



Killed or Seriously Injured (KSI) Glossary

The Killed and Seriously Injured (KSI) data is a subset dataset from all traffic collision events. The source of the data comes from police reports where an officer attended an event related to a traffic collision. Please note that this dataset does **not** include **all** traffic collision events. The **KSI** data only includes events where a person sustained a major or fatal injury in a traffic collision event. The following definitions relate to the severity of injury used to classify the events in this dataset.

Major Injury: A non-fatal injury that is severe enough to require the injured person to be admitted to hospital, even if only for observation at the time of the collision. Includes: fracture, internal injury, severe cuts, crushing, burns, concussion, severe general shocks.

Fatal: Fatal injury (person sustains bodily injuries resulting in death) only those cases where death occurs in less than 366 days as result of the collision. "Fatal" does not include death from natural causes (heart attack, stroke, epilited seizure, etc.) or suicide.

Note: Other injury types including minor or none are associated to every individual included in the event.

The KSI data includes a record (row) for **every** person involved in the collision event regardless of their level of injury, it includes everyone who was involved in a particular collision event. The field "Index" provides an arbitrary unique identification for every record in the entire dataset. The "ACCNUM" is a unique identification for each traffic collision event. Since the data includes every person involved in a collision event, this identification is duplicated. Please note that this number is not unique and it may repeat year over year. Careful consideration must be made when creating a subset for unique events, as the detailed information provided is for every person involved and its associated role and information may be lost.

For example, the event with ACCNUM=6000607400 has 5 persons involved in the collision (5 records). The field "INVTYPE" indicates the role of the person in the collision event. The "INVAGE" indicates the age range of the person and the "INJURY" type indicates the level of injury they sustained. Therefore, this event can be interpreted in the following way:

1. Passenger 1 age 20 to 24 sustained a fatal injury.
2. Passenger 2 age 15-19 sustained a fatal injury.
3. Passenger 3 age 20 to 24 sustained a major injury
4. Driver age 1 20 to 24 sustained a major injury.
5. Driver 2 age 45 to 49 sustained a major injury.



Synopsis: “IMPACTYPE” indicates this was a rear-end type of collision. “MANOUVER”, “DRIVACT” and “DRIVCON” indicates Driver 2 stopped, was driving properly and in normal condition. However, Driver 1 was changing lanes, sped too fast for conditions and had been drinking.

There are thirteen categories related to the type of event. Each record is flagged with a “Yes” if this collision is considered to fall under this criteria. Definitions for those categories are provided below.

Killed or Seriously Injured (KSI): Traffic collision where a person was killed or seriously injured.

Aggressive Driving: These events include any serious or fatal collision where aggressive driving played a role in the collision. Aggressive Driving events refer to one or more persons operating a motor vehicle who were acting in one or more of the following ways:

- Operating the vehicle at a speed in excess of the maximum posted limit
- Operating the vehicle within the posted limit, but too fast for existing road conditions
- Following too closely
- Disobeying a traffic control
- Failing to yield right-of-way
- Passing improperly

Alcohol: These events include any serious or fatal collision where alcohol consumption played a role in the collision. Alcohol consumption is involved when one or more persons operating a motor vehicle had consumed alcohol and, upon testing, were found to either:

- Have a blood-alcohol level in excess of 80 mg
- Had consumed sufficient alcohol to warrant being charged with a drinking and driving offence.

Automobile: Traffic related collisions involving occupants of an Automobile. It includes motor vehicle with more than three wheels for general use including: cars, station wagons, taxis, passenger vans, delivery vans, pickup trucks, tow trucks, SUVs.

Cyclists: These events include any serious or fatal collision where a cyclist is involved. A cyclist is a person controlling or a passenger on a road vehicle propelled by human power (i.e. pedalling) through a belt, chain or gear. (i.e.) a moped or bicycle.

Emergency Vehicle: These events include any serious or fatal involving an operator or passenger of an emergency vehicle. An emergency vehicle is any vehicle that is designated and authorized to respond to an emergency.



These vehicles are usually operated by designated agencies, often part of the government, but also run by charities, nongovernmental organizations and some commercial companies. Emergency vehicles include the following:

- Police car
- Ambulance
- Fire truck

Motorcyclists: These events include any serious or fatal collision where a motorcyclist is involved. A Motorcyclist is a person operator or a passenger of a self-propelled motor vehicle with not more than three wheels.

