

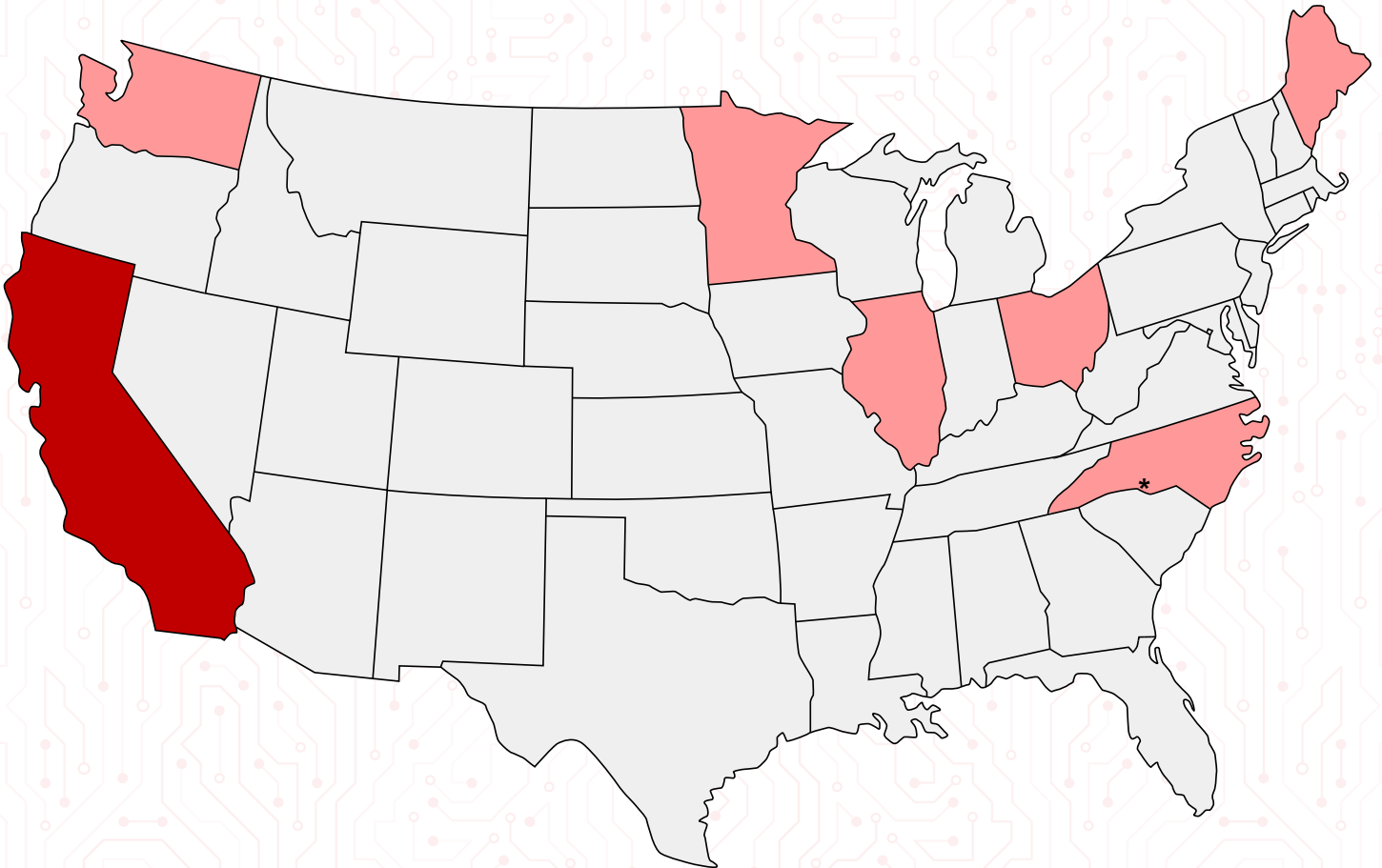
HSIS

HIGHWAY SAFETY INFORMATION SYSTEM

AUGUST 2024

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GUIDEBOOK FOR THE California Data Files



U.S. Department of Transportation
Federal Highway Administration

Turner-Fairbank
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Foreword

The Highway Safety Information System (HSIS) is a roadway-based system that provides quality data on a large number of crash, roadway, and traffic variables. The system comprises data collected by States for managing the highway system and studying highway safety. HSIS is composed of seven States and one urban center: California, Illinois, Ohio, Maine, Minnesota, North Carolina, Washington, and Charlotte, NC. HSIS includes some agencies' highway intersection, interchange, lighting, and curve/grade data. Additional supplementary information includes vulnerable road user infrastructure data, such as sidewalks, greenways, and transit stops.

This guidebook is part of a series of data guidebooks for each HSIS agency that explain the variables and attributes provided by each agency. Each guidebook describes the agency's data system and presents an alphabetized listing of all available variables. All data are derived from police-reported crash records, maintained highway records, and other supplementary inventories.

These guidebooks are available to help researchers, analysts, programmers, and safety professionals use HSIS data to further transportation safety for all road users. Visit the HSIS web page (<https://highways.dot.gov/research/safety/hsis>) to request data and learn about other HSIS products.⁽¹⁾

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16. Abstract The Highway Safety Information System (HSIS) is composed of seven States and one urban center. The HSIS Program provides linked crash, roadway, and traffic volume data. This guidebook supports the use of California HSIS data from 2018 and beyond. Data and documentation recorded before 2018 (1991–2017) are available on request from the virtual HSIS Laboratory.			
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Introduction to the California HSIS Guidebook

Introduction to the California HSIS Guidebook

The Highway Safety Information System (HSIS), established in 1987, is a foundational highway research data system.^{(1)*} 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.

What Has Changed

This guidebook supports the use of California HSIS data from 2018 and beyond. Data and documentation prior to 2018 (1991–2017) are available upon request to the virtual [HSIS Laboratory](#).⁽²⁾ Before 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.

As of 2018, the Vehicle Occupants file is no longer available; the [appendix](#) summarizes revisions the [HSIS Laboratory](#) made to the variables. In addition to the revised list of files, several key differences exist between the California HSIS data before and after 2018, as described in the following subsections.

Changes in File Names

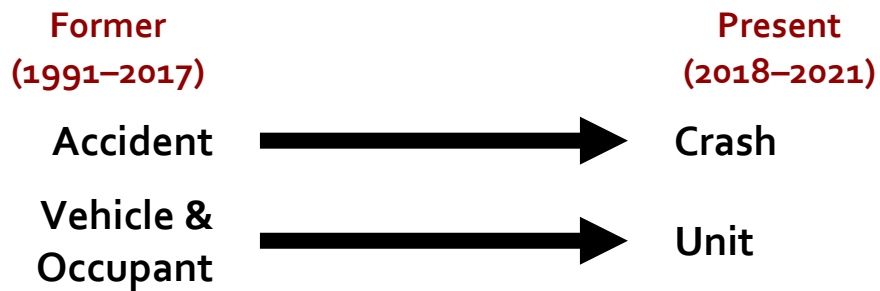
Previously, HSIS data included Accident, Vehicle, and Occupant files to describe crashes, the vehicles involved in those crashes, and the occupants of those vehicles. Due to changes in reported data, HSIS now uses the nomenclature of Crash and Unit files to represent these characteristics. Table 1 includes the nomenclature prior to 2018, the current nomenclature, and the file names for the data. Figure 1 illustrates the connection between the previous file naming convention (1991–2017) and the current file naming convention (2018–2021).

*Note: Any reference to HSIS by itself refers to the software.

Table 1. Current California database file names.

