

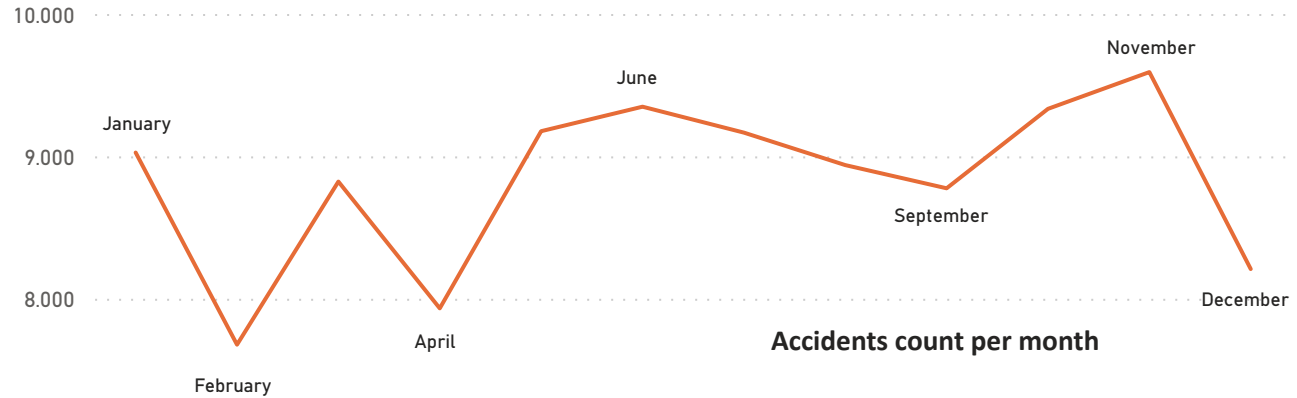
## Monthly analysis of the accidents

### Total Accidents

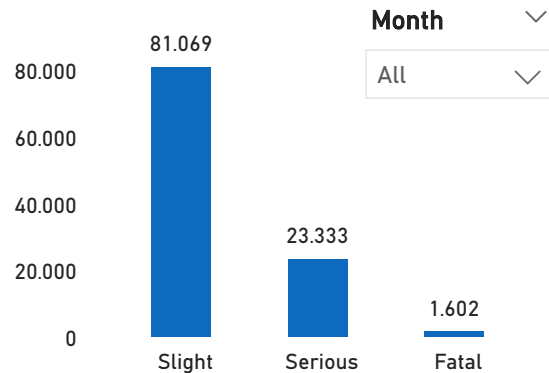
106.004

### Total casualties

135.480



### Severity of accidents



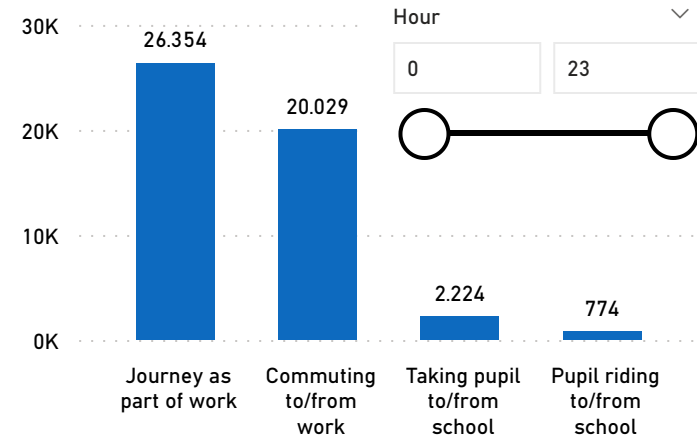
The trend of accidents in 2022 is shown as a line graph. In general, the trend of accidents over each month fluctuates quite abnormally. Most of the lowest number of accidents occurred in the first month of the year (Quarter 1). Two sharp increases in the number of accidents occurred in June and November. In addition, the figure above also shows data on the total number of accidents and total casualties that occurred, a bar chart also shows the level of accidents. severity of accidents.

# Analysis by day of week, hour of day and month

## Total accidents by day of week and hour

Hour	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
0	448	169	132	173	183	228	400
1	328	127	93	87	132	137	322
2	262	68	69	67	89	91	246
3	225	71	51	85	67	94	199
4	162	68	78	68	72	102	147
5	142	121	116	118	136	164	142
6	181	299	306	362	331	290	177
7	157	700	782	769	803	702	273
8	245	1138	1311	1326	1315	1168	440
9	398	696	696	743	788	743	529
10	623	608	638	645	701	727	806
11	706	665	701	690	774	828	1008
12	883	753	766	813	803	1020	1100
13	873	792	832	801	915	1088	1041
14	881	887	891	959	992	1171	985
15	798	1202	1274	1344	1380	1548	975
16	816	1185	1350	1307	1384	1538	976
17	792	1321	1434	1563	1503	1487	1060
18	739	940	1082	1230	1137	1305	932
19	697	747	817	855	888	1054	840
20	529	565	536	582	626	752	705
21	462	361	423	440	492	607	582
22	390	329	353	407	432	572	598
23	264	243	287	303	330	495	526

