCEANSIDE	'RBL'	RED BLUFF
'OJI'	OJAI	'RCH'	RICHMOND

## Intersection File

'RCUC'	RANCHO CUCAMONGA	'SEB'	SEBASTOPOL
'RDEL'	RIO DELL	'SEL'	SELMA
'RDG'	REDDING	'SEMT'	SOUTH EL MONTE
'RDL'	REDLANDS	'SF'	SAN FRANCISCO
'RDOB'	REDONDO BEACH	'SFSP'	SANTA FE SPRINGS
'RDWC'	REDWOOD CITY	'SGB'	SAN GABRIEL
'RGCR'	RIDGECREST	'SGT'	SOUTH GATE
'RIA'	RIALTO	'SHLA'	SAINT HELENA
'RIP'	RIPON	'SHLK'	SHASTA LAKE
'RIV'	RIVERSIDE	'SIGH'	SIGNAL HILL
'RNPK'	ROHNERT PARK	'SIMV'	SIMI VALLEY
'ROC'	ROCKLIN	'SJB'	SAN JUAN BAUTISTA
'ROPV'	RANCHO PALOS VERDES	'SJCP'	SAN JUAN CAPISTRANO
'RSM'	RANCHO SANTA MARGARITA	'SJS'	SAN JOSE
'RSMD'	ROSEMEAD	'SLB'	SEAL BEACH
'RSV'	ROSEVILLE	'SLMO'	SAN ANSELMO
'RVBK'	RIVERBANK	'SLN'	SAN LEANDRO
'RVS'	RIO VISTA	'SLO'	SAN LUIS OBISPO
'SA'	SANTA ANA	'SLTO'	SOUTH LAKE TAHOE
'SAC'	SACRAMENTO	'SLVG'	SOLVANG
'SAL'	SALINAS	'SM'	SAN MATEO
'SAR'	SARATOGA	'SMCA'	SANTA MONICA
'SAUS'	SAUSALITO	'SMCS'	SAN MARCOS
'SB'	SANTA BARBARA	'SMRA'	SANTA MARIA
'SBD'	SAN BERNARDINO	'SNDC'	SAND CITY
'SBR'	SAN BRUNO	'SNT'	SANTEE
'SCAR'	SAN CARLOS	'SOL'	SOLEDAD
'SCL'	SANTA CLARA	'SOLB'	SOLANA BEACH
'SCLE'	SAN CLEMENTE	'SON'	SONOMA
'SCR'	SANTA CRUZ	'SPA'	SANTA PAULA
'SCTA'	SANTA CLARITA	'SPAS'	SOUTH PASADENA
'SCTV'	SCOTTS VALLEY	'SPB'	SAN PABLO
'SD'	SAN DIEGO	'SRA'	SONORA
'SDMS'	SAN DIMAS	'SRF'	SAN RAFAEL
'SEA'	SEASIDE	'SRMN'	SAN RAMON

## Intersection File

'SRO'	SANTA ROSA	'VEN'	VENTURA
'SSF'	SOUTH SAN FRANCISCO	'VER'	VERNON
'STCK'	SUTTER CREEK	'VIS'	VISALIA
'STKN'	STOCKTON	'VSTA'	VISTA
'STT'	STANTON	'WAS'	WASCO
'SUIS'	SUISUN CITY	'WAT'	WATSONVILLE
'SUNV'	SUNNYVALE	'WCOV'	WEST COVINA
'SUSV'	SUSANVILLE	'WD'	WOODLAND
'TAF'	TAFT	'WDS'	WOODSIDE
'TBRN'	TIBURON	'WEED'	WEED
'THOK'	THOUSAND OAKS	'WHT'	WHEATLAND
'THPI'	TEHACHAPI	'WIN'	WINTERS
'TMCA'	TEMECULA	'WIT'	WHITTIER
'TMPC'	TEMPLE CITY	'WLC'	WALNUT CREEK
'TNP'	TWENTYNINE PALMS	'WLK'	WOODLAKE
'TOR'	TORRANCE	'WLKV'	WESTLAKE VILLAGE
'TRA'	TRACY	'WLOS'	WILLOWS
'TRK'	TRUCKEE	'WLTS'	WILLITS
'TRND'	TRINIDAD	'WMD'	WESTMORLAND
'TUL'	TULARE	'WMS'	WILLIAMS
'TUR'	TURLOCK	'WSAC'	WEST SACRAMENTO
'TUS'	TUSTIN	'WTM'	WESTMINSTER
'UKI'	UKIAH	'WTRF'	WATERFORD
'UNC'	UNION CITY	'YC'	YUBA CITY
'UPL'	UPLAND	'YCPA'	YUCAIPA
'VAC'	VACAVILLE	'YNTV'	YOUNTVILLE
'VAL'	VALLEJO	'YRE'	YREKA
'VCTV'	VICTORVILLE	'YUCV'	YUCCA VALLEY

## Intersection File

### County

Variable Name: COUNTY

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

*Field Type:* Coded.

'ALA'	Alameda	'SAC'	Sacramento
'ALP'	Alpine	'SBT'	San Benito
'AMA'	Amador	'SBD'	San Bernardino
'BUT'	Butte	'SD'	San Diego
'CAL'	Calaveras	'SF'	San Francisco
'COL'	Colusa	'SJ'	San Joaquin
'CC'	Contra Costa	'SLO'	San Luis Obispo
'DN'	Del Norte	'SM'	San Mateo
'ED'	El Dorado	'SB'	Santa Barbara
'FRE'	Fresno	'SCL'	Santa Clara
'GLE'	Glenn	'SCR'	Santa Cruz
HUM'	Humboldt	'SHA'	Shasta
'IMP'	Imperial	'SIE'	Sierra
'INY'	Inyo	'SIS'	Siskiyou
'KER'	Kern	'SOL'	Solano
'KIN'	Kings	'SON'	Sonoma
'LAK'	Lake	'STA'	Stanislaus
'LAS'	Lassen	'SUT'	Sutter
'LA'	Los Angeles	'TEH'	Tehama
'MAD'	Madera	'TRI'	Trinity
'MRN'	Marin	'TUL'	Tulare
'MPA'	Mariposa	'TUO'	Tuolumne
'MEN'	Mendocino	'VEN'	Ventura
'MER'	Merced	'YOL'	Yolo
'MOD'	Modoc	'YUB'	Yuba
'MNO'	Mono		
'MON'	Monterey		
'NAP'	Napa		
'NEV'	Nevada		
'ORA'	Orange		
'PLA'	Placer		
'PLU'	Plumas		
'RIV'	Riverside		

## Intersection File

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### District

Variable Name: DISTRICT

*Definition:* Caltrans district in which the intersection is located (e.g., '12 – Orange County').

*Field Type:* Text.

---

### Highway Alignment

Variable Name: HWY\_GRP

*Definition:* Highway group of the mainline in the intersection (e.g., 'Divided Highway').

*Field Type:* Text.

---

### Intersecting Route Number

Variable Name: INT\_RTE

*Definition:* Intersecting (cross street) route number (e.g., '395').

*Field Type:* Numeric.

---

### Intersecting Route Suffix

Variable Name: INT\_RSUF

*Definition:* Route suffix for the intersecting (i.e., cross street) route in the intersection (e.g., 'Unrelinquished').

*Field Type:* Text.

---

### Intersection Name

Variable Name: INT\_DESC

*Definition:* Intersection common name (e.g., 'TABLE ROCK DR/EAGLE ROCK WY').

*Field Type:* Text.

---

### Intersection Effective Date

Variable Name: INT\_DTE

*Definition:* Date of last change in intersection type or date originally designed if no update has been made. The oldest date is 1/1/1964 (MM/DD/YYYY).

*Field Type:* Date.

## Intersection File

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### Intersection Light Date

Variable Name: LGHT\_DTE

*Definition:* Date of last change in intersection lighting or date originally designed if no update has been made. The oldest date is 1/1/1964 (MM/DD/YYYY).

*Field Type:* Date.

---

### Intersection Light Type

Variable Name: LGHT\_TYP

*Definition:* Indicator that the intersection is lighted.

*Field Type:* Coded.

'N'	No Lighting
'Y'	Lighted

---

### Intersection Milepost

Variable Name: INTMP

*Definition:* Milepost of the cross street at the intersection (e.g., '5.4').

*Field Type:* Numeric.

---

### Intersection Type

Variable Name: TYPEDESC

*Definition:* Type of the intersection based on the intersection geometry (e.g., 'Four-legged').

*Field Type:* Text.

---

### Mainline AADT

Variable Name: ML\_AADT

*Definition:* Mainline AADT of the intersection (e.g., '21318').

*Field Type:* Numeric.

---

### Mainline Left Turn Channelization

Variable Name: ML\_LEFT

*Definition:* Left turn channelization on mainline at the intersection (e.g., 'Painted Left Turn Channelization').

*Field Type:* Text.

## Intersection File

### Mainline Number of Lanes

Variable Name: ML\_LANES

*Definition:* Number of lanes on the mainline at the intersection (e.g., '2').

*Field Type:* Numeric.

### Mainline Right Turn Channelization

Variable Name: ML\_RIGHT

*Definition:* Right turn channelization on the mainline of the intersection (e.g., 'Painted Right Turn Channelization').

*Field Type:* Text.

### Mainline Route ID

Variable Name: CNTYRTE

*Definition:* Route ID associated with the mainline route at the intersection. This can be used to link to other files in conjunction with the milepost field (e.g., '04004\_CCR\_R').

