

# **NCDB2 Data Dictionary**

**NCDB Working Group**

**CCMTA**

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The National Collision Database (NCDB) contains data on all reportable motor vehicle collisions in Canada, as provided annually to Transport Canada by the thirteen provincial and territorial jurisdictions.

In the early 1990s, the NCDB1 Data Dictionary was collectively designed by Transport Canada and the (at the time) twelve jurisdictions through the NCDB Working Group, set up under the Standing Committee on Road Safety Research Policies, of the Canadian Council of Motor Transport Administrators (CCMTA).

Even though jurisdictions may use different motor vehicle collision report forms specific to their own needs, the NCDB1 Data Dictionary was approved as the standard format for providing jurisdictional collision data to Transport Canada's national file.

Between 2003 and 2006, the Data Dictionary was reviewed by a CCMTA working group. Significant changes were made to improve data deficiencies and to address new technologies and emerging issues. The revised Data Dictionary will be known as NCDB2 to distinguish it from its predecessor.

The NCDB2 Data Dictionary describes the data elements and codes that jurisdictions are expected to use when providing annual collision data for the national file. In addition, the Data Dictionary will serve as a basic template to assist jurisdictions in redesigning their own collision reporting systems, whether manual or electronic.

The information for each data element is organized as follows :

**Data Element No.** A unique data reference number.

**Data Element Name** A descriptive name for the data element.

**Variable Name** A short name given to each data element to standardize a naming convention for all data users.

The first letter of the Variable Name indicates the level to which the variable belongs. A name beginning with "C" indicates that the variable is at the Collision level; a "V" denotes the Vehicle level, and a "P" denotes the Person level.

**Format Name** A SAS format (text label) associated with the variable. (This information is for internal use at Transport Canada. The format library can be accessed only by SAS software.)

<b>Position</b>	Position on the "raw" or text data file where the data element is located.
<b>Variable Length</b>	Logical length of the data element, in bytes.
<b>Definition</b>	Definition of the data element.
<b>Source</b>	<p>Indicates how the data element may be obtained. Data elements can be obtained by one or more of the following methods:</p> <ol style="list-style-type: none"><li>1) Collected - collected, determined, or assigned at the collision scene and dependent on the circumstances of the collision;</li><li>2) Derived - generated from computerized collision data;</li><li>3) Linked - generated when collision data is linked to other databases</li></ol> <p>Jurisdictions may choose their own method of obtaining each data element, based on their preferences and available technology.</p>
<b>Utility</b>	Reasons for collecting the data element and potential uses.
<b>Note</b>	Additional information relevant to the understanding or use of a data element.
<b>Code</b>	Permissible values of the variable as specified in NCDB2. Generic codes have been added where applicable.
<b>Description</b>	Detailed description of the value codes, including examples or applicable situations.

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### Contents of Data Dictionary

No.	Data Element Name	Variable Name	Column Position	Length	Format Name	Page
01	Province or Territory	C_PROV	1 - 2	2	\$C_PROV.	DD - 8
02	Police Detachment/Region Code	C_POLC	3 - 14	12	N/A	DD - 9
03	Collision Case Number	C_CASE	15 - 29	15	N/A	DD - 10
04	Scene Attended	C_SCATT	30	1	\$C_SCATT.	DD - 11
05	Year of Collision	C_YEAR	31 - 34	4	N/A	DD - 12
06	Month of Collision	C_MNTH	35 - 36	2	\$C_MNTH.	DD - 13
07	Day of the Month	C_MDAY	37 - 38	2	\$C_MDAY.	DD - 14
08	Day of the Week	C_WDAY	39	1	\$C_WDAY.	DD - 15
09	Time of Collision	C_TIME	40 - 43	4	N/A	DD - 16
10	Hour of Collision	C_HOUR	44 - 45	2	\$C_HOUR.	DD - 17
11	Severity of Collision	C_SEV	46	1	\$C_SEV.	DD - 19
12	Number of Persons Killed	C_DEAD	47 - 48	2	\$C_DEAD.	DD - 20
13	Number of Persons Injured	C_INJ	49 - 50	2	\$C_INJ.	DD - 21
14	Number of Vehicles Involved	C_VEHS	51 - 52	2	\$C_VEHS.	DD - 22
15	Collision Configuration	C_CONF	53 - 54	2	\$C_CONF.	DD - 23
16	Hit and Run	C_HRUN	55	1	\$C_HRUN.	DD - 26
17	Roadway Configuration	C_RCFG	56 - 57	2	\$C_RCFG.	DD - 27
18	Weather Condition	C_WTHR	58	1	\$C_WTHR.	DD - 28
19	Light Condition	C_LITE	59	1	\$C_LITE.	DD - 29
20	Artificial Light Condition	C_ALITE	60	1	\$C_ALITE.	DD - 30
21	Road Classification I	C_RCL1	61	1	\$C_1RCL.	DD - 31

No.	Data Element Name	Variable Name	Column Position	Length	Format Name	Page
22	Road Classification II	C_RCL2	62	1	\$C_2RCL.	DD - 32
23	Road Classification III	C_RCL3	63	1	\$C_3RCL.	DD - 34
24	Road Division	C_RDIV	64	1	\$C_RDIV.	DD - 35
25	Road Material	C_RMTL	65	1	\$C_RMTL.	DD - 36
26	Road Surface	C_RSUR	66 - 67	2	\$C_RSUR.	DD - 37
27	Road Condition	C_RCON	68	1	\$C_RCON.	DD - 39
28	Road Alignment	C_RALN	69	1	\$C_RALN.	DD - 40
29	Road Grade	C_RGRD	70	1	\$C_RGRD.	DD - 41
30	Speed Limit	C_SPED	71	1	\$C_SPED.	DD - 42
31	Work Zone	C_WZON	72	1	\$C_WZON.	DD - 43
32	Workers Present in Work Zone	C_WKRS	73	1	\$C_WKRS.	DD - 44
33	School Purpose-Related	C_SBUS	74	1	\$C_SBUS.	DD - 45
34	National Highway System	C_NHS	75	1	\$C_NHS.	DD - 46
35	Unusual Environmental Circumstances #1	C_ENVC1	76	1	\$C_ENVC.	DD - 47
36	Unusual Environmental Circumstances #2	C_ENVC2	77	1	\$C_ENVC.	DD - 47
37	Vehicle Sequence Number	V_ID	78 - 79	2	N/A	DD - 48
38	Number of Occupants in Vehicle	V_NOCC	80 - 81	2	N/A	DD - 50
39	Direction of Travel	V_DIR	82	1	\$V_DIR.	DD - 51
40	Vehicle Licence Jurisdiction	V_LICJ	83 - 84	2	\$V_LICJ.	DD - 52
41	Vehicle Identification Number	V_VIN	85 - 101	17	N/A	DD - 54
42	Vehicle Model Year	V_YEAR	102 - 105	4	\$V_YEAR.	DD - 55

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43	Vehicle Type	V_TYPE	106 - 107	2	\$V_TYPE	DD - 56
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No.	Data Element Name	Variable Name	Column Position	Length	Format Name	Page
44	Vehicle Cargo Body	V_CRGO	108 - 109	2	\$V_CRGO	DD - 59
45	Trailer Type	V_TRLR	110	1	\$V_TRLR	DD - 61
46	Vehicle Special Use	V_SUSE	111	1	\$V_SUSE.	DD - 63
47	Emergency Use	V_EMER	112	1	\$V_EMER.	DD - 65
48	Vehicle Traffic Control	V_TRAF	113 - 114	2	\$V_TRAF.	DD - 66
49	Vehicle Manoeuvre	V_MNVR	115 - 116	2	\$V_MNVR.	DD - 68
50	Vehicle Damage Severity	V_DSEV	117	1	\$V_DSEV.	DD - 70
51	First Impact Location	V_IMPL	118 - 119	2	\$V_IMPL.	DD - 71
52	Major Damage Location	V_MDMG	120 - 121	2	\$V_MDMG.	DD - 74
53	Vehicle Event #1	V_EVT1	122 - 123	2	\$V_EVT.	DD - 77
54	Vehicle Event #2	V_EVT2	124 - 125	2	\$V_EVT.	DD - 77
55	Vehicle Event #3	V_EVT3	126 - 127	2	\$V_EVT.	DD - 77
56	Contributing Factor, Vehicle-related	V_CFV	128 - 129	2	\$V_CFV.	DD - 80
57	Dangerous Goods Class	V_DANG	130	1	\$V_DANG.	DD - 82
58	Load Status of Commercial Vehicles	V_LDST	131	1	\$V_LDST.	DD - 84
59	Stolen Vehicle	V_STLN	132	1	\$V_STLN.	DD - 85
60	Person Sequence Number	P_ID	132 - 134	2	N/A	DD - 86
61	Person Sex	P_SEX	135	1	\$P_SEX.	DD - 87
62	Person Date of Birth	P_DOB	136 - 143	8	N/A	DD - 88
63	Person Age	P_AGE	144 - 145	2	\$P_AGE.	DD - 89

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64	Years Licensed	P_YLIC	146 - 147	2	\$P_YLIC.	DD - 90
65	Licence Status	P_LICS	148	1	\$P_LICS.	DD - 91

No.	Data Element Name	Variable Name	Column Position	Length	Format Name	Page
66	Jurisdiction of Driver's Licence	P_DLIC	149 - 150	2	\$P_DLIC.	DD - 92
67	Person Position	P_PSN	151 - 152	2	\$P_PSN.	DD - 94
68	Contributing Factor, Driver Condition #1	P_CFDC1	153	1	\$P_CFDC.	DD - 96
69	Contributing Factor, Driver Condition #2	P_CFDC2	154	1	\$P_CFDC.	DD - 96
70	Contributing Factor, Driver Action #1	P_CFDA1	155 - 156	2	\$P_CFDA.	DD - 98
71	Contributing Factor, Driver Action #2	P_CFDA2	157 - 158	2	\$P_CFDA.	DD - 98
72	Contributing Factor, Driver Distraction	P_CFDD	159	1	\$P_CFDD.	DD - 100
73	Occupant Ejection From Vehicle	P_EJCT	160	1	\$P_EJCT.	DD - 101
74	Person Injury Severity	P_ISEV	161	1	\$P_ISEV.	DD - 102
75	Safety Device Used	P_SAFE	162 - 163	2	\$P_SAFE.	DD - 104
76	Air Bag Deployment	P_ABAG	164	1	\$P_ABAG.	DD - 106
77	Pedestrian Action at Time of Collision	P_PACT	165	1	\$P_PACT.	DD - 108
78	Pedestrian Location at Time of Collision	P_PLOC	166 - 167	2	\$P_PLOC.	DD - 110
79	Contributing Factor, Pedestrian Action	P_CFPA	168	1	\$P_CFPA.	DD - 112
80	Contributing Factor, Pedestrian Condition	P_CFPC	169	1	\$P_CFPC.	DD - 113
81	Special Study	STDY	170 - 173	4	N/A	DD - 114

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82	Collision Location Geocode	C_GEO	174 - 205	32	N/A	DD - 115
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Data Element No. : **01**

Data Element Name : **Province or Territory**

Variable Name : **C\_PROV**

Format Name : **\$C\_PROV.**

Position : **Columns 1 - 2**

Variable Length : **2**

Definition : The province or territory in which the collision occurred and whose administration recorded the collision.

