

## TCRS Extract Data Dictionary

### Modification Log:

Change Owner	Change Date	Document Version	TCRS Release	Changes
		1.0	1.0	Initial version.
Brian Sine	2/6/2007	1.1	6.1.0	Complete re-work of document.
Brian Sine	12/21/2007	1.2	6.4.0	File extension modification
Brian Sine	7/16/2008	1.3	6.5.1	Field name change for record type 2
Brian Sine	8/20/2008	1.4	7.0.0	Added fields to record type 1
Brian Sine	1/15/2009	1.5	7.0.0	Added values for record type 2: cs_ind
Brian Sine	3/6/2009	1.6	7.0.0	Added values for record type 8: trk_type_cd and crgo_body_type_cd
Brian Sine	5/27/2009	1.7	7.0.0	Added field to record type 1: ext_crsh_id
Brian Sine	3/15/2010	1.8	7.0.1	Added values for record type 8: cargo_body_type_cd Modified value for record type 3: grts_damg_loc_cd and frst_impdc_loc_cd
Brian Sine	10/20/2010	1.9	7.2.1	
Brian Sine	1/10/2012	1.10	7.3.1	Modified values for record type 1: st_prop_damg_ind Modified Code Tables tab: Updates to ambl_cdtb, hosp_cdtb, and drug_test_rslt_cdtb
Brian Sine	5/17/2012	1.11	7.3.1	

## **FILE SPECIFICATIONS**

- File Location:** mdot259.mdot.state.mi.us (136.181.134.7). User: crsh\_exts, Password: #####. crsh\_extu, Password: #####.
- File Frequency:** Weeknights
- File Format:** The extracted data will be stored in a Text file with columns delimited by the “~” character. The generated file is converted from an ASCII8 to an ASCII7 format and is compressed to facilitate faster data downloads. This means that if the data needs to be imported into another environment (non-ASCII7), for example UNIX, the file will need to be converted to remove any character set uniqueness. If importing via FTP, transfer the compressed file using binary mode.
- File Naming Convention:** t\_XXXXXXX\_YYMMDD.txt.gz where t is the type of file (S for sanitized or U for un-sanitized), XXXXXX is a unique name assigned by the Crash system administrator, and YYMMDD is the date).

### **Data Flat File Notes**

- Data will be placed in a given field, when values exist. Exceptions to these are recorded within the Sanitized/Unsanitized requirements.
- All numeric values defined as having decimal points (6, 3) will have the decimal point included. Negative values will contain a ‘-’ sign at the front of the numeric value. Values less than zero (only having a decimal portion), will not have a zero in the ‘ones’ position to the left of the decimal. Examples of numeric data values:
  - 23** – no decimals
  - 4.25** – decimal exists
  - .25** – value less than zero but not negative
  - 44.826** – value is negative

Note: The definition of ‘6, 3’ signifies the value to be 6 digits with three of those digits to the right of the decimal point. When this field contains all digits, the value present on the file is of the form ‘999.999’ or ‘-999.999’.
- All date fields are formatted YYYYMMDD.
- All year fields are formatted YYYY.
- Record types for which no data exists will not be created. For example: if a unit number is not a truck, no commercial vehicle record will be created,



TCRS\_code\_tables.  
xls

Record Type 1		CRASH		
Column Name	Length	Possible Values	Definitions	Not Provided Default
rec_type	Number (1)	1	Crash level record	
crsh_id	Number (7)		The unique ID number assigned to each crash by TCRS	
key3	Number (8)	Null		
key4	Number (8)	Null		
date_val	Date		The date in which the crash occurred	
day_of_week	Number (1)	1   Sunday 2   Monday 3   Tuesday 4   Wednesday 5   Thursday 6   Friday 7   Saturday	The day of the week on which the crash occurred	
hldy_ind	Number (1)	0   No 1   Yes Null   Not Entered		
milt_time	Character (4)		The time (military time format), at which the crash occurred	
ori	Character (7)	See Code Tables sheet	The identification code for the agency that policed the crash (the originating agency)	
case_num	Character (10)		The policing agency's identification number for the crash	
fatl_crsh_ind	Number (1)	0   No 1   Yes	An indicator of whether or not the crash was classified as a fatal crash (a crash that resulted in at least one fatality)	
injury_crsh_ind	Number (1)	0   No 1   Yes	An indicator of whether the crash was classified as an injury crash (a crash that resulted in at least one injury, but no fatalities)	
prop_damg_crsh_ind	Number (1)	0   No 1   Yes	An indicator of whether or not the crash was classified as a property-damage-only crash (a crash that resulted in no injuries or fatalities)	
num_fatl	Number (3)		The number of people killed in the crash	
num_injury	Number (3)		The number of people injured in the crash	
num_injury_a	Number (3)		The number of people who sustained an A-level (incapacitating) injury as a result of the crash	
num_injury_b	Number (3)		The number of people who sustained an B-level (non-incapacitating) injury as a result of the crash	
num_injury_c	Number (3)		The number of people who sustained an C-level (possible) injury as a result of the crash	
tot_occ	Number (3)		The total number of occupants in all of the units involved in the crash	
cpilt_dspn	Number (1)	1   Open 2   Closed Null   Not Entered	An indicator of the status of the crash investigation at the time the crash report was filed	
num_unit	Number (2)		The number of units (motor vehicles, bicycles, pedestrians, and trains) involved in the crash. The number of units is always between 1 and 9	

