Data Guide

Police Service of Northern Ireland (PSNI)

Northern Ireland Police Recorded Injury Road Traffic Collision Data

Variables and Values
and Export Record Layouts

2019

Data Guide

Northern Ireland Road Traffic Collision Data

Contents

Road Traffic Collision Data Changes occurring on 1 April 2010

Introduction

The data is supplied in three files (in CSV format).

2019

1 Collision2019.sav – The circumstances of the collisions - details include the collision severity, number of vehicles and casualties involved, time and location, weather and road conditions, and carriageway hazards;

2 Vehicle2019.sav – Vehicles involved in each collision - details include vehicle type, manoeuvre at time of collision, and data about the driver (age, sex).

3 Casualty2019.sav – Casualties resulting from a collision - details include age, sex, injury severity and whether a driver, passenger, pedestrian or cyclist.

The numeric variable "a_ref" gives a unique index number for each collision. Casualties are linked to vehicles by linking "v_id".

Please call Statistics Branch (028 90 650222 ext 24480) if you need any further details or if you find any problems with the data.

Collision Data

Index Variables		**a_month**	**Month of Collision** 1 – 12. January to December
a_year	**Year of Collision**		
			Time of Day
a_ref	**Collision Reference No.**	**a_hour**	**Hour of Collision** (24 hour)
		a_min	**Minute of Collision**

a_District   **Policing Area**
ANTN = Antrim & Newtownabbey
ARBC = Armagh City, Banbridge & Craigavon
ARND = Ards & North Down
BELC = Belfast City
CCGL= Causeway Coast & Glens
DCST= Derry City & Strabane
FERO= Fermanagh & Omagh
LISC = Lisburn & Castlereagh City
MEAN = Mid & East Antrim
MIDU = Mid Ulster
NEMD = Newry, Mourne & Down

a_type   **Collision Severity**
1. Fatal injury collision
2. Serious injury collision
3. Slight injury collision

a_veh   **Number of Vehicles**

a_cas   **Number of Casualties**

a_wkday   **Weekday of Collision**
"MON", "TUE", "WED", "THU", "FRI", "SAT", "SUN"

a_day   **Day of Collision**

Location of Collision (1 metre OSGR)
a_gd1   **Location - Easting** (6 characters)
a_gd2   **Location - Northing** (6 characters)

a_ctype   **Carriageway Type**
1. Roundabout
2. One way street
10. Other / unknown
11. Dual carriageway
12. Motorway
13. Single carriageway
14. Slip road

a_speed   **Speed Limit**

a_jdet   **Junction Detail**
1. Not at or within 20m of junction
2. Roundabout
3. Mini-roundabout
6. Crossroads
8. Multiple junction
9. Slip road
10. Private drive / entrance
11. Other junction
12. T or staggered junction

a_jcont   **Junction Control**
1. Not at junction
2. Authorised person
3. Automatic traffic signal
4. Stop sign
7. Give way or uncontrolled

a_pedhum   **Pedestrian Crossing – Human Control**
1. None within 50m
2. Control by school crossing patrol
3. Control by other authorised person

a_pedphys   **Pedestrian Crossing – Physical Control**
1. None within 50 metres
2. Zebra crossing
9. Central refuge - no control
10. Footbridge or subway
11. Pedestrian phase at traffic signal junction
12. Non junction pedestrian light crossing

a_light   **Light Conditions**
1. Daylight: street lights present
2. Daylight: no street lighting
3. Daylight: street lighting unknown
4. Darkness: street lights present and lit
5. Darkness: street lights present but unlit
6. Darkness: no street lighting
7. Darkness: street lighting unknown

a_weat   **Weather Conditions**
1. Fine without high winds
2. Raining without high winds
3. Snowing without high winds
4. Fine with high winds
5. Raining with high winds
6. Snowing with high winds
7. Fog or mist - if hazard
8. Strong sun (glaring)
9. Other
10. Unknown

a_roadsc   **Road Surface Conditions**
1. Dry
2. Wet / damp
3. Snow
4. Frost / ice
5. Flood
6. Oil
7. Mud
8. Leaves
9. Slippery (after dry spell)
10. Other

a_speccs   **Special Conditions at Site**
1. None
2. Automatic traffic signal out
3. Automatic traffic signal partially defective
4. Permanent road signing defective or obscured
5. Road works present
6. Road surface defective
7. Railway level crossing present

a_chaz   **Carriageway Hazard**
1. None
2. Dislodged vehicle load in carriageway
3. Other object in carriageway
4. Involvement with previous collision
8. Any animal in carriageway except ridden horse
9. Pedestrian in carriageway - not injured

a_scene   **Did a Police Officer Attend the Scene of the Collision**
1. Yes
2. No

