TCRS Extract Data Dictionary: Delimited Format

Record Type “1”—Crash

rec_type

A “1” indicating a crash record.

crsh_id

The unique ID number assigned to each crash by TCRS (Michigan’s Traffic Crash Reporting System database).

key3

No data is currently stored in this field.

key4

No data is currently stored in this field.

date_val

The date on which the crash occurred.

day_of_week

The day of the week on which the crash occurred.

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

hldy_ind

No data is currently stored in this field.

milt_time

The time (in military time format) at which the crash occurred. Uncoded/errors = UNK.

ori

The identification code for the agency that policed the crash (the originating agency). See Appendix ??? for code values.

case_num

The policing agency’s identification number for the crash. Uncoded/errors = null.

fatl_crsh_ind

An indicator of whether or not the crash was classified as a fatal crash (a crash that resulted in at least one fatality).

0 No
1 Yes

injy_crsh_ind

An indicator of whether or not the crash was classified as an injury crash (a crash that resulted in at least one injury, but no fatalities).

0 No
1 Yes

prop_damg_crsh_ind

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).

0 No
1 Yes

num_fatl

The number of people killed in the crash.

num_injy

The number of people that sustained non-fatal injuries in the crash.

num_injy_a

The number of people who received an A-level (incapacitating) injury as a result of the crash.

num_injy_b

The number of people who received a B-level (non-incapacitating) injury as a result of the crash.

num_injy_c

The number of people who received a C-level (possible) injury as a result of the crash.

tot_occp

The total number of occupants in all of the units involved in the crash.

cplt_dspn

An indicator of the status of the crash investigation at the time the report was forwarded to the Michigan State Police.

null Uncoded/errors
1 Open
2 Closed

num_unit

The number of units (motor vehicles, bicycles, pedestrians, and trains) involved in the crash.

crsh_type_cd

The type of crash.

null	Uncoded/errors
1	Single vehicle
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-direction
9	Sideswipe/opposite-direction
10	Other/unknown

mdot_crsh_type_cd

The type of crash, as defined by the Michigan Department of Transportation (MDOT).

0	Unknown
1	Overturn
2	Train
3	Parked vehicle
4	Backing
5	Parking
6	Pedestrian
7	Fixed object
8	Other object
9	Animal
10	Bicycle
11	Head-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

spcl_crcm_none

An indicator of whether or not the crash was coded as involving no special circumstances (i.e., deer, school bus, hit and run, or fleeing police).

0	No
1	Yes

spcl_crcm_deer

An indicator of whether or not a deer was involved or associated with the crash.

0 No
1 Yes

spcl_crcm_schl

An indicator of whether or not a school bus was involved or associated with the crash.

0 No
1 Yes

spcl_crcm_htrn

An indicator of whether or not the crash involved a hit-and-run vehicle.

0 No
1 Yes

spcl_crcm_flee

An indicator of whether or not the crash involved a unit that was fleeing police.

0 No
1 Yes

spcl_stdy_lcl

An indicator of whether or not the crash was included in a special local crash study.

0 No
1 Yes

spcl_stdy_st

An indicator of whether or not the crash was included in a special statewide crash study.

0 No
1 Yes

wthr_cd

The weather conditions at the time of the crash..

null Uncoded/errors
1 Clear
2 Cloudy
3 Fog or smoke
4 Rain
5 Snow or blowing snow
6 Severe wind
7 Sleet or hail
8 Other/unknown

lit_cd

The lighting conditions at the time of the crash.

null Uncoded/errors
1 Daylight
2 Dawn
3 Dusk
4 Dark—with street lights on
5 Dark—without street lights on
6 Other/unknown

non_trfc_crsh_ind

An indicator of whether or not the crash occurred in a non-traffic area.

0 No
1 Yes

trfc_ctrl_cd

The traffic control device present at the site of the crash.

null Uncoded/errors
1 Traffic signal
2 Stop sign
3 Yield sign
4 None

cnst_type_cd

If the crash occurred in a construction zone, this variable indicates the type of work being performed at the site of the crash.

null Uncoded/errors
1 Road construction or maintenance
2 Utility work

cnst_lane_clsd_ind

If the crash occurred in a construction zone, this variable indicates whether or not a lane was closed due to construction at the time of the crash.

null Uncoded/errors
0 No (lanes open)
1 Yes (lane closed)

cnst_act_cd

If the crash occurred in a construction zone, this variable indicates whether or not construction activity was taking place at the time of the crash.

null Uncoded/errors
1 Yes—on roadway
2 Yes—off roadway
3 No

rd_rltn_cd

The relationship of the crash to the roadway.

null	Uncoded/errors
1	On roadway
2	In median
3	On shoulder
4	Outside shoulder or curb
5	In gore (area near the point of convergence between a ramp and the mainline highway)
6	Other/unknown

rdwy_area_cd

The type of area in which the crash occurred.

null	Uncoded/errors
0	???
1	Freeway entrance or exit ramp
2	Freeway median crossover
3	Freeway transition area (where the number of lanes increases or decreases)
4	Freeway rest area
5	Freeway weigh station
6	Other freeway area
7	Intersection
8	Driveway within 150 feet of intersection
9	Other area near intersection
10	Straight segment of non-freeway roadway
11	Curved segment of non-freeway roadway
12	Driveway away from intersections
13	Parking area along roadside
14	Non-freeway transition area (where the number of lanes increases or decreases)
15	Non-freeway median crossover
16	Railroad crossing
17	Non-freeway rest area
18	Non-freeway weigh station
19	Non-traffic area
20	Other
21	Unknown

mdot_area_type_cd

The type of area in which the crash occurred, as defined by MDOT.

