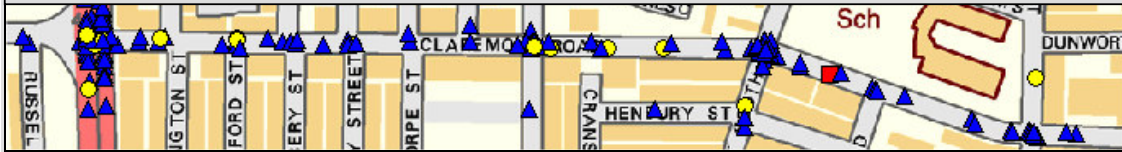


GM road accidents online database Professional version



Introduction

The database is designed for use by road safety professionals working in Greater Manchester local authorities. Access is by user name and password.

To register for the website go to:

www.gmtu.gov.uk/registration/register.aspx

The accident data can be accessed either by navigating the interactive map or by running search queries.

Web browser

This application has been tested using Internet Explorer versions 6 and 7 and Firefox 2.0.0.9. Your browser must be configured to allow cookies and pop-up windows.

Please note that your session will time-out after 30 minutes of inactivity.

Data

The data will be uploaded to the website in three-monthly blocks. It is expected that the data will be available as follows:

January to March data from 1 June

April to June data from 1 September

July to September data from 1 December

October to December data from 1 March

Interactive Map

By default the map will display all accidents in the database. No accidents will be displayed until you have zoomed in sufficiently.

Navigation

The map can be navigated using the buttons above the map.



ZOOM IN

when selected, either click on the map or drag a rectangle over the area you wish to zoom in to. The smaller the rectangle the greater the level of zoom



ZOOM OUT

when selected, either click on the map or drag a rectangle over the area you wish to zoom out from. The smaller the rectangle the greater the level of zoom



RE-CENTRE

when selected, click on the map to re-centre it on the location clicked



HOME

click this button to return the map to its starting view



PAN

when selected, drag the mouse over the map to pan it

You can zoom to a particular street using the search facility positioned below the map:




street	<input type="text" value="derby"/>	Stockport	▼	<input type="button" value="find"/>
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Enter the name of the street and select a local authority. If your search is successful then any matching streets will appear in a box below:

street	<input type="text" value="derby"/>	Stockport	▼	<input type="button" value="find"/>
<div style="border: 1px solid black; padding: 5px;"><p>Derby Street , Cheadle (108m)</p><p>Derby Road , Heaton Moor (657m)</p><p>Derby Range , Heaton Moor (144m)</p><p>Derby Street , Marple (142m)</p></div>				

Click on the required street to zoom to that street.

Key

- | | | |
|---|---------------|------------------|
|  | red square | fatal accident |
|  | yellow circle | serious accident |
|  | blue triangle | slight accident |

Interrogating a single accident

Click on the information button (see right). When you move the mouse over the map the cursor will change to a hand¹. Click on an accident and a new window will open displaying the details of the accident (see Figure 1).



The standard summary report

The standard summary report is used to display the details of any number of accidents.

Standard summary

Reporting on 1 accident export accidents to CSV export casualties to CSV export vehicles to CSV export to XML

Accident reference number 11018848 **Day** Saturday **Date** 18/05/2012 **Time** 18:00

Place Reported Scene **District:** Manchester

Location Stockport Rd Longsight 25th St Of June Deansfield St Stk

Description 1881 Train Stockport Rd On On Chwy 1882 Stdy M June 1883 1883 Stockport Rd Stk V1 Cals V2 Redounds Cals Card 88:

Locational details ?	Conditions ?	Accident details							
Road: A6	Road surface: Wet	Severity: Slight							
OSGR: 188888 1888883	Light conditions: Light	No. of vehicles: 3							
Speed Limit: 30	Weather conditions: Fine	No. of casualties: 4							
Contributory Factors ?									
Factor	Conf	Ref.							
Aggr	VLike								
Judge	VLike								
Speed	VLike								
FAObj	Poss	V1							
Vehicle Details ?									
Type	Move	From	To	Skid	Casualty Details ?				
Car	Ahead	S	N	Skid	Type	Sex	Age	Severity	Pupil
Car	Ahead	N	S		3	Pas	M	20	Slight
Car	Waitg	S	N		1	Drv	M	17	Slight
					2	Pas	M	25	Slight
					4	Pas	M	25	Slight

Figure 1 Standard Summary

Use the help icons ? for a description of each part of the report.

