

## SWITRS Codebook

### SWITRS Collision Raw Data

Item Name	Variable Name	Description	Label	Possible Values
Case Id	<b>CASEID</b>	the unique identifier of the collision report (barcode beginning 2002; 19 digit code prior to 2002)		
X-Coordinate Location	<b>POINT_X</b>	The longitude of the geocoded location; uses the World Geodetic System from 1984 (WGS84).		
Y-Coordinate Location	<b>POINT_Y</b>	The latitude of the geocoded location; uses the World Geodetic System from 1984 (WGS84).		
Collision Year	<b>YEAR_</b>	the year when the collision occurred		
County City Location	<b>LOCATION</b>	the location code of where the collision occurred		Data may appear with no leading zero.
CHP Beat Type	<b>CHPTYPE</b>		<b>0 "Not CHP"</b> <b>1 "Interstate"</b> <b>2 "US Highway"</b> <b>3 "State Route"</b> <b>4 "County Road Line"</b> <b>5 "County Road Area"</b> <b>6 "US Highway"</b> <b>7 "State Route"</b> <b>8 "County Road Line"</b> <b>9 "County Road Area"</b> <b>10 "Safety Services Program Beats"</b> <b>11 "Administrative Beats (900's)"</b>	1 - Interstate 2 - US Highway 3 - State Route 4 - County Road Line 5 - County Road Area A - Safety Services Program Beats S - Administrative Beats (900's) 0 - Not CHP Contract City: 6 - US Highway 7 - State Route 8 - County Road Line 9 - County Road Area
Day of Week	<b>DAYWEEK</b>	the code for the day of the week when the collision occurred		1 - Monday 2 - Tuesday 3 - Wednesday 4 - Thursday 5 - Friday 6 - Saturday 7 - Sunday
Collision Severity	<b>CRASHSEV</b>	the injury level severity of the collision		1 - Fatal 2 - Injury (Severe)

		(highest level of injury in collision)		3 - Injury (Other Visible) 4 - Injury (Complaint of Pain) 0 – Property Damage Only (PDO) (PDO collisions not included on TIMS)
PCF Violation Category	<b>VIOLCAT</b>			01 - Driving or Bicycling Under the Influence of Alcohol or Drug 02 - Impeding Traffic 03 - Unsafe Speed 04 - Following Too Closely 05 - Wrong Side of Road 06 - Improper Passing 07 - Unsafe Lane Change 08 - Improper Turning 09 - Automobile Right of Way 10 - Pedestrian Right of Way 11 - Pedestrian Violation 12 - Traffic Signals and Signs 13 - Hazardous Parking 14 - Lights 15 - Brakes 16 - Other Equipment 17 - Other Hazardous Violation 18 - Other Than Driver (or Pedestrian) 19 - 20 - 21 - Unsafe Starting or Backing 22 - Other Improper Driving 23 - Pedestrian or "Other" Under the Influence of Alcohol or Drug 24 - Fell Asleep 00 - Unknown - - Not Stated
Killed victims	<b>KILLED</b>	counts victims in the collision with degree of injury of 1		0 to N for each collision
Injured victims	<b>INJURED</b>	counts victims in the collision with degree of injury of 2, 3, or 4		0 to N for each collision
Weather 1	<b>WEATHER1</b>	the weather condition at the time of the collision		A - Clear B - Cloudy C - Raining D - Snowing E - Fog F - Other G - Wind - - Not Stated
Pedestrian Collision	<b>PEDCOL</b>	indicates whether the collision involved a pedestrian		Y or blank

Bicycle Collision	<b>BICCOL</b>	indicates whether the collision involved a bicycle		Y or blank
Motorcycle Collision	<b>MCCOL</b>	indicates whether the collision involved a motorcycle		Y or blank
Truck Collision	<b>TRUCKCOL</b>	indicates whether the collision involved a big truck		Y or blank
Alcohol Involved	<b>ETOH</b>	indicates whether the collision involved a party that had been drinking		Y or blank
Time Category	<b>TIMECAT</b>	the time of the collision aggregated by 3 hour categories		300 - Time >= 0:00 or Time <= 2:59 600 - Time >= 3:00 or Time <= 5:59 900 - Time >= 6:00 or Time <= 8:59 1200 - Time >= 9:00 or Time <= 11:59 1500 - Time >= 12:00 or Time <= 14:59 1800 - Time >= 15:00 or Time <= 17:59 2100 - Time >= 18:00 or Time <= 20:59 2400 - Time >= 21:00 or Time <= 23:59 2500 - Time = 25:00 (Unknown)
Month	<b>MONTH_</b>	The month of the year		1 - January 2 - February 3 - March 4 - April 5 - May 6 - June 7 - July 8 - August 9 - September 10 - October 11 - November 12 - December
Type of Collision	<b>CRASHTYP</b>			A - Head-On B - Sideswipe C - Rear End