null	???
1	Interchange
2	Intersection
3	Mid-block
4	Non-traffic area

rd_cond_cd

The road conditions at the time of the crash.

null Uncoded/errors
1 Dry
2 Wet
3 Icy
4 Snowy
5 Muddy
6 Slushy
7 Covered with debris
8 Other/unknown

num_lns

The total number of lanes on the street on which the crash occurred (known as the *primary street*) at the site of the crash, including continuous center left-turn lanes, but not including temporary left-turn lanes, temporary right-turn lanes, or parking lanes. Uncoded/errors = null. Why is the value “53” in here???

spd_limt

The speed limit on the primary street at the site of the crash. Uncoded/errors = null.

post_spd_ind

An indicator of whether or not the speed limit was posted at or near the site of the crash.

null Uncoded/errors
0 No
1 Yes

scne_invg_ind

An indicator of whether or not the crash was investigated at the scene.

null Uncoded/errors
0 No
1 Yes

alch_invl_ind

An indicator of whether or not the crash involved alcohol (at least one motor vehicle operator, bicyclist, pedestrian, or train engineer who had been drinking).

0 No
1 Yes

drug_invl_ind

An indicator of whether or not the crash involved drugs (at least one motor vehicle operator, bicyclist, pedestrian, or train engineer who was under the influence of drugs).

0 No
1 Yes

trk_bus_invl_ind

An indicator of whether or not the crash involved at least one commercial vehicle or bus.

0 No
1 Yes

emg_vehc_invl_ind

An indicator of whether or not the crash involved at least one police, fire, or ambulance vehicle.

0 No
1 Yes

orv_invl_ind

An indicator of whether or not the crash involved at least one off-road vehicle.

0 No
1 Yes

snwm_invl_ind

An indicator of whether or not the crash involved at least one snowmobile.

0 No
1 Yes

ped_invl_ind

An indicator of whether or not the crash involved at least one pedestrian.

0 No
1 Yes

bcyl_invl_ind

An indicator of whether or not the crash involved at least one bicycle.

0 No
1 Yes

fmeq_invl_ind

An indicator of whether or not the crash involved at least one farm vehicle.

0 No
1 Yes

mycy_invl_ind

An indicator of whether or not the crash involved at least one motorcycle.

0 No
1 Yes

trn_invl_ind

An indicator of whether or not the crash involved a train.

0 No
1 Yes

pblc_prop_ind

An indicator of whether or not public property was damaged as a result of the crash.

0 ???
1 ???
2 ???

crsh_src_cd

An indicator of the source of the crash information.

L LEAMS (Law Enforcement Agency Management System electronic form)

P Paper form

motr_vhcs_invl

The number of motor vehicles involved in the crash.

crsh_updt_date

Definition???

serl_num

The serial number printed on the UD-10 crash form.

Record Type “2”—Crash Location

rec_type

A “2” indicating a crash location record.

crsh_id

The unique ID number assigned to each crash by TCRS.

key3

No data is currently stored in this field.

key4

No data is currently stored in this field.

cnty_cd

The MCLS (Michigan Crash Location System) code for the county in which the crash occurred.

1	Alcona	22	Dickinson	43	Lake	64	Oceana
2	Alger	23	Eaton	44	Lapeer	65	Ogemaw
3	Allegan	24	Emmet	45	Leelanau	66	Ontonagon
4	Alpena	25	Genesee	46	Lenawee	67	Osceola
5	Antrim	26	Gladwin	47	Livingston	68	Oscoda
6	Arenac	27	Gogebic	48	Luce	69	Otsego
7	Baraga	28	Grand Traverse	49	Mackinac	70	Ottawa
8	Barry	29	Gratiot	50	Macomb	71	Presque Isle
9	Bay	30	Hillsdale	51	Manistee	72	Roscommon
10	Benzie	31	Houghton	52	Marquette	73	Saginaw
11	Berrien	32	Huron	53	Mason	74	St. Clair
12	Branch	33	Ingham	54	Mecosta	75	St. Joseph
13	Calhoun	34	Ionia	55	Menominee	76	Sanilac
14	Cass	35	Iosco	56	Midland	77	Schoolcraft
15	Charlevoix	36	Iron	57	Missaukee	78	Shiawassee
16	Cheboygan	37	Isabella	58	Monroe	79	Tuscola
17	Chippewa	38	Jackson	59	Montcalm	80	Van Buren
18	Clare	39	Kalamazoo	60	Montmorency	81	Washtenaw
19	Clinton	40	Kalkaska	61	Muskegon	82	Wayne
20	Crawford	41	Kent	62	Newaygo	83	Wexford
21	Delta	42	Keweenaw	63	Oakland		

mdot_regn_cd

The MDOT region in which the crash occurred.

city_twsp_cd

The MCLS code for the community in which the crash occurred. See Appendix ??? for code values.

prmy_pfx

The directional prefix for the street on which the crash occurred—the *primary street* (such as E, N, NE, etc.). Uncoded/errors = null.

prmy_sret

The name of the primary street. Uncoded/errors = null.