Record Type 1		CRASH			
Column Name	Length	Possible Values		Definitions	Not Provided Default
crsh_type_cd	Number (2)	1	Single Motor Vehicle	The type of crash	
		2	Head On		
		3	Head On-Left Turn		
		4	Angle		
		5	Rear End		
		6	Rear End-Left Turn		
		7	Rear End-Right Turn		
		8	Sideswipe-Same		
		9	Sideswipe-Opposite		
		10	Other/Unknown		
		Null	Not entered		
mdot_crsh_type_cd	Number (2)	0	ERROR	The type of crash, as defined by the Michigan Department of Transportation (MDOT)	
		0	MSC-MLT		
		0	MSC-SNG		
		1	OTURN		
		2	TRAIN		
		3	PKD-V		
		4	BCKNG		
		5	PRKNG		
		6	PED		
		7	FXOBJ		
		8	O-OBJ		
		9	ANIML		
		10	BIKE		
		11	HD-ON		
		12	AN-ST		
		13	RE-ST		
		14	AN-TN		
		15	SS-SM		
		16	RE-LT		
		17	RE-RT		
		18	OT-DR		
		19	AN-DR		
		20	RE-DR		
		21	SS-OP		
		22	HD-LT		
		23	DU-LT		
		24	DU-RT		
		NULL	Not entered		
spcl_crcm_none	Number (1)	0	No	An indicator of whether the crash was coded as involving no special circumstances (i.e., deer, school bus, hit and run, or fleeing police)	
		1	Yes		
		Null	Not Entered		

Record Type 1		CRASH			
Column Name	Length	Possible Values		Definitions	Not Provided Default
spcl_crcm_deer	Number (1)	0 1 Null	No Yes Not Entered	An indicator of whether a deer was involved or associated with the crash	
spcl_crcm_schl	Number (1)	0 1 Null	No Yes Not Entered	An indicator of whether a school bus was involved or associated with the crash	
spcl_crcm_htrn	Number (1)	0 1 Null	No Yes Not Entered	An indicator of whether a hit-and-run was involved or associated with the crash	
spcl_crcm_flee	Number (1)	0 1 Null	No Yes Not Entered	An indicator of whether fleeing police was involved or associated with the crash	
spcl_stdy_lcl	Number (1)	0 1 Null	No Yes Not Entered	An indicator of whether the crash was included in a special local crash study.	
spcl_stdy_st	Number (1)	0 1 Null	No Yes Not Entered	An indicator of whether the crash was included in a special state crash study.	
wthr_cd	Number (1)	1 2 3 4 5 6 7 8 Null	Clear Cloudy Fog/Smoke Rain Snow/Blowing Snow Severe Wind Sleet/Hail Other/Unknown Not Entered	The weather conditions at the time of the crash	
lit_cd	Number (1)	1 2 3 4 5 6 Null	Daylight Dawn Dusk Dark-Lighted Dark-Unlighted Other Unknown Not Entered	The lighting conditions at the time of the crash	
non_trfc_crsh_ind	Number (1)	0 1 Null	No Yes Not Entered	An indicator of whether or not the crash occurred in a non-traffic area	
trfc_ctrl_cd	Number (1)	1 2 3 4 Null	Signal Stop sign Yield sign None Not Entered	The traffic control device present at the site of the crash	

Record Type 1		<b>CRASH</b>			
<u>Column Name</u>	<u>Length</u>	<u>Possible Values</u>		<u>Definitions</u>	<u>Not Provided Default</u>
cnst_type_cd	Number (2)	1	Construction/Maintenance	If the crash occurred in a construction zone, this variable indicates the type of work being performed at the site of the crash	
		2	Utility		
		Null	Not Entered		
cnst_lane_clsd_ind	Number (1)	0	No	If the crash occurred in a construction zone, this variable indicates whether a lane was closed due to construction at the time of the crash	
		1	Yes		
		Null	Not Entered		
cnst_act_cd	Number (1)	1	On Road	If the crash occurred in a construction zone, this variable indicates whether construction activity was taking place at the time of the crash	
		2	Off Road		
		3	No Activity		
		Null	Not Entered		
rd_rlt_n_cd	Number (1)	1	On Road	The relationship of the crash to the roadway	
		2	Median		
		3	Shoulder		
		4	Outside of shoulder/curb		
		5	Gore		
		6	Other/unknown		
		Null	Not Entered		
rdwy_area_cd	Number (2)	1	FRWY Enter/exit ramp	The type of area in which the crash occurred	
		2	FRWY Median crossing		
		3	FRWY Transition area		
		4	FRWY Rest area		
		5	FRWY Scale/weigh station		
		6	All other freeway areas		
		7	NON-FRWY in Intersection		
		8	Intersection Driveway		
		9	Intersection related-othr		
		10	NON-FRWY Straight roadway		
		11	NON-FRWY Curved roadway		
		12	NON-FRWY Driveway		
		13	NON-FRWY Parking		
		14	NON-FRWY Transition area		
		15	NON-FRWY Median		
		16	NON-FRWY Railroad		
		17	NON-FRWY Rest area		
		18	Scale/weigh station		
		19	Non-traffic area		
		20	Other		
		21	Unknown		
		Null	Not Entered		