*Field Type:* Text.

### Mainline Signal Mast Arm

Variable Name: ML\_MAST

*Definition:* Presence of signal mast arm on the mainline of the intersection.

*Field Type:* Coded.

'N'	No Mast Arm
'Y'	Yes, Mast Arm

### Mainline Traffic Flow

Variable Name: ML\_TRFLO

*Definition:* Traffic flow type and operation on the mainline of the intersection (e.g., 'Two-Way Traffic - Left Turns Permitted').

*Field Type:* Text.



## Intersection File

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### Milepost

Variable Name: MILEPOST

*Definition:* Milepost of the intersection on the mainline (e.g., '21.04').

*Field Type:* Numeric.

---

### Postmile Prefix

Variable Name: PSMILPRF

*Definition:* A prefix to the postmile value to make the postmile value unique to other postmiles on the route that are numerically the same on the mainline at the intersection (e.g., 'Overlap postmile')

*Field Type:* Text.

---

### Postmile Suffix

Variable Name: PSMILSUF

*Definition:* An alpha code attached as a suffix to the postmile value to further define the road segment (e.g., 'Left independent alignment').

*Field Type:* Text.

---

### Roadway Route Number

Variable Name: RTE\_NBR

*Definition:* Route number of the mainline at the intersection (e.g., '23').

*Field Type:* Numeric.

---

### Roadway Route Suffix

Variable Name: RTE\_SUF

*Definition:* A suffix of the mainline road at the intersection to the postmile value to identify an equation (e.g., 'Supplemental').

*Field Type:* Text.

---

### Route ID (GIS)

Variable Name: ROUTE\_ID

*Definition:* Unique identifier of the LRS route specifically used for locating features in GIS (e.g., 'CC4\_RR').

*Field Type:* Text.

---

## Intersection File

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### Rural/Urban

Variable Name: INT\_POPGRP

*Definition:* Rural-urban indicator for the intersection (e.g., 'Urban').

*Field Type:* Text.

---

### Traffic Control Type

Variable Name: TRF\_CNTL

*Definition:* Traffic control type at the intersection (e.g., 'Stop Signs on Cross Street Only').

*Field Type:* Text.

---

### X-Street AADT

Variable Name: XSTAADT

*Definition:* Cross street AADT (e.g., '474').

*Field Type:* Numeric.

---

### X-Street County Route

Variable Name: INTY\_RTE

*Definition:* Cross street (intersecting route) county route (e.g., '08395 SBD U').

*Field Type:* Text.

---

### X-Street Left Turn Channelization

Variable Name: XSTRTLFT

*Definition:* Left turn channelization on the cross street (e.g., 'Curbed Median Left Turn Channelization').

*Field Type:* Text.

---

### X-Street Number of Lanes

Variable Name: XSTLANES

*Definition:* Number of lanes on the cross street (e.g., '2').

*Field Type:* Numeric.

---

## Intersection File

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### X-Street Right Turn Channelization

Variable Name: XSTRTRGH

*Definition:* Right turn channelization on the cross-street (e.g., 'Painted Right Turn Channelization').

*Field Type:* Text.

---

### X-Street Route Suffix

Variable Name: XST\_RSUF

*Definition:* A suffix to the route number to identify a highway with duplicate route number of the cross street ('Unrelinquished').

*Field Type:* Text.

---

### X-Street Signal Mast Arm

Variable Name: XSTRMST

*Definition:* Presence of signal mast arm on the cross street.

*Field Type:* Coded.

'N'	No Mast Arm
'Y'	Yes, Mast Arm

---

### X-Street State Route

Variable Name: XSTSTRT

*Definition:* State route number for the cross street if applicable (e.g., '905').

*Field Type:* Numeric.

---

### X-Street Traffic Flow

Variable Name: XSTTRFLO

*Definition:* Type of traffic flow on the cross-street (e.g., 'One-Way Traffic').

*Field Type:* Text.

# Interchange Ramp File

# Interchange Ramp File

## City Code

Variable Name: CITY\_CODE

Definition: City in which the ramp is located.

Field Type: Coded.

'ADA'	ARCADIA	'BLY'	BLYTHE
'ADEL'	ADELANTO	'BMT'	BELMONT
'AGRH'	AGOURA HILLS	'BPK'	BUENA PARK
'ALA'	ALAMEDA	'BRB'	BURBANK
'ALB'	ALBANY	'BRE'	BREA
'ALH'	ALHAMBRA	'BRW'	BRAWLEY
'ALT'	ALTURAS	'BSBN'	BRISBANE
'AMCN'	AMERICAN CANYON	'BSW'	BARSTOW
'ANA'	ANAHEIM	'BURL'	BURLINGAME
'AND'	ANDERSON	'BWP'	BALDWIN PARK
'ANG'	ANGELS CAMP	'CAL'	CALABASAS
'ANT'	ANTIOCH	'CARP'	CARPINTERIA
'APLV'	APPLE VALLEY	'CBD'	CARLSBAD
'ARC'	ARCATA	'CER'	CERES
'ARGD'	ARROYO GRANDE	'CFX'	COLFAX
'ART'	ARTESIA	'CHC'	CHICO
'ARV'	ARVIN	'CHN'	CHINO
'ATAS'	ATASCADERO	'CHNH'	CHINO HILLS
'ATN'	ATHERTON	'CHV'	CHULA VISTA
'ATW'	ATWATER	'CHW'	CHOWCHILLA
'AUB'	AUBURN	'CLA'	CLAREMONT
'AVNL'	AVENAL	'CLC'	CULVER CITY
'AZU'	AZUSA	'CLLK'	CLEARLAKE
'BAN'	BANNING	'CLM'	COLMA
'BAU'	BEAUMONT	'CLNG'	COALINGA
'BBL'	BIG BEAR LAKE	'CLP'	CALIPATRIA
'BELL'	BELL	'CLU'	COLUSA
'BEN'	BENICIA	'CLVD'	CLOVERDALE
'BER'	BERKELEY	'CLX'	CALEXICO
'BFL'	BELLFLOWER	'CMAD'	CORTE MADERA
'BIS'	BISHOP	'CMB'	CAMPBELL
'BKD'	BAKERSFIELD	'CMRC'	COMMERCE

## Interchange Ramp File

'CMRL'	CAMARILLO	'ENTS'	ENCINITAS
'CMS'	COSTA MESA	'EPAO'	EAST PALO ALTO
'CMSA'	CALIMESA	'ESD'	ESCONDIDO
'CND'	CONCORD	'ESEG'	EL SEGUNDO
'COA'	COACHELLA	'ESL'	ESCALON
'COL'	COLTON	'ESN'	LAKE ELSINORE
'COM'	COMPTON	'ETN'	ETNA
'COR'	CORONA	'EUR'	EUREKA
'CORD'	CORONADO	'EXR'	EXETER
'COTI'	COTATI	'FBG'	FORT BRAGG
'CPO'	CUPERTINO	'FER'	FERNDALE
'CPTL'	CAPITOLA	'FIL'	FILLMORE
'CRC'	CRESCENT CITY	'FIR'	FIREBAUGH
'CRCN'	CORCORAN	'FJN'	FORT JONES
'CRSN'	CARSON	'FMT'	FREMONT
'CRTS'	CERRITOS	'FNA'	FONTANA
'CSTG'	CALISTOGA	'FNV'	FOUNTAIN VALLEY
'CTHC'	CATHEDRAL CITY	'FOW'	FOWLER
'DAPT'	DANA POINT	'FRE'	FRESNO
'DBLN'	DUBLIN	'FRFD'	FAIRFIELD
'DLC'	DALY CITY	'FRFX'	FAIRFAX
'DLN'	DELANO	'FSTC'	FOSTER CITY
'DMBR'	DIAMOND BAR	'FTA'	FORTUNA
'DMR'	DUNSMUIR	'FUL'	FULLERTON
'DNVL'	DANVILLE	'GAL'	GALT
'DNY'	DOWNEY	'GAR'	GARDENA
'DPLS'	DOS PALOS	'GDLP'	GUADALUPE
'DRO'	DEL REY OAKS	'GDR'	GLENDORA
'DRS'	DORRIS	'GGR'	GARDEN GROVE
'DRT'	DUARTE	'GIL'	GILROY
'DVS'	DAVIS	'GNDL'	GLENDALE
'DXN'	DIXON	'GNFD'	GREENFIELD
'ECJ'	EL CAJON	'GNZ'	GONZALES
'ECN'	EL CENTRO	'GRC'	GROVER BEACH
'ECR'	EL CERRITO	'GRD'	GRIDLEY
'ELKG'	ELK GROVE	'GRTR'	GRAND TERRACE
'EMTE'	EL MONTE	'GUS'	GUSTINE
'EMV'	EMERYVILLE	'GVY'	GRASS VALLEY