Source: Collected

Utility : Important for jurisdictional comparisons, data linkage, and evaluation.

<b>Code</b>	<b>Description</b>
01	Newfoundland and Labrador
02	Prince Edward Island
03	Nova Scotia
04	New Brunswick
05	Quebec
06	Ontario
07	Manitoba
08	Saskatchewan
09	Alberta
10	British Columbia
11	Northwest Territories
12	Yukon Territory
13	Nunavut

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Data Element No. : **02**

Data Element Name : **Police Detachment/Region Code**

Variable Name : **C\_POLC** Format Name : N/A

Position : **Columns 3 - 14** Variable Length : **12**

Definition : An identifier, assigned by the reporting jurisdiction, of the general geographic area in which the collision occurred (e.g. the police detachment code, the region/county code, or the city name).

This code applies to the location where the collision occurred, not the jurisdiction where the collision report form was filled out.

NCDB2 allows 12 bytes to accommodate all the responses. Any code less than 12 bytes should be left-justified.

Each jurisdiction should provide Transport Canada with a list of regions/county/city/town names associated with the codes.

Source : Collected

Utility : Important for regional comparisons, geographic traffic analysis, modeling and forecasting, and selection of survey samples.

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Data Element No. : **03**

Data Element Name : **Collision Case Number (Police Occurrence File Number)**

Variable Name : **C\_CASE** Format Name : N/A

Position : **Columns 15 - 29** Variable Length : **15**

Definition : A unique case identifier assigned to each collision recorded by the police.

The field is 15 bytes long. Any case identifier less than 15 bytes should be left-justified.

Source : Collected

Utility : Links all segments of collision data (collision, vehicle, person) to the appropriate case.

Important for linkage of collision data to other databases (coroner, directed investigative studies, etc.). Identifies the originating police file for verification or amendment purposes.

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Data Element No. : **04**  
 Data Element Name : **Scene Attended**

Variable Name : **C\_SCATT**                      Format Name : **\$C\_SCATT.**  
 Position : **Column 30**                      Variable Length : **1**

Definition :                      Identifies the source and collection method of data on the Motor Vehicle Collision Report.

It is assumed that the highest quality data will come from police officers collecting data at the collision scene themselves. All other methods of filling out the form may produce less accurate or complete data.

For example, "other methods" can refer to situations where the collision was not attended by the police and was reported by the persons involved, or cases where police visited the scene and then instructed the persons involved to fill out the collision report.

Source :                      Collected

Utility :                      Important for quality control purposes.

<b>Code</b>	<b>Description</b>
1	Police attended the scene and completed the collision report form
2	Any other means of completing the collision report form
U	Unknown
X	Jurisdiction does not provide this data element

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Data Element No. : **05**  
Data Element Name : **Year of Collision**

Variable Name : **C\_YEAR**                      Format Name :    N/A  
Position :                      **Columns 31 - 34**                      Variable Length :    **4**

Definition :                      The calendar year in which the collision occurred.

Source :                              Collected

Utility :                              Important for administration, data linkage, and trend analysis of traffic collisions.

<b>Code</b>	<b>Description</b>
19yy-20yy	yy = last two digits of the calendar year (e.g. 99, 00, 01)

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Data Element No. : **06**Data Element Name : **Month of Collision**Variable Name : **C\_MNTH** Format Name : **\$C\_MNTH.**Position : **Columns 35 - 36** Variable Length : **2**

Definition : The month in which the collision occurred.

Source : Collected

Utility : Important for evaluation, data linkage, and allocation of enforcement resources.

<b>Code</b>	<b>Description</b>
01	January
02	February
03	March
04	April
05	May
06	June
07	July
08	August
09	September
10	October
11	November
12	December
UU	Unknown
XX	Jurisdiction does not provide this data element

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Data Element No. : **07**Data Element Name : **Day of the Month**Variable Name : **C\_MDAY** Format Name : **\$C\_MDAY.**Position : **Columns 37 - 38** Variable Length : **2**

Definition : Day of the month that collision occurred.

Source : Collected

Utility : Important for evaluation, data linkage, and allocation of enforcement resources.

<b>Code</b>	<b>Description</b>
01-31	Valid day of the month
UU	Unknown
XX	Jurisdiction does not provide this data element

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Data Element No. : **08**  
Data Element Name : **Day of the Week**

Variable Name : **C\_WDAY**                      Format Name : **\$C\_WDAY.**  
Position : **Column 39**                      Variable Length : **1**

Definition :                      Day of the week that collision occurred.

Source :                      Derived

Utility :                      Important for evaluation, data linkage, and allocation of enforcement resources.

<b>Code</b>	<b>Description</b>
1	Monday
2	Tuesday
3	Wednesday
4	Thursday
5	Friday
6	Saturday
7	Sunday
U	Unknown
X	Jurisdiction does not provide this data element

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Data Element No. : **09**  
Data Element Name : **Time of Collision**

Variable Name : **C\_TIME**                      Format Name :    N/A  
Position : **Columns 40 - 43**              Variable Length : **4**

Definition :                      The time of the day when the collision occurred, based on the 24-hour clock.

Source :                              Collected

Utility :                              Important for evaluation, data linkage, and allocation of enforcement resources.

<b>Code</b>	<b>Description</b>
0000-2359	Valid hour and minute of the day
UUUU	Unknown
XXXX	Jurisdiction does not provide this data element

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Data Element No. : **10**  
Data Element Name : **Hour of Collision**

Variable Name : **C\_HOUR**                      Format Name : **\$C\_HOUR.**  
Raw Data Location : **Columns 44 - 45**                      Variable Length : **2**

Definition :                      The hour of the day when the collision occurred.

Source :                      Collected

Utility :                      Important for evaluation, data linkage, and allocation of enforcement resources.

<b>Code</b>	<b>Description</b>
00	Midnight to 00:59
01	01:00 to 01:59
02	02:00 to 02:59
03	03:00 to 03:59
04	04:00 to 04:59
05	05:00 to 05:59
06	06:00 to 06:59
07	07:00 to 07:59
08	08:00 to 08:59
09	09:00 to 09:59
10	10:00 to 10:59
11	11:00 to 11:59
12	12:00 to 12:59
13	13:00 to 13:59
14	14:00 to 14:59

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15	15:00 to 15:59
16	16:00 to 16:59
17	17:00 to 17:59
18	18:00 to 18:59
19	19:00 to 19:59
20	20:00 to 20:59
21	21:00 to 21:59
22	22:00 to 22:59
23	23:00 to 23:59
UU	Unknown
XX	Jurisdiction does not provide this data element

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Data Element No. : **11**  
Data Element Name : **Severity of Collision**

Variable Name : **C\_SEV**                      Format Name : **\$C\_SEV.**  
Position : **Column 46**                      Variable Length : **1**

Definition :                      The severity of the consequences of the collision, based on the most severe injury to any person in the collision.

Source :                              Derived

Utility :                              Simplifies data use by providing a classification of collision severity without the need to refer to person-level data elements such as **Person Injury Severity (P\_ISEV)**.

<b>Code</b>	<b>Description</b>
1	Collision producing at least one fatality
2	Collision producing non-fatal injury
3	Collision involving property damage only
U	Unknown
X	Jurisdiction does not provide this data element

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Data Element No. : **12**  
 Data Element Name : **Number of Persons Killed**

Variable Name : **C\_DEAD**                      Format Name : **\$C\_DEAD.**  
 Position : **Columns 47 - 48**              Variable Length : **2**

Definition :                      Total number of persons who were killed as a result of the motor vehicle collision.

This number should be consistent with the number of fatally injured persons described in **Person Injury Severity (P\_ISEV)**.

If, for any reason, a jurisdiction does not submit all person records to NCDB2, this data element must be derived from the original source data, even if the number is not consistent with the number of person records submitted.

Source :                              Derived

Utility:                              Simplifies data use by providing the number of people killed in the collision without the need to count the number of person-level records.

Code	Description
00	No persons killed in this collision
01 - 98	01 - 98 persons killed in this collision
99	99 or more persons killed in this collision
UU	Unknown
XX	Jurisdiction does not provide this data element

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Data Element No. : **13**Data Element Name : **Number of Persons Injured**Variable Name : **C\_INJ** Format Name : **\$C\_INJ.**Position : **Columns 49 - 50** Variable Length : **2**

Definition : Total number of persons sustaining at least a minor injury in the collision.

This number should be consistent with the number of injured persons described in **Person Injury Severity (P\_ISEV)**.

If, for any reason, a jurisdiction does not submit all person records to NCDB2, this data element must be derived from the original source data, even if the number is not consistent with the number of person records submitted.

Source : Derived

Utility : Simplifies data use by providing the number of people injured in the collision without the need to count the number of person-level records.

Code	Description
00	No persons injured in this collision
01-98	01 - 98 persons injured in this collision
99	99 or more persons injured in this collision
UU	Unknown
XX	Jurisdiction does not provide this data element

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Data Element No. : **14**Data Element Name : **Number of Vehicles Involved**Variable Name : **C\_VEHS** Format Name : **\$C\_VEHS.**Position : **Columns 51 - 52** Variable Length : **2**

Definition : The total number of vehicles involved in the collision.

Utility : Simplifies data use by providing the number of vehicles involved in the collision without the need to count the number of vehicle-level records.

Source : Derived

Note : When a motor vehicle hits a bicycle, most jurisdictions count this as 2 vehicles involved. In this situation, the bicycle is counted as a vehicle and has its own vehicle record. However, when a bicycle hits a pedestrian, this is not considered a reportable motor vehicle collision and should not be reported in NCDB2.

Most jurisdictions do not consider trains to be vehicles. Therefore, when a motor vehicle hits a train, only the motor vehicle is counted in this data element.

Code	Description
01 - 98	01 - 98 vehicles involved
99	99 or more vehicles involved
UU	Unknown
XX	Jurisdiction does not provide this data element




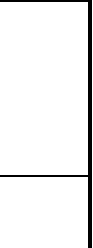
Data Element No. : **15**  
 Data Element Name : **Collision Configuration**

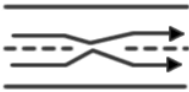
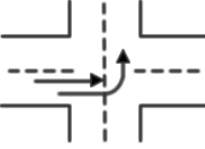
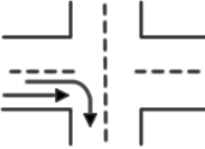
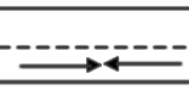

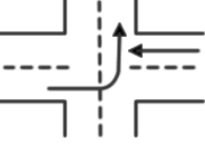
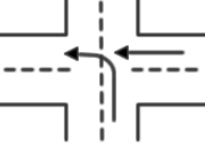
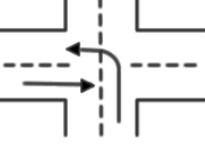
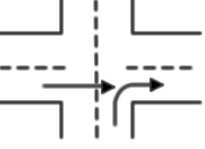
Variable Name : **C\_CONF**                      Format Name : **\$C\_CONF.**  
 Position : **Columns 53 - 54**              Variable Length : **2**

Definition :                      The position or configuration of the vehicles relative to the first collision event.

