







Draft Recommended crash-related minimum data set and data sources

			Data	source	s					
			Prefe	rence (order (1= bes	t to 6=	least	oreferr	ed)
	Crash related indicators		Death certificate	Hospital record	Police report	Insurance report	Driver license	Vehicle registry	Road Inventory	National ID
1	Crash identification number	Definition: The unique identifier (e.g. a 10-digit number) within a given year that identifies a particular crash. Obligation: Mandatory Data type: Numeric or character string or alpha numeric Comments: the police usually assign this value, as they are responsible at the crash scene. Other systems may reference the incident using this number.	5	4	6	N/A	N/A	N/A	N/A	N/A
2	Crash date	Definition: The date (day, month and year), on which the crash occurred. Obligation: Mandatory Data type: Numeric (DDMMYYYY) Comments: If a part of the crash date is unknown, the respective places are filled in with 99 (for day and month). Absence of year should result in an edit check. Important for seasonal comparisons, time series analyses, management/ administration, evaluation and linkage.								
3	Crash time	Definition: The time at which the crash occurred, using the 24 hour-clock format (00.00-23:59). Obligation: Mandatory Data type: Numeric (HH:MM)								









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		Comments: Midnight is defined as 00:00 and represents the beginning of a new day. Variable allows for analyses of different time periods.								
4	Crash location	Crash location Definition: The exact location at which the crash occurred. Optimum definition is route name and GPS/GIS coordinates if there is a linear referencing system (LRS), or other mechanism that can relate geographic coordinates to specific locations in road inventory and other files. The minimum requirement for documentation of crash location is the street name, the reference point, and distance from reference point and direction from reference point. Obligation: Mandatory Data type: Character string, to support latitude/longitude coordinates, linear referencing method, or link node system. Comments: Critical for problem identification, prevention programs, engineering evaluations, and mapping and linkage purposes.								
5	Crash type	Crash type Definition: The crash type is characterized by the first injury or damage-producing event of the crash. Obligation: Mandatory Data type: Numeric Data values: 1 Crash with pedestrian: Crash between a vehicle and at least one pedestrian.								









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	2 Crash with parked vehicle: Crash between a moving vehicle and a parked vehicle. A vehicle with a driver that is just stopped is not considered as parked. 3 Crash with fixed obstacle: Crash with a stationary object (i.e. tree, post, barrier, fence, etc.). 4 Non-fixed obstacle: Crash with a non-fixed object or lost load. 5 Animal: Crash between a moving vehicle and an animal. 6 Single vehicle crash/non-collision: Crash in which only one vehicle is involved and no object was hit. Includes vehicle leaving the road, vehicle rollover, cyclists falling etc. 7 Crash with two or more vehicles: Crashes where two or more moving vehicles are involved. 8 Crash with other non-motorized transport (NMT): Crash involving a motor vehicle and a non-motorized transport/vehicle. (i.e. bicycles, rickshaw, hand carts) 9 Crash involving mass public transport vehicle: Crash involving mass public transport (i.e. bus, coaches, trolley bus, mini bus, jeepney) 10 Other crashes: Other crash type not described above. Comments: If the road crash includes more than one event, the first should be recorded, through this variable. If more than one value is applicable, select only the one that corresponds best to the first event.								









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		Important for understanding crash causation, identifying crash avoidance countermeasures.								
6	Impact type	Impact type Definition: Indicates the manner in which the road motor vehicles involved initially collided with each other. The variable refers to the first impact of the crash, if that impact was between two road motor vehicles. Obligation: Mandatory Data type: Numeric Data values: 1 No impact between motor vehicles: There was no impact between road motor vehicles. Refers to single vehicle crashes, collisions with pedestrians, animals or objects. 2 Rear end impact: The front side of the first vehicle collided with the rear side of the second vehicle. 3 Head on impact: The front sides of both vehicles collided with each other. 4 Angle impact – same direction: Angle impact where the front of the first vehicle collides with the side of the second vehicle. 5 Angle impact – opposite direction: Angle impact where the front of the first vehicle collides with the side of the second vehicle.								