File Name	Descriptor Prior to 2018	Current Descriptor
Roadway	Roadway inventory	Roadway inventory
Intersection	Intersection inventory	Intersection inventory
Interchange Ramp	Interchange ramp inventory	Interchange ramp inventory
Crash	Accident characteristics	Crash characteristics
Unit	Vehicles involved in crashes	Units involved in crashes
Unit	Vehicle occupants involved in crashes	Units involved in crashes

N/A = not applicable.



Source: Federal Highway Administration (FHWA).

Figure 1. Graph. Changes to California HSIS data file-naming convention.

Changes in Variable Names

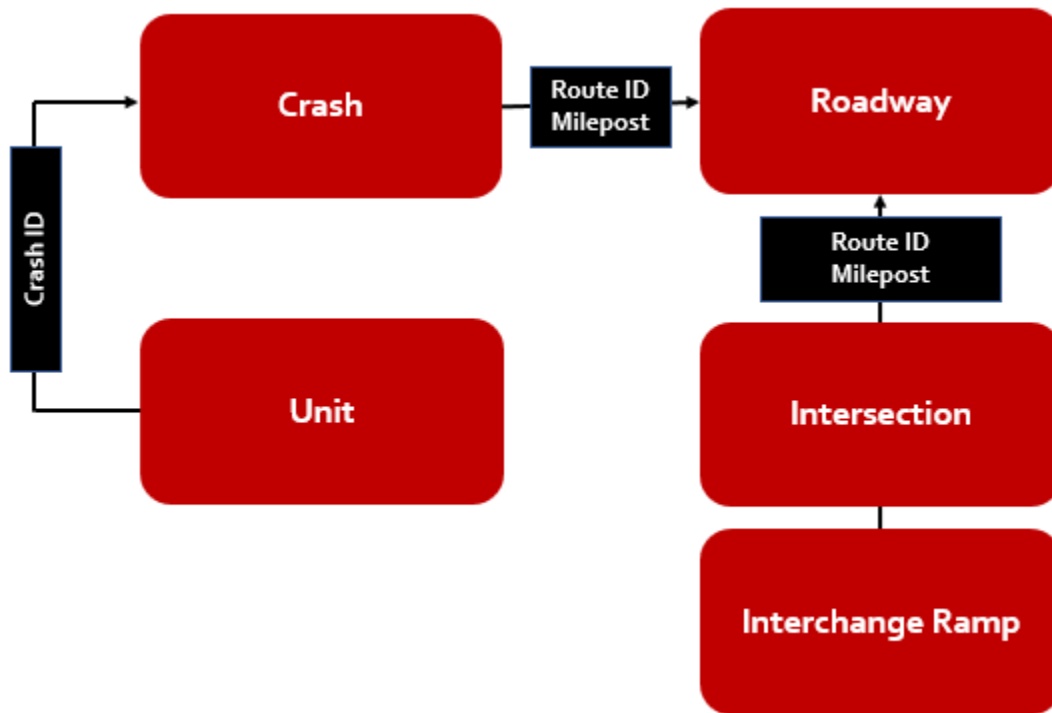
Previous versions of HSIS guidebooks referred to *SAS Name* as the shorthand for the more descriptive names in the HSIS documentation.⁽³⁾ With the modernization effort and increased emphasis on flexibility, this name is now referred to as the *Variable Name*. Furthermore, the descriptive names of variables may be different in this guidebook compared to previous versions. This version may reflect changes in the data or definition of the variable to match updates to California’s data documentation. Please consult the virtual [HSIS 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 available to requestors for the years 2018–2021. 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 virtual [HSIS Laboratory](#) for information regarding previously available data.

Changes in Variable Linkages

Researchers may 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.⁽³⁾ Figure 2 provides an overview of the structure and relationships linking the five files. The following sections provide a brief summary of each file.



Source: FHWA.

Figure 2. Chart. California HSIS data files and linking variables.

Roadway File (2018–2021)

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 Roadway Inventory (Roadway) 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* (identification) is the key linking variable between the base roadway inventory and the associated datasets (e.g., Crash, Intersection, and Interchange 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 (SR) 84) reset to “0” when the route enters a county. The end milepost value will vary by county depending on the route length within a given county. Figure 3 provides an example of the *Route ID* naming convention for SR-1 in Orange County, CA, which is a concatenation of the *District*, *Route Number*, *Route Suffix*,[†] *County*, *Postmile Prefix*,[†] and *Postmile Suffix*.[†]

	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

Source: FHWA.
ORA = Orange.

Figure 3. Chart. Example of California’s *Route ID* naming convention.

[†]If present for the segment.

Intersection (2018–2021)

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. The file includes the location of the intersection on the State highway (i.e., milepost) and the approach information for both the mainline (i.e., the State highway) and the cross street. Route and location information only applies to the mainline, however.

Interchange Ramp (2018–2021)

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

Crash File (2018–2021)

Crash data are contained in two separate files. The Crash file contains basic information on the crash. The corresponding Unit file contains related information on the vehicles, pedestrians, and bicyclists involved in each crash. 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 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 (2018–2021)

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

Using the Files Together

Figure 1 highlights the linkages between each of the five California files. Researchers can use these files together to understand the circumstances, location, vehicles, and individuals involved in a crash. The California HSIS data can be linked and aggregated by 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 values can include decimals or whole numbers.
- **Coded:** Alphanumeric 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 some variables have the same name in two different files. For some of these variables, this naming process is by design so that the files can be linked together. Examples of this process 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 and synchronized these variables to provide consistent information.

Requesting HSIS Data

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

In this sample, a graduate student is interested in exploring intersection-related crashes in California. Specifically, the student is interested in injury severity at different types of intersections and wants 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 questions, variables to link the relevant

files together, and flexibility to add external data in part 2 of the study. The following is the structure of the student's 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* (the major or mainline route).
- *Traffic Control Type*.
- *Intersection Type*.
- *Intersection Light Type*.
- *Mainline AADT*.
- *Mainline Traffic Flow*.
- *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 Involved*.
- *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), whereas 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, more than one row will be associated with the same *Crash ID*. Additionally, the Roadway file contains an observation or row for each road segment. Some segments may be associated with multiple crashes, whereas other segments may not be associated with any crashes.

Available Data

Table 2 summarizes all variables currently available in HSIS for the five files. Attributes and fields have evolved since the California data were introduced into the HSIS data system, and users should carefully consider these changes during the data collection research process.

Table 2. Summary of California HSIS variables by data file.

Variable Name	Variable Description	Data File
AADT	Annual average daily traffic	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
LSHLDWID	Left shoulder width (inside)	Roadway

Variable Name	Variable Description	Data File
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
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
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	Intersecting route suffix	Intersection
INT_DESC	Intersection name	Intersection
INT_DTE	Intersection effective date	Intersection
LGHT_DTE	Intersection light date	Intersection
LGHT_TYP	Intersection light type	Intersection
INTMP	Intersection milepost	Intersection
TYPEDISC	Intersection type	Intersection
ML_AADT	Mainline annual average daily traffic	Intersection
ML_LEFT	Mainline left turn channelization	Intersection

Variable Name	Variable Description	Data File
ML_LANES	Mainline number of lanes	Intersection
ML_RIGHT	Mainline right turn channelization	Intersection
CNTYRTE	Mainline route ID	Intersection
ROUTE_ID	Mainline route ID (GIS)	Intersection
ML_MAST	Mainline signal mast arm	Intersection
ML_TRFLO	Mainline traffic flow	Intersection
MILEPOST	Milepost	Intersection
PSMILPRF	Postmile prefix	Intersection
RTE_NBR	Roadway route number	Intersection
RTE_SUF	Roadway route suffix	Intersection
INT_POPGRP	Rural/urban	Intersection
TRF_CNTL	Traffic control type	Intersection
XSTAADT	X (cross)-street annual average daily traffic	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
XSTTRFLO	X-street traffic flow	Intersection
CITY_CODE	City code	Interchange Ramp
COUNTY	County code	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
RMP_AADT	Ramp annual average daily traffic	Interchange Ramp
AREA4	Ramp area 4 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

Variable Name	Variable Description	Data File
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
CAUSE1	Primary collision factor	Crash
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
HOUR	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

Variable Name	Variable Description	Data File
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
UNIT_VEC	Unit number	Unit
VEH_DIR	Unit travel direction	Unit
PARTY_GROUP	Unit type—general	Unit
PARTY_TYPE	Unit type—specific	Unit

GIS = geographic information system.