				D - Broadside E - Hit Object F - Overturned G - Vehicle/Pedestrian H - Other - - Not Stated
Motor Vehicle Involved With	<b>INVOLV</b>			A - Non-Collision B - Pedestrian C - Other Motor Vehicle D - Motor Vehicle on Other Roadway E - Parked Motor Vehicle F - Train G - Bicycle H - Animal I - Fixed Object J - Other Object - - Not Stated
Ped Action	<b>PED</b>			A - No Pedestrian Involved B - Crossing in Crosswalk at Intersection C - Crossing in Crosswalk Not at Intersection D - Crossing Not in Crosswalk E - In Road, Including Shoulder F - Not in Road G - Approaching/Leaving School Bus - - Not Stated
Primary Rd	<b>PRIMARYRD</b>	The road the collision occurred on		
Secondary Rd	<b>SECONDRD</b>	A secondary reference road that DISTANCE and DIRECT are measured from		
Distance	<b>DISTANCE</b>	Offset distance from secondary road		distance converted to feet
Direction	<b>DIRECT</b>	Direction of offset distance		N - North E - East S - South W - West - or blank - Not Stated, in Intersection
Intersection	<b>INTERSECT_</b>	Indicates where a collision occurred at an intersection		Y - Intersection N - Not Intersection Blank - Not stated
Processing Date	<b>PROCDATE</b>	Date the record was processed		
Jurisdiction	<b>JURIS</b>	Jurisdiction		
Collision Date	<b>DATE_</b>	the date when the collision occurred		
Collision Time	<b>TIME_</b>	the time when the collision		Data may appear with no leading

		occurred (24 hour time)		zero(s).
Officer Id	<b>BADGE</b>			
Reporting District	<b>JURDIST</b>			
CHP Shift	<b>SHIFT</b>			1 - 0600 thru 1359 2 - 1400 thru 2159 3 - 2200 thru 0559 4 - CHP Not Stated 5 - Not CHP
Population	<b>POP</b>			1 - Incorporated (less than 2500) 2 - Incorporated (2500 - 10000) 3 - Incorporated (10000 - 25000) 4 - Incorporated (25000 - 50000) 5 - Incorporated (50000 - 100000) 6 - Incorporated (100000 - 250000) 7 - Incorporated (over 250000) 9 - Unincorporated (Rural) 0 - University (Private Property) - - Not Stated
Special Condition	<b>SPECIAL</b>			1 - Schoolbus on Public Roadway (CHP Beat or CHP Adm Beat 901) 2 - State University (Also SFIA) 3 - Schoolbus Not on Public Roadway (CHP Adm Beat 903) 4 - Offroad (Unimproved) (CHP Adm Beat 906, 907) 5 - Vista Point or Rest Area (CHP Adm Beat 903) or Scales or Inspection Facility (CHP Com Beat 860-898) 6 - Other Public Access (Improved) (CHP Adm Beat 903) 0 - Not Above - - Not Stated
Beat Type	<b>BEATTYPE</b>			1 - CHP State Highway 2 - CHP County Road Line 3 - CHP County Road Area 4 - Schoolbus on City Roadway (CHP Adm Beat 901) 5 - Schoolbus not on Public Roadway (CHP Adm Beat 903) 6 - Offroad (Unimproved) (CHP Adm Beat 906, 907) 7 - Vista Point or Rest Area (CHP Adm Beat 903) or Scales or Inspection Facility (CHP Com Beat

				860-898) 8 - Other Public Access (Improved) (CHP Adm Beat 903) 0 - Not CHP
City Division LAPD	<b>LAPDDIV</b>			Includes blanks and dashes as not stated.
CHP Beat Class	<b>BEATCLAS</b>			1 - CHP Primary 2 - CHP Other 0 - Not CHP
Beat Number	<b>BEATNUMB</b>			
Weather 2	<b>WEATHER2</b>	the weather condition at the time of the collision, if a second description is necessary		same as weather 1 above
State Highway Indicator	<b>STATEHW</b>	Indicates whether a collision occurred on a state highway		Y - State Highway N - Not State Highway Blank - Not stated
Caltrans County	<b>CALTRANC</b>			Includes blanks and nulls
Caltrans District	<b>CALTRAND</b>			
State Route	<b>STROUTE</b>			0 = Not State Highway
Route Suffix	<b>ROUTESUF</b>			
Postmile Prefix	<b>POSTPRE</b>			
Postmile	<b>POSTMILE</b>			
Location Type	<b>LOCATYPE</b>			H - Highway I - Intersection R - Ramp (or Collector) - or blank - Not State Highway
Ramp Intersection	<b>RAMP</b>			1 - Ramp Exit, Last 50 Feet 2 - Mid-Ramp 3 - Ramp Entry, First 50 Feet 4 - Not State Highway, Ramp-related, Within 100 Feet 5 - Intersection 6 - Not State Highway, Intersection-related, Within 250 Feet 7 - Highway 8 - Not State Highway - - Not Stated
Side Of Highway	<b>SIDEHW</b>	Code provided by Caltrans Coders; applies to divided highway, based on nominal direction of route; for single vehicle is same as nominal direction of travel, overruled by impact with second vehicle after crossing median		N - Northbound S - Southbound E - Eastbound W - Westbound Blank - Not stated/not state highway

