



## 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, epileptic 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	DATE	Date Collision Occurred (time is displayed in UTC format when downloaded as a CSV)
4	TIME	Time Collision Occurred
5	STREET1	Street Collision Occurred
6	STREET2	Street Collision Occurred
7	OFFSET	Distance and direction of the Collision
8	ROAD_CLASS	Road Classification
9	DISTRICT	City District
10	LATITUDE	Latitude
11	LONGITUDE	Longitude
12	ACCLOC	Collision Location
13	TRAFFCTL	Traffic Control Type
14	VISIBILITY	Environment Condition
15	LIGHT	Light Condition
16	RDSFCOND	Road Surface Condition
17	ACCLASS	Classification of Accident
18	IMPACTYPE	Initial Impact Type
19	INVTYPE	Involvement Type
20	INVAGE	Age of Involved Party
21	INJURY	Severity of Injury
22	FATAL_NO	Sequential Number
23	INITDIR	Initial Direction of Travel
24	VEHTYPE	Type of Vehicle
25	MANOEUEVER	Vehicle Manoeuvre
26	DRIVACT	Apparent Driver Action
27	DRIVCOND	Driver Condition



28	PEDTYPE	Pedestrian Crash Type - detail
29	PEDACT	Pedestrian Action
30	PEDCOND	Condition of Pedestrian
31	CYCLISTYPE	Cyclist Crash Type - detail
32	CYCACT	Cyclist Action
33	CYCCOND	Cyclist Condition
34	PEDESTRIAN	Pedestrian Involved In Collision
35	CYCLIST	Cyclists Involved in Collision
36	AUTOMOBILE	Driver Involved in Collision
37	MOTORCYCLE	Motorcyclist Involved in Collision
38	TRUCK	Truck Driver Involved in Collision
39	TRSN_CITY_VEH	Transit or City Vehicle Involved in Collision
40	EMERG_VEH	Emergency Vehicle Involved in Collision
41	PASSENGER	Passenger Involved in Collision
42	SPEEDING	Speeding Related Collision
43	AG_DRIV	Aggressive and Distracted Driving Collision
44	REDLIGHT	Red Light Related Collision
45	ALCOHOL	Alcohol Related Collision
46	DISABILITY	Medical or Physical Disability Related Collision
47	HOOD_158	Unique ID for City of Toronto Neighbourhood (new)
48	NEIGHBOURHOOD_158	City of Toronto Neighbourhood name (new)
49	HOOD_140	Unique ID for City of Toronto Neighbourhood (old)
50	NEIGHBOURHOOD_140	City of Toronto Neighbourhood name (old)
51	DIVISION	Toronto Police Service Division
52	ObjectID	Unique Identifier (auto generated)