prmy_type

The road-name suffix for the primary street (such as Ave, Rd, St, etc.). Uncoded/errors = null.

prmy_sufx

The directional suffix for the primary street (such as E, N, NE, etc.). Uncoded/errors = null.

prmy_div_hwy

The direction of travel on the primary street, if the primary street is a divided highway.

null	Uncoded/errors
E	East
N	North
NE	Northeast
NW	Northwest
S	South
SE	Southeast
SW	Southwest
W	West

Any values other than those listed above should be treated as errors???

orig_dtnc

The distance (in feet) from the crash location to the intersecting street that the officer used as a location reference. Uncoded/errors = null.

orig_drtn_cd

The direction of the crash from the intersecting street that the officer used as a location reference.

null	Uncoded/errors
BR	Beginning of ramp
E	East
ER	End of ramp
N	North
NE	Northeast
NW	Northwest
S	South
SE	Southeast
SW	Southwest
W	West
X	At intersection

Any values other than those listed above should be treated as errors???

intr_pfx

The directional prefix (such as E, N, NE, etc.) for the intersecting street that the police officer recorded as reference point in the crash location description. Uncoded/errors = null.

intr_sret

The name of the intersecting street. Uncoded/errors = null.

intr_type

The road-name suffix for the intersecting street (such as Ave, Rd, St, etc.). Uncoded/errors = null.

intr_sufx

The directional suffix for the intersecting street (such as E, N, NE, etc.). Uncoded/errors = null.

intr_div_hwy

The direction of travel on the intersecting street, if the intersecting street is a divided highway.

null	Uncoded/errors
E	East
N	North
NE	Northeast
NW	Northwest
S	South
SE	Southeast
SW	Southwest
W	West

Any values other than those listed above should be treated as errors???

trwy_cd

The type of road on which the crash occurred.

null	Uncoded/errors
1	Two-way (not physically divided)
2	Divided highway—without traffic barrier
3	Divided highway—with traffic barrier
4	One-way
5	Non-traffic area???

acs_ctrl_cd

The amount of access control on the road on which the crash occurred.

null	Uncoded/errors
1	No access control
2	Full access control (only ramp entry/exit)
3	Partial access control
4	Non-traffic area???

crnt_frwk_vers

The Michigan Geographic Framework (MGF) version corresponding to the crash's assigned PR numbers and milepoints (see below). No location match = null.

crnt_prmy_pr

The current MGF identification number for the primary street (PR stands for *physical route*). No location match = null.

crnt_prmy_mp

The current MGF milepoint on the primary street at the point where the crash occurred. No location match = null.

crnt_intr_pr

The current MGF identification number for the intersecting street that the officer used as a location reference. No location match = null.

crnt_intr_mp

The current MGF milepoint on the intersecting reference street, at the point where that street intersects the primary street. No location match = null.

crnt_hwy_cs

The MDOT control-section number associated with the primary street. No location match = null, no control section = 00000.

crnt_cs_mp

The MDOT control-section milepoint at the location where the crash occurred. No location match = null, no control section = 0 (although 0 is also a valid milepoint value).

crnt_x_cord

The longitude coordinate corresponding to the crash location. No location match = null.

crnt_y_cord

The latitude coordinate corresponding to the crash location. No location match = null.

intr_id

The MGF identification number assigned to the intersection of the primary street and intersecting street. No location match = null, location match with no intersection assignment = 0.

cs_ind

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.

null	No location match
0	Road not under MDOT jurisdiction
1	Undivided roadway or mainline divided roadway, along “forward” coding direction
2	Mainline divided roadway, along “reverse” coding direction
3	Non-mainline divided roadway (such as collector–distributor or service drive), “forward” coding direction
4	Non-mainline divided roadway (such as collector–distributor or service drive), “reverse” coding direction
5	Ramp or other short MDOT-controlled road segment

hwy_clss_cd

The highway classification of the primary street.

null	No location match
1	Interstate (I) route
2	Federal (US) route
3	State (M) route
4	Interstate business route
5	Federal business route
6	State business route
7	Connector
8	Service drive
9	County road, city street, or unknown

hwy_num

The route number associated with the primary street. No location match = null, no route number = 0.

loc_flag_cd

An indicator of the crash's status in the location process.

0	New record, send to Michigan Tech University
1	Crash successfully located
2	Protest crash (not automatically located)
4	Protest crash, not successfully located
5	New record, sent to Michigan Tech University
6	Updated protest crash, resend to Michigan Tech University
7	GIS located
9	Crash not located, missing required data

rec_locd_date

Definition???

loc_err_cd

An indicator of whether or not the crash was successfully located using MCLS, and if not, why not.

null	???
0	Crash successfully located
1	Invalid county given
2	Invalid community given
3	Primary street not found in county and community given
4	Intersecting street not found in county and community given
5	Two given streets do not intersect in county and community given
6	Location description matched more than one specific site in MCLS reference system
7	Direction to or from intersecting street was improper as indexed
8	Distance to or from intersecting street was improper as indexed
9	Direction used on ramp was not BR (beginning of ramp) or ER (end of ramp)
11	Crash not located on ramp
18	No PR in community
23	PR with no segment defined
24	Missing intersection
99	Other

loc_updt_date

Definition???

serl_num

The serial number printed on the UD-10 crash form.