## Interchange Ramp File

'HAN'	HANFORD	'LEM'	LEMOORE
'HAW'	HAWTHORNE	'LFYT'	LAFAYETTE
'HAY'	HAYWARD	'LGNB'	LAGUNA BEACH
'HEM'	HEMET	'LGNG'	LAGUNA NIGUEL
'HER'	HERCULES	'LGNH'	LAGUNA HILLS
'HES'	HESPERIA	'LGTS'	LOS GATOS
'HIGH'	HIGHLAND	'LHB'	LA HABRA
'HIL'	HILLSBOROUGH	'LIO'	LIVE OAK
'HLBG'	HEALDSBURG	'LKFR'	LAKE FOREST
'HMB'	HERMOSA BEACH	'LKPT'	LAKEPORT
'HMBY'	HALF MOON BAY	'LKSP'	LARKSPUR
'HNTB'	HUNTINGTON BEACH	'LKW'	LAKESWOOD
'HNTP'	HUNTINGTON PARK	'LMGR'	LEMON GROVE
'HOLT'	HOLTVILLE	'LMLN'	LOMA LINDA
'HRN'	HURON	'LMRD'	LA MIRADA
'HST'	HOLLISTER	'LMS'	LOOMIS
'IDY'	INDUSTRY	'LMSA'	LA MESA
'IMB'	IMPERIAL BEACH	'LMTA'	LOMITA
'IND'	INDIO	'LNDL'	LAWNDALE
'ING'	INGLEWOOD	'LNSY'	LINDSAY
'ION'	IONE	'LOD'	LODI
'IRVN'	IRVINE	'LOM'	LOMPOC
'IRW'	IRWINDALE	'LOY'	LOYALTON
'IST'	ISLETON	'LPMA'	LA PALMA
'JKN'	JACKSON	'LPU'	LA PUENTE
'KMN'	KERMAN	'LTRP'	LATHROP
'KNC'	KING CITY	'LVMR'	LIVERMORE
'KNCB'	KINGSBURG	'LVN'	LA VERNE
'LA'	LOS ANGELES	'LVTN'	LIVINGSTON
'LAH'	LOS ALTOS HILLS	'LYN'	LYNWOOD
'LALM'	LOS ALAMITOS	'MAD'	MADERA
'LAN'	LANCASTER	'MAL'	MALIBU
'LATS'	LOS ALTOS	'MANB'	MANHATTAN BEACH
'LBCH'	LONG BEACH	'MCF'	MCFARLAND
'LBNS'	LOS BANOS	'MCL'	MONTCLAIR
'LCF'	LA CANADA	'MCP'	MARICOPA
	FLINTRIDGE	'MDA'	MENDOTA

## Interchange Ramp File

'MER'	MERCED	'OKDL'	OAKDALE
'MGH'	MORGAN HILL	'ONT'	ONTARIO
'MLBR'	MILLBRAE	'ORA'	ORANGE
'MLP'	MENLO PARK	'ORCV'	ORANGE COVE
'MMLK'	MAMMOTH LAKES	'ORIN'	ORINDA
'MNRO'	MONROVIA	'ORL'	ORLAND
'MNTG'	MONTAGUE	'OVL'	OROVILLE
'MOBY'	MORRO BAY	'OXN'	OXNARD
'MOD'	MODESTO	'PA'	PALO ALTO
'MON'	MONTEREY	'PAS'	PASADENA
'MONP'	MONTEREY PARK	'PAT'	PATTERSON
'MORV'	MORENO VALLEY	'PBCH'	PISMO BEACH
'MPS'	MILPITAS	'PDST'	PALM DESERT
'MRNA'	MARINA	'PER'	PERRIS
'MRPK'	MOORPARK	'PET'	PETALUMA
'MRTA'	MURRIETA	'PFA'	PACIFICA
'MSHA'	MOUNT SHASTA	'PGR'	PACIFIC GROVE
'MSNV'	MISSION VIEJO	'PHME'	PORT HUENEME
'MSO'	MONTE SERENO	'PIN'	PINOLE
'MTBL'	MONTEBELLO	'PIT'	PITTSBURG
'MTCA'	MANTECA	'PLCN'	PLACENTIA
'MTZ'	MARTINEZ	'PLCR'	PLACERVILLE
'MVL'	MARYSVILLE	'PLE'	PLEASANTON
'MVW'	MOUNTAIN VIEW	'PLHL'	PLEASANT HILL
'MYD'	MAYWOOD	'PLY'	PLYMOUTH
'NAP'	NAPA	'PMDL'	PALMDALE
'NATC'	NATIONAL CITY	'POM'	POMONA
'NED'	NEEDLES	'PRDS'	PARADISE
'NEVC'	NEVADA CITY	'PRM'	PARAMOUNT
'NEWM'	NEWMAN	'PRTL'	PORTOLA
'NPTB'	NEWPORT BEACH	'PRV'	PICO RIVERA
'NRCO'	NORCO	'PSP'	PALM SPRINGS
'NRW'	NORWALK	'PSRS'	PASO ROBLES
'NVTO'	NOVATO	'PTA'	POINT ARENA
'NWK'	NEWARK	'PTRV'	PORTERVILLE
'OAK'	OAKLAND	'PWY'	POWAY
'OCN'	OCEANSIDE	'RBL'	RED BLUFF
'OJI'	OJAI	'RCH'	RICHMOND



## Interchange Ramp File

'RCUC'	RANCHO CUCAMONGA	'SEB'	SEBASTOPOL
'RDEL'	RIO DELL	'SEL'	SELMA
'RDG'	REDDING	'SEMT'	SOUTH EL MONTE
'RDL'	REDLANDS	'SF'	SAN FRANCISCO
'RDOB'	REDONDO BEACH	'SFSP'	SANTA FE SPRINGS
'RDWC'	REDWOOD CITY	'SGB'	SAN GABRIEL
'RGCR'	RIDGECREST	'SGT'	SOUTH GATE
'RIA'	RIALTO	'SHLA'	SAINT HELENA
'RIP'	RIPON	'SHLK'	SHASTA LAKE
'RIV'	RIVERSIDE	'SIGH'	SIGNAL HILL
'RNPK'	ROHNERT PARK	'SIMV'	SIMI VALLEY
'ROC'	ROCKLIN	'SJB'	SAN JUAN BAUTISTA
'ROPV'	RANCHO PALOS VERDES	'SJCP'	SAN JUAN CAPISTRANO
'RSM'	RANCHO SANTA MARGARITA	'SJS'	SAN JOSE
'RSMD'	ROSEMEAD	'SLB'	SEAL BEACH
'RSV'	ROSEVILLE	'SLMO'	SAN ANSELMO
'RVBK'	RIVERBANK	'SLN'	SAN LEANDRO
'RVS'	RIO VISTA	'SLO'	SAN LUIS OBISPO
'SA'	SANTA ANA	'SLTO'	SOUTH LAKE TAHOE
'SAC'	SACRAMENTO	'SLVG'	SOLVANG
'SAL'	SALINAS	'SM'	SAN MATEO
'SAR'	SARATOGA	'SMCA'	SANTA MONICA
'SAUS'	SAUSALITO	'SMCS'	SAN MARCOS
'SB'	SANTA BARBARA	'SMRA'	SANTA MARIA
'SBD'	SAN BERNARDINO	'SNDC'	SAND CITY
'SBR'	SAN BRUNO	'SNT'	SANTEE
'SCAR'	SAN CARLOS	'SOL'	SOLEDAD
'SCL'	SANTA CLARA	'SOLB'	SOLANA BEACH
'SCLE'	SAN CLEMENTE	'SON'	SONOMA
'SCR'	SANTA CRUZ	'SPA'	SANTA PAULA
'SCTA'	SANTA CLARITA	'SPAS'	SOUTH PASADENA
'SCTV'	SCOTTS VALLEY	'SPB'	SAN PABLO
'SD'	SAN DIEGO	'SRA'	SONORA
'SDMS'	SAN DIMAS	'SRF'	SAN RAFAEL
'SEA'	SEASIDE	'SRMN'	SAN RAMON

## Interchange Ramp File

'SRO'	SANTA ROSA	'VEN'	VENTURA
'SSF'	SOUTH SAN FRANCISCO	'VER'	VERNON
'STCK'	SUTTER CREEK	'VIS'	VISALIA
'STKN'	STOCKTON	'VSTA'	VISTA
'STT'	STANTON	'WAS'	WASCO
'SUIS'	SUISUN CITY	'WAT'	WATSONVILLE
'SUNV'	SUNNYVALE	'WCOV'	WEST COVINA
'SUSV'	SUSANVILLE	'WD'	WOODLAND
'TAF'	TAFT	'WDS'	WOODSIDE
'TBRN'	TIBURON	'WEED'	WEED
'THOK'	THOUSAND OAKS	'WHT'	WHEATLAND
'THPI'	TEHACHAPI	'WIN'	WINTERS
'TMCA'	TEMECULA	'WIT'	WHITTIER
'TMPC'	TEMPLE CITY	'WLC'	WALNUT CREEK
'TNP'	TWENTYNINE PALMS	'WLK'	WOODLAKE
'TOR'	TORRANCE	'WLKV'	WESTLAKE VILLAGE
'TRA'	TRACY	'WLOS'	WILLOWS
'TRK'	TRUCKEE	'WLTS'	WILLITS
'TRND'	TRINIDAD	'WMD'	WESTMORLAND
'TUL'	TULARE	'WMS'	WILLIAMS
'TUR'	TURLOCK	'WSAC'	WEST SACRAMENTO
'TUS'	TUSTIN	'WTM'	WESTMINSTER
'UKI'	UKIAH	'WTRF'	WATERFORD
'UNC'	UNION CITY	'YC'	YUBA CITY
'UPL'	UPLAND	'YCPA'	YUCAIPA
'VAC'	VACAVILLE	'YNTV'	YOUNTVILLE
'VAL'	VALLEJO	'YRE'	YREKA
'VCTV'	VICTORVILLE	'YUCV'	YUCCA VALLEY

### County Code

Variable Name: COUNTY

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

*Field Type:* Coded.