Variables and Values

Vehicle Data

Index Variables

a_year   **Year of Collision**

a_ref   **Collision Reference No.**

v_id   **Vehicle Reference No.**

v_type   **Vehicle Type**
0. Unknown
1. Pedal cycle
2. Motorcycle - moped
4. Motorcycle (under 125cc)
5. Motorcycle (125cc and above)
6. Invalid vehicle / other 3 wheeler
7. Car - taxi (hackney)
8. Car
9. Motor caravan
14. Other motor vehicle
15. Goods 3.5 tonnes or less
16. Goods exceeding 3.5 tonnes but less than 7.5 tonnes
17. Goods 7.5 tonnes or over
18. Car (used as taxi)
19. Minibus (8-16 passengers)
20. Bus or coach (17+ passengers)
21. Ridden horse
22. Other non motor vehicle
23. Motorcycle (engine size unknown)
24. Goods vehicle (gross weight unknown)
25. Agricultural vehicle

v_tow   **Towing and Articulation**
1. No towing / articulation
2. Articulated vehicle
3. Double / multiple trailer
4. Caravan
5. Single trailer
6. Other tow

v_man   **Vehicle Manoeuvre**
1. Reversing
2. Parked
3. About to go ahead - held up
4. Slowing / stopping
5. Moving off
6. U-turn
7. Turning left
8. Waiting to turn left
9. Turning right
10. Waiting to turn right
11. Changing lane to left
12. Changing lane to right
13. Overtaking moving vehicle on offside
14. Overtaking stationary vehicle on offside
15. Overtaking on nearside
16. Going ahead left-hand bend
17. Going ahead right-hand bend
18. Going ahead other
19. Other / not known

v_loc   **Vehicle Location at Time of Impact**
1. Leaving main road
2. Entering main road
3. On main road
4. On minor road
6. On lay-by or hard shoulder
7. Entering lay-by / hard shoulder
8. Leaving lay-by / hard shoulder
9. On cycle lane / cycle way
10. Pedestrian and vehicle shared precinct
11. Other public place
12. Bus lane / busway
13. Footpath (pavement)

v_junc   **Junction Location of Vehicle at Time of Impact**
1. Not at junction (or within 20m)
2. Approaching / waiting / parked at junction
3. Vehicle in middle junction
4. Cleared junction or waiting / parked at exit
5. Did not impact
6. Entering slip road
7. Exiting slip road

v_skid   **Skidding / Overturning**
1. No skidding / jack-knifing / overturning
2. Skidded
3. Skidded and overturned
4. Jack-knifed
5. Jack-knifed and overturned
6. Overturned

v_hit   **First Object Hit in Carriageway**
1. None
2. Previous collision
3. Roadworks
6. Bridge (roof)
7. Bridge side
8. Bollard / refuge
9. Open door of vehicle
10. Central island of roundabout
11. Kerb
13. Other object
14. Any animal except ridden horse
15. Parked vehicle

v_leave   **Vehicle Leaving Carriageway**
1. Did not leave carriageway
2. Nearside
3. Nearside and rebounded
4. Straight ahead at junction
5. Offside onto central reservation
6. Offside onto central reservation and rebounded
7. Crossed central reservation
8. Offside
9. Offside and rebounded

v_hitoff   **First Object Hit off Carriageway**
1. None
2. Road sign / traffic signal
3. Lamp post
4.Telegraph / electricity pole
5. Tree / fence / other boundary
6. Bus stop / shelter
7. Central crash barrier
8. Nearside / offside crash barrier
9. Submerged in water
10. Entered ditch
11. Other permanent object

v_impact   **First Point of Impact**
1. Did not impact
2. Front
3. Back
4. Offside
5. Nearside

v_sex   **Sex of Driver**
1. Male
2. Female
3. Unknown

v_agegroup   **Age of Driver**
1. Under 10
2. 10-16
3. 17-24
4. 25-34
5. 35-44
6. 45-54
7. 55-64
8. 65+
9. Unknown

v_hitr   **Hit and Run**
1. Other
2. Hit and run
3. Non-stop vehicle - not hit

Foreign Registered Vehicle
v_forreg   1. Not foreign registered vehicle
2. Foreign registered vehicle – left hand drive
3. Foreign registered vehicle – right hand drive
4. Foreign registered vehicle – two wheeler