Record Type 1		CRASH			
Column Name	Length	Possible Values		Definitions	Not Provided Default
mdot_area_type_cd	Number (1)	1	Interchange	The type of area in which the crash occurred, as defined by MDOT	
		2	Intersection		
		3	Mid-Block		
		4	Non-Traffic		
		Null	Not entered		
rd_cond_cd	Number (1)	1	Dry	The road conditions at the time of the crash.	
		2	Wet		
		3	Icy		
		4	Snowy		
		5	Muddy		
		6	Slushy		
		7	Debris		
		8	Other/Unknown		
		Null	Not Entered		
num_lns	Number (2)			The total number of lanes of the street at the site of the crash, including continuous turn lanes (excluding flare, temporary or parking lanes)	
spd_limt	Number (2)			The speed limit on the primary street at the site of the crash	
post_spd_ind	Number (1)	0	No	An indicator of whether the speed limit for the primary street was posted	
		1	Yes		
		Null	Not Entered		
scne_invg_ind	Number (1)	0	No	An indicator of whether t the crash was investigated at the scene	
		1	Yes		
		Null	Not Entered		
alch_invl_ind	Number (1)	0	No	An indicator of whether the crash involved alcohol (at least one motor vehicle operator, bicyclist, pedestrian, or train engineer had been drinking)	
		1	Yes		
		Null	Not Entered		
drug_invl_ind	Number (1)	0	No	An indicator of whether the crash involved alcohol (at least one motor vehicle operator, bicyclist, pedestrian, or train engineer were under drug influence).	
		1	Yes		
		Null	Not Entered		
trk_bus_invl_ind	Number (1)	0	No	An indicator of whether the crash involved at least one commercial vehicle or bus	
		1	Yes		
emg_vehc_invl_ind	Number (1)	0	No	An indicator of whether the crash involved at least one emergency vehicle	
		1	Yes		
orv_invl_ind	Number (1)	0	No	An indicator of whether the crash involved at least one off road vehicle	
		1	Yes		
snwm_invl_ind	Number (1)	0	No	An indicator of whether the crash involved at least one snowmobile	
		1	Yes		
ped_invl_ind	Number (1)	0	No	An indicator of whether the crash involved at least one pedestrian	
		1	Yes		
bcyl_invl_ind	Number (1)	0	No	An indicator of whether the crash involved at least one bicyclist	
		1	Yes		



Record Type 1		CRASH			
Column Name	Length	Possible Values		Definitions	Not Provided Default
femq_invl_ind	Number (1)	0	No	An indicator of whether the crash involved at least one farm vehicle	
mycy_invl_ind	Number (1)	1	Yes		
trn_invl_ind	Number (1)	0	No	An indicator of whether the crash involved at least one train	
st_prop_damg_ind	Number (1)	1	Yes		
		2	Potential	An indicator of whether the crash involved a piece of property that was owned by the State of Michigan	
crsh_src_cd	Character (1)	P	Paper	Indicates the source that a crash data comes from (Example 9-old migrated data from the mainframe, P = the paper UD-10, etc)	
		A	VisionAir		
		C	CLEMIS		
		D	IDNetworks		
		I	iyeTek		
		L	New World Systems		
		S	Sungard OSSI		
		V	Visual Statement		
		9	Migrated Data		
mtr_vhcs_invl	Number (3)			The number of motor vehicles involved in the crash	
crsh_updt_date	Date			The date the crash record was created/updated in TCRS	
serl_num	Character (7)			The serial number printed on the UD-10 crash form	
grts_svtv_cd	Number (1)	1	Fatal injury (K)	The greatest degree of injury suffered by an involved party as a result of the crash	
		2	Incapacitating injury (A)		
		3	Non-incapacitating injury (B)		
		4	Possible injury (C)		
		5	No injury (O)		
		Null	Not Entered		
lane_dpvt_cd	Number (2)	0	None	The type of lane departure, if the crash was determined to satisfy the lane departure criteria.	
		1	Single vehicle		
		2	Multi vehc. opposite drtn		
		3	Parked vehicle		
intr_invl_ind	Number (1)	0	No	An indicator of whether the crash occurred within intersection, or driveway related (within 150 feet of nearest edge of intersection), or intersection related-other	
		1	Yes		
yung_driv_cd	Number (2)	0	None	A code describing whether the crash involved at least one driver aged 24 or less	
		15	Driver involved age 15		
		16	Driver involved age 16		
		17	Driver involved age 17		
		20	Driver involved between age 18 - 20		
		24	Driver involved between age 21 - 24		

Record Type 1		<u>CRASH</u>		
<u>Column Name</u>	<u>Length</u>	<u>Possible Values</u>	<u>Definitions</u>	<u>Not Provided Default</u>
eldr_driv_cd	Number (2)	0   None 64   Driver involved between age 60 - 64 74   Driver involved between age 65 - 74 84   Driver involved between age 75 - 84 85   Driver involved age 85 or greater	A code describing whether the crash involved at least one driver aged 60 or more	
ext_crsh_id	Character (7)		An ID number assigned to each crash by an electronic data vendor. This ID number is used, in conjunction, with ORI and crsh_src_cd to establish a unique identifier for a crash submitted by electronic vendors.	