'ALA'	Alameda	'AMA'	Amador
'ALP'	Alpine	'BUT'	Butte

## Interchange Ramp File

'CAL'	Calaveras	'PLU'	Plumas
'COL'	Colusa	'RIV'	Riverside
'CC'	Contra Costa	'SAC'	Sacramento
'DN'	Del Norte	'SBT'	San Benito
'ED'	El Dorado	'SBD'	San Bernardino
'FRE'	Fresno	'SD'	San Diego
'GLE'	Glenn	'SF'	San Francisco
HUM'	Humboldt	'SJ'	San Joaquin
'IMP'	Imperial	'SLO'	San Luis Obispo
'INY'	Inyo	'SM'	San Mateo
'KER'	Kern	'SB'	Santa Barbara
'KIN'	Kings	'SCL'	Santa Clara
'LAK'	Lake	'SCR'	Santa Cruz
'LAS'	Lassen	'SHA'	Shasta
'LA'	Los Angeles	'SIE'	Sierra
'MAD'	Madera	'SIS'	Siskiyou
'MRN'	Marin	'SOL'	Solano
'MPA'	Mariposa	'SON'	Sonoma
'MEN'	Mendocino	'STA'	Stanislaus
'MER'	Merced	'SUT'	Sutter
'MOD'	Modoc	'TEH'	Tehama
'MNO'	Mono	'TRI'	Trinity
'MON'	Monterey	'TUL'	Tulare
'NAP'	Napa	'TUO'	Tuolumne
'NEV'	Nevada	'VEN'	Ventura
'ORA'	Orange	'YOL'	Yolo
'PLA'	Placer	'YUB'	Yuba

---

### District

Variable Name: DISTRICT

*Definition:* Caltrans district in which the ramp is located (e.g., '07 – Los Angeles').

*Field Type:* Text.

---

### Highway Alignment

Variable Name: HWY\_GRP

*Definition:* The alignment of the highway (e.g., 'Divided Highway').

*Field Type:* Text.

## Interchange Ramp File

### On/Off Ramp Indicator

Variable Name: ON\_OFFRP

*Definition:* Indicator of the flow of traffic on the ramp. 'On' indicates traffic entering the mainline via the ramp, while 'off' indicates traffic exiting the mainline of the ramp.

*Field Type:* Coded.

'ON'	On Ramp
'OFF'	Off Ramp
'OTH'	Other

### Postmile Prefix

Variable Name: PSMILPRF

*Definition:* A prefix to the postmile value to make the postmile value unique to other postmiles on the route that are numerically the same (e.g., 'Realignment').

*Field Type:* Text.

### Postmile Suffix

Variable Name: PSMILSUF

*Definition:* An alpha code attached as a suffix to the postmile value to further define the road segment (e.g., 'Left independent alignment').

*Field Type:* Text.

### Ramp AADT

Variable Name: RMP\_ADT

*Definition:* AADT on the ramp (e.g., '6726').

*Field Type:* Numeric.

### Ramp Area<sub>4</sub> Indicator

Variable Name: AREA<sub>4</sub>

*Definition:* Area <sub>4</sub> is the area beyond the end of the ramp where the ramp traffic merges or mixes with the cross-street traffic. This area is coded as Area <sub>4</sub> only if the cross street is NOT a state highway or another ramp.

*Field Type:* Coded.

'Y'	Yes
-----	-----

## Interchange Ramp File

'N' No

---

### Ramp Milepost

Variable Name: MILEPOST

*Definition:* Milepost of the route on which the ramp is located (e.g., '19.768').

*Field Type:* Numeric.

---

### Route ID

Variable Name: CNTYRTE

*Definition:* Unique identifier of the route on which the ramp is located (e.g., '04004\_CCR\_R'). This represents the route on which the ramp gore is located.

*Field Type:* Text.

---

### Route ID (GIS)

Variable Name: ROUTE\_ID

*Definition:* Unique identifier of the LRS route specifically used for locating features in GIS (e.g., 'CC4\_RR').

*Field Type:* Text.

---

### Route Number

Variable Name: RTE\_NBR

*Definition:* The route number on which the ramp is located (e.g., '405').

*Field Type:* Numeric.

---

### Route Suffix

Variable Name: RTE\_SUF

*Definition:* A suffix to the route number to identify a highway (Truck or Busway route) with duplicate route number (e.g., 'Supplemental').

*Field Type:* Text.

---

### Rural/Urban

Variable Name: RMP\_POPGRP

*Definition:* Whether the ramp occurs in an urban or rural setting.

## Interchange Ramp File

*Field Type:* Coded.

'R'	Rural
'U'	Urbanized

# Crash File

## Alcohol Involved

Variable Name: ALCH\_FLG

*Definition:* Indicator that Alcohol was involved in the crash (e.g., 'Yes').

*Field Type:* Text.

## Bicycle Involved in the Crash

Variable Name: BIKE\_FLG

*Definition:* Indicator that a bicycle was involved in the crash (e.g., 'Yes').

*Field Type:* Text.

## County

Variable Name: COUNTY

*Definition:* County in which the crash occurred.

*Field Type:* Coded.

'ALA'	Alameda	'MAD'	Madera
'ALP'	Alpine	'MRN'	Marin
'AMA'	Amador	'MPA'	Mariposa
'BUT'	Butte	'MEN'	Mendocino
'CAL'	Calaveras	'MER'	Merced
'COL'	Colusa	'MOD'	Modoc
'CC'	Contra Costa	'MNO'	Mono
'DN'	Del Norte	'MON'	Monterey
'ED'	El Dorado	'NAP'	Napa
'FRE'	Fresno	'NEV'	Nevada
'GLE'	Glenn	'ORA'	Orange
HUM'	Humboldt	'PLA'	Placer
'IMP'	Imperial	'PLU'	Plumas
'INY'	Inyo	'RIV'	Riverside
'KER'	Kern	'SAC'	Sacramento
'KIN'	Kings	'SBT'	San Benito
'LAK'	Lake	'SBD'	San Bernardino
'LAS'	Lassen	'SD'	San Diego
'LA'	Los Angeles	'SF'	San Francisco



## Crash File

'SJ'	San Joaquin	'SIS'	Siskiyou
'SLO'	San Luis Obispo	'SOL'	Solano
'SM'	San Mateo	'SON'	Sonoma
'SB'	Santa Barbara	'STA'	Stanislaus
'SCL'	Santa Clara	'SUT'	Sutter
'SCR'	Santa Cruz	'TEH'	Tehama
'SHA'	Shasta	'TRI'	Trinity
'SIE'	Sierra	'TUL'	Tulare
		'TUO'	Tuolumne
		'VEN'	Ventura
		'YOL'	Yolo
		'YUB'	Yuba

## Crash File

---

### Crash Date

Variable Name: ACC\_DATE

*Definition:* Date when the crash occurred (e.g., MM/DD/YYYY).

*Field Type:* Date.

---

### Crash ID

Variable Name: ACC\_ID

*Definition:* Unique identifier of the crash. This variable can be used to link the Crash and Unit files (e.g., '4816062').

*Field Type:* Numeric.

---

### Crash Report Level

Variable Name: RPT\_LEV

*Definition:* Indicator that the crash was reportable based on the legal reporting threshold (e.g., 'Above Reporting Level').

*Field Type:* Text.

---

### Crash Severity

Variable Name: SEVERITY

*Definition:* The most severe injury in the crash (e.g., 'Suspected Serious Injury').

*Field Type:* Text.

---

### Crash Year

Variable Name: ACCYR

*Definition:* Year crash occurred (e.g., '2018').

*Field Type:* Numeric.

---

### Day of Week

Variable Name: WEEKDAY

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

*Field Type:* Coded.

'SUN'      Sunday

## Crash File

'MON'	Monday
'TUE'	Tuesday
'WED'	Wednesday
'THU'	Thursday
'FRI'	Friday
'SAT'	Saturday

---

### District

Variable Name: DISTRICT

*Definition:* Caltrans district in which the crash occurred (e.g., '12 - Orange County').

*Field Type:* Text.

---

### File Type

Variable Name: FILETYP

*Definition:* File type record of the crash (e.g., 'Highway Record').

*Field Type:* Text.

---

### Intersection Crash

Variable Name: INTER

*Definition:* Indicator that the crash occurred in an intersection (e.g., 'In Intersection').

*Field Type:* Text.

---

### Intersection/Ramp Crash Location

Variable Name: INT\_RMP

*Definition:* Location of the crash in relation to a ramp or intersection (e.g., 'Ramp Intersection (Exit)').

*Field Type:* Text.

---

### Light Condition

Variable Name: LIGHT

*Definition:* The type/level of light present at the time of the crash (e.g., 'Dark - Street Light').

*Field Type:* Text.

## Crash File

---

### Location Type

Variable Name: LOC\_TYP

*Definition:* Location type of the crash (e.g., 'Highway').

*Field Type:* Text.

---

### Milepost

Variable Name: MILEPOST

*Definition:* Reference point (i.e., milepost) where the crash occurred along the applicable route (e.g., '0.606').

*Field Type:* Numeric.

---

### Motorcycle Involved

Variable Name: MTCY\_FLG

*Definition:* Indicator that a motorcyclist was involved in the crash (e.g., 'Yes').

*Field Type:* Text.

---

### Pedestrian Flag

Variable Name: PED\_FLG

*Definition:* Indicator that a pedestrian was involved in the crash (e.g., 'Yes').