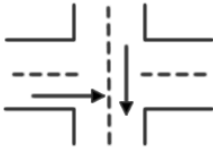
Source :                              Collected

Utility :                              Used in conjunction with other variables to generate complete information about the nature and events of the collision. Important for research, countermeasure programs, and new safety standards and regulations.

Code	Description
<i>Single-Vehicle Configurations</i>	
01	Hit moving or stationary object on road surface  e.g. animal, person, rock
02	Ran off road to left 
03	Ran off road to right 
04	Rollover on roadway
<i>Two-Vehicle Configurations</i>	
21	Rear-end collision 

22	Same direction sideswipe	
23	One vehicle crossing path of other to the left	
24	One vehicle crossing path of other to the right	
31	Head-on collision	
32	Approaching sideswipe	
33	Left turn across opposing traffic	
34	Left turn into traffic	
35	Left turn against traffic	
36	Right turn, including turning conflicts	

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37	Right angle collision	 A diagram illustrating a right-angle collision. It shows two intersecting roads. A vertical dashed line represents the centerline of the road. A horizontal dashed line represents the centerline of the other road. A solid horizontal line with an arrow pointing right represents a vehicle moving from left to right. A solid vertical line with an arrow pointing down represents a vehicle moving from top to bottom. The two vehicles are shown at the intersection point, indicating a collision.
41	Hit parked motor vehicle	
QQ	Other	
UU	Unknown	
XX	Jurisdiction does not provide this data element	

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Data Element No. : **16**  
Data Element Name : **Hit And Run**

Variable Name : **C\_HRUN**                      Format Name : **\$C\_HRUN.**  
Position : **Column 55**                      Variable Length : **1**

Definition :                      Indicates whether the collision involved a hit and run. A "hit and run" is when an involved driver fails to remain at the scene following a motor vehicle collision.

Source :                      Collected

Utility :                      Important for research and identification purposes.

Note :                      A collision involving a hit and run will stay coded as a hit and run even if the fleeing driver is later found.

<b>Code</b>	<b>Description</b>
1	Hit and run
2	Not a hit and run
U	Unknown
X	Jurisdiction does not provide this data element

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Data Element No. : **17**  
 Data Element Name : **Roadway Configuration**

Variable Name : **C\_RCFG**                      Format Name : **\$C\_RCFG.**  
 Position : **Columns 56 - 57**              Variable Length : **2**

Definition :                      The roadway design characteristics and configuration at the site of the collision.

Source :                              Collected

Utility :                              Important for research, engineering evaluations, and countermeasure programs.

<b>Code</b>	<b>Description</b>
01	Non-intersection                      e.g. mid-block
02	At an intersection of at least two public roadways
03	Intersection with parking lot entrance/exit, private driveway or laneway
04	Traffic circle or roundabout
05	Railway level crossing
06	Light rail transit crossing
07	Bridge, overpass, viaduct
08	Tunnel or underpass
09	Passing or climbing lane
10	Ramp
11	Express lane of a freeway system
QQ	Other than the preceding values
UU	Unknown
XX	Jurisdiction does not provide this data element

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Data Element No. : **18**Data Element Name : **Weather Condition**Variable Name : **C\_WTHR**Format Name : **\$C\_WTHR.**Position : **Column 58**Variable Length : **1**

Definition : The predominant weather or environmental condition at the time of the collision. If multiple conditions existed, report the one that had the most influence on the collision.

Source : Collected

Utility : Important for research, engineering evaluations, and countermeasure programs.

Code	Description
1	Clear
2	Overcast, cloudy but no precipitation
3	Raining
4	Snowing
5	Freezing rain, sleet, hail
6	Fog, mist, smog
7	Dust, smoke
8	Strong wind
Q	Other than the preceding values
U	Unknown
X	Jurisdiction does not provide this data element

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Data Element No. : **19**  
 Data Element Name : **Light Condition**

Variable Name : **C\_LITE**                      Format Name : **\$C\_LITE.**  
 Position : **Column 59**                      Variable Length : **1**

Definition :                      The ambient light condition at the time of the collision.

Source :                      Collected

Utility :                      Important for research, engineering evaluations, and countermeasure programs.

Code	Description
1	Daylight                      Between sunrise and sunset
2	Dawn                      Up to one hour before sunrise
3	Dusk                      Up to one hour after sunset
4	Darkness                      Between dusk and dawn
U	Unknown
X	Jurisdiction does not provide this data element

--

Data Element No. : **20**Data Element Name : **Artificial Light Condition**Variable Name : **C\_ALITE**Format Name : **\$C\_ALITE.**Position : **Column 60**Variable Length : **1**

Definition : Indicates the state of street lighting at the scene.

Source : Collected

Utility : Important for research, engineering evaluations, and countermeasure programs.

<b>Code</b>	<b>Description</b>
1	Street lights on
2	Street lights not on
Q	Other than the preceding values
U	Unknown
X	Jurisdiction does not provide this data element

--

Data Element No. : **21**Data Element Name : **Road Classification I**Variable Name : **C\_RCL1**Format Name : **\$C\_1RCL.**Position : **Column 61**Variable Length : **1**

Definition : The predominant characteristics of the land use adjacent to the road where the collision occurred.

Source : Collected

Utility : Important for research, engineering evaluations, countermeasure programs, and resource allocation.

Code	Description
1	Urban
2	Rural
Q	Other than the preceding values
U	Unknown
X	Jurisdiction does not provide this data element

--

Data Element No. : **22**  
 Data Element Name : **Road Classification II**

Variable Name : **C\_RCL2**                      Format Name : **\$C\_2RCL.**  
 Position : **Column 62**                      Variable Length : **1**

Definition :                      Describes the character of the roadway where the collision occurred in terms of its role within the road network. This is based on travelling speed, traffic flow and land services provided to the public.

The hierarchical nature of the road network is such that local roads feed traffic into collectors, collectors feed into arterials, and arterials feed into freeways.

Source :                      Linked

Utility :                      Important for research, engineering evaluations, countermeasure programs, and resource allocation.

Code	Description
1	<p>Freeway                      Designed primarily for optimum mobility at high speed (70 - 110 km/h), under uninterrupted free-flow conditions. Service to adjacent lands is restricted. Parking, unloading, and pedestrian traffic are not permitted.</p>
2	<p>Arterial                      Arterials move traffic at medium to high speed (40 - 100 km/h). These roads serve the major traffic flows between the principal areas of traffic generation, and connect to freeways, other arterials, and collector roads. Direct access to abutting land exists but is often restricted. Consequently, traffic flow is generally uninterrupted, except at signalized intersections. Parking, unloading, and pedestrian crossings are usually restricted.</p>
3	<p>Collector                      Collectors collect traffic from local roads and feed it to arterials, or vice versa. They generally form an integrated network throughout developed areas and provide direct traffic service to these areas. Typically these roads have traffic flows interrupted by stop conditions or signalized intersections at connections with arterials or other collector roads. Average running speed tends to be from medium to high speed (50 - 90 km/h), with unrestricted pedestrian use</p>

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	of the roads.
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4	Local	Main function is to provide land access to private properties. Traffic volume generally depends on the density of development adjacent to the road. Running speed is generally medium to high, depending on the road surface conditions. Traffic flow is interrupted by stop conditions at intersecting roads, and is affected by traffic moving to and from adjacent properties. Parking, unloading, and pedestrian use of the road are generally not restricted.
Q	Other than the preceding values	
U	Unknown	
X	Jurisdiction does not provide this data element	

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Data Element No. : **23**Data Element Name : **Road Classification III**Variable Name : **C\_RCL3**Format Name : **\$C\_3RCL.**Position : **Column 63**Variable Length : **1**

Definition : Further describes the character of the road at the site of the collision.

Source : Collected

Utility : Important for research and engineering evaluations.

<b>Code</b>	<b>Description</b>
1	One-way, any number of lanes
2	Two-way, one lane each direction
3	Two-way, multiple lanes each direction
Q	Other than the preceding values
U	Unknown
X	Jurisdiction does not provide this data element

--

Data Element No. : **24**  
Data Element Name : **Road Division**

Variable Name : **C\_RDIV**                      Format Name : **\$C\_RDIV.**  
Position : **Column 64**                      Variable Length : **1**

Definition :                      Describes whether and in what manner the roadway at the site of the collision was divided.

Source :                          Collected

Utility :                          Important for research and engineering evaluations.

<b>Code</b>	<b>Description</b>
1	Undivided
2	Divided, barrier median
3	Divided, with median but no barrier
4	Divided, type of divider not specified
Q	Other than the preceding values
U	Unknown
X	Jurisdiction does not provide this data element

--

Data Element No. : **25**  
 Data Element Name : **Road Material**

Variable Name : **C\_RMTL**                      Format Name : **\$C\_RMTL.**  
 Position : **Column 65**                      Variable Length : **1**

Definition :                      The surface material of the roadway at the collision site.

Source :                      Collected

Utility :                      Important for research and engineering evaluations.

Code	Description
1	Asphalt
2	Concrete
3	Gravel
4	Earth, dirt
5	Chip seal                      Aggregate (chips) embedded in an asphalt emulsion, with a coarser surface texture than asphalt
6	Brick/cobble stone
7	Wooden                      e.g. bridge
8	Steel deck                      e.g. bridge
9	Ice road                      Frozen body of water used as road in winter
Q	Other than the preceding values
U	Unknown
X	Jurisdiction does not provide this data element

--

Data Element No. : **26**  
 Data Element Name : **Road Surface**

Variable Name : **C\_RSUR**                      Format Name : **\$C\_RSUR.**  
 Position : **Columns 66 - 67**              Variable Length : **2**

Definition :                      The primary surface condition of the road at the site of the collision.

Source :                              Collected

Utility :                              Important for research, engineering and highway maintenance evaluations, and countermeasure programs.

Code	Description
01	Dry, normal
02	Wet
03	Snow (fresh, loose snow)
04	Slush, wet snow
05	Icy                                      Includes clear, black, or white ice
06	Packed snow                              Solid, flattened snow with or without sanded surface
07	Loose or excess sand, gravel, or dirt                              Refers to the debris on the road, not the material used to construct the road
08	Muddy
09	Oil    Includes spilled liquid or road application
10	Water (standing, moving)
QQ	Other than the preceding values
UU	Unknown
XX	Jurisdiction does not provide data element

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Data Element No. : **27**  
 Data Element Name : **Road Condition**

Variable Name : **C\_RCON**                      Format Name : **\$C\_RCON.**  
 Position : **Column 68**                      Variable Length : **1**

Definition :                      The maintenance condition of the road at the site of the collision.

Source :                      Collected

Utility :                      Important for research and highway maintenance evaluations.

<b>Code</b>	<b>Description</b>
1	Normal, good
2	Potholes, bumps, ruts
3	Under repair, construction
4	Uneven surface, sharp drop off pavement
5	Faded pavement markings
6	Worn
Q	Other than the preceding values
U	Unknown
X	Jurisdiction does not provide this data element

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Data Element No. : **28**  
Data Element Name : **Road Alignment**

Variable Name : **C\_RALN**                      Format Name : **\$C\_RALN.**  
Position : **Column 69**                      Variable Length : **1**

Definition :                      The visual horizontal alignment of the roadway at the site of the collision.

Source :                              Collected

Utility :                              Important for research and engineering evaluations.

