

Police Service of Northern Ireland (PSNI)

Northern Ireland Police Recorded Injury Road Traffic Collision Data

Variables and Values and Export Record Layouts

2021

Data Guide

Northern Ireland Road Traffic Collision Data

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Introduction

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

2021

- 1 Collision2021.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 Vehicle2021.csv – Vehicles involved in each collision - details include vehicle type, manoeuvre at time of collision, and data about the driver (age, sex).
- 3 Casualty2021.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 24861) if you need any further details or if you find any problems with the data.

Variables and Values

Collision Data

	Index Variables		a_month	Month of Collision 1 – 12. January to December
a_year	Year of Collision			
a_ref	Collision Reference No.		a_hour	Time of Day 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_gd1	Location of Collision (1 metre OSGR) 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_type	Collision Severity 1. Fatal injury collision 2. Serious injury collision 3. Slight injury collision		a_speed	Speed Limit
a_veh	Number of Vehicles		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_cas	Number of Casualties			
a_wkday	Weekday of Collision "MON", "TUE", "WED", "THU", "FRI", "SAT", "SUN"			
a_day	Day of Collision			

a_jcont	Junction Control 1. Not at junction 2. Authorised person 3. Automatic traffic signal 4. Stop sign 7. Give way or uncontrolled	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_pedhum	Pedestrian Crossing – Human Control 1. None within 50m 2. Control by school crossing patrol 3. Control by other authorised person	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_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_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_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_scene	Did a Police Officer Attend the Scene of the Collision 1. Yes 2. No
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		

Variables and Values

Vehicle Data

	Index Variables	v_man	Vehicle Manoeuvre
a_year	Year of Collision		1. Reversing
a_ref	Collision Reference No.		2. Parked
v_id	Vehicle Reference No.		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
v_type	Vehicle Type		10. Waiting to turn right
	0. Unknown		11. Changing lane to left
	1. Pedal cycle		12. Changing lane to right
	2. Motorcycle - moped		13. Overtaking moving vehicle on offside
	4. Motorcycle (under 125cc)		14. Overtaking stationary vehicle on offside
	5. Motorcycle (125cc and above)		15. Overtaking on nearside
	6. Invalid vehicle / other 3 wheeler		16. Going ahead left-hand bend
	7. Car - taxi (hackney)		17. Going ahead right-hand bend
	8. Car		18. Going ahead other
	9. Motor caravan		19. Other / not known
	14. Other motor vehicle		
	15. Goods 3.5 tonnes or less	v_loc	Vehicle Location at Time of Impact
	16. Goods exceeding 3.5 tonnes but less than 7.5 tonnes		1. Leaving main road
	17. Goods 7.5 tonnes or over		2. Entering main road
	18. Car (used as taxi)		3. On main road
	19. Minibus (8-16 passengers)		4. On minor road
	20. Bus or coach (17+ passengers)		6. On lay-by or hard shoulder
	21. Ridden horse		7. Entering lay-by / hard shoulder
	22. Other non motor vehicle		8. Leaving lay-by / hard shoulder
	23. Motorcycle (engine size unknown)		9. On cycle lane / cycle way
	24. Goods vehicle (gross weight unknown)		10. Pedestrian and vehicle shared precinct
	25. Agricultural vehicle		11. Other public place
v_tow	Towing and Articulation		12. Bus lane / busway
	1. No towing / articulation		13. Footpath (pavement)
	2. Articulated vehicle		
	3. Double / multiple trailer		
	4. Caravan		
	5. Single trailer		
	6. Other tow		

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

v_forreg **Foreign Registered Vehicle**
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	c_loc	Pedestrian Location
a_year	Year of Collision		1. Not a pedestrian
a_ref	Collision Reference No.		2. In carriageway on pedestrian crossing
v_id	Vehicle Reference No.		3. In carriageway crossing within zigzag lines at crossing approach
c_id	Casualty Reference No.		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_class	Casualty Class	c_move	Pedestrian Movement
	1. Driver		1. Not a pedestrian
	2. Pillion passenger		2. Crossing from drivers nearside
	3. Vehicle passenger - front		3. Crossing from drivers nearside masked by static vehicle
	4. Vehicle passenger - rear		4. Crossing from drivers offside
	5. Pedestrian		5. Crossing from drivers offside masked by static vehicle
	6. Motorcyclist		6. In carriageway stationary - not crossing
	7. Pedal cyclist		7. In carriageway stationary - not crossing – masked by vehicle
c_sex	Sex of Casualty		8. Walking in carriageway facing traffic
	1. Male		9. Walking in carriageway back to traffic
	2. Female		10. Unknown / other
	3. Unknown		
c_agegroup	Age of Casualty	c_school	School Pupil
	1. 'Under 10'		7. School pupil on journey to / from school
	2. '10-16'		8. Other
	3. '17-24'		
	4. '25-34'	c_pcv	Bus or Coach Passenger
	5. '35-44'		1. Not a bus or coach passenger
	6. '45-54'		2. Boarding
	7. '55-64'		3. Alighting
	8. '65+'		4. Standing passenger
	9. 'Unknown'		5. Seated passenger
c_sever	Severity of Casualty		
	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

2021 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 2021 collisions are collated using this geography.

2021 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

2021 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.