

Data Guide

Police Service of Northern Ireland (PSNI)

## **Northern Ireland Police Recorded Injury Road Traffic Collision Data**

**Variables and Values  
and Export Record Layouts**

2023

## **Data Guide**

### **Northern Ireland Road Traffic Collision Data**

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## **Introduction**

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

2023

- 1 Collision2023.csv – 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 Vehicle2023.csv – Vehicles involved in each collision - details include vehicle type, manoeuvre at time of collision, and data about the driver (age, sex).
- 3 Casualty2023.csv – 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 24135) if you need any further details or if you find any problems with the data.

## Variables and Values

		<b>Collision Data</b>	
	<b>Index Variables</b>		
a_year	<b>Year of Collision</b>	a_month	<b>Month of Collision</b> 1 – 12. January to December
a_ref	<b>Collision Reference No.</b>	a_hour a_min	<b>Time of Day</b> <b>Hour of Collision</b> (24 hour) <b>Minute of Collision</b>
a_District	<b>Policing Area</b> 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_gd1 a_gd2	<b>Location of Collision</b> (1 metre OSGR) <b>Location - Easting</b> (6 characters) <b>Location - Northing</b> (6 characters)
a_type	<b>Collision Severity</b> 1. Fatal injury collision 2. Serious injury collision 3. Slight injury collision	a_ctype	<b>Carriageway Type</b> 1. Roundabout 2. One way street 10. Other / unknown 11. Dual carriageway 12. Motorway 13. Single carriageway 14. Slip road
a_veh	<b>Number of Vehicles</b>	a_speed	<b>Speed Limit</b>
a_cas	<b>Number of Casualties</b>	a_jdet	<b>Junction Detail</b> 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_wkday	<b>Weekday of Collision</b> “MON”, “TUE”, “WED”, “THU”, “FRI”, “SAT”, “SUN”		
a_day	<b>Day of Collision</b>		

<b>a_jcont</b>	<b>Junction Control</b> 1. Not at junction 2. Authorised person 3. Automatic traffic signal 4. Stop sign 7. Give way or uncontrolled	<b>a_roadsc</b>	<b>Road Surface Conditions</b> 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
<b>a_pedhum</b>	<b>Pedestrian Crossing – Human Control</b> 1. None within 50m 2. Control by school crossing patrol 3. Control by other authorised person		
<b>a_pedphys</b>	<b>Pedestrian Crossing – Physical Control</b> 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	<b>a_speccs</b>	<b>Special Conditions at Site</b> 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
<b>a_light</b>	<b>Light Conditions</b> 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	<b>a_chaz</b>	<b>Carriageway Hazard</b> 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
<b>a_weat</b>	<b>Weather Conditions</b> 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	<b>a_scene</b>	<b>Did a Police Officer Attend the Scene of the Collision</b> 1. Yes 2. No

## Variables and Values

### Vehicle Data

	<b>Index Variables</b>	<b>v_man</b>	<b>Vehicle Manoeuvre</b>
<b>a_year</b>	<b>Year of Collision</b>		
<b>a_ref</b>	<b>Collision Reference No.</b>		
<b>v_id</b>	<b>Vehicle Reference No.</b>		
<hr/>			
<b>v_type</b>	<b>Vehicle Type</b> 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		
	<b>Towing and Articulation</b> 1. No towing / articulation 2. Articulated vehicle 3. Double / multiple trailer 4. Caravan 5. Single trailer 6. Other tow	<b>v_loc</b>	<b>Vehicle Location at Time of Impact</b> 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)

<b>v_junc</b>	<b>Junction Location of Vehicle at Time of Impact</b> 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	<b>v_hitoff</b>	<b>First Object Hit off Carriageway</b> 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. Nearsid e / offside crash barrier 9. Submerged in water 10. Entered ditch 11. Other permanent object
<b>v_skid</b>	<b>Skidding / Overturning</b> 1. No skidding / jack-knifing / overturning 2. Skidded 3. Skidded and overturned 4. Jack-knifed 5. Jack-knifed and overturned 6. Overturned	<b>v_impact</b>	<b>First Point of Impact</b> 1. Did not impact 2. Front 3. Back 4. Offside 5. Nearsid e
<b>v_hit</b>	<b>First Object Hit in Carriageway</b> 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	<b>v_sex</b>	<b>Sex of Driver</b> 1. Male 2. Female 3. Unknown
<b>v_leave</b>	<b>Vehicle Leaving Carriageway</b> 1. Did not leave carriageway 2. Nearsid e 3. Nearsid e 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	<b>v_agegroup</b>	<b>Age of Driver</b> 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
		<b>v_hitr</b>	<b>Hit and Run</b> 1. Other 2. Hit and run 3. Non-stop vehicle - not hit
		<b>v_forreg</b>	<b>Foreign Registered Vehicle</b> 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

	<b>Index Variables</b>		
a_year	<b>Year of Collision</b>	c_loc	<b>Pedestrian Location</b>
a_ref	<b>Collision Reference No.</b>		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
v_id	<b>Vehicle Reference No.</b>	c_move	<b>Pedestrian Movement</b>
c_id	<b>Casualty Reference No.</b>		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_class	<b>Casualty Class</b> 1. Driver 2. Pillion passenger 3. Vehicle passenger - front 4. Vehicle passenger - rear 5. Pedestrian 6. Motorcyclist 7. Pedal cyclist	c_school	<b>School Pupil</b> 7. School pupil on journey to / from school 8. Other
c_sex	<b>Sex of Casualty</b> 1. Male 2. Female 3. Unknown	c_pcv	<b>Bus or Coach Passenger</b> 1. Not a bus or coach passenger 2. Boarding 3. Alighting 4. Standing passenger 5. Seated passenger
c_agegroup	<b>Age of Casualty</b> 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	<b>Severity of Casualty</b> 1. Fatal 2. Seriously injured 3. Slightly injured		

**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

## 2023 Record Layout

### Collision Records

Variable	Character Position	Integer / Alpha	Variable Label
a_year	1 – 4	(I)	Year of Collision
a_ref	5 – 8	(I)	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 1<sup>st</sup> 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 2023 collisions are collated using this geography.

## 2023 Record Layout

### Vehicle Records

Variable	Character Position	Integer / Alpha	Variable Label
a_year	1 – 4	(I)	Year of Collision
a_ref	5 – 8	(I)	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

## 2023 Record Layout

### Casualty Records

Variable	Character Position	Integer / Alpha	Variable Label
a_year	1 – 4	(I)	Year of Collision
a_ref	5 – 8	(I)	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.