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		6 Angle impact – right angle: Angle impact where the front of the first vehicle collides with the side of the second vehicle. 7 Angle impact – direction not specified: Angle impact where the front of the first vehicle collides with the side of the second vehicle. 8 Side by side impact – same direction: The vehicles collided side by side while travelling in the same direction. 9 Side by side impact – opposite direction: The vehicles collided side by side while travelling in opposite directions. 10 Rear to side impact: The rear end of the first vehicle collided with the side of the second vehicle. 11 Rear to rear impact: The rear ends of both vehicles collided with each other. 12 Overhead impact: Crash involving a vehicle overshooting an elevated roadway such as a bridge, skyway, ridge etc Comments: Useful for identifying structural defects in vehicles.								
7	Weather conditions	Weather conditions Definition: Prevailing atmospheric conditions at the crash location, at the time of the crash. Obligation: Mandatory Data type: Numeric								









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		Data values: 1 Clear (No hindrance from weather, neither condensation nor intense movement of air. Clear and cloudy sky included) 2 Rain (heavy or light) 3 Snow 4 Fog, mist or smoke 5 Sleet, hail 6 Severe winds (Presence of winds deemed to have an adverse effect on driving conditions) 8 Other weather condition 9 Unknown weather condition Comments: Allows for the identification of the impact of weather conditions on road safety. Important for engineering evaluations and prevention programs.								
8	Light conditions	Light conditions Definition: The level of natural and artificial light at the crash location, at the time of the crash. Obligation: Mandatory Data type: Numeric Data values: 1Daylight: Natural lighting during daytime. 2 Twilight: Natural lighting during dusk or dawn. Residual category covering cases where daylight conditions were very poor. 3 Darkness: No natural lighting, no artificial lighting 4 Dark with streetlights unlit: Streetlights exist at the crash location but are unlit.								









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	Crash related indicators		Death certificate	Hospital record	Police report	Insurance report	Driver license	Vehicle registry	Road Inventory	National ID	
		 5 Dark with streetlights lit: Streetlights exist at the crash location and are lit. 6 Dark with streetlights unknown if lit or unlit: Streetlights exist at the crash location, but it is unknown if they are lit or unlit. 9 Unknown: Light conditions at time of crash unknown Comments: Information about the presence of lighting is an important element in analysis of spot location or in network analysis. Additionally, important for determining the effects of road illumination on nighttime crashes to guide relevant future measures. 									
9	Crash severity	Crash severity Definition: Describes the severity of the road crash, based on the most severe injury of any person involved. Obligation: Mandatory Data type: Numeric Data values: 1 Fatal: At least one person was killed immediately or died within 30 days because of the road crash. 2 Serious/severe injury: At least one person was hospitalized for at least 24 hours because of injuries sustained in the crash, while no one was killed. Mini Cadas proposes MAIS3+1 3 Permanent/ temporary loss of limb/organ: resulting in temporary or permanent loss in the use of									

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¹ MAIS3+ is the Abbreviated Injury Scale (AIS) severity score applied in the UK. It is an ordinal scale of 1 to 6 (1 indicating a minor injury and 6 being maximal). A casualty that sustains an injury with a score of 3 or higher on the AIS is classified as clinically seriously injured (MAIS3+).









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	a limb and or loss/amputation of a limb; loss of an eyesight or loss of mobility/paralyzed of the injured person. 4 Slight/minor injury: At least one of the participants of the crash was hospitalized less than 24 hours or not hospitalized, while no participant was seriously injured or killed. 5 No injury: Person was not injured. 6 Unknown: Injury severity was not recorded or is unknown Comments: Provides a quick reference to the crash severity, summarizing the data given by the individual personal injury records of the crash. Facilitates analysis by crash severity level. Several crash-related variables can be derived from collected data, including number of vehicles involved (total), number of motorized vehicles involved, number of non-motorized vehicles involved, number of fatalities, number of non-fatal injuries, day of week, and more. These variables provide counts or other information without the user having to go back to individual records. Depending on the type of reports generated, deriving these data elements can save time and effort.								









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	Road related indicators									
10	Type of road way	Type of roadway Definition: Describes the type of road, whether the road has two directions of travel, and whether the carriageway is physically divided. For crashes occurring at junctions, where the crash cannot be clearly allocated in one road, the road where the vehicle with priority was moving is indicated. Obligation: Mandatory Data type: Numeric Data values: 1 Motorway/freeway: Road with separate carriageways for traffic in two directions, physically separated by a dividing strip not intended for traffic. Road has no crossings at the same level with any other road, railway or tramway track, or footpath. Specially sign-posted as a motorway and reserved for specified categories of motor vehicles. 2 Express road: Road with traffic in two directions, carriageways not normally separated. Accessible only from interchanges or controlled junctions. Specially sign-posted as an express road and reserved for specified categories of motor vehicles. Stopping and parking on the running carriageway are prohibited. 3 Urban road, two-way: Road within the boundaries of a built-up area (an area with sign-posted entries and exits). Single, undivided street with traffic in two								