Exporting to CSV format

To export the details of the accidents, casualties and vehicles in the *standard summary* window click the relevant **export to CSV** button. You will be given the option of saving the file or opening it in Microsoft Excel (assuming you have Excel installed on your PC). The CSV file will contain one line per accident/vehicle/casualty. If you need to subsequently cross references casualties to accidents or vehicles to accidents you can use the *ReferenceNumber* and *Year* columns which, in combination, are unique for each accident.

¹ Not when using Firefox.

Alternatively you can use any combination of the *accidentID*, *vehicleID* and *casualtyID* columns which are unique for each accident, vehicle and casualty respectively.

Exporting to XML format

To export the details of the accidents in the *standard summary* window click the *export to XML* button.

Interrogating multiple accidents

The first step is to select the accidents you wish to view. Use one of the three multiple selection tools:



CIRCLE SELECT

after clicking this icon, drag out a circle on the map to select all of the accidents within the circle



RECTANGLE SELECT

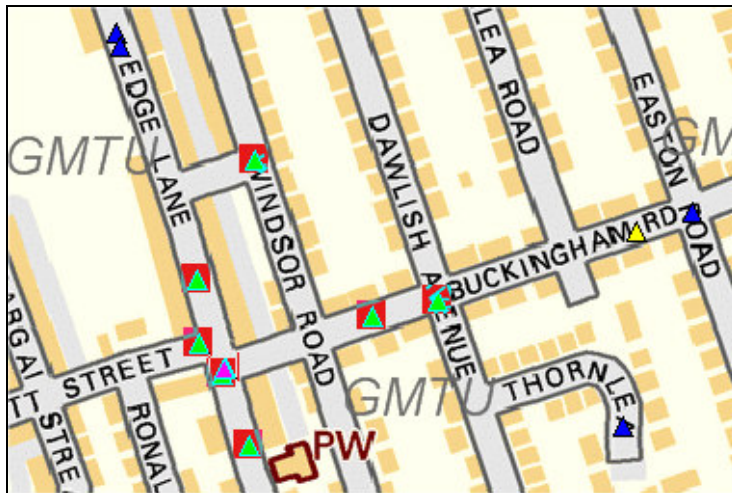
after clicking this icon, drag out a rectangle on the map to select all of the accidents within the rectangle



POLYGON SELECT

after clicking this icon, click on the map at each vertex of the polygon you wish to create. Double-click for the last vertex.

The selected accidents will be highlighted:



To view the details of the selected accidents click the *details* icon (see right). The *standard summary* report window will be populated as described earlier. If the window is already open then its contents will be refreshed with the current data (see Figure 1).



To de-select the currently selected accidents click the *clear selection* button.



Searching the database

The search form to the right of the map can be used to search the accident database (see Figure 2).

Search criteria

It is possible to select from the following criteria:

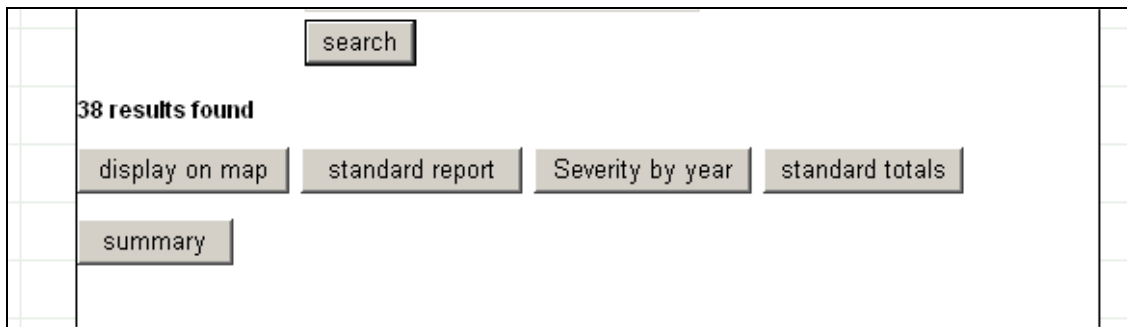
local authority	Select all or one of the ten local authorities in Greater Manchester
ward	This option is only available when a specific local authority has been selected ²
accident date	You must specify <i>either</i> a start date and an end date <i>or</i> a start year and an end year. If specifying a date then the format must be <i>dd/mm/yyyy</i>
casualty class	select at least one casualty class
casualty age	optionally specify a lower age <i>and/or</i> an upper age limit
casualty severity	select at least one
casualty gender	select any, male or female
vehicle type	select at least one vehicle type
road surface conditions	select at least one
light conditions	select at least one