*Field Type:* Text.

---

### Persons Injured

Variable Name: TOT\_INJ

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

*Field Type:* Numeric.

---

### Persons Killed

Variable Name: TOT\_KILL

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

*Field Type:* Numeric.

---

## Crash File

---

### Postmile Prefix

Variable Name: PSMILPRF

*Definition:* An alpha code attached as a prefix to the postmile value to make the postmile value unique to other postmiles on the route that are numerically the same (e.g., 'Duplicate postmile at meandering county line').

*Field Type:* Text.

---

### Postmile Suffix

Variable Name: PSMILSUF

*Definition:* An alpha code attached as a suffix to the postmile value to identify an equation (e.g., 'Right independent alignment').

*Field Type:* Text.

---

### Primary Collision Factor

Variable Name: CAUSE1

*Definition:* Primary contributing factor associated with the crash (e.g., 'Failure to Yield').

*Field Type:* Text.

---

### Road Surface

Variable Name: RDSURF

*Definition:* The condition of the road surface when the crash occurred (e.g., 'Wet').

*Field Type:* Text.

---

### 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

---

\* Variable created or edited by HSIS Lab

## Crash File

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 Condition

Variable Name: RD\_DEF1

*Definition:* Notable exceptional conditions associated with the road when the crash occurred (e.g., 'Flooded').

*Field Type:* Text.

---

### Roadway Route Number

Variable Name: RTE\_NBR

*Definition:* The number of the route where the crash occurred (e.g., '1').

*Field Type:* Numeric.

---

### Route ID

Variable Name: CNTYRTE

*Definition:* Unique identifier of the route on which the crash occurred (e.g., '04004\_CCR\_R').

*Field Type:* Text.

---

### Route ID (GIS)

Variable Name: ROUTE\_ID

*Definition:* Unique identifier of the LRS route specifically used for locating features in GIS (e.g., 'CC4\_RR').

*Field Type:* Text.

## Crash File

---

### Route Suffix

Variable Name: RTE\_SUF

*Definition:* This is an alpha code attached as a suffix to the route number to identify a highway (Truck or Busway route) with duplicate route number (e.g., 'Supplemental').

*Field Type:* Text.

---

### Time of Crash

Variable Name: HOUR

*Definition:* Time at which the crash occurred using a 24-hour clock (e.g., '1630').

*Field Type:* Numeric.

---

### Total Bicyclists Injured

Variable Name: TOT\_BIKE\_INJ

*Definition:* Total number of bicyclists injured in the crash (e.g., '1').

*Field Type:* Numeric.

---

### Total Bicyclists Killed

Variable Name: TOT\_BIKEKIL

*Definition:* Total number of bicyclists killed in the crash (e.g., '0').

*Field Type:* Numeric.

---

### Total Motorcyclists Injured

Variable Name: TOT\_MTCYLINJ

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

*Field Type:* Numeric.

---

### Total Motorcyclists Killed

Variable Name: TOT\_MTCYLKIL

*Definition:* Total number of motorcyclists killed in the crash (e.g., '0').

*Field Type:* Numeric.

---

### Total Pedestrians Injured

Variable Name: TOT\_PEDINJ

*Definition:* Total number of pedestrians injured in the crash (e.g., '0').

## Crash File

*Field Type:* Numeric.

---

### Total Pedestrians Killed

**Variable Name:** TOT\_PEDKILL

*Definition:* Total number of pedestrians killed in the crash (e.g., '0').

*Field Type:* Numeric.

---

### Total Number of Vehicles

**Variable Name:** NUMVEHS

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

*Field Type:* Numeric.

---

### Traffic Control Operating

**Variable Name:** TRF\_OPER

*Definition:* Indicator of the traffic control's operational status at the time and location of the crash (e.g., 'Control Functioning').

*Field Type:* Text.

---

### Truck Involvement

**Variable Name:** TRK\_FLG

*Definition:* Indicator that a truck was involved in the crash (e.g., 'Yes').

*Field Type:* Text.

---

### Type of Crash

**Variable Name:** ACCTYPE

*Definition:* Type of collision associated with the crash (e.g., 'Rear End').

*Field Type:* Text.

---

### Weather Primary

**Variable Name:** WEATHER

### Weather Secondary

**Variable Name:** WEATHER<sub>1</sub>

*Definition:* The weather condition at the time of the crash. There is a second field for supplementary weather conditions (e.g., 'Cloudy, Fog').



## Crash File

*Field Type:* Text.

# Unit File

---

### Crash ID

Variable Name: ACC\_ID

*Definition:* Unique identifier of the crash. This variable can be used to link the Unit and Crash files (e.g., '4816062').

*Field Type:* Numeric.

---

### Crash Location 1

Variable Name: POSN\_1

### Crash Location 2

Variable Name: POSN\_2

### Crash Location 3

Variable Name: POSN\_3

### Crash Location 4

Variable Name: POSN\_4

*Definition:* The primary location of the collision. Additional fields reflect subsequent locations associated with the crash (e.g., 'Right Lane, Beyond Shoulder Drivers Right').

*Field Type:* Text.

---

### Highway Indicator Type

Variable Name: HWY\_IND\_TYPE

*Definition:* The unit's relationship to a state highway (e.g., 'Intersecting State Road').

*Field Type:* Text.

---

### Movement Type

Variable Name: MOVEMENT\_TYPE

*Definition:* The type of movement associated with the unit at the time of the crash (e.g., 'Slowing/Stopping').

*Field Type:* Text.

---

### Object Struck 1

Variable Name: OBJECT\_1

### Object Struck 2

Variable Name: OBJECT\_2

### Object Struck 3

Variable Name: OBJECT\_3

### Object Struck 4

Variable Name: OBJECT\_4

*Definition:* First object struck with every subsequent object field representing the next object struck if applicable (e.g., 'Light or Signal Pole', 'Over Embankment').

*Field Type:* Text.

---

### Party Drug or Physical Impairment

Variable Name: IMPAIRMENT\_CODE\_2

*Definition:* Any drug or physical impairment that led to the crash (e.g., 'Under Drug Influence').

*Field Type:* Text.

---

### Party Sobriety

Variable Name: IMPAIRMENT\_CODE\_1

*Definition:* Applicable alcohol or drug impairment if applicable (e.g., 'HBD\_Under Influence (>0.08%)')

*Field Type:* Text.

---

### Pedestrian Action

Variable Name: PED\_ACTN

*Definition:* The location and action of the pedestrian if the unit is a pedestrian (e.g., 'Xing – Not Xwalk').

*Field Type:* Text.

---

### Pedestrian Injury Code

Variable Name: PED\_INJ\_CODE

*Definition:* The level of injury that the pedestrian sustained in the crash.

*Field Type:* Coded.

'I'	Injured
'K'	Killed

## Unit File

Blank No Pedestrian Involved, or No Injury Involved

---

### Special Information

Variable Name: SPECIAL\_FACTOR\_CODE

*Definition:* Any special and additional information concerning the unit.

*Field Type:* Coded.

'A'	Hazardous Materials
'B'	Cell Phone in use
'C'	Cell Phone not in use
'D'	Cell Phone none/unknown
'<'	Not Stated

---

### Total Suspected Serious Injuries

Variable Name: MAJOR\_INJURY

*Definition:* The total number of major injuries in the unit involved (e.g., '2'). This reflects an injury level of 'A' (suspected serious injury) on the KABCO scale.

*Field Type:* Numeric.

---

### Total Suspected Minor Injuries

Variable Name: MINOR\_INJURY

*Definition:* The total number of minor injuries in the unit involved (e.g., '3'). This reflects an injury level of 'B' (suspected minor injury) on the KABCO scale.

*Field Type:* Numeric.

---

### Total Possible Injuries

Variable Name: POSSIBLE\_INJURY

*Definition:* Total number of possible injuries in the unit of the crash (e.g., '2'). This reflects an injury level of 'C' (possible injury) on the KABCO scale.

*Field Type:* Numeric.

---

### Unit Number

Variable Name: UNIT\_VEC

*Definition:* The relative unit number as it applies to the crash (e.g., '1').

*Field Type:* Numeric.

## Unit File

---

### Unit Travel Direction

Variable Name: VEH\_DIR

*Definition:* Cardinal direction that the unit was traveling at the time of the crash (e.g., 'Southbound').

*Field Type:* Text.

---

### Unit Type – General

Variable Name: PARTY\_GROUP

*Definition:* The general type of unit involved in the crash.

*Field Type:* Coded.

'PED' Pedestrian

'VEH' Vehicle

'OTH' Other

---

### Unit Type – Specific

Variable Name: PARTY\_TYPE

*Definition:* The specific type of unit involved in the crash (e.g., 'Passenger Car/Station Wagon').

*Field Type:* Text.