Record Type 2		LOCATION	
Column Name	Length	Possible Values	Definitions
rec_type	Number (1)	2	Crash location record
crsh_id	Number (7)		The unique ID number assigned to each crash by TCRS
key3	Number (8)	Null	
key4	Number (8)	Null	
<a href="#">cnty_cd</a>	Number (2)	See Code Tables sheet	The TCRS (Traffic Crash Location System) code for the county in which the crash occurred
mdot_reg_n_cd	Number (2)	0   Statewide Multi-Region 1   Superior 2   North 3   Grand 4   Bay 5   Southwest 6   University 7   Metro	The MDOT region in which the crash occurred
<a href="#">city_twp_cd</a>	Number (2)	See Code Tables sheet	The TCRS (Traffic Crash Location System) code for the community in which the crash occurred
prmy_prx	Character (2)	N, S, E, W, NE, NW, SE, SW	The directional prefix (such as E, N, NE, etc.) for the primary street - must be officially part of the road name
prmy_sret	Character (30)		The name of the primary street
prmy_type	Character (4)		The description assigned to the primary road (Ave, Hwy, Ln, St, etc)
prmy_sufx	Character (2)	N, S, E, W, NE, NW, SE, SW	The directional suffix (such as E, N, NE, etc.) for the primary street - must be officially part of the road name
prmy_div_hwy	Character (2)	N, S, E, W, NE, NW, SE, SW	The direction of travel on the primary street, if the primary street is a divided highway
crnt_dtnc	Number (5)		The distance (in feet) from the crash location to the nearest intersecting street
orig_drtn_cd	Character (2)	N, S, E, W, NE, NW, SE, SW BR   Beginning Ramp ER   Ending Ramp X   At Intersection	The direction of the crash from the intersecting street that the officer used as a location reference
intr_pfx	Character (2)	N, S, E, W, NE, NW, SE, SW	The directional prefix (such as E, N, NE, etc.) for the intersecting street - must be officially part of the road name
intr_sret	Character (30)		The name of the intersecting street
intr_type	Character (4)		The description assigned to the intersecting road (Ave, Hwy, Ln, St, etc)
intr_sufx	Character (2)	N, S, E, W, NE, NW, SE, SW	The directional suffix (such as E, N, NE, etc.) for the intersecting street - must be officially part of the road name
intr_div_hwy	Character (2)	N, S, E, W, NE, NW, SE, SW	The direction of travel on the intersecting street, if it is a divided highway

Record Type 2		LOCATION		
Column Name	Length	Possible Values		Definitions
trwy_cd	Number (2)	1	Not physically divided	The type of directional road on which the crash occurred
		2	Divided Hwy wo/barrier	
		3	Divided Hwy with barrier	
		4	One-way traffic	
		5	Non-traffic	
		Null	Not Entered	
acs_ctrl_cd	Number (2)	1	No access control, unlimited access	The amount of access control on the road on which the crash occurred
		2	Full access control, ramp entry and exit only	
		3	Other, partial access control	
		4	Non-traffic	
crnt_frwk_vers	Character (3)			The Michigan Geographic Framework (MGF) version corresponding to the crash's originally assigned PR numbers and milepoints
crnt_prmy_pr	Number (7)			The assigned MGF identification number for the primary street
crnt_prmy_mp	Number (6, 3)			The assigned MGF milepoint on the primary street at the point where the crash occurred
crnt_intr_pr	Number (7)			The assigned MGF identification number for the intersecting street that the officer used as a location reference
crnt_intr_mp	Number (6, 3)			The assigned MGF milepoint on the intersecting reference street, at the point where that street intersects the primary street
crnt_hwy_cs	Character (5)			The MDOT control-section number associated with the primary street
crnt_cs_mp	Number (6, 3)			The MDOT control-section milepoint at the location where the crash occurred
crnt_x_cord	Number (15, 13)			The longitude coordinate corresponding to the crash location
crnt_y_cord	Number (15, 13)			The latitude coordinate corresponding to the crash location
intr_id	Number (8)			The assigned MGF identification number for the intersection of the primary street and intersecting street
cs_ind	Number (1)	0	No trunkline involved	An indicator of whether or not the crash occurred on a section of road controlled by MDOT, and if so, the type of control section
		1	Main line forward direction	
		2	Main line reverse direction	
		3	Forward side on collector, distributors, and service drives	
		4	Reverse side on collector, distributors, and service drives	
		5	Ramps and other trunkline features	
		Null	Not Entered	

Record Type 2		LOCATION	
Column Name	Length	Possible Values	Definitions
hwy_clss_cd	Number (1)	1   Interstate 2   US Route 3   M Route 4   Interstate Business loop 5   US Business Route 6   M Business Route 7   Connector 8   Service Drive 9   Road, City str or Unknown Null   Not Entered	The highway classification of the primary stree
hwy_num	Number (3)		The route number associated with the primary street
loc_flag_cd	Number (1)	0   New record, not located 1   Successfully located 2   Could not locate via TCLS 4   Could not locate manually 5   Non-Traffic Crash 6   Manually updated, resend 7   Obsolete: GIS located 9   Missing required data	The status of the crash in the TCLS location process
rec_locd_date	Date		The date the crash was run through the TCLS location process
loc_err_cd	Number (2)	0   No error, crash located 1   Invalid county 2   Invalid city/twp 3   Primary street not found 4   Intersect str not found 5   Streets do not intersect 6   Loctn match multiple site 7   Dirctn to/from str invald 8   Distnc to/from str invald 9   Invalid direction on ramp 11   Crash not on ramp 12   Long/Latitude CGI error 13   HTTP Service error 14   TCLS updated County 15   TCLS updated City/Twsp 16   Negative Milepoint(s) 18   No PR for City/TWP 23   PR w/no segment defined 24   Missing Intersection Null   Not Entered	The reason the crash could not be successfully located in the TCLS location process
loc_updt_date	Date		The date the crash location record was created/updated in TCRS