Record Type “3”—Unit

rec_type

A “3” indicating a unit record.

crsh_id

The unique ID number assigned to each crash by TCRS.

unit_num

The identification number assigned to the traffic unit.

key4

No data is currently stored in this field.

unit_type_cd

The type of unit.

B Bicycle
E Train
M Motor vehicle
P Pedestrian

drtn_cd

The direction in which the unit was traveling before the crash occurred.

null Uncoded/errors
E East
N North
S South
W West
NE Northeast
NW Northwest
SE Southeast
SW Southwest

Any values other than those listed above should be treated as errors???

vehc_regr_num

The vehicle registration number. Uncoded/errors = null.

vehc_regr_st

The vehicle registration state. Uncoded/errors = null.

vin

The vehicle identification number. Uncoded/errors = null.

vehc_yr

The vehicle’s model year. Uncoded/errors = null, ???=0.

vehc_make

The vehicle’s manufacturer. Uncoded/errors = null.

grts_damg_loc_cd

The area of the vehicle that received the worst impact.

null	Uncoded/errors
0	Rollover
1	Front, center
2	Front, on right side
3	Right side, center
4	Rear, on right side
5	Rear, center
6	Rear, on left side
7	Left side, center
8	Front, on left side
9	Undercarriage
10	Multiple areas
11	Other/unknown
12	None

frst_impc_loc_cd

The area of the vehicle that received the first impact.

null	Uncoded/errors
0	Rollover
1	Front, center
2	Front, on right side
3	Right side, center
4	Rear, on right side
5	Rear, center
6	Rear, on left side
7	Left side, center
8	Front, on left side
9	Undercarriage
10	Multiple areas
11	Other/unknown
12	None

Any values other than those listed above should be treated as errors???

damg_exnt

A numeric code from 0–7 indicating how severely the vehicle was damaged in the crash, with higher numbers indicating more damage. Uncoded/errors = null. Why is there a value of 8 here???

vehc_drvb_ind

An indicator of whether or not the vehicle was able to be driven away after the crash.

null	Uncoded/errors
0	No
1	Yes

tot_occp

The total number of occupants in the vehicle. Uncoded/errors = null. Different name needed to avoid confusion???

vehc_type_cd

The type of vehicle.

null	Uncoded/errors
1	Passenger car or station wagon
2	Van or motor home
3	Pickup truck
4	Small truck (under 10,000 lbs)
5	Motorcycle
6	Moped
7	Go-cart
8	Snowmobile
9	Off-road vehicle
10	Other
11	Commercial truck or bus

spcl_vehc_cd

An indicator of whether or not the vehicle was one of the types of special vehicles listed below.

null	???
0	???
1	Police
2	Fire
3	Bus
4	Ambulance
5	Farm
6	Construction

prmy_vehc_use_cd

The primary use of the vehicle at the time of the crash.

null	Uncoded/errors
1	Private
2	Commercial
3	Government—in pursuit or on emergency run
4	Farming
5	School or education
6	Club or church
7	Military
8	Government—not in pursuit or on emergency run
9	Utility
10	Road construction or maintenance
11	Other

vehc_dfct_cd

The defective vehicle part which was a contributing cause of the crash.

null	Uncoded/errors
1	Brakes
2	Lights or reflectors
3	Steering
4	Tires or wheels
5	Windows
6	Other

priv_trlr_type_cd

The type of trailer being towed by the vehicle at the time of the crash.

null Uncoded/errors
1 Utility
2 House
3 Boat
4 Farm equipment
5 Towed auto
6 Recreational double
7 Other

prr_actn_cd

The driver's action just prior to the sequence of crash events. Codes 1–23 and 37 apply to motor vehicle operators and bicyclists, while codes 24–34 apply to pedestrians.

null Uncoded/errors
35 Other
36 Unknown

Motor vehicle operator and bicyclist actions

1 Going straight
2 Turning left
3 Turning right
4 Stopped on road
5 In prior crash
6 Changing lanes
7 Backing up
8 Slowing or stopping on road
9 Slowing or stopping off road
10 Starting up on road
11 Starting up off road
12 Entering parking spot
13 Leaving parking spot
14 Entering road
15 Leaving road
16 Making u-turn
17 Overtaking or passing
18 Avoiding object
19 Avoiding pedestrian
20 Avoiding vehicle traveling in same or opposite direction
21 Avoiding vehicle traveling at angle
22 None—vehicle moving without driver
23 None—vehicle parked
37 Avoiding animal

Pedestrian actions

24 Crossing at intersection
25 Crossing away from intersections
26 Getting in or out of vehicle
27 Moving in road in direction of traffic
28 Moving in road against traffic
29 Standing or lying in road
30 Pushing or working on vehicle
31 Doing other work in road
32 Playing in road
33 In road for other reason
34 Not in road

num_fatl

The number of people in the vehicle that were fatally injured as a result of the crash. Different name needed to avoid confusion???

num_injy

The number of people in the vehicle that were injured (non-fatally) as a result of the crash. Different name needed to avoid confusion???

serl_num

The serial number printed on the UD-10 crash form.

Record Type “4”—Party

rec_type

A “4” indicating a party record.

crsh_id

The unique ID number assigned to each crash by TCRS.

unit_num

The identification number assigned to the traffic unit.

invl_prty_key

The unique identification number assigned to the involved party.

prty_type

The type of involved party.