Roadway File

Roadway File

Annual Average Daily Traffic

Variable Name: AADT

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

Field Type: Numeric.

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.

City

Variable Name: CITY

Definition: City where the crash occurred.

Field Type: Coded:

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

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

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

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

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

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

County

Variable Name: COUNTY

Definition: County where the crash occurred.

Field Type: Coded:

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

Variable Name: LSHLDWID

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

Field Type: Numeric.

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 variable 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

Definition: Number of through lanes toward increasing and decreasing mileposts, respectively (e.g., 1).

Field Type: Numeric.

Number of Lanes (Left/Decreasing)

Variable Name: NO_LANE2

Definition: Number of through lanes toward increasing and decreasing mileposts, respectively (e.g., 1).

Field Type: Numeric.

Postmile Prefix

Variable Name: PSMILPRF

Definition: An alphanumeric 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 alphanumeric 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: The HSIS Laboratory developed the *Roadway Class* variable to readily classifying roadway data. This variable combines the *Number of Lanes*, *Median Type*, and *Functional Class* variables with the Census Urban Places data (e.g., rural two-lane roads).

Field Type: Text.

Values:

- Urban freeways.
- Urban freeways fewer than four lanes.
- Urban two-lane roads.
- Urban multilane divided non-freeway.
- Urban multilane undivided non-freeway.
- Rural freeways.
- Rural freeways fewer than four lanes.
- Rural two-lane roads.

*Variable created or edited by HSIS Laboratory.

- Rural multilane divided non-freeway.
- Rural multilane undivided non-freeway.
- Others.

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 variable is an alpha code attached as a suffix to the route number to identify a highway (truck or busway route) with a duplicate route number (e.g., supplemental).

Field Type: Text.

Right Shoulder Width (Outside)

Variable Name: RSHLDWID

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

Field Type: Numeric.

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 variable 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).

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

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

Field Type: Text.

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: The total number of through lanes. This variable 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

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*.

Field Type: Numeric.

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*.

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

CLNG	COALINGA	DRT	DUARTE
CLP	CALIPATRIA	DVS	DAVIS
CLU	COLUSA	DXN	DIXON
CLVD	CLOVERDALE	ECJ	EL CAJON
CLX	CALEXICO	ECN	EL CENTRO
CMAD	CORTE MADERA	ECR	EL CERRITO
CMB	CAMPBELL	ELKG	ELK GROVE
CMRC	COMMERCE	EMTE	EL MONTE
CMRL	CAMARILLO	EMV	EMERYVILLE
CMS	COSTA MESA	ENTS	ENCINITAS
CMSA	CALIMESA	EPAO	EAST PALO ALTO
CND	CONCORD	ESD	ESCONDIDO
COA	COACHELLA	ESEG	EL SEGUNDO
COL	COLTON	ESL	ESCALON
COM	COMPTON	ESN	LAKE ELSINORE
COR	CORONA	ETN	ETNA
CORD	CORONADO	EUR	EUREKA
COT	COTATI	EXR	EXETER
CPO	CUPERTINO	FBG	FORT BRAGG
CPTL	CAPITOLA	FER	FERNDALE
CRC	CRESCENT CITY	FIL	FILLMORE
CRCN	CORCORAN	FIR	FIREBAUGH
CRSN	CARSON	FJN	FORT JONES
CRTS	CERRITOS	FMT	FREMONT
CSTG	CALISTOGA	FNA	FONTANA
CTHC	CATHEDRAL CITY	FNV	FOUNTAIN VALLEY
DAPT	DANA POINT	FOW	FOWLER
DBLN	DUBLIN	FRE	FRESNO
DLC	DALY CITY	FRFD	FAIRFIELD
DLN	DELANO	FRFX	FAIRFAX
DMBR	DIAMOND BAR	FSTC	FOSTER CITY
DMR	DUNSMUIR	FTA	FORTUNA
DNVL	DANVILLE	FUL	FULLERTON
DNY	DOWNEY	GAL	GALT
DPLS	DOS PALOS	GAR	GARDENA
DRO	DEL REY OAKS	GDLP	GUADALUPE
DRS	DORRIS	GDR	GLENDORA

GGR	GARDEN GROVE	KNGB	KINGSBURG
GIL	GILROY	LA	LOS ANGELES
GNDL	GLENDALE	LAH	LOS ALTOS HILLS
GNFD	GREENFIELD	LALM	LOS ALAMITOS
GNZ	GONZALES	LAN	LANCASTER
GRC	GROVER BEACH	LATS	LOS ALTOS
GRD	GRIDLEY	LBCH	LONG BEACH
GRTR	GRAND TERRACE	LBNS	LOS BANOS
GUS	GUSTINE	LCF	LA CANADA FLINTRIDGE
GVY	GRASS VALLEY	LEM	LEMOORE
HAN	HANFORD	LFYT	LAFAYETTE
HAW	HAWTHORNE	LGNB	LAGUNA BEACH
HAY	HAYWARD	LGNG	LAGUNA NIGUEL
HEM	HEMET	LGNH	LAGUNA HILLS
HER	HERCULES	LGTS	LOS GATOS
HES	HESPERIA	LHB	LA HABRA
HIGH	HIGHLAND	LIO	LIVE OAK
HIL	HILLSBOROUGH	LKFR	LAKE FOREST
HLBG	HEALDSBURG	LKPT	LAKEPORT
HMB	HERMOSA BEACH	LKSP	LARKSPUR
HMBY	HALF MOON BAY	LKW	LAKEWOOD
HNTB	HUNTINGTON BEACH	LMGR	LEMON GROVE
HNTP	HUNTINGTON PARK	LMLN	LOMA LINDA
HOLT	HOLTVILLE	LMRD	LA MIRADA
HRN	HURON	LMS	LOOMIS
HST	HOLLISTER	LMSA	LA MESA
IDY	INDUSTRY	LMTA	LOMITA
IMB	IMPERIAL BEACH	LNDL	LAWNDALE
IND	INDIO	LNSY	LINDSAY
ING	INGLEWOOD	LOD	LODI
ION	IONE	LOM	LOMPOC
IRVN	IRVINE	LOY	LOYALTON
IRW	IRWINDALE	LPMA	LA PALMA
IST	ISLETON	LPU	LA PUENTE
JKN	JACKSON	LTRP	LATHROP
KMN	KERMAN	LVMR	LIVERMORE
KNC	KING CITY	LVN	LA VERNE