# Appendix A: History of Revisions

## Appendix A: History of Revisions

File	Variable Name	Variable	Description of Change	Year of Change
Crash	ACC_DATE	DATE OF ACCIDENT - YMD	No change	
Crash	ACCTYPE	TYPE OF COLLISION	Variable created  Variable type change from coded to text	2001  2018
Crash	ACCYR	COLLISION ACCYR	No change	
Crash	ALCH_FLG	ALCOHOL INVOLVED	Variable created  Variable type change from coded to text	2001  2018
Crash	BIKE_FLG	BICYCLE INVOLVED	Variable created  Variable type change from coded to text	2003  2018
Crash	CASENO	UNIQUE ACCIDENT CASEO	Variable name changed to "ACC_ID"	2018
Crash	CAUSE1	PRIMARY COLL FACTOR	Variable type change from coded to text	2018
Crash	CAUSHPAL	COLL FACTOR ALPHA (CHP)	Variable discontinued	2018
Crash	CAUSHPCD	COLL FACTOR CODING (CHP)	Variable discontinued	2018
Crash	CAUSHPCT	COLL FACTOR CATEGORY (CHP)	Variable discontinued	2018
Crash	CAUSHPLG	COLL FACTOR LEGAL CODE(CHP)	Variable discontinued	2018
Crash	CAUSHPSB	COLL FACTOR CODE SUBSECTION (CHP)	Variable discontinued	2018
Crash	CNTY_RTE	COUNTY ROUTE	No change	
Crash	COUNTY	COUNTY	Change in coding	2018
Crash	DISTANCE	DISTANCE	Variable discontinued	2018
Crash	DISTRICT	DISTRICT	Variable type change from coded to text	2018
Crash	FILETYP	FILE TYPE	Variable discontinued  Variable continued  Variable type change from coded to text	2004  2018
Crash	HIT_RUN	HIT AND RUN	Variable discontinued	2018
Crash	HOURL	TIME OF ACCIDENT	No change	
Crash	HWY_GRP	HIGHWAY GROUP	Variable discontinued	2018
Crash	INT_RMP	INTS/RAMP ACC LOCATION	Variable type change from coded to text	2018



## Appendix A: History of Revisions

File	Variable Name	Variable	Description of Change	Year of Change
Crash	INTER	INTERSECTION CRASH	Variable created	2005
			Variable type change from coded to text	2018
Crash	JUR_TYPE	JURISDICTION TYPE	Variable created	1995
			Variable discontinued	2001
Crash	LIGHT	LIGHT CONDITION	Variable type change from coded to text	2018
Crash	LOC_TYP	LOCATION TYPE	Variable created	2004
			Variable type change from coded to text	2018
Crash	LOCATN	COUNTY/CITY CODE WHERE CRASH OCCURRED	Variable discontinued	2018
Crash	MILEPOST	MILEPOST	No change	
Crash	MTCY_FLG	MOTORCYCLE INVOLVED	Variable created	2001
			Variable type change from coded to text	2018
Crash	NUM_OCCS	OCCUPANTS	Variable discontinued	2000
Crash	NUMVEHS	TOT-NBR-VEHICLES	No change	
Crash	PED_ACTN	PEDESTRIAN ACTION	Variable created	2003
			Variable discontinued	2018
Crash	PED_FLG	PEDESTRIAN INVOLVED	Variable created	2001
			Variable type change from coded to text	2018
Crash	POP_GRP	POPULATION GROUP = (CITY/RURAL GROUP)	Variable discontinued	2018
Crash	PSMILPRF	POSTMILE PREFIX	No change	
Crash	PSMILSUF	POSTMILE SUFFIX	No change	
Crash	RD_DEF1	ROADWAY CONDITION	Variable type change from coded to text	2018
Crash	RD_DEF2	ROAD CONDITION 2	Variable discontinued	2018
Crash	RD_DEF3	ROAD CONDITION 3	Variable discontinued	2002
Crash	RDSURF	ROAD-SURFACE	Variable type change from coded to text	2018
Crash	RODWYCLS	ROADWAY CLASSIFICATION	Variable created or edited by HSIS Lab	1991
Crash	RPT_LEV	ACCIDENT REPORT LEVEL	Variable type change from coded to text	2018
Crash	RTE_NBR	RDWAY ROUTE NUMBER	No change	
Crash	RTE_SUF	RDWAY ROUTE SUFFIX	Variable type change from coded to text	2018
Crash	SDE_HWY	SIDE-OF-HIGHWAY	Variable discontinued	2018

## Appendix A: History of Revisions

File	Variable Name	Variable	Description of Change	Year of Change
Crash	SEVERITY	COLLISION SEVERITY	Variable type change from coded to text	2018
Crash	SP_COND	SPECIAL CONDITION	Variable created	2003
			Variable discontinued	2018
Crash	TOT_BIKEINJ	TOTAL BICYCLISTS INJURED	Variable created	2003
			Variable name changed to "TOT_BIKE_INJ"	2018
Crash	TOT_BIKEKIL	TOTAL BICYCLISTS KILLED	Variable created	2003
Crash	TOT_INJ	OCCUPANTS INJURED	No change	
Crash	TOT_KILL	OCCUPANTS KILLED	No change	
Crash	TOT_MTCYLINJ	TOTAL MOTORCYCLISTS INJURED	Variable created	2003
Crash	TOT_MTCYLKIL	TOTAL MOTORCYCLISTS KILLED	Variable created	2003
Crash	TOT_PEDINJ	TOTAL PEDESTRIANS INJURED	Variable created	2003
Crash	TOT_PEDKILL	TOTAL PEDESTRIANS KILLED	Variable created	2003
Crash	TOWAWAY	INJURY, FATAL, OR TOWAWAY	Variable discontinued	2018
Crash	TRF_OPER	TRAFFIC CONTROL OPERATING	Variable type change from coded to text	2018
Crash	TRK_FLG	TRUCK INVOLVED	Variable created	2001
			Variable type change from coded to text	2018
Crash	VEH_AT_FAULT	VEHICLE AT FAULT	Variable discontinued	2001
Crash	VEH_INVL	MOTOR VEHICLES INVOLVED	Variable discontinued	2018
Crash	VTYPE_AT_FAULT_CHP	CHP VEHICLE TYPE AT FAULT	Variable created	2001
			Variable discontinued	2018
Crash	VTYPE_AT_FAULT_DOT	VEHICLE TYPE AT FAULT	Variable created	2001
			Variable discontinued	2018
Crash	WEATHER	WEATHER	Variable name changed to "WEATHER1"	2002
			Variable name changed to "WEATHER"	2018
			Variable type change from coded to text	2018

## Appendix A: History of Revisions

File	Variable Name	Variable	Description of Change	Year of Change
Crash	WEATHER <sub>1</sub>	WEATHER	Variable created as "WEATHER <sub>2</sub> "	2002
			Variable name changed to "WEATHER <sub>1</sub> "	2018
			Variable type change from coded to text	2018
Crash	WEATHER <sub>2</sub>	WEATHER	Variable created	2002
			Variable discontinued	2018
Crash	WEEKDAY	DAY-OF-WEEK	Change in coding	2018
Unit	ACCYR	COLLISION ACCYR	Variable discontinued	2018
Unit	BELT <sub>1</sub>	BELT USAGE	Variable created	2001
			Variable discontinued	2001
Unit	CASENO	UNIQUE ACCIDENT CASEO	Variable name changed to "ACC_ID"	2018
Unit	CAUSE	CONTRIBUTION FACTOR	Variable created	2002
			Variable discontinued	2018
Unit	CELLPHONE	CELL PHONE	Variable created	2002
			Variable discontinued	2018
Unit	CONTRIB <sub>1</sub>	FIRST ASSOCIATED FACTOR	Variable discontinued	2018
Unit	CONTRIB <sub>2</sub>	SECOND ASSOCIATED FACTOR	Variable discontinued	2018
Unit	DEFECT	VEHICLE DEFECT	Variable created	2002
			Variable discontinued	2018
Unit	DIR_TRVL	DIRECTION OF TRAVEL	Variable name changed to "VEH_DIR"	2018
			Variable type change from coded to text	2018
Unit	DRV_AGE	DRIVER AGE	Variable discontinued	2018
Unit	DRV_INJ	DRIVER EXTENT OF INJURY	Variable discontinued	2018
Unit	DRV_RACE	DRIVER RACE	Variable created	2002
			Variable discontinued	2018
Unit	DRV_SEX	DRIVER SEX	Variable discontinued	2018
Unit	DRVREST <sub>1</sub>	DRIVER SAFETY EQUIPMENT	Variable created	2002
			Variable discontinued	2018
Unit	DRVREST <sub>2</sub>	DRIVER SAFETY EQUIPMENT	Variable created	2002
			Variable discontinued	2018

## Appendix A: History of Revisions

File	Variable Name	Variable	Description of Change	Year of Change
Unit	FIRE	VEH FUEL LEAKS AND FIRES	Variable created	2002
			Variable discontinued	2018
Unit	HAZ_CODE	HAZARDOUS MATERIAL	Variable created	2002
			Variable discontinued	2018
Unit	HAZMAT	HAZARDOUS MATERIAL	Variable created	2002
			Variable discontinued	2018
Unit	INSUR	INSURANCE	Variable created	2001
			Variable discontinued	2018
Unit	LOC_TYP1	FIRST COLL LOCATION	Variable name changed to "POSN_1"	2018
			Variable type change from coded to text	2018
Unit	LOC_TYP2	SECOND COLL LOCATION	Variable name changed to "POSN_2"	2018
			Variable type change from coded to text	2018
Unit	LOC_TYP3	THIRD COLL LOCATION	Variable name changed to "POSN_3"	2018
			Variable type change from coded to text	2018
Unit	LOC_TYP4	FOURTH COLL LOCATION	Variable name changed to "POSN_4"	2018
			Variable type change from coded to text	2018
Unit	MAJOR_INJURY	TOTAL SUSPECTED SERIOUS INJURIES	Variable created	2018
Unit	MAKE	VEHICLE MAKE	Variable discontinued	2018
Unit	MINOR_INJURY	TOTAL SUSPECTED MINOR INJURIES	Variable created	2018
Unit	MISCACT1	MOVEMENT PRECEDING COLL	Variable name changed to "MOVEMENT_TYPE"	2018
			Variable type change from coded to text	2018
Unit	NUM_INJ	TOTAL NUMBER INJURED	Variable discontinued	2018
Unit	NUM_KILL	TOTAL NUMBER KILLED	Variable discontinued	2018