<b>Code</b>	<b>Description</b>
1	Straight
2	Curved
Q	Other than the preceding values
U	Unknown
X	Jurisdiction does not provide this data element

--

Data Element No. : **29**  
Data Element Name : **Road Grade**

Variable Name : **C\_RGRD**                      Format Name : **\$C\_RGRD.**  
Position : **Column 70**                      Variable Length : **1**

Definition :                      The grade or inclination of the roadway at the site of the collision.

Source :                              Collected

Utility :                              Important for research, engineering evaluations, countermeasure programs.

Code	Description
1	Level
2	Gradient
3	Top of hill
4	Bottom of hill
Q	Other than the preceding values
U	Unknown
X	Jurisdiction does not provide this data element

--

Data Element No. : **30**  
 Data Element Name : **Speed Limit**

Variable Name : **C\_SPED**                      Format Name : **\$C\_SPED.**  
 Position : **Column 71**                      Variable Length : **1**

Definition :                      The posted or authorized speed limit at the collision site. May be indicated by permanent or temporary (e.g. construction zone) signage.

Source :                      Collected

Utility :                      Important for research, engineering evaluations, countermeasure programs, and enforcement resource allocation.

<b>Code</b>	<b>Description</b>
1	Less than 40 km per hour
2	40 km per hour
3	50 km per hour
4	60 km per hour
5	70 km per hour
6	80 km per hour
7	90 km per hour
8	100 km per hour
9	110 km per hour
Q	Other than the preceding values
U	Unknown
X	Jurisdiction does not provide this data element

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Data Element No. : **31**  
Data Element Name : **Work Zone**

Variable Name : **C\_WZON**                      Format Name : **\$C\_WZON.**  
Position : **Column 72**                      Variable Length : **1**

Definition :                      Indicates whether the collision took place in or was related to a construction, maintenance, or utility work zone.

Source :                              Collected

Utility :                              Important for research, engineering evaluations, countermeasure programs.

<b>Code</b>	<b>Description</b>
1	Yes, collision took place in or was related to a work zone
2	No, collision was not related to a work zone
U	Unknown
X	Jurisdiction does not provide this data element

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Data Element No. : **32**Data Element Name : **Workers Present in Work Zone**Variable Name : **C\_WKRS**Format Name : **\$C\_WKRS.**Position : **Column 73**Variable Length : **1**

Definition : Indicates whether or not workers were present in the work zone, in cases where the collision was work zone-related.

Source : Collected

Utility : Important for research, engineering evaluations, and countermeasure programs.

Code	Description
1	Yes, workers were present
2	No, workers were not present
N	Not applicable <span style="float: right;">Not a work zone</span>
U	Unknown
X	Jurisdiction does not provide this data element

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Data Element No. : **33**  
 Data Element Name : **School Purpose-Related**

Variable Name : **C\_SBUS**                      Format Name : **\$C\_SBUS.**  
 Position : **Column 74**                      Variable Length : **1**

Definition :                      Indicates if a school bus or motor vehicle functioning as a school bus for a school-related purpose is directly or indirectly involved.

For the collision to be reported as school purpose-related, the school bus must be directly involved as a contact vehicle, or indirectly involved as a non-contact vehicle (children hit when boarding bus, two vehicles colliding as a result of the stopped school bus, etc.). The school bus may or may not have passengers on board at the time of the collision.

Source :                      Collected

Utility :                      Important for research and school bus safety monitoring.

<b>Code</b>	<b>Description</b>
1	No, not a school purpose-related collision
2	Yes, school bus or school purpose vehicle directly involved
3	Yes, school bus or school purpose vehicle indirectly involved
U	Unknown
X	Jurisdiction does not provide this data element

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Data Element No. : **34**  
Data Element Name : **National Highway System**

Variable Name : **C\_NHS**                      Format Name : **\$C\_NHS.**  
Position : **Column 75**                      Variable Length : **1**

Definition :                      Indicates whether the collision occurred on a portion of the designated National Highway System.

Source :                              Linked

Utility :                              Important for safety monitoring and resource allocation related to the National Highway System.

<b>Code</b>	<b>Description</b>
1	Collision occurred on National Highway System
2	Collision did not occur on National Highway System
U	Unknown
X	Jurisdiction does not provide this data element

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Data Element No. : **35, 36**  
 Data Element Name : **Unusual Environmental Circumstances (1 & 2)**

Variable Name : **C\_ENVC1, C\_ENVC2**  
 Format Name : **\$C\_ENVC.**  
 Position : **Columns 76, 77**    Variable Length : **2 x 1**

Definition :                    Indicates any unusual environmental circumstances present at the time of the collision, in addition to those listed in other data elements

Up to two circumstances may be recorded.

Source :                        Collected

Utility :                        Important for research, countermeasure programs, engineering evaluations, and new safety standards and regulations.

Code	Description
1	None
2	Animal in roadway
3	Limited visibility                    e.g. poor weather conditions
4	View obstructed                    e.g. hedges, buildings
5	Acts of God                    e.g. landslide
6	Glare or reflection
7	Faulty traffic control device                    e.g. not working, missing, obscured
8	Obstruction on road                    e.g. presence of prior collision
9	Road shoulders                    e.g. none, low, soft, high
Q	Other than the preceding values
U	Unknown
X	Jurisdiction does not provide this data element

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Data Element No. : **37**  
 Data Element Name : **Vehicle Sequence Number**

Variable Name : **V\_ID**                      Format Name :    N/A  
 Position :                      **Columns 78 - 79**                      Variable Length :    **2**

Definition :                      A sequence number assigned to identify each vehicle involved in the collision.

The vehicle sequence number is reset to "01" for every collision and incremented for each additional vehicle record. Every vehicle involved in a reportable motor vehicle collision must have a vehicle sequence number, regardless of vehicle type or whether it is a parked or runaway car.

Pedestrians, not being occupants of a vehicle, are linked to a dummy vehicle record with a vehicle sequence number of "99" and vehicle data elements coded "not applicable."

Source :                      Collected

Utility :                      Important to uniquely identify vehicles within a collision and to link person level data to a specific vehicle for analysis.

Note :                      When a motor vehicle hits a bicycle, most jurisdictions count this as 2 vehicles involved. The bicycle is counted as a vehicle and has its own vehicle record and vehicle sequence number. However, when a bicycle hits a pedestrian, this is not considered a reportable motor vehicle collision and should not be reported in NCDB2.

Most jurisdictions do not consider trains as vehicles. Therefore, if a motor vehicle hits a train, the train would not have its own vehicle record and would not be counted as an involved vehicle.

Code	Description
01 - 98	01 - 98
99	Vehicle sequence number assigned to pedestrians

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UU	Unknown e.g. person can't be matched to the appropriate vehicle
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Data Element No. : **38**Data Element Name : **Number of Occupants in Vehicle**Variable Name : **V\_NOCC** Format Name : N/APosition : **Columns 80 - 81** Variable Length : **2**

Definition : The number of occupants (both injured and uninjured) in the vehicle at the time of the collision.

Source : Collected

Utility : Important for research and evaluation of injury prevention and reduction countermeasures.

Code	Description
01 - 98	01 - 98 occupants in the vehicle
99	More than 99 occupants
NN	Not applicable e.g. unoccupied parked car, or "dummy" vehicle record created for the pedestrian
UU	Unknown
XX	Jurisdiction does not provide this data element

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Data Element No. : **39**  
 Data Element Name : **Direction of Travel**

Variable Name : **V\_DIR**                      Format Name : **\$V\_DIR.**  
 Position : **Column 82**                      Variable Length : **1**

Definition :                      The direction in which the vehicle was travelling just prior to the collision.

Source :                      Collected

Utility :                      Used in conjunction with other variables to generate complete information about the nature and events of the collision. Important for research, countermeasure programs, and new safety standards and regulations.

Code	Description
1	North
2	Northeast
3	East
4	Southeast
5	South
6	Southwest
7	West
8	Northwest
9	Parked vehicle
N	Not applicable                      e.g. "dummy" vehicle record created for the pedestrian
U	Unknown
X	Jurisdiction does not provide this data element

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Data Element No. : **40**  
 Data Element Name : **Vehicle Licence Jurisdiction**

Variable Name : **V\_LICJ**                      Format Name : **\$V\_LICJ.**  
 Position : **Columns 83 - 84**              Variable Length : **2**

Definition :                      The province or territory that issued the vehicle licence plate.

Source :                              Collected

Utility :                              Important for evaluation, data linking, and resource allocation.

<b>Code</b>	<b>Description</b>
01	Newfoundland and Labrador
02	Prince Edward Island
03	Nova Scotia
04	New Brunswick
05	Quebec
06	Ontario
07	Manitoba
08	Saskatchewan
09	Alberta
10	British Columbia
11	Northwest Territories
12	Yukon Territory
13	Nunavut
14	Canadian military
15	Diplomatic
16	All states of the USA

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17	Other foreign
18	No licence
NN	Not applicable
QQ	Other than the preceding values
UU	Unknown
XX	Jurisdiction does not provide this data element

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Data Element No. : **41**Data Element Name : **Vehicle Identification Number (VIN)**Variable Name : **V\_VIN** Format Name : N/APosition : **Columns 85 - 101** Variable Length : **17**

Definition : A unique combination of 17 alphanumeric characters assigned to each vehicle by the manufacturer.

Source : Collected or linked

Utility : When decoded, can be used to identify specific vehicle design characteristics and safety devices. Important for evaluation of occupant protection systems, vehicle compatibility studies, countermeasure programs, driver education campaigns, and new safety standards and regulations.

Code	Description
17 letters and digits	Any valid alphanumeric combination, up to 17 characters
17 "N"s	Not applicable e.g. "dummy" vehicle record created for the pedestrian
17 "U"s	Unknown
17 "X"s	Jurisdiction does not provide this data element

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Data Element No. : **42**Data Element Name : **Vehicle Model Year**Variable Name : **V\_YEAR** Format Name : **\$V\_YEAR.**Position : **Columns 102 - 105** Variable Length : **4**

Definition : The model year of the vehicle as specified by the manufacturer.

Source : Collected

Utility : Important for evaluation, data linkage, standards and regulations development, etc., especially where the VIN is unavailable.

<b>Code</b>	<b>Description</b>
19yy-20yy	Model Year 19YY to 20YY where 00<= YY <= current year + 1
NNNN	Not applicable e.g. "dummy" vehicle record created for the pedestrian
UUUU	Unknown
XXXX	Jurisdiction does not provide this data element

Data Element No. : **43**

Data Element Name : **Vehicle Type**

Variable Name : **V\_TYPE** Format Name : **\$V\_TYPE.**

Position : **Columns 106 - 107** Variable Length : **2**

Definition : A classification of the vehicle according to its general design characteristics.

Source : Collected

Utility : Important for research, engineering evaluations, standards and regulations development, occupant protection evaluation, and countermeasure programs.