B Bicyclist
D Driver (motor vehicle operator)
E Train engineer
I Injured passenger
O Owner
P Pedestrian
U Uninjured passenger
W Witness

prty_frst_name

The first name of the involved party. Uncoded/errors = null.

prty_mid_name

The middle name of the involved party. Uncoded/errors = null.

prty_last_name

The last name of the involved party. Uncoded/errors = null.

prty_brth_date

The date on which the involved party was born. Not captured for owners and witnesses. Uncoded/errors = null. Why are there some strange values here???

prty_age

The driver’s age at the time of the crash. Not captured for owners and witnesses. Unknown age due to error in birth date = null. Why are there some strange values here???

pos_cd

A variable which indicates where the involved party was positioned at the time of the crash.

null Uncoded/errors (or owner or witness party)
B Bicyclist
E Train engineer
P Pedestrian

Motor vehicle operator or passenger position codes

01 In front-left seat
02 In front-center seat
03 In front-right seat
04 In left seat in second row
05 In center seat in second row
06 In right seat in second row
07 In left seat in third row
08 In center seat in third row
09 In right seat in third row
10 In sleeper compartment
11 In other enclosed area
12 In unenclosed area
13 On or in trailing unit
14 On vehicle exterior
15 Unknown

rstr_use_cd

A variable which indicates the restraint usage of the involved party at the time of the crash. Codes 1–9 apply to drivers and passengers in vehicles that are normally equipped with safety belts, while codes 10–12 apply to drivers and passengers of vehicles that are normally ridden while wearing a helmet.

null Uncoded/errors (or owner or witness party)

Safety-belt-related restraint codes

1 No belts available
2 Shoulder belt used only
3 Lap belt used only
4 Both lap and shoulder belts used
5 No belts used
6 Child restraint used
7 Child restraint not used or unavailable
8 Restraint failed
9 Restraint use unknown

Helmet-related restraint codes

10 Helmet worn
11 Helmet not worn
12 Helmet use unknown

Any values other than those listed above should be treated as errors???

gndr_cd

The involved party's gender.

null Uncoded/errors (or owner or witness party)
F Female
M Male

injy_svty_cd

The degree of injury suffered by the involved party as a result of the crash.

null Uncoded/errors (or owner or witness party)
1 Fatal
2 A-level (incapacitating)
3 B-level (non-incapacitating)
4 C-level (possible)
5 None

ab_depl_cd

An indicator of whether or not the involved party's airbag deployed in the crash.

null Uncoded/errors (or owner or witness party)
1 Deployed
2 Did not deploy
3 Not equipped

prty_ejct_ind

An indicator of whether or not the involved party was partially or completely ejected from the vehicle during the crash.

null ???
0 No
1 Yes

prty_trap_ind

An indicator of whether or not the involved party was trapped in the vehicle after the crash occurred.

null ???
0 No
1 Yes

ambl_cd

The identification code for the agency that transported the involved party by ambulance. See Appendix ??? for code values.

hosp_cd

The identification code for the hospital to which the involved party was transported. See Appendix ??? for code values.

driv_licn_num

The involved party's driver's license number. Uncoded/errors (or passenger, owner, or witness party) = null.

driv_licn_st

The involved party's driver's license state. Uncoded/errors (or passenger, owner, or witness party) = null.

hzrd_actn_cd

The involved party's hazardous action which factored into the crash.

null	Uncoded/errors (or passenger, owner, or witness party)
0	None
1	Drove too fast
2	Drove too slow
3	Failed to yield right-of-way
4	Disregarded traffic control
5	Drove wrong way on one-way street
6	Drove left of centerline
7	Passed improperly
8	Used lane improperly
9	Turned improperly
10	Signaled improperly
11	Backed up improperly
12	Failed to stop in assured clear distance
13	Other
14	Unknown
15	Reckless driving
16	Careless/negligent driving

Any values other than those listed above should be treated as errors???

alch_susp_ind

An indicator of whether or not the involved party had been drinking before the crash.

null	Uncoded/errors (or passenger, owner, or witness party)
0	No
1	Yes

alch_test_rfsd_ind

An indicator of whether or not the involved party refused to take a sobriety test after the crash.

null	???
0	No
1	Yes

alch_test_not_ofrd

An indicator of whether or not the involved party was NOT offered an alcohol test.

null	???
0	No
1	Yes

alch_feld_test_ind

An indicator of whether or not the involved party was given a field sobriety test.

null	???
0	No
1	Yes

alch_pbt_test_ind

An indicator of whether or not the involved party was given a PBT test.

null	???
0	No
1	Yes

alch_brth_test_ind

An indicator of whether or not the involved party was given a breathalyzer test.

null	???
0	No
1	Yes

alch_urne_test_ind

An indicator of whether or not the involved party was given a urine test to detect the presence of alcohol.

null	???
0	No
1	Yes

alch_blod_test_ind

An indicator of whether or not the involved party was given a blood test to detect the presence of alcohol.

null	???
0	No
1	Yes

alch_test_rslt

The alcohol test results. Uncoded/errors (or passenger, owner, or witness party) = null.

drug_susp_ind

An indicator of whether or not the involved party was using drugs before the crash.

null	Uncoded/errors (or passenger, owner, or witness party)
0	No
1	Yes

drug_blod_test_ind

An indicator of whether or not the involved party was given a blood test to detect the presence of drugs.

null	???
0	No
1	Yes

drug_urne_test_ind

An indicator of whether or not the involved party was given a urine test to detect the presence of drugs.

null	???
0	No
1	Yes

drug_test_rslt

The drug test results. Uncoded/errors (or passenger, owner, or witness party) = null.

igil_ind

An indicator of whether or not the vehicle was equipped with an ignition interlock device.

null Uncoded/errors (or passenger, owner, or witness party)
0 No
1 Yes

hzrd_citn_ind

An indicator of whether or not the involved party was issued a hazardous citation.

null ???
0 No
1 Yes

oth_citn_ind

An indicator of whether or not the involved party was issued a citation other than a hazardous citation.

null ???
0 No
1 Yes

serl_num

The serial number printed on the UD-10 crash form.