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		directions, relatively lower speeds, unrestricted traffic, with one or more lanes, which may or may not be marked. 4 Urban road, one-way: Road within the boundaries of a built-up area, with entries and exits sign-posted as such. A single, undivided street with traffic in one direction, relatively lower speeds. 5 Road outside a built-up area: Road outside the boundaries of a built-up area (an area with sign-posted entries and exits). 6 Restricted road: A roadway with restricted access to public traffic. Includes cul-de- sacs, driveways, lanes, private roads. 8 Other: Roadway of a type other than those listed above. 9 Unknown: Not known where the incident occurred. Comments: Important for comparing crash rates of roads with similar design characteristics, and for conducting comparative analyses between motorway and non-motorway roads.								
11	Road functional class	Road functional class Definition: Describes the character of service or function of the road where the first harmful event took place. For crashes occurring at junctions, where the								









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	crash cannot be clearly allocated in one road, the road where the vehicle with priority was moving is indicated. Obligation: Mandatory Data type: Numeric Data values: 1 Principal arterial: Roads serving long distance and mainly interurban movements. Includes motorways (urban or rural) and express roads. Principal arterials may cross through urban areas, serving suburban movements. The traffic is characterized by high speeds and full or partial access control (interchanges or junctions controlled by traffic lights). Other roads leading to a principal arterial are connected to it through side collector roads. 2 Secondary arterial: Arterial roads connected to principal arterials through interchanges or traffic light controlled junctions supporting and completing the urban arterial network. Serving middle distance movements but not crossing through neighborhoods. Full or partial access control is not mandatory. 3 Collector: Unlike arterials, collectors cross-urban areas (neighborhoods) and collect or distribute the traffic to/from local roads. Collectors also distribute traffic leading to secondary or principal arterials. 4 Local: Roads used for direct access to the various land uses (private property, commercial areas etc.). Low service speeds not designed to serve interstate or suburban movements.								









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12	Road surface types	Road surface types Definition: The surface type of the road, whether paved or unpaved at the crash location, at the time of the crash. Obligation: Mandatory Data type: Numeric Data values: 1 Paved: Roads surfaced with asphalt or other bituminous material, chip seal or concrete. 2 Unpaved: Roads which have not been paved, surfacing comprising earth, gravel or sand. 3. Semi-paved: Roads which is partially paved and unpaved either in both oposing lanes or in one lane 9. Unknown: The road surface type was unknown								
13	Surface conditions	Road surface conditions Definition: The condition of the road surface at the time and place of the crash. Obligation: Mandatory Data type: Numeric Data values: 1 Dry: Dry and clean road surface. 2 Snow, frost, ice: Snow, frost or ice on the road. 3 Slippery: Slippery road surface due to existence of sand, gravel, mud, leaves, oil on the road. Does not include snow, frost, ice or wet road surface. 4 Wet, damp: Wet road surface. Does not include flooding.								









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		 5 Flood: Still or moving water on the road. 6 Littered with Debries: roads littered with deries such as garbage, trash, rocks or being used to dry unhusked rice, seeds and other grains products. 7 Other: Other road surface conditions not mentioned above like undulation, rutting, potholes etc. 9 Unknown: The road surface conditions were unknown. Comments: Important for identification of high wetsurface crash locations, for engineering evaluation and prevention measures. 								
14	Speed limit	Speed limit Definition: The legal speed limit at the location of the crash. Obligation: Mandatory Data type: Numeric Data values: 111: The legal speed limit as provided by road signs or by the country's traffic laws for each road category, in kilometers per hour (km/h). 222: road ways with no set speed limit 999 unknown: The speed limit at the crash location is unknown. Comments: For crashes occurring at junctions, where the crash cannot be clearly allocated in one road, the								









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		speed limit for the road where the vehicle with priority was moving is indicated.								
15	Road obstacles	Road obstacles Definition: The presence of any person or object, which obstructed the movement of the vehicles on the road. Includes any animal standing or moving (either hit or not), and any object not meant to be on the road. Does not include vehicles (parked or moving vehicles, pedestrians) or obstacles on the side of the carriageway (e.g. poles, trees). Obligation: Mandatory Data type: Numeric Data values: 1 Yes: Road obstacle(s) present at the crash site. 2 No: No road obstacle(s) present at the crash site. 9 Unknown: Unknown presence of any road obstacle(s) at the crash site. Countries where a large proportion of the road network is unpaved may wish to include the variable 'road surface type' to allow for analysis of crash rates by road surface type.								
16	Junction	Junction Definition: Indicates whether the crash occurred at a junction (two or more roads intersecting) and defines the type of the junction. In at-grade junctions, all roads intersect at the same level. In not-at-grade junctions, roads do not intersect at the same level.								