LVTN	LIVINGSTON	NEVC	NEVADA CITY
LYN	LYNWOOD	NEWM	NEWMAN
MAD	MADERA	NPTB	NEWPORT BEACH
MAL	MALIBU	NRCO	NORCO
MANB	MANHATTAN BEACH	NRW	NORWALK
MCF	MCFARLAND	NVTO	NOVATO
MCL	MONTCLAIR	NWK	NEWARK
MCP	MARICOPA	OAK	OAKLAND
MDA	MENDOTA	OCN	OCEANSIDE
MER	MERCED	OJI	OJAI
MGH	MORGAN HILL	OKDL	OAKDALE
MLBR	MILLBRAE	ONT	ONTARIO
MLP	MENLO PARK	ORA	ORANGE
MMLK	MAMMOTH LAKES	ORCV	ORANGE COVE
MNRO	MONROVIA	ORIN	ORINDA
MNTG	MONTAGUE	ORL	ORLAND
MOBY	MORRO BAY	OVL	OROVILLE
MOD	MODESTO	OXN	OXNARD
MON	MONTEREY	PA	PALO ALTO
MONP	MONTEREY PARK	PAS	PASADENA
MORV	MORENO VALLEY	PAT	PATTERSON
MPS	MILPITAS	PBCH	PISMO BEACH
MRNA	MARINA	PDST	PALM DESERT
MRPK	MOORPARK	PER	PERRIS
MRTA	MURRIETA	PET	PETALUMA
MSHA	MOUNT SHASTA	PFA	PACIFICA
MSNV	MISSION VIEJO	PGR	PACIFIC GROVE
MSO	MONTE SERENO	PHME	PORT HUENEME
MTBL	MONTEBELLO	PIN	PINOLE
MTCA	MANTECA	PIT	PITTSBURG
MTZ	MARTINEZ	PLCN	PLACENTIA
MVL	MARYSVILLE	PLCR	PLACERVILLE
MVW	MOUNTAIN VIEW	PLE	PLEASANTON
MYD	MAYWOOD	PLHL	PLEASANT HILL
NAP	NAPA	PLY	PLYMOUTH
NATC	NATIONAL CITY	PMDL	PALMDALE
NED	NEEDLES	POM	POMONA

PRDS	PARADISE	SBR	SAN BRUNO
PRM	PARAMOUNT	SCAR	SAN CARLOS
PRTL	PORTOLA	SCL	SANTA CLARA
PRV	PICO RIVERA	SCLE	SAN CLEMENTE
PSP	PALM SPRINGS	SCR	SANTA CRUZ
PSRS	PASO ROBLES	SCTA	SANTA CLARITA
PTA	POINT ARENA	SCTV	SCOTTS VALLEY
PTRV	PORTERVILLE	SD	SAN DIEGO
PWY	POWAY	SDMS	SAN DIMAS
RBL	RED BLUFF	SEA	SEASIDE
RCH	RICHMOND	SEB	SEBASTOPOL
RCUC	RANCHO CUCAMONGA	SEL	SELMA
RDEL	RIO DELL	SEMT	SOUTH EL MONTE
RDG	REDDING	SF	SAN FRANCISCO
RDL	REDLANDS	SFSP	SANTA FE SPRINGS
RDOB	REDONDO BEACH	SGB	SAN GABRIEL
RDWC	REDWOOD CITY	SGT	SOUTH GATE
RGCR	RIDGECREST	SHLA	SAINT HELENA
RIA	RIALTO	SHLK	SHASTA LAKE
RIP	RIPON	SIGH	SIGNAL HILL
RIV	RIVERSIDE	SIMV	SIMI VALLEY
RNPK	ROHNERT PARK	SJB	SAN JUAN BAUTISTA
ROC	ROCKLIN	SJCP	SAN JUAN CAPISTRANO
ROPV	RANCHO PALOS VERDES	SJS	SAN JOSE
RSM	RANCHO SANTA MARGARITA	SLB	SEAL BEACH
RSMD	ROSEMEAD	SLMO	SAN ANSELMO
RSV	ROSEVILLE	SLN	SAN LEANDRO
RVBK	RIVERBANK	SLO	SAN LUIS OBISPO
RVS	RIO VISTA	SLTO	SOUTH LAKE TAHOE
SA	SANTA ANA	SLVG	SOLVANG
SAC	SACRAMENTO	SM	SAN MATEO
SAL	SALINAS	SMCA	SANTA MONICA
SAR	SARATOGA	SMCS	SAN MARCOS
SAUS	SAUSALITO	SMRA	SANTA MARIA
SB	SANTA BARBARA	SNDC	SAND CITY
SBD	SAN BERNARDINO	SNT	SANTEE
		SOL	SOLEDAD

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

County

Variable Name: COUNTY

Definition: County in which the intersection is located.

Field Type: Coded:

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

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 Drive/Eagle Rock Way).

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 01/01/1964 (MM/DD/YYYY).

Field Type: Date.

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 01/01/1964 (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 intersection based on the intersection geometry (e.g., four legged).

Field Type: Text.

Mainline Annual Average Daily Traffic

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.

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: The *Route ID* associated with the mainline route at the intersection. This variable can be used to link to other files in conjunction with the milepost field (e.g., 04004_CCR_R).

Field Type: Text.

Mainline 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.

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.

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 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.

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.

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 the cross street only).

Field Type: Text.

X-Street Annual Average Daily Traffic

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.

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 the same route number as the cross street (unrelinquished).

Field Type: Text.

X-Street Signal Mast Arm

Variable Name: XSTRTMST

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

CLNG	COALINGA	DRT	DUARTE
CLP	CALIPATRIA	DVS	DAVIS
CLU	COLUSA	DXN	DIXON
CLVD	CLOVERDALE	ECJ	EL CAJON
CLX	CALEXICO	ECN	EL CENTRO
CMAD	CORTE MADERA	ECR	EL CERRITO
CMB	CAMPBELL	ELKG	ELK GROVE
CMRC	COMMERCE	EMTE	EL MONTE
CMRL	CAMARILLO	EMV	EMERYVILLE
CMS	COSTA MESA	ENTS	ENCINITAS
CMSA	CALIMESA	EPAO	EAST PALO ALTO
CND	CONCORD	ESD	ESCONDIDO
COA	COACHELLA	ESEG	EL SEGUNDO
COL	COLTON	ESL	ESCALON
COM	COMPTON	ESN	LAKE ELSINORE
COR	CORONA	ETN	ETNA
CORD	CORONADO	EUR	EUREKA
COTI	COTATI	EXR	EXETER
CPO	CUPERTINO	FBG	FORT BRAGG
CPTL	CAPITOLA	FER	FERNDALE
CRC	CRESCENT CITY	FIL	FILLMORE
CRCN	CORCORAN	FIR	FIREBAUGH
CRSN	CARSON	FJN	FORT JONES
CRTS	CERRITOS	FMT	FREMONT
CSTG	CALISTOGA	FNA	FONTANA
CTHC	CATHEDRAL CITY	FNV	FOUNTAIN VALLEY
DAPT	DANA POINT	FOW	FOWLER
DBLN	DUBLIN	FRE	FRESNO
DLC	DALY CITY	FRFD	FAIRFIELD
DLN	DELANO	FRFX	FAIRFAX
DMBR	DIAMOND BAR	FSTC	FOSTER CITY
DMR	DUNSMUIR	FTA	FORTUNA
DNVL	DANVILLE	FUL	FULLERTON
DNY	DOWNEY	GAL	GALT
DPLS	DOS PALOS	GAR	GARDENA
DRO	DEL REY OAKS	GDLP	GUADALUPE
DRS	DORRIS	GDR	GLENDORA