Code	Description	
01	Passenger car	
02	Passenger van <= 4536 kg GVWR	Multi-purpose vehicle with van body designed primarily for carrying passengers (e.g. Caravan, Odyssey, Voyager, Windstar)
03	Sport utility vehicle	Truck-like vehicle designed for carrying passengers and for occasional off-road use, generally built on a pickup chassis and having high ground clearance, four-wheel drive, and enclosed rear cargo area (e.g. Blazer, Bronco, 4-Runner, Jeep, Expedition, Sidekick)
04	Pickup truck <= 4536 kg GVWR	Includes pickup with open load bed, with camper top, etc.
05	Panel/cargo van <= 4536 kg GVWR	Panel or window type of van designed primarily for carrying goods
06	Other trucks and vans <= 4536 kg GVWR	Unspecified, or any other type of LTV that does not fit into the above categories (e.g. delivery or service vehicles, chip wagons, small tow trucks, etc.)
07	Unit truck (2-axle, 6 tires) > 4536 kg GVWR	Heavy truck with permanently mounted cargo body, with only 2 axles and at least 6

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	tires on the ground, with or without a trailer
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08	Unit truck (3 or more axles) > 4536 kg GVWR	Heavy truck with permanently mounted cargo body, with 3 or more axles, with or without a trailer
09	Other unit trucks > 4536 kg GVWR (number of axles unspecified)	Other or unspecified heavy truck with permanently mounted cargo body, with or without a trailer
10	Road tractor	With or without a semi-trailer
11	School bus	Standard large type. Only applies if primary purpose is to carry students to and from school and school-related activities.
12	Smaller school bus	Smaller type, seats < 25 passengers. Only applies if primary purpose is to carry students to and from school and school-related activities.
13	Urban transit bus	
14	Inter-city bus	
15	Bus	Unspecified (> 4536 kg GVWR)
16	Motorcycle	Motorized two- or three-wheeled vehicles capable of exceeding 70 km/h
17	Limited speed motorcycle	Motorized two- or three-wheeled vehicles whose top speed does not exceed 70 km/h (e.g. small scooters, mopeds)
18	Low-speed vehicle	A 4-wheeled electric vehicle with a maximum speed of 40 km/h
19	Off road vehicles	Off road motorcycles (e.g. dirt bikes) and all-terrain vehicles
20	Bicycle	
21	Purpose-built motorhome	Excludes pickup campers and 14-metre or longer motorhomes
22	14-metre motorhome	Also includes motorhomes longer than 14 metres

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23	Farm equipment
24	Construction equipment

25	Fire engine
26	Snowmobile
27	Street car, light rail      Excludes trains
NN	Not applicable      e.g. "dummy" vehicle record created for the pedestrian
QQ	Other than the preceding values
UU	Unknown
XX	Jurisdiction does not provide this data element

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Data Element No. : **44**  
 Data Element Name : **Vehicle Cargo Body**

Variable Name : **V\_CRGO**                      Format Name : **\$V\_CRGO.**  
 Position : **Columns 108 - 109**      Variable Length : **2**

Definition :                      The type of cargo body for buses, trucks over 4536 kg (10,000 lbs) GVWR, and tractor-trailer combination vehicles. This applies only to vehicles having an attached cargo area, excluding any trailers.

Source :                              Collected

Utility :                              Used alone or in conjunction with other vehicle design characteristics, this variable is important for research, engineering evaluations, standards and regulations development, and countermeasure programs.

Code	Description
01	Bus
02	Van / enclosed box
03	Hopper                      Container with open top to carry grain, chips, gravel, etc.
04	Cargo tank                      Cargo body designed to transport dry bulk, liquid bulk, or gas bulk
05	Flatbed                      Cargo body without sides or roof; includes trucks transporting containerized loads
06	Dump (tipper)                      Truck with container that can be tilted to discharge its load by gravity
07	Concrete mixer

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08	Auto transporter	Cargo body specifically designed to transport other motor vehicles; this includes flatbed and standard body tow trucks
09	Garbage / refuse	
10	No cargo body	e.g. road tractor (with or without trailer)
NN	Not applicable	e.g. vehicle not over 4536 kg GVWR, or "dummy" vehicle record created for the pedestrian
QQ	Other than the preceding values	
UU	Unknown	
XX	Jurisdiction does not provide this data element	

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Data Element No. : **45**Data Element Name : **Trailer Type**Variable Name : **V\_TRLR**Format Name : **\$V\_TRLR.**Position : **Column 110**Variable Length : **1**

Definition : Indicates the type of trailer according to its general characteristics.

Source : Collected

Utility : Used alone or in conjunction with other vehicle design characteristics, this variable is important for research, engineering evaluations, standards and regulations development, and countermeasure programs.

Code	Description
1	Recreational trailer
2	Light utility trailer Includes boat trailers
3	One semi-trailer Trailer having no forward axle, so part of its weight is supported by a swivel mount on truck tractor
4	Two semi-trailers
5	Three semi-trailers
6	Commercial full trailer Trailer with front axle and one or two rear axles
7	Pole trailer Trailer attached to towing vehicle by means of a reach or pole, or by being boomed or otherwise secured, and ordinarily used for carrying property of a long or irregular shape, e.g. poles, logs, pipes
N	Not applicable e.g. no trailer attached, or "dummy" vehicle record created for the pedestrian

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Q	Other than the preceding values	e.g. towed motor vehicles, farm equipment
U	Unknown	
X	Jurisdiction does not provide this data element	

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Data Element No. : **46**  
 Data Element Name : **Vehicle Special Use**

Variable Name : **V\_SUSE**                      Format Name : **\$V\_SUSE.**  
 Position : **Column 111**                      Variable Length : **1**

Definition :                      Indicates whether the involved vehicle was being used for a special function at the time of the collision, whether or not it was registered for that function.

Source :                              Collected

Utility :                              Important for evaluating the frequency and outcome of collisions involving vehicles used for special functions.

Code	Description
1	No special use                      i.e. not used for any of the listed purposes
2	Taxi
3	Vehicle used as school bus
4	Vehicle used as other bus
5	Military
6	Police
7	Ambulance
8	Fire response vehicle                      e.g. fire engine, fire chief's truck, volunteer firefighter's vehicle
N	Not applicable                      e.g. "dummy" vehicle record created for the pedestrian
Q	Other than the preceding values
U	Unknown
X	Jurisdiction does not provide this data element

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Data Element No. : **47**  
 Data Element Name : **Emergency Use**

Variable Name : **V\_EMER**                      Format Name : **\$V\_EMER.**  
 Position : **Column 112**                      Variable Length : **1**

Definition :                      Indicates whether an official motor vehicle was on an emergency response at the time of the collision.

Source :                      Collected

Utility :                      Important for improving safety in emergency vehicle operations and developing countermeasure programs.

Code	Description
1	Emergency situation or emergency response mode                      e.g. emergency signals engaged, or responding in an urgent manner
2	Not in emergency situation or emergency response mode
N	Not applicable                      e.g. not an emergency vehicle
U	Unknown
X	Jurisdiction does not provide this data element

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Data Element No. : **48**Data Element Name : **Vehicle Traffic Control**Variable Name : **V\_TRAF** Format Name : **\$V\_TRAF.**Position : **Columns 113 - 114** Variable Length : **2**

Definition : The most significant traffic control device or measure applicable to the vehicle at the collision site.

Source : Collected

Utility : Important for research, engineering evaluations, countermeasure programs, and resource allocation.

Code	Description
01	Traffic signals fully operational
02	Traffic signals in flashing mode
03	Stop sign
04	Yield sign
05	Warning sign e.g. Yellow diamond shape sign
06	Orange construction zone sign
07	Pedestrian crosswalk
08	Person e.g. Police officer, flagman, school guard
09	School crossing
10	Reduced speed zone
11	No passing zone sign
12	Markings on the road e.g. No passing
13	School bus slowing or stopped with red school bus signal lights flashing
14	Railway crossing with signals, or signals and gates

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15	Railway crossing with signs only
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16	No control present
QQ	Other than the preceding values
NN	Not applicable e.g. parked car, or "dummy" vehicle record created for the pedestrian
UU	Unknown
XX	Jurisdiction does not provide this data element

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Data Element No. : **49**  
 Data Element Name : **Vehicle Manoeuvre**

Variable Name : **V\_MNVR**                      Format Name : **\$V\_MNVR.**  
 Position : **Columns 115 - 116**      Variable Length : **2**

Definition :                      The controlled movement of the vehicle just prior to the events of the collision.

Source :                              Collected

Utility :                              Used in conjunction with other variables to generate complete information about the nature and events of the collision. Important for research, countermeasure programs, and new safety standards and regulations.

Code	Description
01	Going straight ahead
02	Turning left                              e.g. at intersection, driveway, etc.
03	Turning right                              e.g. at intersection, driveway, etc.
04	Making U-turn
05	Negotiating a curve
06	Changing lanes                              i.e. in traffic
07	Merging into traffic
08	Overtaking, passing on left or right
09	Slowing in traffic
10	Stopped in traffic
11	Starting in traffic
12	Leaving roadside                              Entering traffic lane from roadside or parked position

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13	Entering parked position	Leaving traffic lane to enter roadside or parked position
14	Reversing	
15	Parked legally	
16	Stopped/parked illegally	
17	Runaway or roll-away vehicle	
NN	Not applicable	e.g. parked car, or "dummy" vehicle record created for the pedestrian
QQ	Other than the preceding values	
UU	Unknown	
XX	Jurisdiction does not provide this data element	

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Data Element No. : **50**  
 Data Element Name : **Vehicle Damage Severity**

Variable Name : **V\_DSEV**                      Format Name : **\$V\_DSEV.**  
 Position : **Column 117**                      Variable Length : **1**

Definition :                      Indicates the extent of vehicle damage resulting from the collision.

Source :                              Collected

Utility :                              Important for research, development of safety standards, and occupant protection evaluation.

Code	Description
1	No visible damage
2	Light                              Minor damage; drivable
3	Moderate                              Functional damage; drivable but not meeting requirements of the law for further use without repairs (excluding windshield and lights)
4	Severe                              Disabling damage; not drivable
5	Demolished                              Totally destroyed, not repairable
N	Not applicable                              e.g. "dummy" vehicle record created for the pedestrian
Q	Other than the preceding values
U	Unknown
X	Jurisdiction does not provide this data element

Data Element No. : **51**  
 Data Element Name : **First Impact Location**

Variable Name : **V\_IMPL**                      Format Name : **\$V\_IMPL.**  
 Position : **Columns 118 - 119**      Variable Length : **2**