Record Type 2			
LOCATION			
<u>Column Name</u>	<u>Length</u>	<u>Possible Values</u>	<u>Definitions</u>
serl_num	Character (7)		The serial number printed on the UD-10 crash form

[illegible]

[illegible]



[illegible]

Not Provided Default					

Record Type 3			UNIT		
Column Name	Length	Possible Values	Definitions	Not Provided	Default
rec_type	Number (1)	3	Unit Level Record		
crsh_id	Number (7)		The unique ID number assigned to each crash by TCRS		
unit_num	Number (8)		The identification number assigned to the traffic unit		
key4	Number (8)	Null			
unit_type_cd	Character (1)	M   Motor Vehicle B   Bicyclist P   Pedestrian E   Engineer Null   Not Entered	Indicates the type of unit (Motor Vehicle, Ped, Bicyclist, Engineer)		
drtn_cd	Character (2)	N, S, E, W, NE, NW, SE, SW	The direction in which the unit was traveling before the crash occurred		
vehc_regr_num	Character (11)		The vehicle's registration number		
<a href="#">vehc_reg_st</a>	Character (2)		The state the vehicle is registered		
vin	Character (17)		Unique number assigned the the vehicle by the manufacturer		
vehc_yr	Number (4)		The vehicle's model year		
vehc_make	Character (15)		The vehicle's manufacturer		
grts_damg_loc_cd	Number (2)	0   Top (Roof) 1   Front, Center 2   Front, Right 3   Side, Right 4   Rear, Right 5   Rear, Center 6   Rear, Left 7   Side, Left 8   Front, Left 9   Undercarriage 10   Multiple 11   Other/Unknown 12   None Null   Not Entered	The area of the vehicle that received the most damage		

Record Type 3		<u>UNIT</u>			
<u>Column Name</u>	<u>Length</u>	<u>Possible Values</u>		<u>Definitions</u>	<u>Not Provided Default</u>
frst_impc_loc_cd	Number (2)	0	Top (Roof)	The area of the vehicle that received the first impact	
		1	Front, Center		
		2	Front, Right		
		3	Side, Right		
		4	Rear, Right		
		5	Rear, Center		
		6	Rear, Left		
		7	Side, Left		
		8	Front, Left		
		9	Undercarriage		
		10	Multiple		
		11	Other/Unknown		
		12	None		
		Null	Not Entered		
damg_exnt	Number (1)	1 (Least Severe) thru 7 (Most Severe)		Number indicating how severely the vehicle was damaged in the crash in the officers opinion with 0 being no damage and 9 being the greatest amount of damage	
vehc_drvb_ind	Number (1)	0	No	An indicator of whether or not the vehicle was able to be driven away after the crash	
		1	Yes		
		Null	Not Entered		
tot_occp	Number (2)			The total number of occupants in the vehicle	
vehc_type_cd	Number (2)	1	Passenger Car	The type of vehicle in the crash	
		2	Van, motor home		
		3	Pickup truck		
		4	Small truck		
		5	Cycle		
		6	Moped		
		7	Go-cart		
		8	Snowmobile		
		9	ORV (Off road vehicle)		
		10	Other		
		11	Truck/Bus		
		Null	Not Entered		
spcl_vehc_cd	Number (1)	0	Not applicable	An indicator of whether a special vehicle was involved in the crash	
		1	Police vehicle		
		2	Fire vehicle		
		3	Bus		
		4	Ambulance		
		5	Farm equipment		
		6	Construction equipment		
		Null	Not Entered		

Record Type 3				UNIT		
Column Name	Length	Possible Values		Definitions	Not Provided Default	
prmy_vehc_use_cd	Number (2)	1	Private	The primary use of the vehicle at the time of the crash		
		2	Commercial (business)			
		3	In pursuit/On emergency			
		4	Farm use			
		5	School/education			
		6	Club/Church			
		7	Military Vehicle			
		8	Other Government Use			
		9	Utility			
		10	Road Construction			
		11	Other			
		Null	Not Entered			
vehc_dfct_cd	Number (1)	1	Brakes	The defective vehicle part which was a contributing cause of the crash		
		2	Lights/reflectors			
		3	Steering			
		4	Tires/Wheels			
		5	Windows			
		6	Other			
		Null	Not Entered			
priv_trlr_type_cd	Number (1)	1	Utility	The type of trailer being towed by the vehicle at the time of the crash		
		2	Travel trailer			
		3	Boat trailer			
		4	Farm equipment			
		5	Towed Auto			
		6	Recreational double			
		7	Other			
		Null	Not Entered			
<a href="#">prc_actn_cd</a>	Number (2)	See Code Tables sheet		The action that occurred prior to the first unstablizing event		
num_fatl	Number (3)			The number of people associated with the unit that were killed as a result of the crash		
num_injy	Number (3)			The number of people associated with the unit that were injured as a result of the crash		
serl_num	Character (7)			The serial number printed on the UD-10 crash form		