GGR	GARDEN GROVE	KNGB	KINGSBURG
GIL	GILROY	LA	LOS ANGELES
GNDL	GLENDALE	LAH	LOS ALTOS HILLS
GNFD	GREENFIELD	LALM	LOS ALAMITOS
GNZ	GONZALES	LAN	LANCASTER
GRC	GROVER BEACH	LATS	LOS ALTOS
GRD	GRIDLEY	LBCH	LONG BEACH
GRTR	GRAND TERRACE	LBNS	LOS BANOS
GUS	GUSTINE	LCF	LA CANADA FLINTRIDGE
GVY	GRASS VALLEY	LEM	LEMOORE
HAN	HANFORD	LFYT	LAFAYETTE
HAW	HAWTHORNE	LGNB	LAGUNA BEACH
HAY	HAYWARD	LGNG	LAGUNA NIGUEL
HEM	HEMET	LGNH	LAGUNA HILLS
HER	HERCULES	LGTS	LOS GATOS
HES	HESPERIA	LHB	LA HABRA
HIGH	HIGHLAND	LIO	LIVE OAK
HIL	HILLSBOROUGH	LKFR	LAKE FOREST
HLBG	HEALDSBURG	LKPT	LAKEPORT
HMB	HERMOSA BEACH	LKSP	LARKSPUR
HMBY	HALF MOON BAY	LKW	LAKEWOOD
HNTB	HUNTINGTON BEACH	LMGR	LEMON GROVE
HNTP	HUNTINGTON PARK	LMLN	LOMA LINDA
HOLT	HOLTVILLE	LMRD	LA MIRADA
HRN	HURON	LMS	LOOMIS
HST	HOLLISTER	LMSA	LA MESA
IDY	INDUSTRY	LMTA	LOMITA
IMB	IMPERIAL BEACH	LNDL	LAWNDALE
IND	INDIO	LNSY	LINDSAY
ING	INGLEWOOD	LOD	LODI
ION	IONE	LOM	LOMPOC
IRVN	IRVINE	LOY	LOYALTON
IRW	IRWINDALE	LPMA	LA PALMA
IST	ISLETON	LPU	LA PUENTE
JKN	JACKSON	LTRP	LATHROP
KMN	KERMAN	LVMR	LIVERMORE
KNC	KING CITY	LVN	LA VERNE

LVTN	LIVINGSTON	NEVC	NEVADA CITY
LYN	LYNWOOD	NEWM	NEWMAN
MAD	MADERA	NPTB	NEWPORT BEACH
MAL	MALIBU	NRCO	NORCO
MANB	MANHATTAN BEACH	NRW	NORWALK
MCF	MCFARLAND	NVTO	NOVATO
MCL	MONTCLAIR	NWK	NEWARK
MCP	MARICOPA	OAK	OAKLAND
MDA	MENDOTA	OCN	OCEANSIDE
MER	MERCED	OJI	OJAI
MGH	MORGAN HILL	OKDL	OAKDALE
MLBR	MILLBRAE	ONT	ONTARIO
MLP	MENLO PARK	ORA	ORANGE
MMLK	MAMMOTH LAKES	ORCV	ORANGE COVE
MNRO	MONROVIA	ORIN	ORINDA
MNTG	MONTAGUE	ORL	ORLAND
MOBY	MORRO BAY	OVL	OROVILLE
MOD	MODESTO	OXN	OXNARD
MON	MONTEREY	PA	PALO ALTO
MONP	MONTEREY PARK	PAS	PASADENA
MORV	MORENO VALLEY	PAT	PATTERSON
MPS	MILPITAS	PBCH	PISMO BEACH
MRNA	MARINA	PDST	PALM DESERT
MRPK	MOORPARK	PER	PERRIS
MRTA	MURRIETA	PET	PETALUMA
MSHA	MOUNT SHASTA	PFA	PACIFICA
MSNV	MISSION VIEJO	PGR	PACIFIC GROVE
MSO	MONTE SERENO	PHME	PORT HUENEME
MTBL	MONTEBELLO	PIN	PINOLE
MTCA	MANTECA	PIT	PITTSBURG
MTZ	MARTINEZ	PLCN	PLACENTIA
MVL	MARYSVILLE	PLCR	PLACERVILLE
MVW	MOUNTAIN VIEW	PLE	PLEASANTON
MYD	MAYWOOD	PLHL	PLEASANT HILL
NAP	NAPA	PLY	PLYMOUTH
NATC	NATIONAL CITY	PMDL	PALMDALE
NED	NEEDLES	POM	POMONA

PRDS	PARADISE	SBR	SAN BRUNO
PRM	PARAMOUNT	SCAR	SAN CARLOS
PRTL	PORTOLA	SCL	SANTA CLARA
PRV	PICO RIVERA	SCLE	SAN CLEMENTE
PSP	PALM SPRINGS	SCR	SANTA CRUZ
PSRS	PASO ROBLES	SCTA	SANTA CLARITA
PTA	POINT ARENA	SCTV	SCOTTS VALLEY
PTRV	PORTERVILLE	SD	SAN DIEGO
PWY	POWAY	SDMS	SAN DIMAS
RBL	RED BLUFF	SEA	SEASIDE
RCH	RICHMOND	SEB	SEBASTOPOL
RCUC	RANCHO CUCAMONGA	SEL	SELMA
RDEL	RIO DELL	SEMT	SOUTH EL MONTE
RDG	REDDING	SF	SAN FRANCISCO
RDL	REDLANDS	SFSP	SANTA FE SPRINGS
RDOB	REDONDO BEACH	SGB	SAN GABRIEL
RDWC	REDWOOD CITY	SGT	SOUTH GATE
RGCR	RIDGECREST	SHLA	SAINT HELENA
RIA	RIALTO	SHLK	SHASTA LAKE
RIP	RIPON	SIGH	SIGNAL HILL
RIV	RIVERSIDE	SIMV	SIMI VALLEY
RNPK	ROHNERT PARK	SJB	SAN JUAN BAUTISTA
ROC	ROCKLIN	SJCP	SAN JUAN CAPISTRANO
ROPV	RANCHO PALOS VERDES	SJS	SAN JOSE
RSM	RANCHO SANTA MARGARITA	SLB	SEAL BEACH
RSMD	ROSEMEAD	SLMO	SAN ANSELMO
RSV	ROSEVILLE	SLN	SAN LEANDRO
RVBK	RIVERBANK	SLO	SAN LUIS OBISPO
RVS	RIO VISTA	SLTO	SOUTH LAKE TAHOE
SA	SANTA ANA	SLVG	SOLVANG
SAC	SACRAMENTO	SM	SAN MATEO
SAL	SALINAS	SMCA	SANTA MONICA
SAR	SARATOGA	SMCS	SAN MARCOS
SAUS	SAUSALITO	SMRA	SANTA MARIA
SB	SANTA BARBARA	SNDC	SAND CITY
SBD	SAN BERNARDINO	SNT	SANTEE
		SOL	SOLEDAD

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

County Code

Variable Name: COUNTY

Definition: County in which the ramp is located.

Field Type: Coded:

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

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 value unique to other postmiles on the route that are numerically the same (e.g., realignment).

Field Type: Text.

Ramp AADT

Variable Name: RMP_ADТ

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

Field Type: Numeric.

Ramp Area 4 Indicator

Variable Name: AREA4

Definition: Area 4 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 4 only if the cross street is *not* a State highway or another ramp.

Field Type: Coded:

Y = yes.

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 variable 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 a 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.

Field Type: Coded:

- R = rural.
- U = urban.