² Please note that some accidents have been incorrectly assigned to the wrong local authority. So for any one authority the total number of accidents in that authority may not match the total number of accidents in all of the wards in that authority.

local authority	<input type="text" value="Any"/>	
ward	<input type="text"/>	
accident date from	<input type="text"/>	dd/mm/yyyy
accident date to	<input type="text"/>	dd/mm/yyyy
OR	<input type="text" value="Select..."/> to <input type="text" value="Select..."/>	select whole years
casualty class	<input type="text" value="Driver or rider"/> <input type="text" value="Veh or pillion passenger"/> <input type="text" value="Pedestrian"/>	Hold down the control key to make multiple selections
<input type="checkbox"/> select all		
casualty age from	<input type="text"/>	e.g. 14
casualty age to	<input type="text"/>	e.g. 21
casualty severity	<input checked="" type="checkbox"/> slight <input checked="" type="checkbox"/> serious <input checked="" type="checkbox"/> fatal	
casualty gender	<input checked="" type="radio"/> any <input type="radio"/> female <input type="radio"/> male	
vehicle type	<input type="text" value="Motor cycle <=50cc"/> <input type="text" value="Motor cycle 51-125cc"/> <input type="text" value="Motor cycle 126-500cc"/> <input type="text" value="Motor cycle >500cc"/> <input type="text" value="Motor cycle >125cc -old 4"/> <input type="text" value="Motor cycle - unknown cc"/> <input type="text" value="Taxi/Private hire car"/> <input type="text" value="Car"/>	Hold down the control key to make multiple selections
<input type="checkbox"/> select all		
road surface conditions	<input type="text" value="Dry"/> <input type="text" value="Wet/Damp"/> <input type="text" value="Snow"/> <input type="text" value="Frost/Ice"/>	Hold down the control key to make multiple selections
<input type="checkbox"/> select all		
light conditions	<input type="text" value="Daylight; street lights present"/> <input type="text" value="Daylight; no street lighting"/> <input type="text" value="Daylight; street lighting unknow"/> <input type="text" value="Darkness; street lights present"/>	Hold down the control key to make multiple selections
<input type="checkbox"/> select all		
	<input type="button" value="search"/>	

Figure 2 Search form

Click the *search* button to perform the search. If the load on the web server is heavy and the query is complex then the response may be slow. If the search is successful the number of accidents found will be displayed:



A number of buttons will now also be displayed.

Display results on map

To display the results on the map, click the *display on map* button. The map will be refreshed. Note that the same symbol is used for all accident severities. To return to the view of the full set of accidents click the *show all* button.

Summary

To display a brief summary of the results click on the *summary* button. A new window will be opened (see Figure 3). Note that if the search returns more than 4000 records then this option will not be available. This is to avoid an excessive download from the server.

Results summary						
Accidents						
reference	year	date	time	severity	casualties	vehicles
C2438	1997	01/01/1997	03:45	slight	2	2
H000824	2000	02/06/2000	13:30	slight	5	2
A1587	1997	03/01/1997	01:25	slight	1	2
C2028	1996	06/02/1996	16:00	slight	1	1
C2002	1996	07/02/1996	09:00	slight	1	1
A0107	1996	08/02/1996	08:15	slight	1	1
C2000	1996	08/02/1996	08:45	slight	1	2
A6201	1996	08/02/1996	11:40	slight	1	2

Figure 3 summary window

Reports

Three reports are currently available: standard summary, severity by year and standard totals.