Record Type 4		INVOLVED PARTY			
Column Name	Length	Possible Values		Definitions	Not Provided Default
rec_type	Number (1)	4		Involved Party Record	
crsh_id	Number (7)			The unique ID number assigned to each crash by TCRS	
unit_num	Number (8)			The identification number assigned to the traffic unit	
invl_prty_key	Number (8)			The unique identification number assigned to the involved party	
prty_type	Character (1)	D	Driver	The type of involved party	
		I	Injured Passenger		
		U	Uninjured Passenger		
		P	Pedestrian		
		B	Bicyclist		
		E	Engineer		
		O	Owner		
		W	Witness		
		Null	Not Entered		
prty_frst_name	Character (20)			The first name of the involved party	
prty_mid_name	Character (20)			The middle name of the involved party	
prty_last_name	Character (20)			The last name of the involved party	
prty_brth_date	Date			The date on which the involved party was born	
prty_age	Number (3)			The involved party's age at the time of the crash	
pos_cd	Character (2)	01	Left-side front	A variable which indicates where the involved party was positioned at the time of the crash	
		02	Middle front		
		03	Right-side front		
		04	Left-side middle		
		05	Middle row middle		
		06	Right-side middle		
		07	Left-side back		
		08	Middle back		
		09	Right-side back		
		10	Sleeper section		
		11	Other enclosed passenger		
		12	Other unenclosed passenger		
		13	Riding in/on trailing unit		
		14	Riding on veh exterior		
		15	Unknown		
		B	Bicyclist		
		P	Pedestrian		
		E	Engineer		
		Null	Not Entered		

Record Type 4		INVOLVED PARTY				
Column Name	Length	Possible Values		Definitions	Not Provided Default	
rstr_use	Number (2)	1	No belts available	A variable which indicates the restraint usage of the involved party at the time of the crash		
		2	Shoulder belt only used			
		3	Lap belt only			
		4	Shoulder and lap belt			
		5	No belts used			
		6	Child restraint used			
		7	Child restraint not used			
		8	Restraint failure			
		9	Restraint use unknown			
		10	Helmet worn			
		11	Helmet not worn			
		12	Helmet use unknown			
		Null	Not Entered			
gnrdr_cd	Character (1)	M	Male	The involved party's gender		
		F	Female			
		Null	Not Entered			
injury_svtty_cd	Number (1)	1	Fatal injury (K)	The degree of injury suffered by the involved party as a result of the crash		
		2	Incapacitating injury (A)			
		3	Non-incapacitating injury (B)			
		4	Possible injury (C)			
		5	No injury (O)			
		Null	Not Entered			
ab_depl_cd	Number (1)	1	Airbag Deployed	An indicator of whether or not the involved party's airbag deployed in the crash		
		2	Airbag Not Deployed			
		3	Not Equipped			
		Null	Not Entered			
prty_ejct_ind	Number (1)	0	No	An indicator of whether or not the involved party was partially or completely ejected from the vehicle during the crash		
		1	Yes			
		Null	Not Entered			
prty_trap_ind	Number (1)	0	No	An indicator of whether the involved party was trapped in the vehicle after the crash occurred		
		1	Yes			
		Null	Not Entered			
<a href="#">ambulance_cd</a>	Character (6)	See Code Tables sheet		The identification code for the agency that transported the involved party by ambulance		
<a href="#">hospital_cd</a>	Character (6)	See Code Tables sheet		The identification code for the hospital to which the involved party was transported		
driv_licn_num	Character (23)			The involved party's driver's license number		
<a href="#">driv_licn_st</a>	Character (2)	See Code Tables sheet		The involved party's driver's license state		

Record Type 4		INVOLVED PARTY				
Column Name	Length	Possible Values		Definitions	Not Provided Default	
hzrd_actn_cd	Number (2)	0	None	The involved party's hazardous action which contributed to the crash		
		1	Speed too fast			
		2	Speed too slow			
		3	Failed to yield			
		4	Disregard traffic control			
		5	Drove wrong way			
		6	Drove left of center			
		7	Improper passing			
		8	Improper lane use			
		9	Improper turn			
		10	Improper/no signal			
		11	Improper backing			
		12	Unable to stop			
		13	Other			
		14	Unknown			
		15	Reckless driving			
		16	Careless/negligent			
		Null	Not Entered			
alch_susp_ind	Number (1)	0	No	An indicator of whether (in the opinion of the officer) the involved party had been drinking before the crash		
		1	Yes			
		Null	Not Entered			
alch_test_rfsd_ind	Number (1)	0	No	An indicator of whether the involved party refused to take a sobriety test after the crash		
		1	Yes			
		Null	Not Entered			
alch_test_not_ofrd	Number (1)	0	No	An indicator of whether the involved party was NOT offered an alcohol test		
		1	Yes			
		Null	Not Entered			
alch_feld_test_ind	Number (1)	0	No	An indicator of whether the involved party was given a field sobriety tes		
		1	Yes			
		Null	Not Entered			
alch_pbt_test_ind	Number (1)	0	No	An indicator of whether the involved party was given a PBT test		
		1	Yes			
		Null	Not Entered			
alch_brth_test_ind	Number (1)	0	No	An indicator of whether the involved party was given a breathalyzer test		
		1	Yes			
		Null	Not Entered			
alch_urne_test_ind	Number (1)	0	No	An indicator of whether the involved party was given a urine test to detect the presence of alcohol		
		1	Yes			
		Null	Not Entered			
alch_blod_test_ind	Number (1)	0	No	An indicator of whether the involved party was given a blood test to detect the presence of alcohol		
		1	Yes			
		Null	Not Entered			
alch_test_rslt	Character (3)			The alcohol test results		