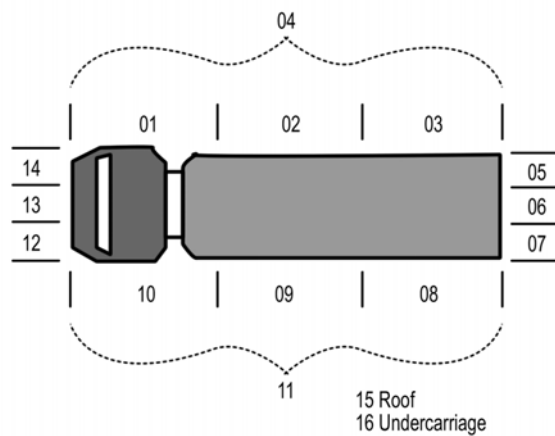
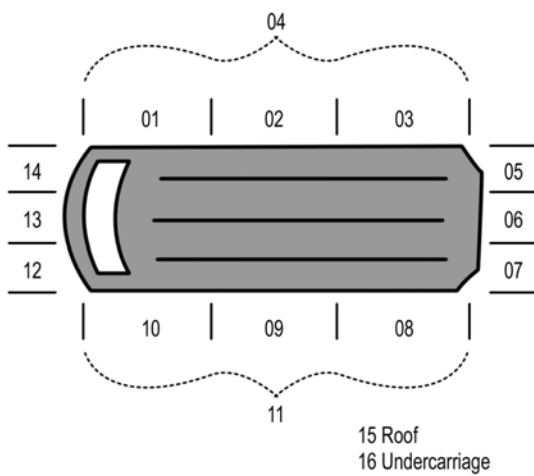
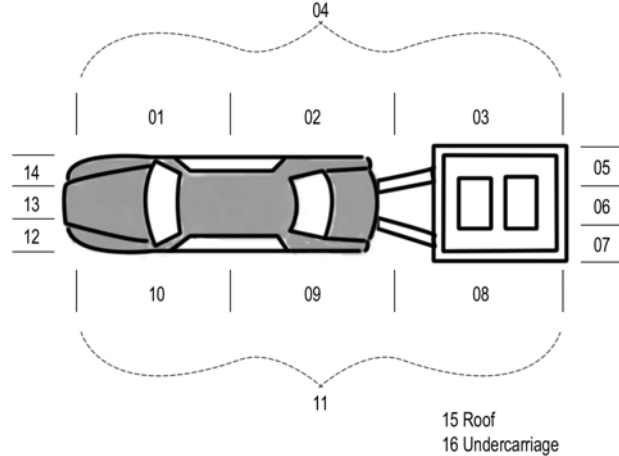
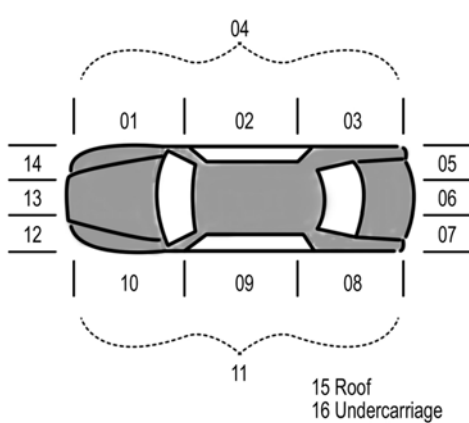
Definition :                      The location on the vehicle that received the initial impact. Any trailer or attachment is counted as part of the vehicle when identifying the impact location.

Source :                              Collected

Utility :                              Important for research, safety standards development, and occupant protection evaluation.

<b>Code</b>	<b>Description</b>
01	Right front third
02	Right middle third
03	Right rear third
04	Right side unspecified
05	Rear right third
06	Rear middle third                      Includes trunk
07	Rear left third
08	Left rear third
09	Left middle third
10	Left front third
11	Left side unspecified
12	Front left third
13	Front middle third                      Includes hood and windshield
14	Front right third

15	Roof	
16	Undercarriage	
99	No apparent impact	
NN	Not applicable	e.g. "dummy" vehicle record created for the pedestrian
QQ	Other than the preceding values	
UU	Unknown	
XX	Jurisdiction does not provide this data element	



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Data Element No. : **52**  
 Data Element Name : **Major Damage Location**

Variable Name : **V\_MDMG**                      Format Name : **\$V\_MDMG.**  
 Position : **Columns 120 - 121**      Variable Length : **2**

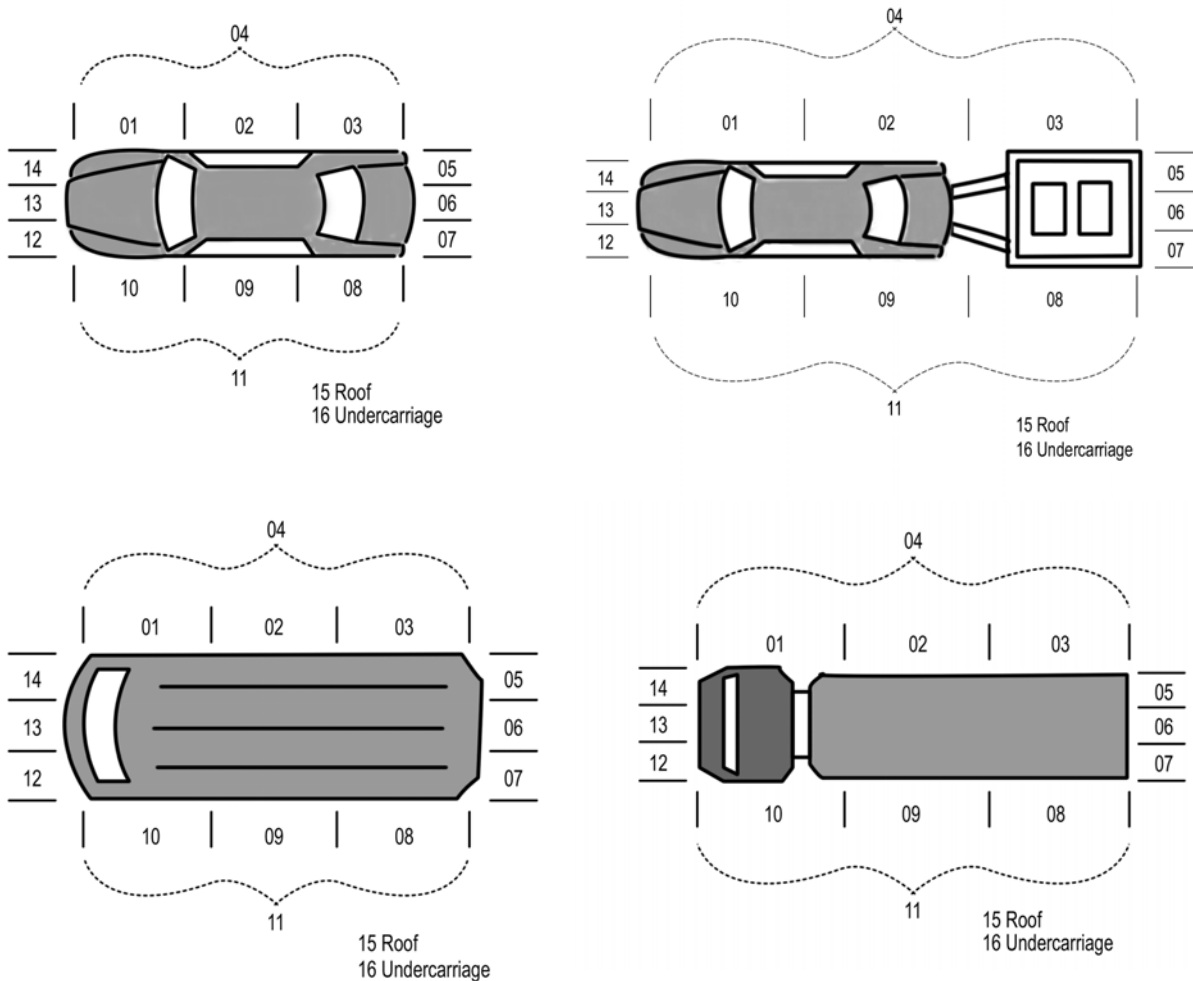
Definition :                      The location on the vehicle that received the most damage. Any trailer or attachment is counted as part of the vehicle when identifying damage location.

Source :                              Collected

Utility :                              Important for research, safety standards development, and occupant protection evaluation.

Code	Description
01	Right front third
02	Right middle third
03	Right rear third
04	Right side unspecified
05	Rear right third
06	Rear middle third                      Includes trunk
07	Rear left third
08	Left rear third
09	Left middle third
10	Left front third
11	Left side unspecified
12	Front left third
13	Front middle third                      Includes hood and windshield
14	Front right third

15	Roof
16	Undercarriage
17	Interior
99	No apparent damage
NN	Not applicable e.g. "dummy" vehicle record created for the pedestrian
QQ	Other than the preceding values
UU	Unknown
XX	Jurisdiction does not provide this data element



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Data Element No. : **53, 54, 55**Data Element Name : **Vehicle Event (1-3)**Variable Name : **V\_EVT1, V\_EVT2, V\_EVT3**Format Name : **\$V\_EVT.**Position : **Columns 122 - 123, 124 - 125, 126 - 127**Variable Length : **3 x 2**

Definition : A set of three codes that describe, in sequence, the events occurring to each vehicle during its involvement in the collision. All three fields should be filled, even if just to record "not applicable."

Source : Collected

Utility : Used in conjunction with other variables to generate complete information about the nature and events of the collision. Important for research, development of countermeasure programs, and new safety standards and regulations.

Note : Any of the codes below may appear in any of the three **Vehicle Event** data elements. They are grouped according to event type merely for convenience.

Code	Description
<i>Non-Collision Events</i>	
01	Skidded or spun on roadway
02	Ran off roadway to right
03	Ran off roadway to left
04	Overtuned, roll-over
05	Jack-knife or trailer swing
06	Fire or explosion

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07	Load spill	
08	Load shift	
09	Submersion	
10	Other non-collision event	
<i>Hit Moveable Objects</i>		
11	Hit another moving vehicle	
12	Hit pedestrian	
13	Hit bicyclist	
14	Hit deer	
15	Hit moose, elk, or caribou	
16	Hit other animal	Includes unknown animals
17	Hit train	
18	Hit street car	
19	Hit light rail transit vehicle	
20	Hit parked vehicle	Includes trailers, farm or construction equipment, etc.
21	Hit other moveable object	
<i>Hit Non-Moveable Objects</i>		
22	Hit a non-fixed object	e.g. object falling from another vehicle
23	Hit a building	
24	Hit ditch	
25	Hit embankment, dirt pile, rock	

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26	Hit end of culvert, drainage structure	
27	Hit tree, large bush/hedge	
28	Hit utility pole, lamp pole	Includes traffic signal standards
29	Hit curb	
30	Hit post	e.g. sign post
31	Hit traffic barrier	e.g. median barrier, impact attenuator, moveable barrier, fence
32	Hit a fixed object that is part of the road structure not mentioned above	e.g. gore, bridge, railing, bridge abutment
33	Hit fixed object that is NOT part of the road structure and not mentioned above	e.g. utility box, parking meter, hydrant, mailbox
39	Hit other types of fixed object	
NN	Not applicable	e.g. parked car, or "dummy" vehicle record created for the pedestrian
QQ	Other than the preceding values	
UU	Unknown	
XX	Jurisdiction does not provide this data element	

Data Element No. : **56**

Data Element Name : **Contributing Factor, Vehicle-related**

Variable Name : **V\_CFV**                      Format Name : **\$V\_CFV.**

Position : **Columns 128 - 129**      Variable Length : **2**

Definition :                      The vehicle circumstance or factor that appears to have contributed to the collision.

Source :                              Collected

Utility :                              Important for research, countermeasure programs, engineering evaluations, and new safety standards and regulations.

<b>Code</b>	<b>Description</b>
01	No vehicle contributing factor
02	Brakes
03	Steering
04	Lights
05	Tires                              e.g. tire blown out, tire pressure low
06	Wheel assembly                      e.g. wheel came off
07	Unsecured load, spilled load
08	Oversized load, overload
09	Visibility obstructed                      e.g. wiper, defroster, mirror, tinting, interior objects
10	Other defective vehicular parts
NN	Not applicable                      e.g. parked car, or "dummy" vehicle record created for the pedestrian
QQ	Other than the preceding values
UU	Unknown

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XX	Jurisdiction does not provide this data element
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Data Element No. : **57**  
 Data Element Name : **Dangerous Goods Class**

Variable Name : **V\_DANG**                      Format Name : **\$V\_DANG.**  
 Position : **Column 130**                      Variable Length : **1**

Definition :                      Describes, where applicable, the type of hazardous material being transported by the vehicle, using the standard classification scheme.