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17	Traffic control	Obligation: Mandatory Data type: Numeric Data values: 1 At-grade, crossroad: Road intersection with four arms. 2 At-grade, T or staggered junction: Road intersection with three arms. Includes T intersections and intersections with an acute angle. 4 At-grade, multiple junction: A junction with more than four arms (excluding roundabouts). 5 At-grade, merge lane: motorway entry or exit ramps 6 At-grade, other: Other at-grade junction type not described above. 7 Not at grade: The junction includes roads that do not intersect at the same level. 8 Not at junction: The crash has occurred at a distance greater than 20 meters from a junction. 9 Unknown: The crash location relative to a junction is unknown. Comments: Crashes occurring within 20 meters of a junction are considered as crashes at a junction. Important for site-specific studies and identification of appropriate engineering countermeasures.	1							
17	Traffic control at junction	Traffic control at junction Definition: Type of traffic control at the junction where crash occurred. Applies only to crashes that occur at a junction.								









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Obligation: Mandatory if crash occurred at a junction Data type: Numeric Data values: 1 Authorized person: Police officer or traffic wards at intersection controls the traffic. Applicable even traffic signals or other junction control systems a present. 2 Stop sign: Priority is determined by stop sign(s). 3 Give-way sign or markings: give-way sign markings determine Priority. 4 Other traffic signs: Priority is determined by traff sign(s) other than 'stop', 'give way' or markings. 5 Automatic traffic signal (working): Priority determined by a traffic signal that was working at the time of the crash. 6 Automatic traffic signal (out of order): A traff signal is present but out of order at time of crash. 7 Uncontrolled: The junction is not controlled by a authorized person, traffic signs, markings, automat traffic signals or other means. 8 Other: The junction is controlled by means other that an authorized person, signs, markings or automat traffic signals. Comments: If more than one value is applicable, (e. traffic signs and automatic traffic signals) record all the apply. Road Curve							









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		Definition: Indicates whether the crash occurred inside a curve, and what type of curve. Obligation: Mandatory Data type: Numeric Data values: 1 Sharp curve: The crash occurred inside a road curve that was sharp (based on the judgment of the police officer). 2 Ease curve: The crash occurred inside a road curve that was ease (based on the judgment of the police officer). 3 No curve: The crash did not occur inside a road curve. 9 Unknown: It is not defined whether the crash occurred inside a road curve. Comments: Useful for identification and diagnosis of high-crash locations, and for guiding changes to road design, speed limits, etc.								
19	Road segment grade	Road segment grade Definition: Indicates whether the crash occurred on a road segment with a steep gradient. Obligation: Mandatory Data type: Numeric Data values: 1 Yes: The crash occurred at a road segment with a high grade. 2 No: The crash did not occur at a road segment with a high grade.								









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		9 Unknown: It is not defined whether the crash occurred at a road segment with a high grade. Comments: Useful for identification and diagnosis of high-crash locations, and for guiding changes to road design, speed limits, etc.								
20	Vulnerable Road user facilities	Vulnerable Road User facilities Definition: Indicates whether the crash occurred on the type of facilities available for vulnerable road users Obligation: Mandatory Data type: Numeric Data values: 1 At grade pedestrian crossing facility 2 Foot over bridge 3 Pedestrian underpass 4 Not or poorly defined Comments: Useful for identification and diagnosis of high-crash locations for vulnerable road users and for guiding changes to road design, speed limits, etc								
21	Road Side Built Environment	Road Side Built Environment Definition: Indicates whether the crash occurred on the type of road side built environment Obligation: Mandatory Data type: Numeric Data values: 1 Ribbon development 2 Sensitive Institutions like school, hospital, religious places, etc.								









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		3 Industry (labour intense) 4 Not known Comments: Useful for identification and diagnosis of high-crash locations on road side builtr environment and for guiding changes to speed limits, other fcailities required, etc								
	Vehicle related indicators									
22	Vehicle number	Vehicle number Definition: Unique number on assigned/authorized number to identify each vehicle involved in the crash. Obligation: Mandatory Data type: Numeric, sequential number Comments: Allows the vehicle record to be cross-referenced to the crash record and person records.								
23	Vehicle registration number	Vehicle registration number Definition: Unique vehicle registration number appearing on the number plate and registration documents. Obligation: Mandatory Data type: numeric, sequential number Comments: Allows cross-referencing with vehicle VIN number and identification.								
24	Country of vehicle's registration	Country of vehicle's registration Definition: Identifies the country where the vehicle is registered.								