Record Type 4		INVOLVED PARTY				
Column Name	Length	Possible Values		Definitions	Not Provided Default	
drug_susp_ind	Number (1)	0 1 Null	No Yes Not Entered	An indicator of whether (in the opinion of the officer) the involved party had been using drugs before the crash		
drug_blood_test_ind	Number (1)	0 1 Null	No Yes Not Entered	An indicator of whether or not the involved party was given a blood test to detect the presence of drugs		
drug_urne_test_ind	Number (1)	0 1 Null	No Yes Not Entered	An indicator of whether or not the involved party was given a urine test to detect the presence of drugs		
drug_test_rslt	Character (3)			The drug test results		
igil_ind	Number (1)	0 1 Null	No Yes Not Entered	An indicator of whether or not the vehicle was equipped with an ignition interlock device		
hzrd_citn_ind	Number (1)	0 1 Null	No Yes Not Entered	An indicator of whether or not the involved party was issued a hazardous citation		
oth_citn_ind	Number (1)	0 1 Null	No Yes Not Entered	An indicator of whether or not the involved party was issued a citation other than hazardous		
serl_num	Character (7)			The serial number printed on the UD-10 crash form		

Record Type 5			<b><u>HARMFUL EVENT</u></b>	
<b><u>Column Name</u></b>	<b><u>Length</u></b>	<b><u>Possible Values</u></b>	<b><u>Definitions</u></b>	<b><u>Not Provided Default</u></b>
rec_type	Number (1)	5	Harmful Event Record	
crsh_id	Number (7)		The unique ID number assigned to each crash by TCRS	
unit_num	Number (8)		The identification number assigned to the traffic unit	
key4	Number (8)			
harm_evnt_id	Number (2)	1 thru 4 Null   Not Entered	An indicator of when in the sequence of crash events that this event took place	
<a href="#">harm_evnt_cd</a>	Number (2)	See Code Tables sheet	The code assigned to The harmful events in a crash	
most_harm_ind	Number (1)	0   No 1   Yes Null   Not Entered	An indicator of what event caused the greatest injury or in absence of injury, what caused the greatest property damage	
serl_num	Character (7)		The serial number printed on the UD-10 crash form	

Record Type 6		DRIVER LICENSE TYPE			
Column Name	Length	Possible Values	Definitions	Not Provided Default	
rec_type	Number (1)	6	Driver's License Record		
crsh_id	Number (7)		The unique ID number assigned to each crash by TCRS		
unit_num	Number (8)		The identification number assigned to the traffic unit		
invl_prty_key	Number (8)		The unique identification number assigned to the involved party		
driv_licn_type_cd	Number (2)	1   Operator 2   Chauffeur 3   Moped 4   Cycle endorsement 5   Farm endorsement 6   Recreation endorsement 7   Hazardous endorsement 8   Liquids endorsement 9   Passenger endorsement 10   Trailers endorsement 11   Tank w/hazard endorsement 12   Bus endorsement Null   Not Entered	The type of license the driver possesses		
serl_num	Character (7)		The serial number printed on the UD-10 crash form		

Record Type 7		DRIVER CONDITION			
Column Name	Length	Possible Values	Definitions	Not Provided Default	
rec_type	Number (1)	7			
crsh_id	Number (7)		The unique ID number assigned to each crash by TCRS		
unit_num	Number (8)		The identification number assigned to the traffic unit		
invl_prty_key	Number (8)		The unique identification number assigned to the involved party		
driv_cond_cd	Number (2)	1   Appeared normal 2   Had been drinking 3   Illegal drug use 4   Sick 5   Fatigue 6   Asleep 7   Medication 8   Driver distracted 9   Driver using cell phone 99   Unknown Null   Not Entered	The condition of the driver just prior to the crash		
serl_num	Character (7)		The serial number printed on the UD-10 crash form		