Record Type “5”—Harmful Event

rec_type

A “5” indicating a harmful event record.

crsh_id

The unique ID number assigned to each crash by TCRS.

unit_num

The identification number assigned to the traffic unit.

key4

No data is currently stored in this field.

harm_evnt_id

An indicator of when in the sequence of crash events that this event took place.

1 First event
2 Second event
3 Third event
4 Fourth event

Any values other than those listed above should be treated as errors???

harm_evnt_cd

The harmful crash event.

Non-collision events

1 Driver lost control of vehicle
2 Vehicle crossed centerline or median
3 Vehicle ran off road to the left
4 Vehicle ran off road to the right
5 Vehicle re-entered road
6 Vehicle overturned
7 Units of vehicle separated
8 Vehicle caught fire or exploded
9 Vehicle became immersed
10 Vehicle jackknifed
11 Vehicle became downhill runaway
12 Vehicle’s cargo shifted or fell off
13 Individual fell off vehicle
14 Other non-collision event

Collisions with non-fixed objects

15 Pedestrian
16 Bicycle
17 Motor vehicle in transport
18 Parked vehicle
19 Train
20 Animal
21 Other non-fixed object

Collisions with fixed objects

22 Bridge pier or abutment
23 Bridge parapet end
24 Bridge railing
25 Guardrail face
26 Guardrail end
27 Median barrier
28 Traffic sign post
29 Traffic signal post
30 Light support
31 Utility pole
32 Other pole
33 Culvert
34 Curb
35 Ditch
36 Embankment
37 Fence
38 Mailbox
39 Tree
40 Railroad crossing signal
41 Building
42 Traffic island
43 Fire hydrant
44 Impact attenuator
45 Other fixed object

Any values other than those listed above should be treated as errors???

most_harm_ind

An indicator of whether or not the crash event was coded as the most harmful event in the sequence.

null	???
0	No
1	Yes

serl_num

The serial number printed on the UD-10 crash form.

Record Type “6”—Driver’s License

rec_type

A “6” indicating a driver’s license record.

crsh_id

The unique ID number assigned to each crash by TCRS.

unit_num

The identification number assigned to the traffic unit.

invl_prty_key

The unique identification number assigned to the involved party.

driv_licn_type_cd

The type of license.

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 Hazardous tank endorsement
12 Bus endorsement

serl_num

The serial number printed on the UD-10 crash form.

Record Type “7”—Driver Condition

rec_type

A “7” indicating a driver condition record.

crsh_id

The unique ID number assigned to each crash by TCRS.

unit_num

The identification number assigned to the traffic unit.

invl_prty_key

The unique identification number assigned to the involved party.

driv_cond_cd

The condition of the driver just prior to the crash.

1 Appeared normal
2 Had been drinking
3 Illegal drug use
4 Sick
5 Fatigued
6 Asleep
7 Medicated
8 Distracted
9 Using cell phone
99 Unknown

serl_num

The serial number printed on the UD-10 crash form.

Record Type “8”—Commercial Vehicle

rec_type

An “8” indicating a commercial vehicle record.

crsh_id

The unique ID number assigned to each crash by TCRS.

unit_num

The identification number assigned to the traffic unit.

key4

No data is currently stored in this field.

carr_name

The commercial vehicle driver’s company name. Uncoded/errors = null.

carr_sret

The commercial vehicle driver’s company street address. Uncoded/errors = null.

carr_city

The commercial vehicle driver’s company city. Uncoded/errors = null.

carr_st

The commercial vehicle driver’s company state. Uncoded/errors = null.

carr_zip

The commercial vehicle driver’s company zip code. Uncoded/errors = null.

carr_name_src_cd

An indicator of the source the officer used to obtain the carrier’s name and address.

null Uncoded/errors
1 Papers
2 Vehicle
3 Log book
4 Driver

iccmc_num

The ICCMC (Interstate Commerce Commission Motor Carrier) identification number for the vehicle. Uncoded/errors = null.

usdot_num

The USDOT (United States Department of Transportation) identification number for the vehicle. Uncoded/errors = null.

mpsc_num

The MPSC (Michigan Public Service Commission) identification number for the vehicle. Uncoded/errors = null.

intr_inta_ind

An indicator of whether the vehicle was licensed for interstate or intrastate travel.

null Uncoded/errors
1 Interstate
2 Intrastate (Michigan only)

gvwr

The vehicle's gross vehicle weight rating. Uncoded/errors = null.

cdl_grp_cd

An indicator of whether or not the driver possessed a Type A, Type B, or Type C commercial driver's license.