Crash File

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	INY	Inyo
ALP	Alpine	KER	Kern
AMA	Amador	KIN	Kings
BUT	Butte	LAK	Lake
CAL	Calaveras	LAS	Lassen
COL	Colusa	LA	Los Angeles
CC	Contra Costa	MAD	Madera
DN	Del Norte	MRN	Marin
ED	El Dorado	MPA	Mariposa
FRE	Fresno	MEN	Mendocino
GLE	Glenn	MER	Merced
HUM	Humboldt	MOD	Modoc
IMP	Imperial	MNO	Mono

MON	Monterey	SCL	Santa Clara
NAP	Napa	SCR	Santa Cruz
NEV	Nevada	SHA	Shasta
ORA	Orange	SIE	Sierra
PLA	Placer	SIS	Siskiyou
PLU	Plumas	SOL	Solano
RIV	Riverside	SON	Sonoma
SAC	Sacramento	STA	Stanislaus
SBT	San Benito	SUT	Sutter
SBD	San Bernardino	TEH	Tehama
SD	San Diego	TRI	Trinity
SF	San Francisco	TUL	Tulare
SJ	San Joaquin	TUO	Tuolumne
SLO	San Luis Obispo	VEN	Ventura
SM	San Mateo	YOL	Yolo
SB	Santa Barbara	YUB	Yuba

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.
- 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.

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_FG

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.

Postmile Prefix

Variable Name: PSMILPRF

Definition: An alpha code attached as a prefix to the postmile value to make the 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. The HSIS Laboratory develops this variable for the purpose of readily classifying roadway data. This variable combines the *Number of Lanes*, *Median Type*, and *Functional Class* variables with the Census Urban Places data. (e.g., rural two-lane roads).⁽⁴⁾

Field Type: Text.

Values:

- Urban freeways.
- Urban freeways fewer than four lanes.
- Urban two-lane roads.
- Urban multilane divided non-freeway.
- Urban multilane undivided non-freeway.
- Rural freeways.
- Rural freeways fewer than four lanes.
- Rural two-lane roads.
- Rural multilane divided non-freeway.
- Rural multilane undivided non-freeway.
- Others.

*Variable created or edited by HSIS Laboratory.

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.

Route Suffix

Variable Name: RTE_SUF

Definition: This variable is an alpha code attached as a suffix to the route number to identify a highway (truck or busway route) with a duplicate route number (e.g., supplemental).

Field Type: Text.

Time of Crash

Variable Name: HOUR

Definition: Time at which the crash occurred using 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).

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

Definition: The weather condition at the time of the crash.

Field Type: Text.

Weather Secondary

Variable Name: WEATHER₁

Definition: The weather condition at the time of the crash. This secondary field includes supplementary weather conditions (e.g., cloudy, fog).

Field Type: Text.

Unit File

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

Definition: The primary location of the collision. Additional fields reflect subsequent locations associated with the crash (e.g., right lane, beyond shoulder driver's right).

Field Type: Text.

Crash Location 2

Variable Name: POSN_2

Definition: The primary location of the collision. Additional fields reflect subsequent locations associated with the crash (e.g., right lane, beyond shoulder driver's right).

Field Type: Text.

Crash Location 3

Variable Name: POSN_3

Definition: The primary location of the collision. Additional fields reflect subsequent locations associated with the crash (e.g., right lane, beyond shoulder driver's right).

Field Type: Text.

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

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.

Object Struck 2

Variable Name: OBJECT_2

Definition: Second 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.

Object Struck 3

Variable Name: OBJECT_3

Definition: Third 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.

Object Struck 4

Variable Name: OBJECT_4

Definition: Fourth object struck (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: Alcohol or drug impairment, if applicable (e.g., HBD_Under Influence (>0.08 percent)).

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.
- 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 variable reflects an injury level of A (suspected serious injury) on the KABCO scale (K = fatal injury (killed); A = serious injury; B = minor injury; C = possible injury; O = no injury (property damage only)).

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 variable 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 variable 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 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: History of Revisions

Appendix: History of Revisions

Table 3 provides HSIS variables and the years in which changes were made. The changes are described for the relevant variables.

Table 3. History of HSIS revisions.

File	Variable Name	Variable	Description of Change	Year of Change
Crash	ACC_DATE	Date of accident (year month day)	No change	—
Crash	ACCTYPE	Type of collision	Variable created Variable type change from coded to text	2001 2018
Crash	ACCYR	Collision accident year	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 case number	Variable name changed to ACC_ID	2018
Crash	CAUSE1	Primary collision factor	Variable type change from coded to text	2018
Crash	CAUSHPAL	Collision factor alpha (CHP)	Variable discontinued	2018
Crash	CAUSHPCD	Collision factor coding (CHP)	Variable discontinued	2018
Crash	CAUSHPCT	Collision factor category (CHP)	Variable discontinued	2018
Crash	CAUSHPLG	Collision factor legal code (CHP)	Variable discontinued	2018
Crash	CAUSHPSB	Collision 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 2018
Crash	HIT_RUN	Hit and run	Variable discontinued	2018
Crash	HOUR	Time of accident	No change	—
Crash	HWY_GRP	Highway group	Variable discontinued	2018
Crash	INT_RMP	Intersection/ramp accident location	Variable type change from coded to text	2018

File	Variable Name	Variable	Description of Change	Year of Change
Crash	INTER	Intersection crash	Variable created Variable type change from coded to text	2005 2018
Crash	JUR_TYPE	Jurisdiction type	Variable created Variable discontinued	1995 2001
Crash	LIGHT	Light condition	Variable type change from coded to text	2018
Crash	LOC_TYP	Location type	Variable created Variable type change from coded to text	2004 2018
Crash	LOCATN	County/city code where crash occurred	Variable discontinued	2018
Crash	MILEPOST	Milepost	No change	—
Crash	MTCY_FLG	Motorcycle involved	Variable created Variable type change from coded to text	2001 2018
Crash	NUM_OCCS	Occupants	Variable discontinued	2000
Crash	NUMVEHS	Total number of vehicles	No change	—
Crash	PED_ACTN	Pedestrian action	Variable created Variable discontinued	2003 2018
Crash	PED_FLG	Pedestrian involved	Variable created Variable type change from coded to text	2001 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 Laboratory	1991
Crash	RPT_LEV	Accident report level	Variable type change from coded to text	2018
Crash	RTE_NBR	Roadway route number	No change	—
Crash	RTE_SUF	Roadway route suffix	Variable type change from coded to text	2018
Crash	SDE_HWY	Side of highway	Variable discontinued	2018
Crash	SEVERITY	Collision severity	Variable type change from coded to text	2018
Crash	SP_COND	Special condition	Variable created Variable discontinued	2003 2018
Crash	TOT_BIKEINJ	Total bicyclists injured	Variable created Variable name changed to TOT_BIKE_INJ	2003 2018

File	Variable Name	Variable	Description of Change	Year of Change
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 Variable type change from coded to text	2001 2018
Crash	VEH_AT_FAULT	Vehicle at fault	Variable discontinued	2001
Crash	VEH_INVL	Motor vehicles involved	Variable discontinued	2018
Crash	VTYPER_AT_FAULT_CHP	CHP vehicle type at fault	Variable created Variable discontinued	2001 2018
Crash	VTYPER_AT_FAULT_DOT	Vehicle type at fault	Variable created Variable discontinued	2001 2018
Crash	WEATHER	Weather	Variable name changed to WEATHER ₁ Variable name changed to WEATHER Variable type change from coded to text	2002 2018 2018
Crash	WEATHER ₁	Weather	Variable created as WEATHER ₂ Variable name changed to WEATHER ₁ Variable type change from coded to text	2002 2018 2018
Crash	WEATHER ₂	Weather	Variable created Variable discontinued	2002 2018
Crash	WEEKDAY	Day of week	Change in coding	2018
Unit	ACCYR	Collision accident year	Variable discontinued	2018
Unit	BELT ₁	Belt usage	Variable created Variable discontinued	2001 2001
Unit	CASENO	Unique accident case number	Variable name changed to ACC_ID	2018
Unit	CAUSE	Contribution factor	Variable created Variable discontinued	2002 2018
Unit	CELLPHONE	Cell phone	Variable created Variable discontinued	2002 2018
Unit	CONTRIB ₁	First associated factor	Variable discontinued	2018