Standard summary report

This report will generate a report similar to that described earlier (see Figure 1). Note that if the search returns more than 4000 records then this option will not be available. This is to avoid an excessive download from the server.

Severity by year report

This will display tables of accident severity for each year of the search (see Figure 4) and charts of the same data (see Figure 5). *Note: this report will only be available if whole years have been selected in the search.*

Accidents								
Severity	1996	1997	1998	1999	2000	2001	2002	2003
Fatal	33	28	29	22	16	28	15	30
Serious	268	230	203	202	227	234	230	220
Slight	2381	2420	2475	2303	2472	2375	2388	2230
total	2682	2678	2707	2527	2715	2637	2633	2480

Casualties								
Severity	1996	1997	1998	1999	2000	2001	2002	2003
Fatal	34	34	30	23	18	28	15	37
Serious	288	248	216	236	258	255	252	244
Slight	3319	3495	3579	3442	3637	3471	3493	3228
total	3641	3777	3825	3701	3913	3754	3760	3509

Severity index								
year	1996	1997	1998	1999	2000	2001	2002	2003
index	0.088	0.075	0.064	0.070	0.071	0.075	0.071	0.080

Severity index = (fatal + serious casualties) / total casualties
For example, severity index 2003 = 281 / 3509 = 0.080

Figure 4 Severity by year report - tables

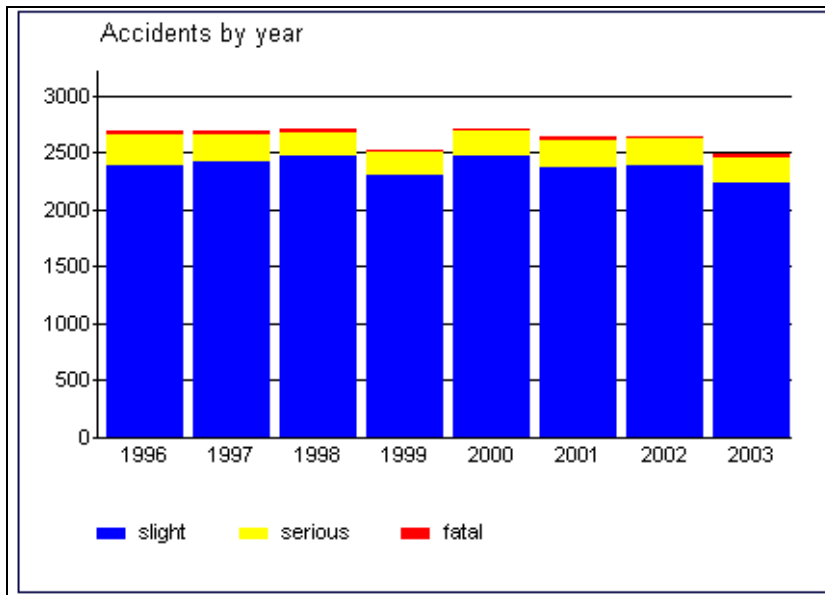


Figure 5 Severity by year report – example chart

Standard totals report

This report will generate tables of aggregates for accident severity, casualties by age and sex, casualties by age and class, cyclist and pedestrian casualties by age, school pupil casualties, and casualties by type – driver, passenger, pedestrian etc (see Figure 6 for a sample extract).

Severity	class	0-15	16-59	60-69	70+	Total
Fatal	Driver or rider	3	46	3	7	59
	Veh or pillion pas	3	27	0	2	32
	Pedestrian	20	52	13	43	128
Total		26	125	16	52	219
Serious	Driver or rider	56	579	26	22	683
	Veh or pillion pas	44	222	22	19	307
	Pedestrian	370	484	60	93	1007
Total		470	1285	108	134	1997
Slight	Driver or rider	486	13428	546	244	14704
	Veh or pillion pas	1592	6182	425	314	8513
	Pedestrian	1614	2427	181	225	4447
Total		3692	22037	1152	783	27664
Total		4188	23447	1276	969	29880

Figure 6 Standard totals report - extract

Response times

All searches and reports are carried out in real-time so the more complex your queries and the more results they generate the slower the response times will be. The number of other users accessing the system and the speed of your Internet connection will also be factors.

Contacts

If you are experiencing technical difficulties then please contact:

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