Variables and Values

Casualty Data

Index Variables

a_year   **Year of Collision**

a_ref   **Collision Reference No.**

v_id   **Vehicle Reference No.**

c_id   **Casualty Reference No.**

c_class   **Casualty Class**
1. Driver
2. Pillion passenger
3. Vehicle passenger - front
4. Vehicle passenger - rear
5. Pedestrian
6. Motorcyclist
7. Pedal cyclist

c_sex   **Sex of Casualty**
1. Male
2. Female
3. Unknown

c_agegroup   **Age of Casualty**
1. 'Under 10'
2. '10-16'
3. '17-24'
4. '25-34'
5. '35-44'
6. '45-54'
7. '55-64'
8. '65+'
9. 'Unknown'

c_sever   **Severity of Casualty**
1. Fatal
2. Seriously injured
3. Slightly injured

c_loc   **Pedestrian Location**
1. Not a pedestrian
2. In carriageway on pedestrian crossing
3. In carriageway crossing within zigzag lines at crossing approach
4. In carriageway crossing within zigzag lines at crossing exit
5. In carriageway crossing elsewhere within 50m of crossing
6. In carriageway crossing elsewhere
7. On footway or verge
8. On refuge, central island or central reservation
9. In centre of carriageway
10. In carriageway, not crossing
11. Unknown or other

c_move   **Pedestrian Movement**
1. Not a pedestrian
2. Crossing from drivers nearside
3. Crossing from drivers nearside masked by static vehicle
4. Crossing from drivers offside
5. Crossing from drivers offside masked by static vehicle
6. In carriageway stationary - not crossing
7. In carriageway stationary - not crossing – masked by vehicle
8. Walking in carriageway facing traffic
9. Walking in carriageway back to traffic
10. Unknown / other

c_school   **School Pupil**
7. School pupil on journey to / from school
8. Other

c_pcv   **Bus or Coach Passenger**
1. Not a bus or coach passenger
2. Boarding
3. Alighting
4. Standing passenger
5. Seated passenger

c_pedinj   **Pedestrian Injured in the Course of 'On the Road' Work**
1. Yes
2. No
3. Not known

c_vtype   **Casualty Vehicle Type**
1. Pedal cycle
2. Motorcycle - moped
4. Motorcycle (under 125cc)
5. Motorcycle (125cc and above)
6. Invalid vehicle / other 3 wheeler
7. Car - taxi (hackney)
8. Car
9. Motor caravan
14. Other motor vehicle
15. Goods 3.5 tonnes or less
16. Goods exceeding 3.5 tonnes but less than 7.5 tonnes
17. Goods 7.5 tonnes or over
18. Car (used as taxi)
19. Minibus (8-16 passengers)
20. Bus or coach (17+ passengers)
21. Ridden horse
22. Other non motor vehicle
23. Motorcycle (engine size unknown)
24. Goods vehicle (gross weight unknown)
25. Agricultural vehicle

2019 Record Layout

Collision Records

Variable	Character Position	Integer / Alpha	Variable Label
a_year	1 – 4	(I)	Year of Collision
a_ref	5 – 8	(A)	Collision Reference No.
a_District*	9 – 12	(A)	Policing District
a_type	13	(I)	Collision Severity
a_veh	14 – 16	(I)	Number of Vehicles
a_cas	17 – 19	(I)	Number of Casualties
a_wkday	20 – 22	(A)	Weekday of Collision
a_day	23 – 24	(I)	Day of Collision
a_month	25 – 26	(I)	Month of Collision
a_hour	27 – 28	(I)	Hour of Collision (24 hour)
a_min	29 – 30	(I)	Minute of Collision
a_gd1	31 – 36	(I)	Location - Easting
a_gd2	37 – 42	(I)	Location - Northing
a_ctype	43 – 44	(I)	Carriageway Type
a_speed	45 – 46	(I)	Speed Limit
a_jdet	47 – 48	(I)	Junction Detail
a_jcont	49	(I)	Junction Control
a_pedhum	50	(I)	Pedestrian Crossing – Human Control
a_pedphys	51 – 52	(I)	Pedestrian Crossing – Physical Control
a_light	53	(I)	Light Conditions
a_weat	54 – 55	(I)	Weather Conditions
a_roadsc	56 – 57	(I)	Road Surface Conditions
a_speccs	58	(I)	Special Conditions at Site
a_chaz	59	(I)	Carriageway Hazard
a_scene	60	(I)	Did a Police Officer Attend the Scene of the Collision

* Please note from 1st April 2015 that the 26 District Councils in Northern Ireland were changed into 11 Local Government Districts. The Police District Command Units were also changed to align themselves to the new 11 Council Areas and as a result the 2016 collisions are collated using this geography.