This data element applies to any vehicle displaying a hazardous materials placard.

Source :                      Collected

Utility :                      Important for research, commercial driver education campaigns, and safety standards and regulations.

Code	Description
1	Explosives
2	Gases
3	Flammable liquids
4	Flammable solids, spontaneous combustibles
5	Oxidizers & organic peroxides
6	Poisonous & infectious substances
7	Radioactives
8	Corrosives
9	Miscellaneous dangerous goods
N	Not applicable                      e.g. vehicle not carrying a placard, or "dummy" vehicle record created for the pedestrian
U	Unknown

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X	Jurisdiction does not provide this data element
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Data Element No. : **58**Data Element Name : **Load Status of Commercial Vehicles**Variable Name : **V\_LDST** Format Name : **\$V\_LDST.**Position : **Column 131** Variable Length : **1**

Definition : Indicates whether a vehicle was loaded with cargo at the time of the collision. Only applicable to commercial vehicles with a GVWR of 4536 kg or more.

Source : Collected

Utility : Important for research, commercial driver education campaigns, and monitoring of safety regulations.

Code	Description
1	Fully or partially loaded
2	Not loaded
N	Not applicable e.g. non-commercial vehicle, or "dummy" vehicle record created for the pedestrian
U	Unknown
X	Jurisdiction does not provide this data element

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Data Element No. : **59**Data Element Name : **Stolen Vehicle**Variable Name : **V\_STLN**Format Name : **\$V\_STLN.**Position : **Column 132**Variable Length : **1**

Definition : Indicates whether a vehicle was stolen at the time of the collision.

Source : Collected

Utility : Important for identifying the frequency and outcome of collisions involving stolen vehicles, and developing safety standards and regulations related to anti-theft devices.

Code	Description
1	Vehicle was not stolen at time of collision
2	Vehicle was stolen at time of collision
N	Not applicable e.g. "dummy" vehicle record created for the pedestrian
U	Unknown
X	Jurisdiction does not provide this data element

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Data Element No. : **60**  
 Data Element Name : **Person Sequence Number**

Variable Name : **P\_ID**                      Format Name :     N/A  
 Position :                      **Columns 133 - 134**     Variable Length :     **2**

Definition :                      A unique identifier for each person involved in the collision.

The person sequence number is reset to "01" for every vehicle and incremented for each additional person record.

For fatal and injury collisions, there should be a record with person level data for all vehicle occupants, whether injured or not. For property damage collisions, there should be a record with person level data for at least the driver of the vehicle.

Pedestrians have their own person sequence number and person level data linked to a dummy vehicle record with a **Vehicle Sequence Number (V\_ID)** of "99."

Source :                              Collected

Utility :                              Needed to uniquely identify persons within a vehicle.

Code	Description
01 - 99	01 - 99
NN	Not applicable                      e.g. "dummy" person record created for unoccupied parked cars
UU	Unknown                              e.g. applies to runaway cars

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Data Element No. : **61**  
Data Element Name : **Person Sex**

Variable Name : **P\_SEX**                      Format Name : **\$P\_SEX.**  
Position : **Column 135**                      Variable Length : **1**

Definition :                      The gender of the person.

Source :                      Collected

Utility :                      Important for evaluation of collision involvement, outcomes, and countermeasures for different genders. Needed for linkage to injury databases.

<b>Code</b>	<b>Description</b>
F	Female
M	Male
N	Not applicable                      e.g. "dummy" person record created for parked cars
U	Unknown
X	Jurisdiction does not provide this data element

Data Element No. : **62**  
 Data Element Name : **Person Date of Birth**

Variable Name : **P\_DOB**                      Format Name :     N/A  
 Position :                      **Columns 136 - 143**     Variable Length :   **8**

Definition :                      The person's exact date of birth. This data element is collected for the driver and, if possible, all injured or killed persons.

Source :                              Collected

Utility :                              Used to calculate person age. Important for evaluation of collision involvement, outcomes, and countermeasures for different age groups. Facilitates data linkage with other sources such as hospital, coroner, and alcohol databases.

Code	Description
YYYYMMDD	Date of birth where YYYY is year, MM is month, and DD is day
NNNNNNNN	Not applicable                      e.g. "dummy" vehicle record created for the pedestrian
UUUUUUUU	Unknown
XXXXXXXX	Jurisdiction does not provide this data element

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Data Element No. : **63**Data Element Name : **Person Age**Variable Name : **P\_AGE** Format Name : **\$P\_AGE.**Position : **Columns 144 - 145** Variable Length : **2**

Definition : The age of the person according to the last birthday. This data element is collected for all involved persons.

Source : Derived (or collected when date of birth is not available)

Utility : Important for evaluation of collision involvement, outcomes, and countermeasures for different age groups, as well as data linkage.

Code	Description
00	Less than 1 year old
01 - 98	1 to 98 years old
99	99 years or older
NN	Not applicable e.g. "dummy" person record created for parked cars
UU	Unknown e.g. applies to runaway cars
XX	Jurisdiction does not provide this data element

Data Element No. : **64**  
 Data Element Name : **Years Licensed**

Variable Name : **P\_YLIC**                      Format Name : **\$P\_YLIC.**  
 Position : **Columns 146 - 147**      Variable Length : **2**

Definition :                      The length of time the driver of the vehicle had been licensed at the time of the collision.

Source :                              Linked

Utility :                              Important for research, evaluation of graduated licensing programs and licensing policies, and countermeasure programs.

Code	Description
G1	First level of graduated licensing
G2	Second level of graduated licensing
00	Less than a year licensed
01 - 79	1 to 79 years licensed
80	80 years or more licensed
90	Learner's permit
NN	Data element is not applicable      e.g. not a driver, or "dummy" person record created for parked cars
QQ	Choice is other than the preceding values
UU	Unknown
XX	Jurisdiction does not provide this data element

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Data Element No. : **65**  
 Data Element Name : **Licence Status**

Variable Name : **P\_LICS**                      Format Name : **\$P\_LICS.**  
 Position : **Column 148**                      Variable Length : **1**

Definition :                      Describes the status of the driver's licence at the time of the collision.

Source :                      Linked

Utility :                      Important for the identification of drivers not in compliance with licence restrictions and development of countermeasure programs.

Code	Description
1	Valid licence
2	Driving with incorrect licence                      e.g. improper class, lacking necessary endorsements
3	Not licensed
4	Licence revoked, suspended, cancelled
5	Licence expired
N	Not applicable                      e.g. not a driver, or "dummy" person record created for parked cars
Q	Other than the preceding values
U	Unknown
X	Jurisdiction does not provide this data element

Data Element No. : **66**

Data Element Name : **Jurisdiction of Driver's Licence**

Variable Name : **P\_DLIC** Format Name : **\$P\_DLIC.**

Position : **Columns 149 - 150** Variable Length : **2**

Definition : The jurisdiction that issued the driver's licence.

Source : Collected

Utility : Important for data linkage and evaluation.

<b>Code</b>	<b>Description</b>
01	Newfoundland and Labrador
02	Prince Edward Island
03	Nova Scotia
04	New Brunswick
05	Quebec
06	Ontario
07	Manitoba
08	Saskatchewan
09	Alberta
10	British Columbia
11	Northwest Territories
12	Yukon Territory
13	Nunavut
14	All states of the USA
15	Other foreign, including International Licence
16	Not licensed

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NN	Not applicable	e.g. not a driver, or "dummy" person record created for parked cars
QQ	Other than the preceding values	
UU	Unknown	
XX	Jurisdiction does not provide this data element	

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Data Element No. : **67**  
 Data Element Name : **Person Position**

Variable Name : **P\_PSN**                      Format Name : **\$P\_PSN.**  
 Position : **Columns 151 - 152**      Variable Length : **2**

Definition :                      The seating position of the person in the vehicle.

Source :                              Collected

Utility :                              Important for evaluation, research, and program development related to occupant protection and vehicle design.

<b>Code</b>	<b>Description</b>
11	Driver
12	Front row, centre
13	Front row, right outboard, including motorcycle passenger in sidecar
21	Second row, left outboard, including motorcycle passenger
22	Second row, centre
23	Second row, right outboard
31	Third row, left outboard
32	Third row, centre
33	Third row, right outboard
etc.	
96	Position unknown, but the person was definitely an occupant
97	Sitting on someone's lap
98	Outside passenger compartment      e.g. riding in the back of a pickup truck

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99	Pedestrian
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NN	Not applicable	e.g. "dummy" person record created for parked cars
QQ	Other than the preceding values	
UU	Unknown	
XX	Jurisdiction does not provide this data element	

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Data Element No. : **68, 69**Data Element Name : **Contributing Factor, Driver Condition (1 & 2)**Variable Name : **P\_CFDC1, P\_CFDC2** Format Name : **\$P\_CFDC.**Position : **Columns 153, 154** Variable Length : **2 x 1**

Definition : The driver condition or state that appears directly related to the collision.

This field is used only for drivers. Other persons should be coded as "not applicable."

Source : Collected

Utility : Important for research, countermeasure programs, and development of safety standards and regulations.

Code	Description
1	No driver condition as contributing factor
2	Fatigued, fell asleep
3	Suspected use of alcohol
4	Ability impaired by alcohol
5	Suspected use of illegal drugs
6	Sudden illness, lost consciousness
7	Affected by legal medication
8	Physical disability
N	Not applicable e.g. not a driver
Q	Other than the preceding values
U	Unknown

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X	Jurisdiction does not provide this data element
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Data Element No. : **70, 71**Data Element Name : **Contributing Factor, Driver Action (1 & 2)**Variable Name : **P\_CFDA1, P\_CFDA2** Format Name : **\$P\_CFDA.**Position : **Columns 155 - 156, 157 - 158**Variable Length : **2 x 2**

Definition : The driver actions that may have contributed to the collision.

Up to two driver actions may be recorded. The driver action deemed most responsible for the collision is coded as P\_CFDA1, and the less responsible action is coded as P\_CFDA2. Both fields should be filled, even if just to record "no driver action."

Source : Collected

Utility : Important for research, countermeasure programs, and development of safety standards and regulations.

Code	Description
01	No driver action as contributing factor
02	Following too closely
03	Driving too fast for conditions
04	Exceeding speed limit
05	Improper passing <span style="float: right;">Includes improper lane changes</span>
06	Improper turning
07	Failing to yield right-of-way
08	Disobeying traffic control device or traffic officer
09	Driving on wrong side of road <span style="float: right;">e.g. crossed centre line</span>

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10	Driving in wrong direction	e.g. one-way street, divided highway
11	Backing unsafely	
NN	Not applicable	e.g. not a driver
QQ	Other than the preceding values	
UU	Unknown	
XX	Jurisdiction does not provide this data element	

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Data Element No. : **72**Data Element Name : **Contributing Factor, Driver Distraction**Variable Name : **P\_CFDD** Format Name : **\$P\_CFDD.**Position : **Column 159** Variable Length : **1**

Definition : The driver distraction that may have contributed to the collision.