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File	Variable Name	Variable	Description of Change	Year of Change
Unit	OBJECT <sub>1</sub>	FIRST OBJECT STRUCK	Variable name changed to "OBJECT_1"	2018
			Variable type change from coded to text	2018
Unit	OBJECT <sub>2</sub>	SECOND OBJECT STRUCK	Variable name changed to "OBJECT_2"	2018
			Variable type change from coded to text	2018
Unit	OBJECT <sub>3</sub>	THIRD OBJECT STRUCK	Variable name changed to "OBJECT_3"	2018
			Variable type change from coded to text	2018
Unit	OBJECT <sub>4</sub>	FOURTH OBJECT STRUCK	Variable name changed to "OBJECT_4"	2018
			Variable type change from coded to text	2018
Unit	PART_TYP	PARTY TYPE	Variable name changed to "PARTY_GROUP"	2018
			Change in coding	2018
Unit	PED_ACTN	PEDESTRIAN ACTION	Variable created	2018
Unit	PED_INJ_CODE	PEDESTRIAN INJURY CODE	Variable created	2018
Unit	PHYSCOND	DRIVER PHYSICAL CONDITION	Variable name changed to "IMPAIRMENT_CODE_2"	2018
			Variable type change from coded to text	2018
Unit	POSSIBLE_INJURY	TOTAL POSSIBLE INJURIES	Variable created	2018
Unit	RTE_TYPE	HIGHWAY TYPE INDICATOR	Variable name changed to "HWY_IND_TYPE"	2018
			Variable type change from coded to text	2018
Unit	SCHLBUS	SCHOOL BUS	Variable created	2002
			Variable discontinued	2018
Unit	SOBRIETY	SOBRIETY	Variable name changed to "IMPAIRMENT_CODE_1"	2018
			Variable type change from coded to text	2018

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File	Variable Name	Variable	Description of Change	Year of Change
Unit	SPEC_INF	SPECIAL INFORMATION	Variable created	2002
			Variable name changed to "SPECIAL_FACTOR_CODE"	2018
Unit	SUB_VIOL	VIOLATION SUFFIX	Variable created	2002
			Variable discontinued	2018
Unit	TRAIL_CODE	TRAILER CODE	Variable created	2003
			Variable discontinued	2018
Unit	TRK_CODE	TRUCK CODE	Variable created	2003
			Variable discontinued	2018
Unit	VEH_AT_FAUL	VEHICLE AT FAULT	Variable created	2001
			Variable discontinued	2018
Unit	VEHNO	VEHICLE NUMBER	Variable name changed to "UNIT_VEC"	2018
Unit	VEHTYPE	VEHICLE TYPE	Variable name changed to "PARTY_TYPE"	2018
			Variable type change from coded to text	2018
Unit	VEHYR	VEHICLE MODEL YEAR	Variable discontinued	2018
Unit	VIOL	VIOLATION CATEGORY	Variable discontinued	2018
Unit	VIOLS	CADMV VEHICLE VIOLATIONS	Variable created	1998
			Variable discontinued	2018
Unit	VTOWED	VEHICLE TOWED	Variable created	2001
			Variable discontinued	2018
Unit	VTOWING	VEHICLE TOWING	Variable created	2001
			Variable discontinued	2018
Road	AADT	AADT	No change	
Road	ACC_DTE	ACCESS CONTROL DATE	Variable discontinued	2018
Road	ACC_HIST	ACCESS CONTROL HISTORY	Variable discontinued	2018
Road	ACCESS	ACCESS CONTROL	Variable type change from coded to text	2018
Road	ADT_DTE	ADT DATE	Variable discontinued	2003
Road	ADT_DVM	DAILY VEHICLE MILES(DVM)	Variable discontinued	2003
Road	ADT_HIST	ADT HISTORY	Variable discontinued	2003
Road	ADT_MSG	ALPHA MESSAGE	Variable discontinued	2003
Road	ADT_STUS	ADT STATUS PROFILE	Variable discontinued	2018

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File	Variable Name	Variable	Description of Change	Year of Change
Road	BEGMP	POSTMILE-BEGMP	No change	
Road	CITY	CITY	No change	
Road	CNTYRTE	ROAD COUNTY ROUTE	No change	
Road	COUNTY	COUNTY	No change	
Road	CURB <sub>1</sub>	CURB AND LANDSCAPE	Variable discontinued	2018
Road	DES_NBR	ROAD DESC NUMBER	Variable discontinued	2003
Road	DESG_SPD	DESIGN SPEED	No change	
Road	DISTRICT	DISTRICT	No change	
Road	DIVIDED	DIVIDED HIGHWAY	Variable type change from coded to text	2018
Road	ENDMP	POSTMILE + SEG_LNG	No change	
Road	FEAT_LF	LEFT RDBD SPECIAL FEATURE	Variable discontinued	2018
Road	FEAT_RG	RIGHT RDBD SPECIAL FEATURE	Variable discontinued	2018
Road	FED_AID	FEDERAL AID (IN LIEU)	Variable discontinued	2018
Road	FED_PREF	FEDERAL AID RTE PREFIX	Variable discontinued	2018
Road	FED_RTE	FEDERAL AID RTE	Variable discontinued	2018
Road	FILETYP	FILE TYPE	Variable discontinued	2003
Road	FUNC_CLS	FUNCTIONAL CLASS	Variable discontinued	2018
Road	HIST_ADD	HISTORY ELEMENTS RELATIVE ADDR	Variable discontinued	2018
Road	HWY_GRP	HIGHWAY GROUP	Variable type change from coded to text	2018
Road	INS_OTS	INSIDE OUTSIDE CITY	Variable discontinued	2003
Road	LANEWID	AVERAGE LANE WIDTH	No change	
Road	LSHL_WD <sub>2</sub>	LEFT SHOULDER WIDTH RD <sub>2</sub>	No change	
Road	LSHLDWID	LEFT SHOULDER WIDTH RD <sub>1</sub>	No change	
Road	LST_SEG_CHG_DTE	DATE OF LAST CHANGE	Variable created	2005
			Variable discontinued	2018
Road	LTRD_DTE	LEFT ROADBED DATE	Variable discontinued	2003
Road	LTRD_HST	LEFT ROADBED HISTORY	Variable discontinued	2018
Road	MAINT_LVL	MAINTENANCE LEVEL SERVICE CODE	Variable created	2005
			Variable discontinued	2007
Road	MED_DTE	RAMP MEDIAN DATE	Variable discontinued	2018
Road	MED_HIST	MEDIAN HISTORY	Variable discontinued	2018

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File	Variable Name	Variable	Description of Change	Year of Change
Road	MED_TYPE	MEDIAN TYPE	Variable type change from coded to text	2018
Road	MED_VAR	MEDIAN VARIANCE	Variable type change from coded to text	2018
Road	MEDBARTY	MEDIAN BARRIER TYPE	Variable type change from coded to text	2018
Road	MEDWID	MEDIAN WIDTH	No change	
Road	MVMT	MILLION VEHICLE MILES TRAVELED	Variable created Variable discontinued	1999 2018
Road	NA_MILE	NON-ADD MILEAGE	Variable discontinued	2018
Road	NAT_LND	NATIONAL LANDS	Variable discontinued	2018
Road	NO_LANE1	NUMBER OF LANES RD1	No change	
Road	NO_LANE2	NUMBER OF LANES RD2	No change	
Road	NO_LANES	TOTAL NUMBER OF LANES	No change	
Road	PAV_WDL	LEFT PAVED SHLD WIDTH RD1	No change	
Road	PAV_WDL2	LEFT PAVED SHLD WIDTH RD2	No change	
Road	PAV_WDR2	RIGHT PAVED SHLD WIDTH RD2	No change	
Road	PAV_WIDR	RIGHT PAVED SHLD WIDTH RD1	No change	
Road	PSMILPRF	POSTMILE PREFIX	No change	
Road	PSMILSUF	POSTMILE SUFFIX	No change	
Road	RD_DATE	ROAD DATE	Variable discontinued	2003
Road	RD_DESC	ROAD DESCRIPTION	Variable discontinued	2018
Road	RECTYPE	RECORD TYPE	Variable discontinued	2003
Road	RGRD_DTE	RIGHT ROADBED DATE	Variable discontinued	2018
Road	RGRD_HSR	RIGHT ROADBED HISTORY	Variable discontinued	2018
Road	RO_SEQ	ROUTE ORDER SEQUENCE	Variable discontinued	2018
Road	RODWYCLS	ROADWAY CLASSIFICATION	Variable created or editable by HSIS Lab	1994
Road	RSHL_WD2	RIGHT SHOULDER WIDTH RD2	No change	
Road	RSHLDWID	RIGHT SHOULDER WIDTH RD1	No change	
Road	RTE_NBR	RDWAY ROUTE NUMBER	No change	
Road	RTE_SUF	RDWAY ROUTE SUFFIX	No change	