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	Crash related indicators		Death certificate	Hospital record	Police report	Insurance report	Driver license	Vehicle registry	Road Inventory	National ID		
		Obligation: Mandatory Data type: Character string. Comments: Allows for reporting of vehicles registered in a different country from the country where it crashed.										
25	Vehicle type	Vehicle type Definition: The type of vehicle involved in the crash. Obligation: Mandatory Data type: Numeric Data values: 1 Bicycle: Road vehicle with two or more wheels, generally propelled solely by the energy of the person on the vehicle, in particular by means of a pedal system, lever or handle. 2. Animal powered vehicle: Road vehicle with two or more wheels generally propelled solely by the energy of animals drawing it. 3 Other non-motor vehicle: Other vehicle without engine not included in the list above. E-bikes and scooters included. 4 Two/three wheel motor vehicle: Two or three-wheeled road motor vehicle (includes mopeds, motorcycles, tricycles and all-terrain vehicles). 5 Passenger car: Road motor vehicle other than a two or three-wheeled vehicle, intended for the carriage of passengers and designed to seat no more than nine (driver included).										









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		6 Bus/coach/trolley: Passenger-carrying vehicle, most commonly used for public transport, inter-urban movements and tourist trips, seating more than nine persons. Includes vehicles connected to electric conductors and which are not rail-borne. 7 Light goods vehicle (<3.5 t): Smaller (by weight) motor vehicle designed exclusively or primarily for the transport of goods. 8 Heavy goods vehicle (≥3.5 t): Larger (by weight) motor vehicle designed exclusively or primarily for the transport of goods. 9 Other motor vehicle: Other vehicle not powered by an engine and not included in the two previous lists of values. 10 Unknown: The type of the vehicle is unknown or it was not stated. Comments: Allows for analysis of crash risk by vehicle type and road user type. Important for evaluation of countermeasures designed for specific vehicles or to protect specific road users.								
26	Vehicle make	Vehicle make Definition: Indicate the make (distinctive name) assigned by motor vehicle manufacturer. Obligation: Mandatory if the vehicle is a motorized vehicle. Not applicable to bicycles, tricycles, rickshaws and animal-powered vehicles.								









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		Data type: Character string. Alternatively, a list of motor vehicle makes can be composed, with a code corresponding to each. Such a list allows for more consistent and reliable recording, as well as for easier interpretation of the data. Comments: Allows for crash analyses related to the various motor vehicle makes.								
27	Vehicle model	Vehicle model Definition: The code assigned by the manufacturer to denote a family of motor vehicles (within a make) that have a degree of similarity in construction. Obligation: Mandatory if the vehicle is a motorized vehicle. Not applicable to bicycles, tricycles, rickshaws and animal-powered vehicles Data type: Character string. Alternatively, a list of motor vehicle models can be composed, with a code corresponding to each. Such a list allows for more consistent and reliable recording, as well as for easier interpretation of the data. Comments: Record the name of the model as referred to in the country in which the crash occurred. Allows for crash analyses related to the various motor vehicle models.								
28	Vehicle year of manufacture	Vehicle model year Definition: The year assigned to a motor vehicle by the manufacturer. In case of second-hand motor vehicles imported into a country and registered as a new								









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		vehicle, the original year model of the date of manufacture of the engine appearing in the vehicle registration should be reported. Obligation: Mandatory if the vehicle is a motorized vehicle. Not applicable to bicycles, tricycles, rickshaws and animal-powered vehicles Data type: Numeric (YYYY) Comments: Can be obtained from vehicle registration. Important for use in identifying motor vehicle model year for evaluation, research, and crash comparison purposes.								
29	Engine size	Engine size Definition: The size of the vehicle's engine is recorded in cubic centimeters. Obligation: Mandatory, if vehicle is motorized. Not applicable to bicycles, tricycles, rickshaws and animal-powered vehicles. Data type: Numeric Data values: nnnn: Size of engine 9999: Unknown engine size Comments: Important for identifying the impact of motor vehicle power on crash risk.								
30	Vehicle special function	Vehicle special function Definition: The type of special function being served by this vehicle regardless of whether the function is marked on the vehicle.								