This field is used for drivers only. Code as "not applicable" for other persons.

Source : Collected

Utility : Important for research, countermeasure programs, and development of safety standards and regulations.

Code	Description
1	Not distracted
2	Distracted, inattentive
3	Distracted by communication device e.g. cell phone, pager
4	Distracted by entertainment device e.g. DVD player, CD player, radio
5	Distracted by vehicle displays e.g. telematics, guidance systems
N	Not applicable e.g. not a driver
Q	Other than the preceding values
U	Unknown
X	Jurisdiction does not provide this data element

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Data Element No. : **73**Data Element Name : **Occupant Ejection From Vehicle**Variable Name : **P\_EJCT** Format Name : **\$P\_EJCT.**Position : **Column 160** Variable Length : **1**

Definition : Indicates the extent to which a vehicle occupant was ejected as a result of the collision. This data element applies only to occupants seated in an enclosed compartment.

Source : Collected

Utility : Important for evaluation, research, and program development related to occupant protection and vehicle design.

Code	Description
1	Not ejected
2	Partially ejected
3	Fully ejected
N	Not applicable e.g. "dummy" person record created for parked cars, or pedestrian
Q	Other than the preceding values
U	Unknown
X	Jurisdiction does not provide this data element

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Data Element No. : **74**  
 Data Element Name : **Person Injury Severity**

Variable Name : **P\_ISEV**                      Format Name : **\$P\_ISEV.**  
 Position : **Column 161**                      Variable Length : **1**

Definition :                      The severity of injuries sustained by the person due to the collision, based on required medical treatment.

Deaths or injuries from natural causes should be excluded or coded as "other."

Source :                      Collected

Utility :                      Important for data linkage, injury outcome analysis, occupant protection research, engineering evaluations, and countermeasure programs.

Code	Description
1	No injury
2	Minimal No immediate medical attention required. Includes minor abrasions, bruises and complaint of pain.
3	Minor Person went to hospital, was treated but not admitted.
4	Major Person admitted to hospital. Includes persons admitted for observation.
5	Fatal Died immediately or within the time limit. Time limit is 30 days for all jurisdictions except Quebec, where the time limit is 8 days.
6	Injured, extent unknown
N	Not applicable
Q	Other than the preceding values
U	Unknown

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X	Jurisdiction does not provide this data element
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Data Element No. : **75**  
 Data Element Name : **Safety Device Used**

Variable Name : **P\_SAFE**                      Format Name : **\$P\_SAFE.**  
 Position : **Columns 162 - 163**      Variable Length : **2**

Definition :                      The type of safety equipment, if any, used by each person in the collision.

Source :                              Collected

Utility :                              Important for injury outcome analysis, occupant protection research, engineering evaluations, and countermeasure programs.

<b>Code</b>	<b>Description</b>
01	None used                      e.g. no seat belt, helmet, or other device used
02	Lap belt only or lap portion of lap/shoulder belt
03	Shoulder belt only or shoulder portion of lap/shoulder belt
04	Lap/shoulder belt
05	Front-facing child restraint system
06	Rear-facing child restraint system
07	Booster seat
08	Child restraint system, type unspecified
09	Helmet                              For motorcyclists, bicyclists, snowmobilers, all-terrain vehicle riders
10	Other safety device used
11	No safety device equipped      e.g. buses
NN	Not applicable
QQ	Other than the preceding values
UU	Unknown

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XX	Jurisdiction does not provide this data element
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Data Element No. : **76**  
 Data Element Name : **Air Bag Deployment**

Variable Name : **P\_ABAG**                      Format Name : **\$P\_ABAG.**  
 Position : **Column 164**                      Variable Length : **1**

Definition :                      Describes whether or not vehicle air bags deployed during the collision.

Source :                              Collected

Utility :                              Important for injury outcome analysis, occupant protection research, engineering evaluations, and countermeasure programs.

<b>Code</b>	<b>Description</b>	
1	No deployment during collision	
2	Deployed – front	e.g. steering wheel or dash
3	Deployed – side	e.g. seat, door, curtain, tube
4	Deployed – other	e.g. knee bolster
5	Deployed – combination	
6	Deployed – location unspecified	
7	Air bag deactivated (switch or visible indicator)	Includes air bag previously deployed but not repaired since then
N	Not applicable	e.g. no air bags fitted, non-occupant, or "dummy" person record created for parked cars
Q	Other than the preceding values	
U	Unknown	
X	Jurisdiction does not provide this data element	

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Data Element No. : 77

Data Element Name : **Pedestrian Action at Time of Collision**Variable Name : **P\_PACT** Format Name : \$P\_PACT1.Position : **Columns 165** Variable Length : **1**

Definition : The action of an involved pedestrian just prior to or at the time of the collision.

Source : Collected

Utility : Important for research, countermeasure programs, and education campaigns.

Code	Description
01	Entering or crossing roadway
02	Walking, jogging, running
03	Walking to/from school
04	Playing
05	Approaching or leaving school bus
06	Approaching or leaving other motor vehicle
07	Standing
08	Working
09	Pushing or working on motor vehicle
10	Riding mobility scooter or wheelchair
NN	Not applicable e.g. not a pedestrian, or "dummy" person record created for parked cars
QQ	Other than the preceding values
UU	Unknown

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XX	Jurisdiction does not provide this data element
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Data Element No. : 78

Data Element Name : **Pedestrian Location at Time of Collision**Variable Name : **P\_PLOC** Format Name : \$P\_PLOC.Position : **Columns 166 - 167** Variable Length : **2**

Definition : The involved pedestrian's location with respect to the roadway at the time of the collision.

Source : Collected

Utility : Important for research, countermeasure programs, and education campaigns.

Code	Description
01	Marked crosswalk at intersection
02	At intersection but no marked crosswalk
03	Non-intersection crosswalk
04	Driveway access crosswalk
05	In roadway (not in crosswalk or intersection)
06	Sidewalk
07	Median (but not on shoulder)
08	Island
09	Shoulder
10	Roadside e.g. from the outermost property line of the trafficway to the edge of the road
11	Outside trafficway
NN	Not applicable e.g. not a pedestrian, or "dummy" person record created for parked cars

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QQ	Other than the preceding values
UU	Unknown
XX	Jurisdiction does not provide this data element

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Data Element No. : **79**Data Element Name : **Contributing Factor, Pedestrian Action**Variable Name : **P\_CFPA** Format Name : **\$P\_CFPA**Position : **Column 168** Variable Length : **1**

Definition : The potentially dangerous, risky, or improper actions an involved pedestrian was undertaking at the time of the collision that may have contributed to the collision.

Source : Collected

Utility : Important for evaluating the effect of pedestrian behaviour on traffic safety and developing countermeasures.

Code	Description
1	No pedestrian action as contributing factor
2	Improper crossing
3	Darting into roadway
4	In roadway e.g. standing, on knees, lying, etc.
5	Failure to yield right-of-way
6	Not visible e.g. dark clothing
7	Inattentive e.g. talking, eating, etc.
8	Failure to obey traffic control e.g. ignoring signs, signals, officer, etc.
N	Not applicable e.g. not a pedestrian, or "dummy" person record created for parked cars
Q	Other than the preceding values
U	Unknown
X	Jurisdiction does not provide this data element

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Data Element No. : **80**Data Element Name : **Contributing Factor, Pedestrian Condition**Variable Name : **P\_CFPC** Format Name : **\$P\_CFPC.**Position : **Column 169** Variable Length : **1**

Definition : The condition or state of an involved pedestrian that appears directly related to the collision.

Source : Collected

Utility : Important for research and countermeasure programs.

Code	Description
1	No pedestrian condition
2	Fatigued, asleep
3	Distracted, inattentive
4	Suspected use of alcohol
5	Suspected use of illegal drugs
6	Sudden illness, lost consciousness
7	Affected by legal medication
8	Physical disability
N	Not applicable e.g. not a pedestrian, or "dummy" person record created for parked cars
Q	Other than the preceding values
U	Unknown
X	Jurisdiction does not provide this data element

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Data Element No. : **81**

Data Element Name : **Special Study**

Variable Name : **STDY** Format Name : N/A

Position : **Columns 170 - 173** Variable Length : **4**

Definition : This field is reserved for special studies that jurisdictions or Transport Canada may wish to conduct.

Source : Collected

Utility : From time to time, an issue may arise where special information is needed. Jurisdictions can request Transport Canada to issue a directive to all jurisdictions to assist in collecting this special information. Those jurisdictions able to assist will provide the data in this field.

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Data Element No. : **82**

Data Element Name : **Collision Location Geocode**

Variable Name : **C\_GEO** Format Name : N/A

Position : **Columns 174 - 205** Variable Length : **32**

Definition : This field contains a set of coordinates (e.g. longitude and latitude) that identifies the geographic location of the first harmful event of the collision.

Source : Collected

Utility : Used for linking to road inventory databases to obtain more detailed information, and for mapping collision data.

Note : This field may be excluded from the data submission if a jurisdiction does not collect geographic coordinates.

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## Appendix

### Structure of NCDB2

NCDB2 data can be viewed as having three levels: collision level, vehicle level, and person level.

The collision-level segment contains general data about the collision circumstances. This includes information like time and day, weather and light conditions, and collision severity. Collision-level elements should be coded the same for all vehicles and persons involved in a specific collision.

The vehicle-level segment contains data pertaining to a single vehicle involved in the collision. This includes information like vehicle type, vehicle manoeuvre, and vehicle damage. Each involved vehicle will have its own segment. Vehicle-level data elements should be coded the same for all occupants of a specific vehicle.

The person-level segment contains data about a person involved in the collision. This includes information like age, gender, and injury severity. Each involved person will have his or her own segment. (Note that uninjured vehicle occupants may not have a record in the database, depending on how jurisdictions collect data.)

NCDB2 data is stored in a “flat” record format in which each logical record contains all data elements. That is, there is a separate logical record for each person involved in the collision. The collision data is repeated for each logical record, and the vehicle segment is repeated for each person associated with the vehicle.

For example:

Case Number	Vehicle ID	Person ID
10000	01	01
10000	01	02
10000	02	01
10001	01	01

In cases where a person cannot be linked to the vehicle in which they were the passenger or driver, the record will have a V\_ID of UU and all vehicle information will be coded as unknown.

Records of pedestrians will have a V\_ID of 99, and vehicle information will be coded as not applicable.

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## NCDB2 Data Management at Transport Canada

Jurisdictions normally provide collision data in text files that correspond to the data record layout specified in the NCDB2 Data Dictionary. After receiving the data, Transport Canada converts the text files to SAS format, does some validation checks on the data to detect anomalies or errors, resolves the anomalies with the assistance of jurisdictions, and compiles a national database containing all jurisdictions' data for a given calendar year.

Transport Canada adds a variable called Collision ID (C\_ID) to the national database. This variable uniquely identifies a collision across all jurisdictions and all calendar years. It is for internal use and is not part of the NCDB2 Data Dictionary.

A SAS format library containing "labels" gives TC data users the option of attaching text descriptions to data codes when they are running reports from the database.

Historically, the National Collision Database (in all its incarnations) was housed on a mainframe computer. Currently, the database is stored on a network server. Users with appropriate permissions may access it directly from the server or copy subsets to personal computers.