Record Type 8		COMMERCIAL VEHICLE			
Column Name	Length	Possible Values	Definitions	Not Provided Default	
rec_type	Number (1)	8	Commercial Vehicle Record		
crsh_id	Number (7)		The unique ID number assigned to each crash by TCRS		
unit_num	Number (8)		The identification number assigned to the traffic unit		
key4	Number (8)				
carr_name	Character (120)		The commercial vehicle driver's company name		
carr_sret	Character (50)		The commercial vehicle driver's company street address		
carr_city	Character (25)		The commercial vehicle driver's company city		
carr_st	Character (2)	See Code Tables sheet	The commercial vehicle driver's company state		
carr_zip	Character (10)		The commercial vehicle driver's company zip code		
carr_name_src_cd	Character (1)	1   Papers 2   Vehicle 3   Log Book 4   Driver Null   Not Entered	An indicator of the source the officer used to obtain the carrier's name and address		
iccmc_num	Number (8)		The ICCMC (Interstate Commerce Commission Motor Carrier) identification number for the vehicle		
usdot_num	Character (12)		The USDOT (United States Department of Transportation) identification number for the vehicle		
mpsc_num	Character (12)		The MPSC (Michigan Public Service Commission) identification number for the vehicle		
intr_inta_ind	Character (1)	1   Interstate 2   Intrastate Null   Not Entered	An indicator of whether the vehicle was licensed for interstate or intrastate travel		
gvwr	Number (6)		The vehicle's gross vehicle weight rating		
cdl_grp_cd	Number (1)	1   Group A 2   Group B 3   Group C 4   None 5   Group D Null   Not Entered	An indicator of whether the driver possessed a Type A, Type B, or Type C commercial driver's license		
cdl_exmp_cd	Number (1)	1   Farm 9   Other Null   Not Entered	An indicator of whether or not the driver had any commercial driver's license exemptions		
med_card_ind	Number (1)	0   No 1   Yes Null   Not Entered	An indicator of whether or not the driver possessed a medical card		

Record Type 8		COMMERCIAL VEHICLE			
Column Name	Length	Possible Values		Definitions	Not Provided Default
trk_type_cd	Number (2)	01	AA Grp A vehicle	The type of commercial vehicle	
		02	AH Grp A veh. Hazardous		
		03	AN Grp A veh. Tank		
		04	AP Grp A veh. Passenger		
		05	AT Grp A veh. dbl/trpl		
		06	AX Grp A veh. tank&hazard		
		07	AY Grp A veh. tank&double		
		08	AZ Grp A veh. Hazardous		
		09	AL Grp A veh. hazard tank		
		10	BB Grp B vehicle		
		11	BH Grp B veh. hazard		
		12	BN Grp B veh. tank		
		13	BP Grp B veh. passenger		
		14	BX Grp B veh. tank&hazard		
		15	CH Grp C veh. hazard		
		16	CP Grp C veh. passenger		
		17	CX Grp C veh. tank&hazard		
		18	Other		
		19	AS Grp A veh. bus		
		20	BS Grp B veh. bus		
		21	CS Grp C veh. bus		
		99	Not Reported		
		Null	Not Entered		
frst_unit_axle	Character (2)			The number of axles on the first unit of the commercial vehicle	
scnd_unit_axle	Character (2)			The number of axles on the second unit of the commercial vehicle	
thrd_unit_axle	Character (2)			The number of axles on the third unit of the commercial vehicle	
frth_unit_axle	Character (2)			The number of axles on the fourth unit of the commercial vehicle	

Record Type 8						
COMMERCIAL VEHICLE						
Column Name	Length	Possible Values		Definitions	Not Provided Default	
crgo_body_type_cd	Number (1)	1	Van / Enclosed Box	The body type of the vehicle		
		2	Cargo Tank			
		3	Flatbed			
		4	Dump			
		5	Concrete Mixer			
		6	Auto Transporter			
		7	Garbage / Refuse			
		8	Other			
		9	Grain, Chips, Gravel			
		10	Pole			
		11	Intermodal			
		12	Logging			
		13	Vehicle Towing Vehicle			
		14	Bus (9-15, incl. Driver)			
		15	Bus (> 15, incl. Driver)			
		16	No Cargo Body Type			
		99	Not Reported			
		Null	Not Entered			
hzrd_matl_plrd_ind	Number (1)	0	No	An indicator of whether or not the vehicle had a hazardous material placard displayed at the time of the crash		
		1	Yes			
		Null	Not Entered			
hzrd_matl_spld_ind	Number (1)	0	No	An indicator of whether or not hazardous material spilled or leaked from the vehicle as a result of the crash		
		1	Yes			
		Null	Not Entered			
hzrd_matl_type	Number (4)			The identification number for the type of hazardous material carried by the vehicle		
hzrd_matl_cls	Number (2)			The International Classification number for the hazardous material carried by the vehicle		
cdl_rstr_28_ind	Number (1)	0	No	An indicator of whether or not the driver possessed a type 28 restriction		
		1	Yes			
		Null	Not Entered			
cdl_rstr_29_ind	Number (1)	0	No	An indicator of whether or not the driver possessed a type 29 restriction		
		1	Yes			
		Null	Not Entered			
cdl_rstr_30_ind	Number (1)	0	No	An indicator of whether or not the driver possessed a type 30 restriction		
		1	Yes			
		Null	Not Entered			
cdl_rstr_35_ind	Number (1)	0	No	An indicator of whether or not the driver possessed a type 35 restriction		
		1	Yes			
		Null	Not Entered			
cdl_rstr_36_ind	Number (1)	0	No	An indicator of whether or not the driver possessed a type 36 restriction		
		1	Yes			
		Null	Not Entered			

Record Type 8					
COMMERCIAL VEHICLE					
Column Name	Length	Possible Values	Definitions	Not Provided Default	
trk_updt_date	Date		Not used		
serl_num	Number (2)		The serial number printed on the UD-10 crash form		