Truck: These events include any serious or fatal collision involving an operator or passenger of a truck. A truck is a large motorized vehicle of transport such as the following: open truck, closed truck, tanker truck, dump truck, car carrier or a tractor trailer. The definition of truck does not include the following: delivery van, passenger van, pickup truck, van or an SUV.

Passenger: These events include any serious or fatal collisions where a passenger is involved. A passenger is an occupant of a vehicle who is not in control of said vehicle.

Pedestrian: These events include any serious or fatal collision where a Pedestrian is involved. A pedestrian is a person not occupying a bicycle or motor vehicle and can be doing any of the following:

- Walking
- Sitting
- Lying
- Standing
- Working on a road or place
- Or using a small wheeled device that provides personal mobility such as the following:
 - skateboard
 - skates
 - in-line skates
 - scooter
 - Segway
 - stroller
 - wheelchair

Physical/Medical Disability: These events include any serious or fatal collisions where the operator of the vehicle has a medical or physical disability. Any serious or fatal collision where one or more persons operating a motor vehicle have a medical or physical disability that may or may not have played a factor in the collision.

A medical or physical disability is a condition such as the following:

- Diabetes
- Epilepsy
- Amputee



- Broken bones
- Etc.

Red Light: These events include any serious or fatal collision where red light running played a role in the collision. Red light running is when one or more persons operating a motor vehicle proceeded into a signalized intersection while the signal display indication was red.

Speeding: These events include any serious or fatal collision where speeding played a role in the collision. Speeding is when one or more persons operating a motor vehicle were either: operating the vehicle at a speed in excess of the maximum posted limit or operating the vehicle within the posted limit, but too fast for existing road conditions.

TTC/Municipal Vehicle: These events include any serious or fatal collision involving an operator or passenger of a transit vehicle or streetcar.

Field	Field Name	Description
1	Index	Unique Identifier
2	ACCNUM	Accident Number
3	YEAR	Year Collision Occurred
4	DATE	Date Collision Occurred
5	TIME	Time Collision Occurred
6	HOUR	Hour Collision Occurred
7	STREET1	Street Collision Occurred
8	STREET2	Street Collision Occurred
9	OFFSET	Distance and direction of the Collision
10	ROAD_CLASS	Road Classification
11	District	City District
12	LATITUDE	Latitude
13	LONGITUDE	Longitude
14	LOCCOORD	Location Coordinate
15	ACCLOC	Collision Location
16	TRAFFCTL	Traffic Control Type
17	VISIBILITY	Environment Condition
18	LIGHT	Light Condition
19	RDSFCOND	Road Surface Condition
20	ACCLASS	Classification of Accident
21	IMPACTYPE	Initial Impact Type



22	INVTYPE	Involvement Type
23	INVAGE	Age of Involved Party
24	INJURY	Severity of Injury
25	FATAL_NO	Sequential Number
26	INITDIR	Initial Direction of Travel
27	VEHTYPE	Type of Vehicle
28	MANOEUVER	Vehicle Manouever
29	DRIVACT	Apparent Driver Action
30	DRIVCOND	Driver Condition
31	PEDTYPE	Pedestrian Crash Type - detail
32	PEDACT	Pedestrian Action
33	PEDCOND	Condition of Pedestrian
34	CYCLISTYPE	Cyclist Crash Type - detail
35	CYCACT	Cyclist Action
36	CYCCOND	Cyclist Condition
37	PEDESTRIAN	Pedestrian Involved In Collision
38	CYCLIST	Cyclists Involved in Collision
39	AUTOMOBILE	Driver Involved in Collision
40	MOTORCYCLE	Motorcyclist Involved in Collision
41	TRUCK	Truck Driver Involved in Collision
42	TRSN_CITY_VEH	Transit or City Vehicle Involved in Collision
43	EMERG_VEH	Emergency Vehicle Involved in Collision
44	PASSENGER	Passenger Involved in Collision
45	SPEEDING	Speeding Related Collision
46	AG_DRIV	Aggressive and Distracted Driving Collision
47	REDLIGHT	Red Light Related Collision
48	ALCOHOL	Alcohol Related Collision
49	DISABILITY	Medical or Physical Disability Related Collision
50	Police Division	Police Division
51	City Ward	City Ward
52	City Ward ID	City Ward Identifier
53	Neighbourhood ID	Neighbourhood Identifier
54	Neighbourhood Name	Neighbourhood Name
55	FID	Object ID (Unique Identifier)
56	X	Latitude
57	Y	Longitude