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		Obligation: Mandatory, if vehicle is motorized. Not applicable to bicycles, tricycles, rickshaws and animal-powered vehicles. Data type: Numeric Data values: 1 No special function: No special function of the vehicle. 2 Public Utility Vehicles (PUV): Licensed passenger car for hire with driver, without predetermined routes such as taxis, jeepneys, rides sharing like uber etc. 3 Vehicle used as bus: Passenger road motor vehicle used for the transport of people. 4 Police / military: Motor vehicle used for police / military purposes. 5 Emergency vehicle: Motor vehicle used for emergency purposes (includes ambulances, fire service vehicles etc.). 8 Other: Other special functions, not mentioned above. 9 Unknown: It was not possible to record a special function. Comments: Important to evaluate the crash involvement of vehicles used for special uses.								
31	Vehicle steering wheel position	Vehicle steering wheel position Definition: Identifies whether the vehicle is left hand drive or right hand drive. Obligation: Mandatory, if vehicle is motorized with four or more wheels. Not applicable to bicycles, tricycles,								









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		rickshaws, animal powered vehicles and two or three wheel motorcycles. Data type: Numeric Data values: 1 Left hand drive: steering wheel is located on the left side of the vehicle. 2 Right hand drive: vehicle steering wheel is located on the right side of the vehicle. 9 Unknown: the side of the vehicle on which the vehicle steering wheel is located is unknown or not recorded. Comments: allows for analysis of crash risk in countries where both left and drive and right hand drive vehicles are used.								
32	Vehicle maneuver (what the vehicle was doing at the time of the crash	Vehicle maneuver Definition: The controlled maneuver for this motor vehicle prior to the crash. Obligation: Mandatory Data type: Numeric Data values: 1 Reversing: The vehicle was reversing. 2 Parked: Vehicle was parked and stationary. 3 Entering or leaving a parking position: The vehicle was entering or leaving a parking position 4 Slowing or stopping: The vehicle was slowing or stopping								









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		 5 Moving off: The vehicle was still and started moving. Does not include vehicle leaving or entering a parking position. 6 Waiting to turn: The vehicle was stationary, waiting to turn. 7 Turning: The vehicle was turning (includes U-turns). 10 Changing lane: The vehicle was changing lane. 11 Avoidance maneuver: The vehicle changed its course in order to avoid an object on the carriageway (including another vehicle or pedestrian). 12 Overtaking vehicle: The vehicle was overtaking another vehicle. 13 Straightforward / normal driving: The vehicle was moving ahead. 8 Other 9 Unknown 								
	Person related indicators									
33	Person ID	Person number Definition: Number assigned to uniquely identify each person involved in the crash. Obligation: Mandatory Data type: Numeric (two-digit number, nn) Comments: The persons related to the first (presumed liable) vehicle will be recorded first. Within a specific vehicle, the driver will be recorded first, followed by the								









			Data	source	s					
			Prefe	rence	order (1= bes	t to 6=	least	preferr	ed)
	Crash related indicators		Death certificate	Hospital record	Police report	Insurance report	Driver license	Vehicle registry	Road Inventory	National ID
		passengers. Allows the person record to be cross- referenced to crash, road and vehicle records to establish a unique linkage with the Crash ID and the Vehicle number.								
33	Occupant's vehicle number	Occupant's vehicle number Definition: The unique number assigned for this crash to the motor vehicle in which the person was an occupant. Obligation: Mandatory Data type: Numeric (two-digit number, nn) Comments: Allows the person record to be cross-referenced to the vehicle records, linking the persons to the motor vehicle in which they were travelling.								
34	Pedestrian's linked vehicle number	Pedestrian's linked vehicle number Definition: The unique number assigned for this crash to the motor vehicle that collided with this person. The vehicle number assigned under to the motor vehicle that collided with this person. Obligation: Mandatory Data type: Numeric (two-digit number, nn, from V1) Comments: Allows the person record to be cross-referenced to the vehicle records, linking the person to the motor vehicle that struck them.								
35	Date of birth	Date of birth Definition: Indicates the date of birth of the person involved in the crash. Obligation: Mandatory								









			Data	source	s					
			Prefe	rence	order (1= bes	t to 6=	least	preferr	ed)
	Crash related indicators		Death certificate	Hospital record	Police report	Insurance report	Driver license	Vehicle registry	Road Inventory	National ID
		Data type: Numeric (date format – dd/mm/yyyy, 99/99/9999 if birth date unknown) Comments: Allows calculation of person's age. Important for analysis of crash risk by age group, and assessing effectiveness of occupant protection systems by age group. Key variable for linkage with records in other databases.								
36	Gender	Gender Definition: Indicates the sex of the person involved in the crash. Obligation: Mandatory Data type: Numeric Data values: 1 Male: Based on identification documents / personal ID number or determined by the police. 2 Female: Based on identification documents / personal ID number or determined by the police. 9 Unknown: Gender could not be determined (police unable to trace person, not specified). Comments: Important for analysis of crash risk by sex. Important for evaluation of the effect of sex of the person involved on occupant protection systems and motor vehicle design characteristics.								
37	Type of road user	Type of road user Definition: This variable indicates the role of each person at the time of the crash. Obligation: Mandatory								