null Uncoded/errors
1 Type A
2 Type B
3 Type C
4 None of the above

cdl_exmp_cd

An indicator of whether or not the driver had any commercial driver's license exemptions.

null Uncoded/errors
1 Farm exemption
9 Other exemption

med_card_ind

An indicator of whether or not the driver possessed a medical card.

null Uncoded/errors
0 No
1 Yes

trk_type_cd

The type of commercial vehicle.

null	Uncoded/errors
1	AA (Group A—no endorsement required)
2	AH (Group A—hazardous)
3	AN (Group A—tank)
4	AP (Group A—passenger)
5	AT (Group A—double/triple)
6	AX (Group A—tank and hazardous)
7	AY (Group A—tank and double/triple)
8	AZ (Group A—hazardous and double/triple)
9	AL (Group A—hazardous, tank, and double/triple)
10	BB (Group B—no endorsement required)
11	BH (Group B—hazardous)
12	BN (Group B—tank)
13	BP (Group B—passenger)
14	BX (Group B—tank and hazardous)
15	CH (Group C—hazardous)
16	CP (Group C—passenger)
17	CS (Group C—tank and hazardous)
18	Other
19	AS (Group A—bus)
20	BS (Group B—bus)
21	CS (Group C—bus)

frst_unit_axle

The number of axles on the first unit of the commercial vehicle. This code may also contain the letter *T* if the unit was a truck–tractor unit, or contain the letter *S* if the unit was a semi-trailer. Uncoded/errors = null.

scnd_unit_axle

The number of axles on the second unit of the commercial vehicle. This code may also contain the letter *T* if the unit was a truck–tractor unit, or contain the letter *S* if the unit was a semi-trailer. Uncoded/errors = null.

thrd_unit_axle

The number of axles on the third unit of the commercial vehicle. This code may also contain the letter *T* if the unit was a truck–tractor unit, or contain the letter *S* if the unit was a semi-trailer. Uncoded/errors = null.

frth_unit_axle

The number of axles on the fourth unit of the commercial vehicle. This code may also contain the letter *T* if the unit was a truck–tractor unit, or contain the letter *S* if the unit was a semi-trailer. Uncoded/errors = null.

crgo_body_type_cd

The body type of the vehicle.

null Uncoded/errors
1 Van or enclosed box
2 Cargo tank
3 Flatbed or platform
4 Dump
5 Concrete mixer
6 Auto transporter
7 Garbage or refuse
8 Other/unknown

hzrd_matl_plrd_ind

An indicator of whether or not the vehicle had a hazardous material placard displayed at the time of the crash.

null Uncoded/errors
0 No
1 Yes

Any values other than those listed above should be treated as errors???

hzrd_matl_spll_ind

An indicator of whether or not hazardous material spilled or leaked from the vehicle as a result of the crash.

null Uncoded/errors
0 No
1 Yes

Any values other than those listed above should be treated as errors???

hzrd_matl_type

The identification number for the type of hazardous material carried by the vehicle. Uncoded/errors = null.

hzrd_matl_clss

The International Classification number for the hazardous material carried by the vehicle. Uncoded/errors = null.

cdl_rstr_28_ind

An indicator of whether or not the driver possessed a type 28 restriction.

0 No
1 Yes

cdl_rstr_29_ind

An indicator of whether or not the driver possessed a type 29 restriction.

0 No
1 Yes

cdl_rstr_30_ind

An indicator of whether or not the driver possessed a type 30 restriction.

0 No
1 Yes

cdl_rstr_35_ind

An indicator of whether or not the driver possessed a type 35 restriction.

0 No
1 Yes

cdl_rstr_36_ind

An indicator of whether or not the driver possessed a type 36 restriction.

0 No
1 Yes

trk_updt_date

No data is currently stored in this field.

serl_num

The serial number printed on the UD-10 crash form.

Record Type “9”—Micro File

rec_type

A “9” indicating a micro file record.

crsh_id

The unique ID number assigned to each crash by TCRS.

key3

No data is currently stored in this field.

key4

No data is currently stored in this field.

crsh_img_num

The TCRS image number for the scanned UD-10 form.

serl_num

The serial number printed on the UD-10 crash form.

Comments/Questions About the Delimited Extract

General

- All of the comments and questions in this document resulted from a thorough review of a delimited-format extract of year 2004 crash data forwarded to SEMCOG by UMTRI.
- After the appropriate decisions and fixes are made based on the comments/questions raised about the 2004 data, this document should be expanded to include the previous ten years of crash data that are contained in TCDS.

Type "1" Records

- ORI: The codes for this field should be placed in an appendix and added to this document.
- MDOT_CRSH_TYPE_CD: This field has several possible values (12–24) that require clarification.
- RDWY_AREA_CD: What is the definition of the value "0"?
- MDOT_AREA_TYPE_CD: What is the definition of the "null" value?
- NUM_LNS: This field contains a two-digit value (53). How is this possible? There is only room to code one digit on the UD-10 form.
- ST_PROP_DAMG_IND: This variable was renamed as PBLC_PROP_IND, which is how it is named in the specifications for the fixed-width extract. The latter name makes more sense, since the UD-10 form refers to any public property damaged, not just state property. However, all of the possible values in this field (0, 1, and 2) need to be defined. Furthermore, this same field in the fixed-width extract contains different values—why is there a discrepancy?
- CRSH_UPDT_DATE: What is the exact definition for this field?
- Records with the following CRSH_ID values inexplicably have null values in the fields FATL_CRSH_IND, SPCL_CRCM_NONE, SPCL_CRCM_DEER, SPCL_CRCM_SCHL, SPCL_CRCM_HTRN, SPCL_CRCM_FLEE, SPCL_STDY_LCL, SPCL_STDY_ST, and NON_TRFC_CRSH_IND: 5570844, 5570845, 5570848, and 5570849.