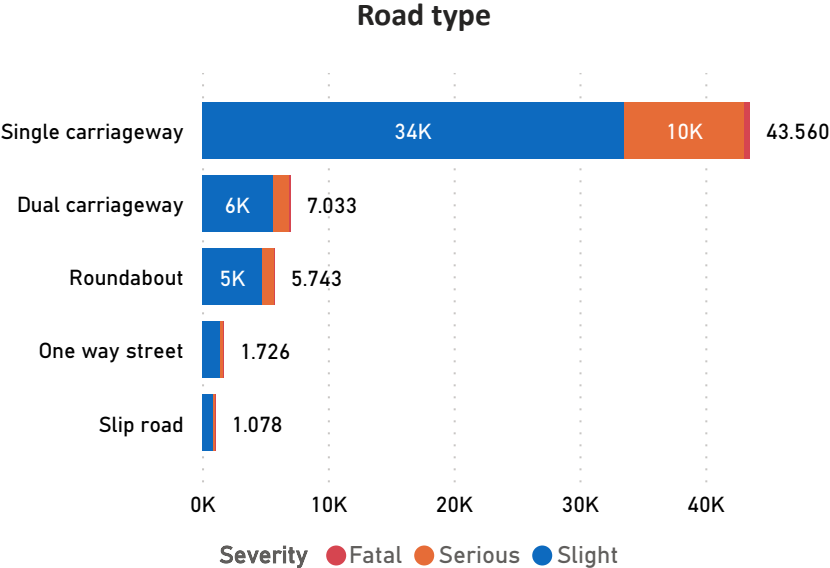
## Purpose of driver



Most of the accidents happen during the weekday during 7:00 - 8:00 and 15:00 - 19:00. This is the time when the parents take their children to/from the schools and people go to/return from work. This is understandable since these are the times when the traffic is at its peak.

The picture below also shows us the purpose of the drivers. Most of them go out because it is a job requirement and they have to travel to/from the company. Therefore, the above times will often have high traffic density and are more likely to cause accidents

# Analysis by road type and junction

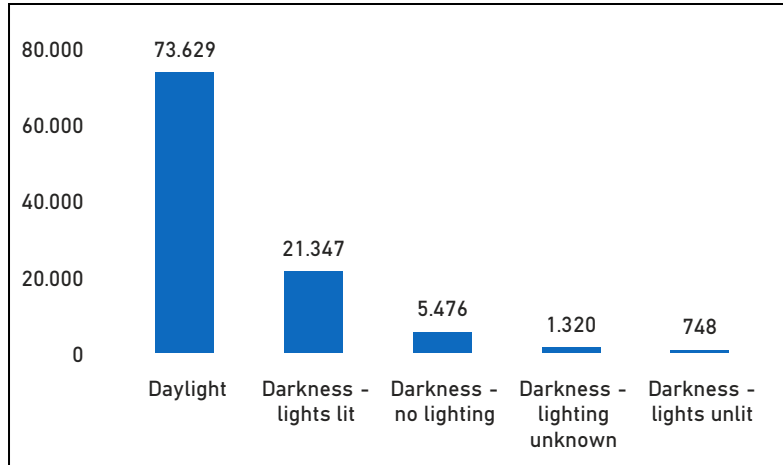


Single Carriageway accounts for the majority of accidents, followed by Dual Carriageway. This is really meaningful because on the Single Carriageway, they do not have a partition between the two lanes, so it is very likely that when one side of the road is overloaded, they tend to go to the other lane and there is a high risk of having an accident. Furthermore, Single Carriageway is the most common type of road in the city. Single Carriageway also has the most serious accidents compared to other types of roads

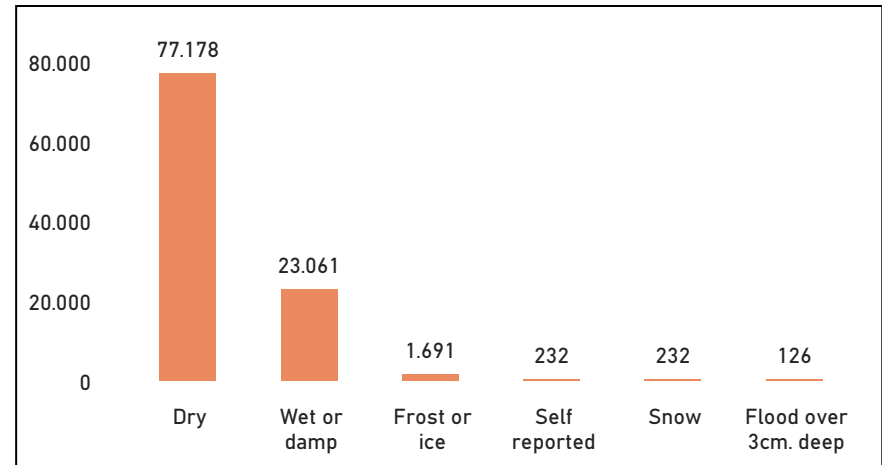
Junction control					
Junction detail	Authorised person	Auto traffic signal	Give way or uncontrolled	Self reported	Stop sign
T or stagge...	195	3.415	24.875	1	321
Crossroads	45	4.539	4.620		236
Roundabout	23	1.292	6.623		30
Other junct...	70	898	4.297	95	72
Private driv...	10	49	1.999	41	7
More than ...	22	930	586		14
Mini-round...	13	19	1.485		17
Self report...	4	138	84	914	12
Slip road	8	154	968		17
Not at junct...		1	1		