			Data	source	s					
			Prefe	rence	order (1= bes	t to 6=	least	preferr	ed)
	Crash related indicators		Death certificate	Hospital record	Police report	Insurance report	Driver license	Vehicle registry	Road Inventory	National ID
		Data type: Numeric Data values: 1 Driver: Driver or operator of motorized or non-motorized vehicle. Includes cyclists, persons pulling a rickshaw or riding an animal. 2 Passenger: Person riding on or in a vehicle, who is not the driver. Includes person in the act of boarding, alighting from a vehicle or sitting/stranding. 3 Pedestrian: Person on foot, pushing or holding a bicycle, pram or a pushchair, leading or herding an animal, riding a toy cycle, on roller skates, skateboard or skis. Excludes persons in the act of boarding or alighting from a vehicle. 4 Rider: cyclists, persons riding scooters, motorcycles and motorcyclist passengers are included in this. 8 Other: Person involved in the crash who is not of any type listed above. 9 Unknown: It is not known what role the person played in the crash. Comments: Allows for analysis of crash risk by road user type (in combination with Vehicle type, V2). Important for evaluation of countermeasures designed to protect specific road users.								
38	Seating position	Seating position Definition: The location of the person in the vehicle at the time of the crash. Obligation: Mandatory for all vehicle occupants Data type: Numeric								









			Data	source	s					
			Prefe	rence	order (1= bes	t to 6=	least	preferr	ed)
	Crash related indicators		Death certificate	Hospital record	Police report	Insurance report	Driver license	Vehicle registry	Road Inventory	National ID
		Subfield: Row Data values: 1 Front 2 Rear 3 Not applicable (e.g. riding on motor vehicle exterior) 8 Other 9 Unknown Subfield: Seat Data values: 1 Left 2 Middle 3 Right 4 Not applicable (e.g. riding on motor vehicle exterior) 8 Other 9 Unknown Subfield: Motorcycle Data values: 1 only one rider 2 two persons including rider 3 more than two persons 9 unknown Comments: Important for full evaluation of occupant protection programs.								
40	Safety equipment	Safety equipment Definition: Describes the use of occupant restraints, or helmet use by a motorcyclist or bicyclist. Obligation: Mandatory Data type: Numeric								









			source						
		Prefe	rence	order (1= bes	t to 6=	least	preferr	ed)
Crash related indicators		Death certificate	Hospital record	Police report	Insurance report	Driver license	Vehicle registry	Road Inventory	National
	Subfield: Occupant restraints Data values: 1 Seat-belt available, used 2 Seat-belt available, not used 3 Seat-belt not available 4 Child restraint system available, used 5 Child restraint system available, not used 6 Child restraint system not available 7 Not applicable: No occupant restraints could be used on the specific vehicle (e.g. agricultural tractors). 8 Other restraints used 9 Unknown: Not known if occupant restraints were in use at the time of the crash. 10 No restraints used Subfield: Helmet use Data values: 1 Helmet worn 2 Helmet not worn 3 Helmet Chin Strap used 4 Helmet Chin Strap not used 5 Not applicable (e.g. person was pedestrian or car occupant) 9 Unknown Comments: Information on the availability and use of occupant restraint systems and helmets is important for evaluating the effect of such safety equipment on injury outcomes.								









			Data	source	s					
			Prefe	rence	order (1= bes	t to 6=	least	oreferr	ed)
	Crash related indicators		Death certificate	Hospital record	Police report	Insurance report	Driver license	Vehicle registry	Road Inventory	National ID
41	Pedestrian maneuver	Pedestrian maneuver Definition: The action of the pedestrian immediately prior to the crash. Obligation: Mandatory Data type: Numeric Data values 1 Crossing: The pedestrian was crossing the road. 2 Walking on the carriageway: The pedestrian was walking along the carriageway facing or not facing traffic. 3 Standing on the carriageway: The pedestrian was on the carriageway and was stationary (standing, sitting, lying etc.). 4 Not on the carriageway: The pedestrian was standing or moving on the sidewalk or at any point beside the carriageway. 8 Other: The vehicle or the pedestrian was performing a maneuver not included in the list of the previous values. 9 Unknown: The maneuver performed by the vehicle or the pedestrian was not recorded or it was unknown. Comments: Provides useful information for the development of effective road design and operation, education and enforcement measures to accommodate pedestrians.								
42	Alcohol use suspected	Alcohol use suspected Definition: Law enforcement officer suspects that person involved in the crash has used alcohol.								