Tow Away	<b>TOWAWAY</b>			Y - Yes N - No
Party Count	<b>PARTIES</b>	counts total parties in the collision		1 to N for each collision
Primary Collision Factor	<b>PCF</b>			A - (Vehicle) Code Violation B - Other Improper Driving C - Other Than Driver D - Unknown E - Fell Asleep - - Not Stated
PCF Violation Code	<b>VIOLCODE</b>			B - Business and Professions C - Vehicle H - City Health and Safety I - City Ordinance O - County Ordinance P - Penal S - Streets and Highways W - Welfare and Institutions - - Not Stated
PCF Violation	<b>VIOL</b>			Corresponds to violcat categories and described in vehicle code manual - ( <a href="http://www.dmv.ca.gov/pubs/vctop/vc/vc.htm">http://www.dmv.ca.gov/pubs/vctop/vc/vc.htm</a> )
PCF Violation Subsection	<b>VIOLSUB</b>			Blank if no subsection.
Hit And Run	<b>HITRUN</b>			F - Felony M - Misdemeanor N - Not Hit and Run
Road Surface	<b>ROADSURF</b>			A - Dry B - Wet C - Snowy or Icy D - Slippery (Muddy, Oily, etc.) - - Not Stated
Road Condition 1	<b>RDCOND1</b>			A - Holes, Deep Ruts B - Loose Material on Roadway C - Obstruction on Roadway D - Construction or Repair Zone E - Reduced Roadway Width F - Flooded G - Other H - No Unusual Condition - - Not Stated
Road Condition 2	<b>RDCOND2</b>			same as road condition 1 above
Lighting	<b>LIGHTING</b>			A - Daylight B - Dusk - Dawn C - Dark - Street Lights D - Dark - No Street Lights

				E - Dark - Street Lights Not Functioning - - Not Stated
Control Device	<b>RIGHTWAY</b>			A - Functioning B - Not Functioning C - Obscured D - None - - Not Stated
CHP Road Type	<b>CHPRDTYP</b>			May be blank
Not Private Property	<b>NOTPRIV</b>	indicates whether the collision occurred on private property		Y or blank
Statewide Vehicle Type At Fault	<b>STFAULT</b>	indicates the Statewide Vehicle Type of the party who is at fault		see Party folder Statewide Vehicle Type item
CHP Vehicle Type At Fault	<b>CHPFAULT</b>	indicates the CHP Vehicle Type of the party who is at fault		see Party folder CHP Vehicle Type Towing item
Severe Injury count	<b>SEVINJ</b>	counts victims in the collision with degree of injury of 2		0 to N for each collision
Other Visible Injury count	<b>OTHERINJ</b>	counts victims in the collision with degree of injury of 3		0 to N for each collision
Complaint of Pain Injury count	<b>COP</b>	counts victims in the collision with degree of injury of 4		0 to N for each collision
Pedestrian Killed count	<b>PEDKILL</b>	Counts the victims in the collision with party type of 2 and degree of injury is 1		0 or 1 for each collision
Pedestrian Injured count	<b>PEDINJ</b>	Counts the victims in the collision with party type of 2 and degree of injury is 2, 3, or 4		0 or 1 for each collision
Bicyclist Killed count	<b>BICKILL</b>	Counts the victims in the collision with (((victim role of 2 and statewide vehicle type of 'L') or (victim role of 4)) and (victim degree of injury is 1))		0 to N for each collision
Bicyclist Injured count	<b>BICINJ</b>	Counts the victims in the collision with (((victim role of 2 and statewide vehicle type of 'L') or (victim role of 4)) and (victim degree of injury is 2, 3, or 4))		0 to N for each collision
Motorcyclist Killed count	<b>MCKILL</b>	counts victims in the collision with statewide vehicle type of C or O and degree of injury of 1		0 to N for each collision
Motorcyclist Injured count	<b>MCINJURE</b>	counts victims in the collision with statewide vehicle type of C or O and degree of injury of 2, 3, or 4		0 to N for each collision
Primary Ramp	<b>RAMP1</b>			NO-NB On Ramp, NF-NB Off Ramp, SO-SB On Ramp, SF-SB Off Ramp,



				EO-EB On Ramp, EF-EB Off Ramp, WO-WB On Ramp, WF-WB Off Ramp, To, From, Transition, Collector, Connector & blank
Secondary Ramp	<b>RAMP2</b>			Same as above
City	<b>CITY</b>			
County	<b>COUNTY</b>			
State	<b>STATE</b>			
CHP generated GPS longitude coordinate	<b>CHP_X</b>	The longitude of the GPS position		
CHP generated GPS latitude coordinate	<b>CHP_Y</b>	The latitude of the GPS position		