File	Variable Name	Variable	Description of Change	Year of Change
Unit	CONTRIB2	Second associated factor	Variable discontinued	2018
Unit	DEFECT	Vehicle defect	Variable created Variable discontinued	2002 2018
Unit	DIR_TRVL	Direction of travel	Variable name changed to VEH_DIR Variable type change from coded to text	2018 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 Variable discontinued	2002 2018
Unit	DRV_SEX	Driver sex	Variable discontinued	2018
Unit	DRVREST1	Driver safety equipment	Variable created Variable discontinued	2002 2018
Unit	DRVREST2	Driver safety equipment	Variable created Variable discontinued	2002 2018
Unit	FIRE	Vehicle fuel leaks and fires	Variable created Variable discontinued	2002 2018
Unit	HAZ_CODE	Hazardous material	Variable created Variable discontinued	2002 2018
Unit	HAZMAT	Hazardous material	Variable created Variable discontinued	2002 2018
Unit	INSUR	Insurance	Variable created Variable discontinued	2001 2018
Unit	LOC_TYP1	First collision location	Variable name changed to POSN_1 Variable type change from coded to text	2018 2018
Unit	LOC_TYP2	Second collision location	Variable name changed to POSN_2 Variable type change from coded to text	2018 2018
Unit	LOC_TYP3	Third collision location	Variable name changed to POSN_3 Variable type change from coded to text	2018 2018
Unit	LOC_TYP4	Fourth collision location	Variable name changed to POSN_4 Variable type change from coded to text	2018 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

File	Variable Name	Variable	Description of Change	Year of Change
Unit	MISCACT ₁	Movement preceding collision	Variable name changed to MOVEMENT_TYPE Variable type change from coded to text	2018 2018
Unit	NUM_INJ	Total number injured	Variable discontinued	2018
Unit	NUM_KILL	Total number killed	Variable discontinued	2018
Unit	OBJECT ₁	First object struck	Variable name changed to OBJECT_1 Variable type change from coded to text	2018 2018
Unit	OBJECT ₂	Second object struck	Variable name changed to OBJECT_2 Variable type change from coded to text	2018 2018
Unit	OBJECT ₃	Third object struck	Variable name changed to OBJECT_3 Variable type change from coded to text	2018 2018
Unit	OBJECT ₄	Fourth object struck	Variable name changed to OBJECT_4 Variable type change from coded to text	2018 2018
Unit	PART_TYP	Party type	Variable name changed to PARTY_GROUP Change in coding	2018 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 Variable type change from coded to text	2018 2018
Unit	POSSIBLE_INJURY	Total possible injuries	Variable created	2018
Unit	RTE_TYPE	Highway type indicator	Variable name changed to HWY_IND_TYPE Variable type change from coded to text	2018 2018
Unit	SCHLBUS	School bus	Variable created Variable discontinued	2002 2018
Unit	SOBRIETY	Sobriety	Variable name changed to IMPAIRMENT_CODE_1 Variable type change from coded to text	2018 2018
Unit	SPEC_INF	Special information	Variable created Variable name changed to SPECIAL_FACTOR_CODE	2002 2018
Unit	SUB_VIOL	Violation suffix	Variable created Variable discontinued	2002 2018
Unit	TRAIL_CODE	Trailer code	Variable created Variable discontinued	2003 2018

File	Variable Name	Variable	Description of Change	Year of Change
Unit	TRK_CODE	Truck code	Variable created Variable discontinued	2003 2018
Unit	VEH_AT_FAUL	Vehicle at fault	Variable created Variable discontinued	2001 2018
Unit	VEHNO	Vehicle number	Variable name changed to UNIT_VEC	2018
Unit	VEHTYPE	Vehicle type	Variable name changed to PARTY_TYPE Variable type change from coded to text	2018 2018
Unit	VEHYR	Vehicle model year	Variable discontinued	2018
Unit	VIOL	Violation category	Variable discontinued	2018
Unit	VIOLS	CADMV vehicle violations	Variable created Variable discontinued	1998 2018
Unit	VTOWED	Vehicle towed	Variable created Variable discontinued	2001 2018
Unit	VTOWING	Vehicle towing	Variable created Variable discontinued	2001 2018
Road	AADT	Annual average daily traffic	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	Average daily traffic date	Variable discontinued	2003
Road	ADT_DVM	Daily vehicle miles (DVM)	Variable discontinued	2003
Road	ADT_HIST	Average daily traffic history	Variable discontinued	2003
Road	ADT_MSG	Alpha message	Variable discontinued	2003
Road	ADT_STUS	Average daily traffic status profile	Variable discontinued	2018
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 ₁	Curb and landscape	Variable discontinued	2018
Road	DES_NBR	Road desc (description) 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 plus SEG_LNG	No change	—
Road	FEAT_LF	Left roadbed special feature	Variable discontinued	2018

File	Variable Name	Variable	Description of Change	Year of Change
Road	FEAT_RG	Right roadbed special feature	Variable discontinued	2018
Road	FED_AID	Federal aid (in lieu)	Variable discontinued	2018
Road	FED_PREF	Federal aid route prefix	Variable discontinued	2018
Road	FED_RTE	Federal aid route	Variable discontinued	2018
Road	FILETYP	File type	Variable discontinued	2003
Road	FUNC_CLS	Functional class	Variable discontinued	2018
Road	HIST_ADD	History elements relative address	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_WD2	Left shoulder width road 2	No change	—
Road	LSHLDWID	Left shoulder width road 1	No change	—
Road	LST_SEG_CHG_DTE	Date of last change	Variable created Variable discontinued	2005 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 Variable discontinued	2005 2007
Road	MED_DTE	Ramp median date	Variable discontinued	2018
Road	MED_HIST	Median history	Variable discontinued	2018
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 road 1	No change	—
Road	NO_LANE2	Number of lanes road 2	No change	—
Road	NO_LANES	Total number of lanes	No change	—
Road	PAV_WDL	Left paved shoulder width road 1	Variable discontinued	2018
Road	PAV_WDL2	Left paved shoulder width road 2	Variable discontinued	2018
Road	PAV_WDR2	Right paved shoulder width road 2	Variable discontinued	2018
Road	PAV_WIDR	Right paved shoulder width road 1	Variable discontinued	2018
Road	PSMILPRF	Postmile prefix	No change	—