			Data	source	s					
			Prefe	rence	order (1= bes	t to 6=	least	preferr	ed)
	Crash related indicators		Death certificate	Hospital record	Police report	Insurance report	Driver license	Vehicle registry	Road Inventory	National ID
		Obligation: Mandatory for all drivers of motorized vehicles, recommended for all non-motorists (pedestrians and cyclists). Data type: Numeric Data values: 1 No 2 Yes 3 Not applicable (e.g. if person is not driver of motorized vehicle) 9 Unknown								
43	Alcohol test	Alcohol test Definition: Describes alcohol test status, type and result. Obligation: Conditional (mandatory if alcohol use suspected) Data type: Numeric Subfield: Test status Data values: 1 Test not given 2 Test refused 3 Test given 9 Unknown if tested Subfield: Test type Data values: 1 Blood 2 Breath								









				source						
			Prefe	rence	order (1= bes	t to 6=	least	preferr	ed)
	Crash related indicators		Death certificate	Hospital record	Police report	Insurance report	Driver license	Vehicle registry	Road Inventory	National ID
		3 Urine 8 Other 9 Test type unknown Subfield: Test result Data values 1Pending 9Result unknown Comments: Alcohol-related crashes are a major road safety problem. Information on alcohol involvement in crashes facilitates evaluation of programs to reduce drink-driving.								
44	Drug use	Drug use Definition: Indication of suspicion or evidence that person involved in the crash has used illicit drugs. Obligation: Mandatory for all drivers of motorized vehicles, recommended for all non-motorists (pedestrians and cyclists). Data type: Numeric Data values: 1 No suspicion or evidence of drug use 2 Suspicion of drug use 3 Evidence of drug use (further subfields can specify test type and values) 4 Not applicable (e.g. if person is not driver of motorized vehicle) 9 Unknown								
45	Driving license issue date	Driving license issue date								









			Data	source	s					
			Prefe	rence	order (1= bes	t to 6=	least	preferr	ed)
	Crash related indicators		Death certificate	Hospital record	Police report	Insurance report	Driver license	Vehicle registry	Road Inventory	National ID
46	Licensed vehicle category	Definition: Indicates the date (month and year) of issue of the person's first driving license, provisional or full, pertaining to the vehicle they were driving. Obligation: Mandatory for all drivers of motorized vehicles Data type: Numeric (MMYYYY) Data values: Value (MMYYYY) 1 Never issued a driving license 9 Date of issue of first license unknown Comments: Allows calculation of number of years' driving experience at the time of crash. Licensed vehicle category Definition: Whether the driving license allowed the driver to operate the vehicle s/he was operating. Data type: Numeric Data values: 1 Yes 2 No 9 Unknown								
47	Age	Age Definition: The age in years of the person involved in the crash. Data type: Numeric Comments: Derived from Date of birth and Crash date. Important for analysis of crash risk by age group, and								









	_		Data	source	s					
			Prefe	rence	order (1= bes	t to 6=	least	preferr	ed)
	Crash related indicators		Death certificate	Hospital record	Police report	Insurance report	Driver license	Vehicle registry	Road Inventory	National ID
		assessing effectiveness of countermeasures by age group.	_							
48	Driver nationality	Driver Nationality Definition: The nationality of the driver of the vehicle. Data type: Character string								
49	Hit and run	Hit and run Definition: The behavior of a driver of a vehicle who is involved in a collision with another vehicle, property or human being, who knowingly fails to stop to give his/her name, license number, and other information as required by statute to the injured party, a witness, or law enforcement officers. Data type: Yes or No Comments: Information captured when more than one vehicle involved in the crash but only one vehicle's data available.								
50	Person with Disability (PWD)	Person with Disability Definition: Indicates the injured persons physical or mental condition that limits a person's movements, senses, or activities.								
		Obligation: Mandatory Data type: Numeric Data values: 1 Mentally disabled 2 Physically disabled								









		Data sources							
		Preference order (1= best to 6= least preferred)							
Crash related indicators		Death certificate	Hospital record	Police report	Insurance report	Driver license	Vehicle registry	Road Inventory	National ID
	3 Not disabled 9 Unknown Comments: Allows the rate of crash related to PWD.								