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File	Variable Name	Variable	Description of Change	Year of Change
Road	RU_IO	RURAL/URBAN INSIDE OUTSIDE CITY	Variable discontinued	2018
Road	RURURB	RURAL URBAN	Variable type change from coded to text	2018
Road	SCN_FRWY	SCENIC FREEWAY	Variable discontinued	2018
Road	SEG_LNG	SECTION LENGTH	No change	
Road	SURF_TY2	SURFACE TYPE RD2	Variable type change from coded to text	2018
Road	SURF_TYP	SURFACE TYPE RD1	Variable type change from coded to text	2018
Road	SURF_WD2	TRAVELED-WAY WIDTH RD2	No change	
Road	SURF_WID	TRAVELED-WAY WIDTH RD1	No change	
Road	TERRAIN	TERRAIN	Variable type change from coded to text	2018
Road	TOLL	TOLL AND FOREST RDS	Variable discontinued	2018
Road	TRK2AX	2-AXLE TRUCK AADT	Variable discontinued	2018
Road	TRK3AX	3-AXLE TRUCK AADT	Variable discontinued	2018
Road	TRK4AX	4-AXLE TRUCK AADT	Variable discontinued	2018
Road	TRK5AX	5+-AXLE TRUCK AADT	Variable discontinued	2018
Road	TRKCNTFL	TRUCK COUNT FLAG	Variable discontinued	2018
Road	TRKTOT	TOTAL TRUCK AADT	Variable created	1995
			Variable discontinued	2018
Intersection	CITY_CODE	CITY CODE	Variable created as "CITY_CDE"	2003
			Variable name changed to "CITY_CODE"	2017
Intersection	CNTYRTE	INTERSECTION COUNTY ROUTE	No change	
Intersection	COUNTY	COUNTY	No change	
Intersection	DISTRICT	DISTRICT	No change	
Intersection	HWY_GRP	HIGHWAY GROUP	Variable type change from coded to text	2018
Intersection	INT_ADDR	HISTORY ELEMENTS RELATIVE	Variable discontinued	2003
Intersection	INT_DESC	INTERSECTION DESCRIPTION	No change	
Intersection	INT_DTE	INTERSECTION EFFECTIVE DATE	No change	
Intersection	INT_HST	INTERSECTION TYPE HISTORY	Variable discontinued	2003
Intersection	INT_PRF	INTERSECTING RTE PREFIX	Variable discontinued	2018
Intersection	INT_POPGRP	POPULATION CODE	Variable created	2003

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File	Variable Name	Variable	Description of Change	Year of Change
Intersection	INT_RSUF	INTERSECTING RTE SUFFIX	Variable type change from coded to text	2018
Intersection	INT_RTE	INTERSECTING RTE NBR	No change	
Intersection	INT_SEQ	INTERSECTING RTE ORDER SEQ	Variable discontinued	2018
Intersection	INTMP	INTERSECTION MILEPOST	No change	
Intersection	INTY_RTE	CROSS STREET COUNTY ROUTE	No change	
Intersection	JUNCTYPE	JUNCTION TYPE	Variable discontinued	2018
Intersection	LGHT_DTE	INTERSECTION LIGHT DATE	No change	
Intersection	LGHT_HST	INTERSECTION LIGHT HISTORY	Variable discontinued	2003
Intersection	LGHT_TYP	INTERSECTION LIGHT TYPE	No change	
Intersection	LOG_ERR	LOG ERROR INDICATOR	Variable discontinued	2003
Intersection	MED_DTE	RAMP MEDIAN DATE	Variable discontinued	2003
Intersection	MED_HIST	MEDIAN HISTORY	Variable discontinued	2003
Intersection	MED_IND	RAMP MEDIAN INDICATOR	Variable discontinued	2003
Intersection	MILEPOST	MILEPOST	No change	
Intersection	ML_AADT	MAINLINE AADT	No change	
Intersection	ML_ADTDT	MAINLINE ADT DATE	Variable discontinued	2003
Intersection	ML_ADTHS	MAINLINE ADT HISTORY	Variable discontinued	2003
Intersection	ML_DATE	MAINLINE HISTORY DATE	Variable discontinued	2018
Intersection	ML_HIST	MAINLINE HISTORY	Variable discontinued	2003
Intersection	ML_LANES	MAINLINE NUMBER OF LANES	No change	
Intersection	ML_LEFT	MAINLINE LEFT TURN	Variable type change from coded to text	2018
Intersection	ML_LNGT	MAINLINE SECTION LENGTH	Variable discontinued	2018
Intersection	ML_MAST	MAINLINE SIGNAL MASTARM	No change	
Intersection	ML_RIGHT	MAINLINE RIGHT TURN	Variable type change from coded to text	2018
Intersection	ML_TRFLO	MAINLINE TRAFFIC FLOW	Variable type change from coded to text	2018
Intersection	PSMILPRF	POSTMILE PREFIX	No change	
Intersection	PSMILSUF	POSTMILE SUFFIX	Variable discontinued	2003
Intersection	RECTYPE	RECORD TYPE	Variable discontinued	2003
Intersection	RO_SEQ	ROUTE ORDER SEQUENCE	Variable discontinued	2018

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File	Variable Name	Variable	Description of Change	Year of Change
Intersection	RTE_NBR	RDWAY ROUTE NUMBER	No change	
Intersection	RTE_SUF	RDWAY ROUTE SUFFIX	No change	
Intersection	TRF_CNTL	TRAFFIC CONTROL TYPE	Variable type change from coded to text	2018
Intersection	TRFCTLDT	TRAFFIC CONTROL TYPE DATE	Variable discontinued	2003
Intersection	TRFCTLHS	TRAFFIC CONTROL TYPE HISTORY	Variable discontinued	2003
Intersection	TYPEDESC	INTERSECTION TYPE	Variable type change from coded to text	2018
Intersection	XSTAADT	X-STREET AADT	No change	
Intersection	XSTADTDT	X-STREET ADT DATE	Variable discontinued	2003
Intersection	XSTADTHS	X-STREET ADT HISTORY	Variable discontinued	2003
Intersection	XSTLANES	X-STREET NUMBER OF LANES	No change	
Intersection	XSTLNGT	X-STREET SECTION LENGTH	Variable discontinued	2018
Intersection	XSTRDTE	X-STREET DATE	Variable discontinued	2018
Intersection	XSTRTHST	X-STREET HISTORY	Variable discontinued	2003
Intersection	XSTRTLFT	X-STREET LEFT TURN CHANNELIZATION	Variable type change from coded to text	2018
Intersection	XSTRMST	X-STREET SIGNAL	No change	
Intersection	XSTRTRGH	X-STREET RIGHT TURN	Variable type change from coded to text	2018
Intersection	XSTSTRT	X-STREET STATE ROUTE	Variable type change from coded to text	2018
Intersection	XSTTRFLO	X-STREET TRAFFIC FLOW	Variable type change from coded to text	2018
Intersection	XST_RSUF	X-STREET ROUTE SUFFIX	Variable created	2003
Interchange	AREA4	RAMP AREA 4 INDICATOR	No change	
Interchange	CITY_CODE	CITY CODE	Variable created as "CITY_CDE"	2003
			Variable name changed to "CITY_CODE"	2017
Interchange	CNTYRTE	RAMP COUNTY ROUTE	No change	
Interchange	COUNTY	COUNTY	Variable created	2003
Interchange	DIR_CODE	DIRECTION	Variable created	2003
			Variable discontinued	2018
Interchange	DISTRICT	DISTRICT	No change	
Interchange	HWY_GRP	HIGHWAY GROUP	Variable type change from coded to text	2018

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File	Variable Name	Variable	Description of Change	Year of Change
Interchange	MED_DTE	RAMP MEDIAN DATE	Variable discontinued	2003
Interchange	MED_HST	RAMP MEDIAN HISTORY	Variable discontinued	2003
Interchange	MED_IND	RAMP MEDIAN	Variable discontinued	2003
Interchange	MILEPOST	RAMP MILEPOST	No change	
Interchange	ON_OFFRP	ON/OFF RAMP INDICATOR	Change in coding	2018
Interchange	PSMILPRF	POSTMILE PREFIX	Variable created	2003
Interchange	RAMP_TYP	RAMP TYPE	Variable created	2003
			Variable discontinued	2018
Interchange	RECTYPE	RECORD TYPE	Variable discontinued	2003
Interchange	RMADTDTE	RAMP ADT DATE	Variable discontinued	2003
Interchange	RMADTHST	RAMP ADT HISTORY	Variable discontinued	2003
Interchange	RMP_ADT	RAMP AADT	No change	
Interchange	RMP_BEGMPOFFSET	RAMP BEGIN MILEPOST	Variable created	2003
			Variable discontinued	2018
Interchange	RMP_DTE	RAMP TYPE DATE	Variable discontinued	2003
Interchange	RMP_HST	RAMP HISTORY	Variable created	1995
			Variable discontinued	2003
Interchange	RMP_POPGRP	RAMP POPULATION CODE	Change in coding	2018
Interchange	RMP_SEQ	RAMP SEQUENCE	Variable created	2003
			Variable discontinued	2018
Interchange	RMP_TYPE	RAMP TYPE	Variable discontinued	2003
Interchange	RTE_NBR	RDWAY ROUTE NUMBER	Variable created	2003
Interchange	RTE_SUF	RDWAY ROUTE SUFFIX	Variable created	2003
Interchange	TRF_CNTL	TRAFFIC CONTROL TYPE	Variable created	2003
			Variable discontinued	2018