File	Variable Name	Variable	Description of Change	Year of 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 Laboratory	1994
Road	RSHL_WD2	Right shoulder width road 2	No change	—
Road	RSHLDWID	Right shoulder width road 1	No change	—
Road	RTE_NBR	Roadway route number	No change	—
Road	RTE_SUF	Roadway route suffix	No 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 road 2	Variable type change from coded to text	2018
Road	SURF_TYP	Surface type road 1	Variable type change from coded to text	2018
Road	SURF_WD2	Traveled-way width road 2	No change	—
Road	SURF_WID	Traveled-way width road 1	No change	—
Road	TERRAIN	Terrain	Variable type change from coded to text	2018
Road	TOLL	Toll and forest roads	Variable discontinued	2018
Road	TRK2AX	2-axle truck annual average daily traffic	Variable discontinued	2018
Road	TRK3AX	3-axle truck annual average daily traffic	Variable discontinued	2018
Road	TRK4AX	4-axle truck annual average daily traffic	Variable discontinued	2018
Road	TRK5AX	5+-axle truck annual average daily traffic	Variable discontinued	2018
Road	TRKCNTFL	Truck count flag	Variable discontinued	2018
Road	TRKTOT	Total truck annual average daily traffic	Variable created Variable discontinued	1995 2018
Intersection	CITY_CODE	City code	Variable created as CITY_CDE Variable name changed to CITY_CODE	2003 2017
Intersection	CNTYRTE	Intersection county route	No change	—

File	Variable Name	Variable	Description of Change	Year of 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 route prefix	Variable discontinued	2018
Intersection	INT_POPGRP	Population code	Variable created	2003
Intersection	INT_RSUF	Intersecting route suffix	Variable type change from coded to text	2018
Intersection	INT_RTE	Intersecting route number	No change	—
Intersection	INT_SEQ	Intersecting route order sequence	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 annual average daily traffic	No change	—
Intersection	ML_ADSTD	Mainline average daily traffic date	Variable discontinued	2003
Intersection	ML_ADTHS	Mainline average daily traffic 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 mast arm	No change	—

File	Variable Name	Variable	Description of Change	Year of 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
Intersection	RTE_NBR	Roadway route number	No change	—
Intersection	RTE_SUF	Roadway 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 annual average daily traffic	No change	—
Intersection	XSTADTDT	X-street average daily traffic date	Variable discontinued	2003
Intersection	XSTADTHS	X-street average daily history	Variable discontinued	2003
Intersection	XSTLANES	X-street number of lanes	No change	—
Intersection	XSTLNGT	X-street section length	Variable discontinued	2018
Intersection	XSTRTDTE	X-street date	Variable discontinued	2018
Intersection	XSTRTHST	X-street history	Variable discontinued	2003
Intersection	XSTRLEFT	X-street left turn channelization	Variable type change from coded to text	2018
Intersection	XSTRTMST	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 Variable name changed to CITY_CODE	2003 2017
Interchange	CNTYRTE	Ramp county route	No change	—
Interchange	COUNTY	County	Variable created	2003
Interchange	DIR_CODE	Direction	Variable created Variable discontinued	2003 2018
Interchange	DISTRICT	District	No change	—

File	Variable Name	Variable	Description of Change	Year of Change
Interchange	HWY_GRP	Highway group	Variable type change from coded to text	2018
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 Variable discontinued	2003 2018
Interchange	RECTYPE	Record type	Variable discontinued	2003
Interchange	RMADTDTE	Ramp average daily traffic date	Variable discontinued	2003
Interchange	RMADTHST	Ramp average daily traffic history	Variable discontinued	2003
Interchange	RMP_ADT	Ramp annual average daily traffic	No change	—
Interchange	RMP_BEGMPOFFSET	Ramp begin milepost	Variable created Variable discontinued	2003 2018
Interchange	RMP_DTE	Ramp type date	Variable discontinued	2003
Interchange	RMP_HST	Ramp history	Variable created Variable discontinued	1995 2003
Interchange	RMP_POPGRP	Ramp population code	Change in coding	2018
Interchange	RMP_SEQ	Ramp sequence	Variable created Variable discontinued	2003 2018
Interchange	RMP_TYPE	Ramp type	Variable discontinued	2003
Interchange	RTE_NBR	Roadway route number	Variable created	2003
Interchange	RTE_SUF	Roadway route suffix	Variable created	2003
Interchange	TRF_CNTL	Traffic control type	Variable created Variable discontinued	2003 2018

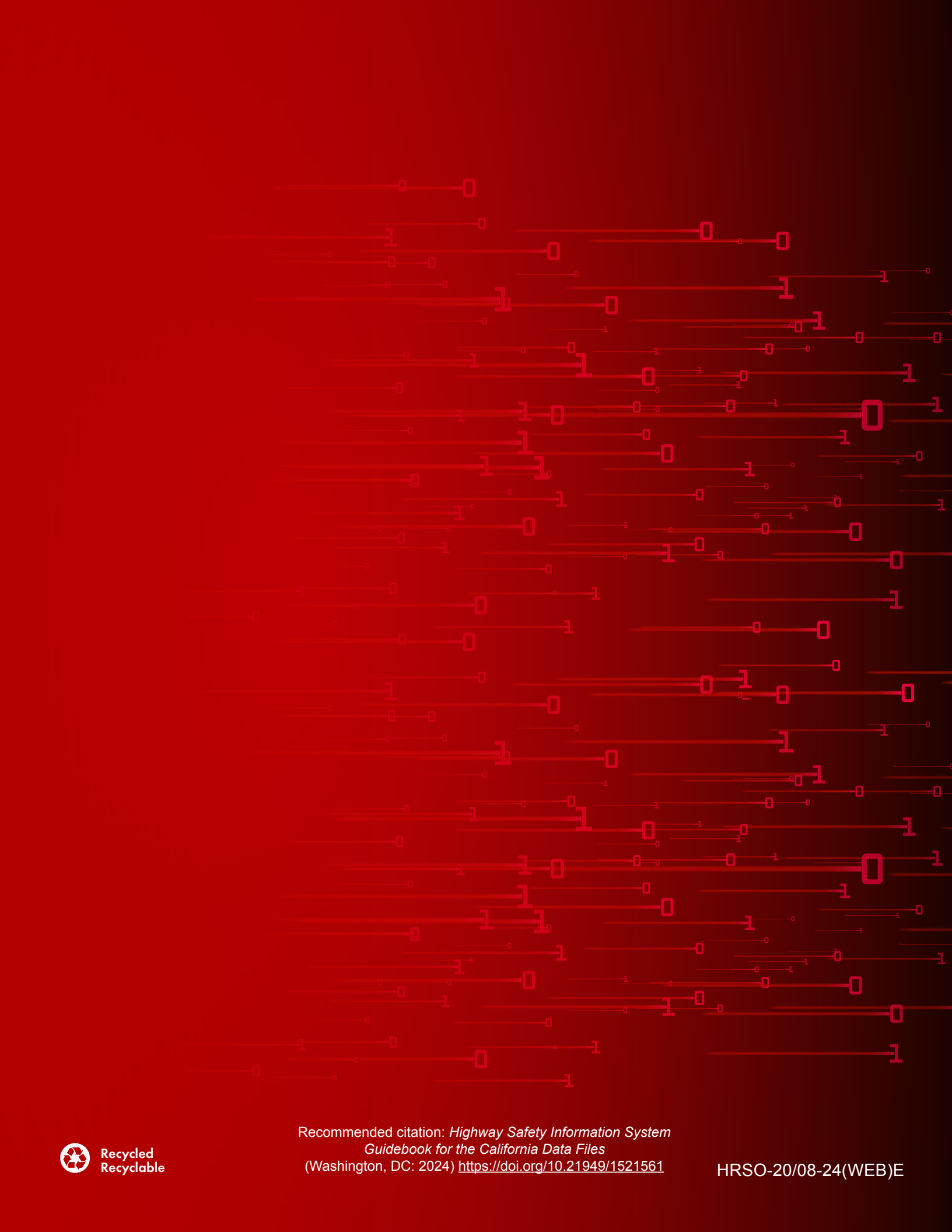
—No data.

CADMV = California Department of Motor Vehicles; CHP = California Highway Patrol; RDBD = road border.

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