2019 Record Layout

Vehicle Records

Variable	Character Position	Integer / Alpha	Variable Label
a_year	1 – 4	(I)	Year of Collision
a_ref	5 – 8	(A)	Collision Reference No.
v_id	9 – 10	(I)	Vehicle Reference No.
v_type	11 – 12	(I)	Vehicle Type
v_tow	13	(I)	Towing and Articulation
v_man	14 – 15	(I)	Vehicle Manoeuvre
v_loc	16 – 17	(I)	Vehicle Location at Time of Impact
v_junc	18	(I)	Junction Location of Vehicle at Time of Impact
v_skid	19	(I)	Skidding / Overturning
v_hit	20 – 21	(I)	First Object Hit in Carriageway
v_leave	22	(I)	Vehicle Leaving Carriageway
v_hitoff	23 – 24	(I)	First Object Hit off Carriageway
v_impact	25	(I)	First Point of Impact
v_sex	26	(I)	Sex of Driver
v_age/ v_agegroup*	27 – 29	(I)	Age group of Driver
v_hitr	30	(I)	Hit and Run
v_forreg	31	(I)	Foreign Registered Vehicle

* Data provided from 2011 has changed the casualty age and driver variable from individual age to an age group.

v_age has been changed to v_agegroup
1. Under 10
2. 10-16
3. 17-24
4. 25-34
5. 35-44
6. 45-54
7. 55-64
8. 65+
9. Unknown

2019 Record Layout

Casualty Records

Variable	Character Position	Integer / Alpha	Variable Label
a_year	1 – 4	(I)	Year of Collision
a_ref	5 – 8	(A)	Collision Reference No.
v_id	9 – 10	(I)	Vehicle Reference No.
c_id	11 – 12	(I)	Casualty Reference No.
c_class	13	(I)	Casualty Class
c_sex	14	(I)	Sex of Casualty
c_age/c_agegroup*	15 – 17	(I)	Age Group of Casualty
c_sever	18	(I)	Severity of Casualty
c_loc	19 – 20	(I)	Pedestrian Location
c_move	21 – 22	(I)	Pedestrian Movement
c_school	23	(I)	School Pupil
c_pcv	24	(I)	Bus or Coach Passenger
c_pedinj	25	(I)	Pedestrian Injured in the Course of 'On the Road' Work
c_vtype	26 – 27	(I)	Casualty Vehicle Type

* Data provided from 2011 has changed the casualty age and driver variable from individual age to an age group.

c_age has been changed to c_agegroup
1. Under 10
2. 10-16
3. 17-24
4. 25-34
5. 35-44
6. 45-54
7. 55-64
8. 65+
9. Unknown

Road Traffic Collision Data Changes occurring on 1 April 2010

Recording of variables

The Collision Report Form (CRF) changed on 1 April 2010. The following variables are recorded for fatal and serious injury collisions only –

Collision Records

a_jdet	Junction Detail
a_jcont	Junction Control
a_pedphys	Pedestrian Crossing Facilities - Physical
a_pedhum	Pedestrian Crossing Facilities - Human
a_light	Light Conditions
a_weat	Weather Conditions
a_roadsc	Road Surface Conditions
a_speccs	Special Conditions at Site
a_chaz	Carriageway Hazard
a_scene	Did a Police Officer Attend the Scene of the Collision

Casualty Records

c_loc	Pedestrian Location
c_move	Pedestrian Movement
c_pcv	Bus or Coach Passenger
c_pedinj	Pedestrian casualty injured in the course of on the road work

Vehicle Records

v_junc	Junction Location of Vehicle at Time of Impact
v_skid	Skidding / Overturning
v_hit	First Object Hit in Carriageway
v_leave	Vehicle Leaving Carriageway
v_hitoff	First Object Hit off Carriageway
v_forreg	Foreign Registered Vehicle

From 2014 onwards, the datafiles changed the reference number from a 15 character length string to a 4 digit numeric sequential reference number.