## Analysis by surrounding factors

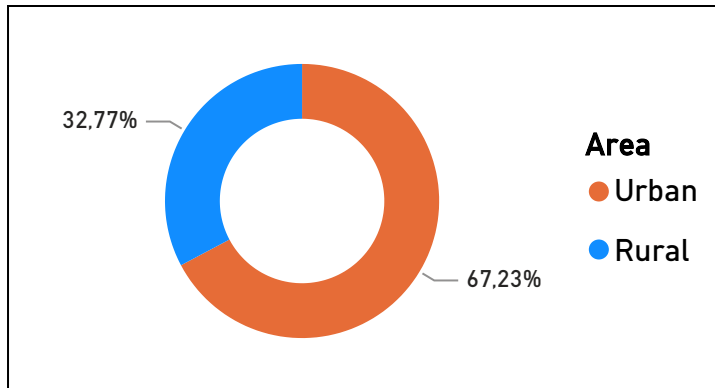
Light condition



Road surface condition

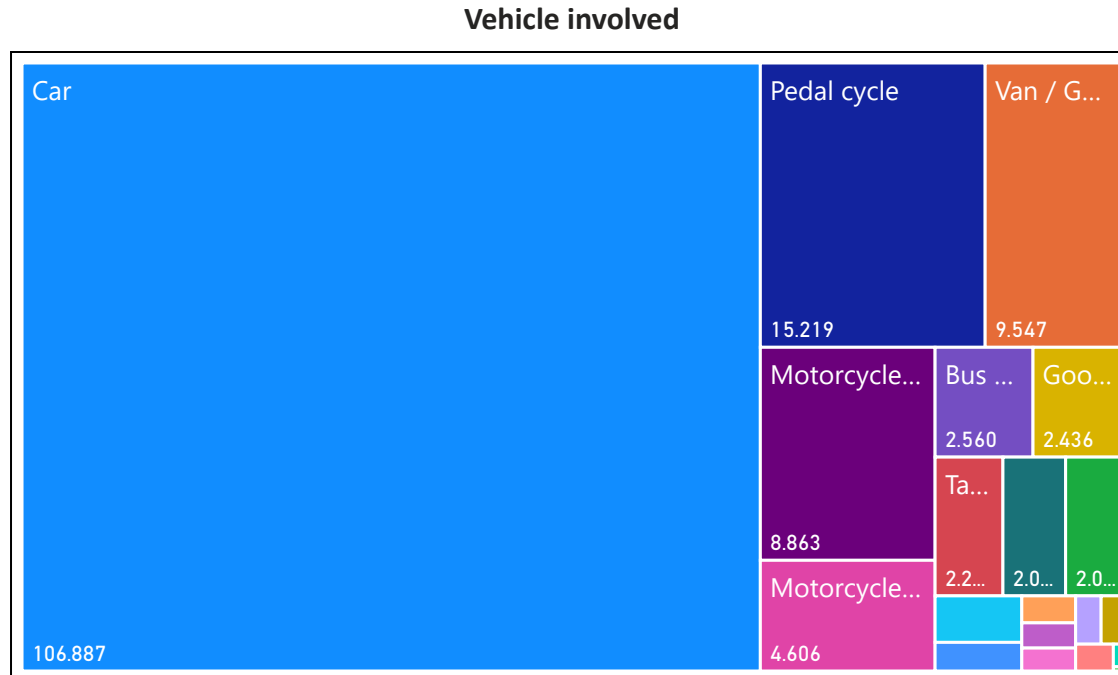


Area



We will focus on three environmental factors including: Light condition, Road surface condition and Area. The first chart shows that most accidents occur on Daylight, more than 3 times the number of accidents that occur on Darkness - Lights lit. Next to Road surface conditions, accidents tend to happen when the road is dry or slightly wet. It's strange that in favorable conditions for travel, accidents tend to increase. This may suggest that the cause of the accident depends less on the surrounding conditions and more on the driver themselves. In addition, accidents also occur more in suburban areas than in rural areas because the vehicle density in the two places is different.

## Analyze vehicles involved



Here we focus our analysis on the vehicles and the cause of the accidents. The cause of accident refers to the problems associated to the vehicle that caused the accident. Overall, Car are involved in majority of the accidents and Pedal cycle is