Type "2" Records

- CITY_TWSP_CD: The codes for this field should be placed in an appendix and added to this document.
- PRMY_DIV_HWY, INTR_DIV_HWY, and ORIG_DRTN_CD: These fields all contain a variety of strange, erroneous values. How should these values be handled? Should they be converted to "null" values, or explained with generalized error statements like the ones currently used in their descriptions? And how did these errors get into "bubbled" fields in the first place?
- TRWY_CD and ACS_CTRL_CD: Neither of these fields should have "Non-traffic area" listed as a possible value. This is not an available choice for either variable in the bubbles on the UD-10 form.
- HWY_CLSS_CD: "Service drive" (value "8") should not be listed as a possible value for the year 2004. If/when this document is expanded to include possible values for previous years' data in TCRS, then that value should be included for the years for which it is applicable.
- LOC_FLAG_CD and LOC_ERR_CD: These fields have several possible values that require clarification.
- REC_LOCD_DATE and LOC_UPDT_DATE: What are the exact definitions for these fields?
- Records with the following CRSH_ID values have erroneous values in the fields CRNT_FRWK_VERS, CRNT_X_CORD, and CRNT_Y_CORD: 5528140, 5528149, 5536839, 5541217, 5513748, 5512345, 5571032, and 5560621.
- Records with the following CRSH_ID values have erroneous values in the fields CRNT_PRMY_PR and HWY_CLSS_CD: 5777440, 5785820, 5541217, 5513748, 5536839, 5583551, 5609094, and 5608322.

Type “3” Records

- DRTN_CD: This field contains a variety of strange, erroneous values. How should these values be handled? Should they be converted to “null” values, or explained with a generalized error statement like the one currently used in the description? And how did these errors get into a “bubbled” field in the first place?
- VEHC_YR: What is the definition of the value “0”?
- FRST_IMPC_LOC_CD: This field contains a variety of strange, erroneous values. How should these values be handled? Should they be converted to “null” values, or explained with a generalized error statement like the one currently used in the description?
- DAMG_EXNT: This field shouldn’t contain any numbers greater than 7, but there is a value of “8” in one of the records. Should values greater than 7 be converted to “null” values or explained with a generalized error statement like the one currently used in the description?
- SPCL_VEHC_CD: What are the definitions of the values “null” and “0”?
- TOT_OCCP, NUM_FATL, and NUM_INJY: These fields should be given different names to avoid confusion. This is because fields identified with these same names, but having different definitions, already exist in the Type “1” record layout.

Type “4” Records

- AMBL_CD and HOSP_CD: The codes for these fields should be placed in an appendix and added to this document.
- PRTY_AGE and PRTY_BRTH_DATE: These fields each contain a variety of strange, erroneous values (such as negative age values, or birth dates from the first millennium or from the future). What can be done to correct obviously incorrect values?
- RSTR_USE_CD: This field contains some erroneous values (all “15”). How should these values be handled? Should they be converted to “null” values, or explained with a generalized error statement like the one currently used in the description?
- HZRD_ACTN_CD: This field contains a variety of strange, erroneous values. How should these values be handled? Should they be converted to “null” values, or explained with a generalized error statement like the one currently used in the description?
- The following fields all have the same problem: Several dozen records corresponding to motor vehicle operators, trains, pedestrians, and bicyclists contain “null” values (instead of 0 or 1, which are the only allowable values) in the fields OTH_CITN_ID, HZRD_CITN_ID, PRTY_EJCT_IND, PRTY_TRAP_IND, ALCH_TEST_RFSD_IND, ALCH_TEST_NOT_OFRD, ALCH_FELD_TEST_IND, ALCH_PBT_TEST_IND, ALCH_BRTH_TEST_IND, ALCH_URNE_TEST_IND, ALCH_BLOD_TEST_IND, DRUG_BLOD_TEST_IND, and/or DRUG_URNE_TEST_IND. Now, it is OK for these fields to contain null values for parties such as witnesses, owners, uninjured passengers (and in the case of some of the fields listed, injured passengers as well), but “null” is never an acceptable value for any of the four standard unit types for any of the fields listed above.

Type “5” Records

- HARM_EVNT_ID: This field contains a handful of values other than the allowable 1, 2, 3, or 4. How is this possible?
- HARM_EVNT_CD: This field contains a variety of strange, erroneous values. How should these values be handled? Should they be converted to “null” values, or explained with a generalized error statement like the one currently used in the description?
- MOST_HARM_IND: What is the definition of the “null” value?

Type “6” Records

- No comments.

Type “7” Records

- No comments.

Type “8” Records

- HZRD_MATL_PLRD_IND and HZRD_MATL_SPLL_IND: These fields each contain records with an erroneous value of “2”. How should these values be handled? Should they be converted to “null” values, or explained with generalized error statements like the ones currently used in their descriptions?

Type “9” Records

- No comments.