CALGARY TRAFFIC INCIDENTS ANALYSIS

From 2019 to 2023

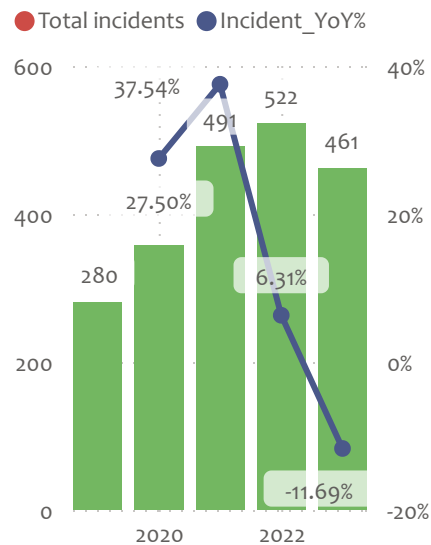**2,111**
Total Incidents
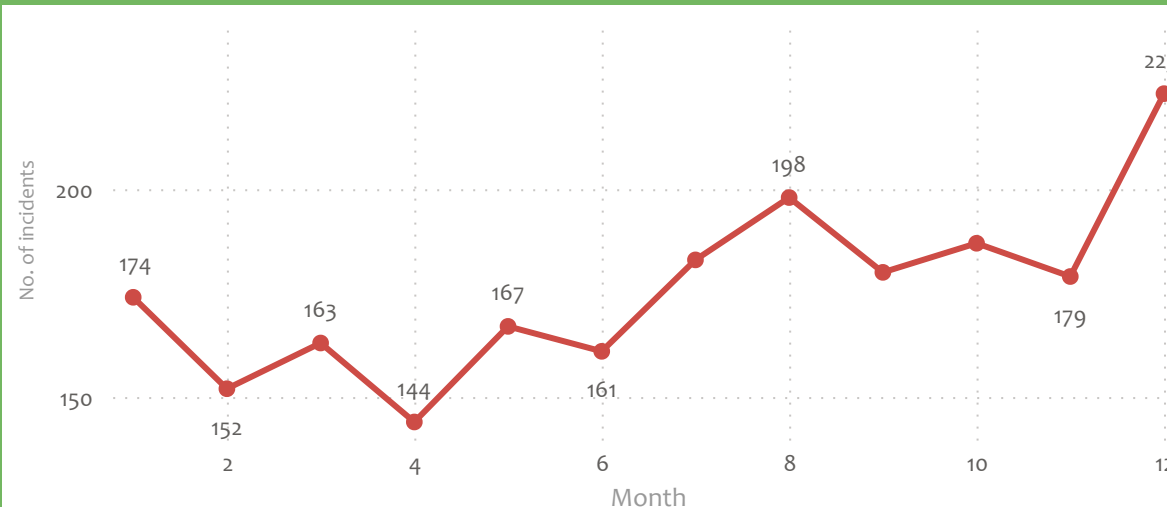
1.16
No. of incidents per day
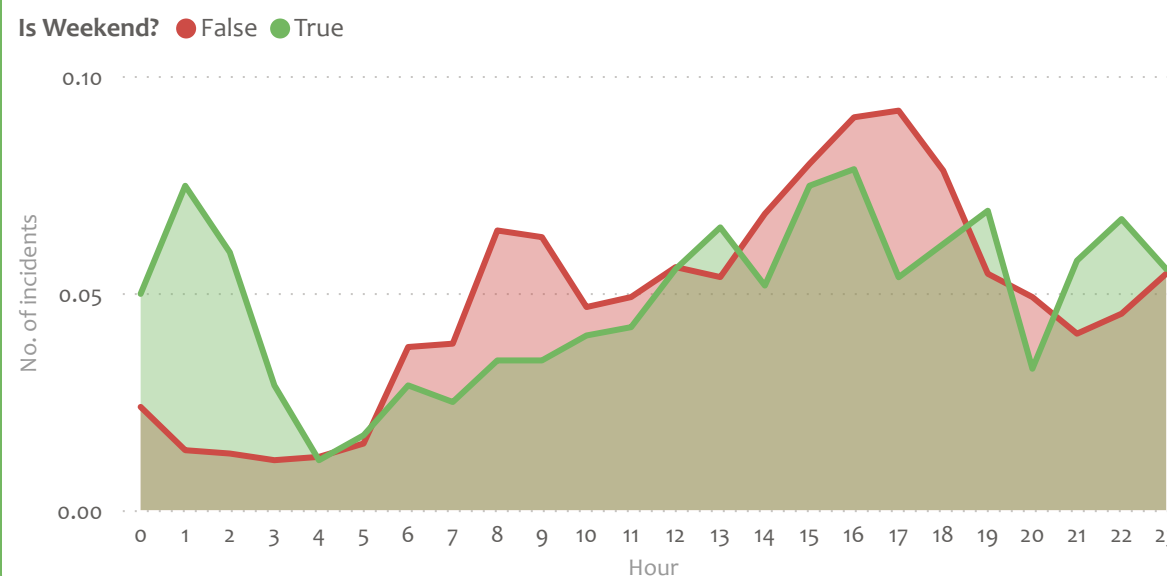
Trend of traffic incidents by Year, Quarter, Month

No. of incidents by year

Total incidents ● Incident_YoY%

No. of incidents by hours in weekdays and weekend

Is Weekend? ● False ● True

No. of Incidents per hour by weekdays

Avg per day: 1.16

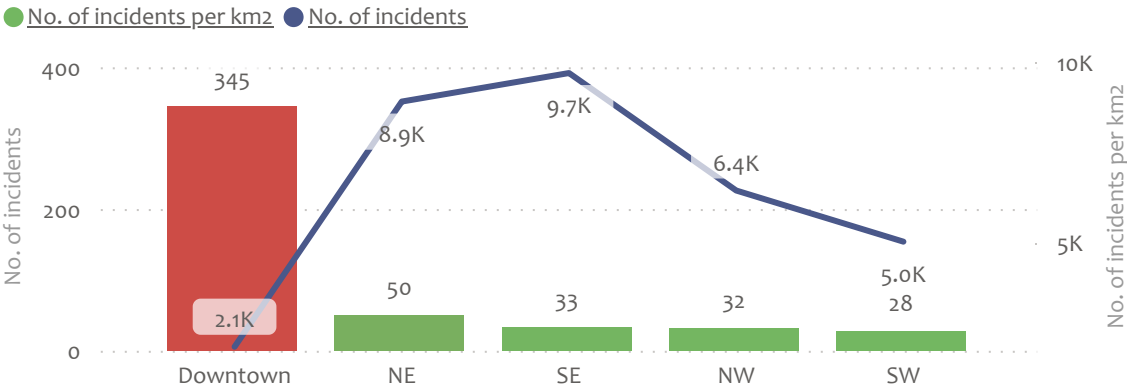| Day	No. of incidents per day
Sunday	1.05
Monday	1.01
Tuesday	1.19
Wednesday	1.20
Thursday	1.18
Friday	1.17
Saturday	1.28
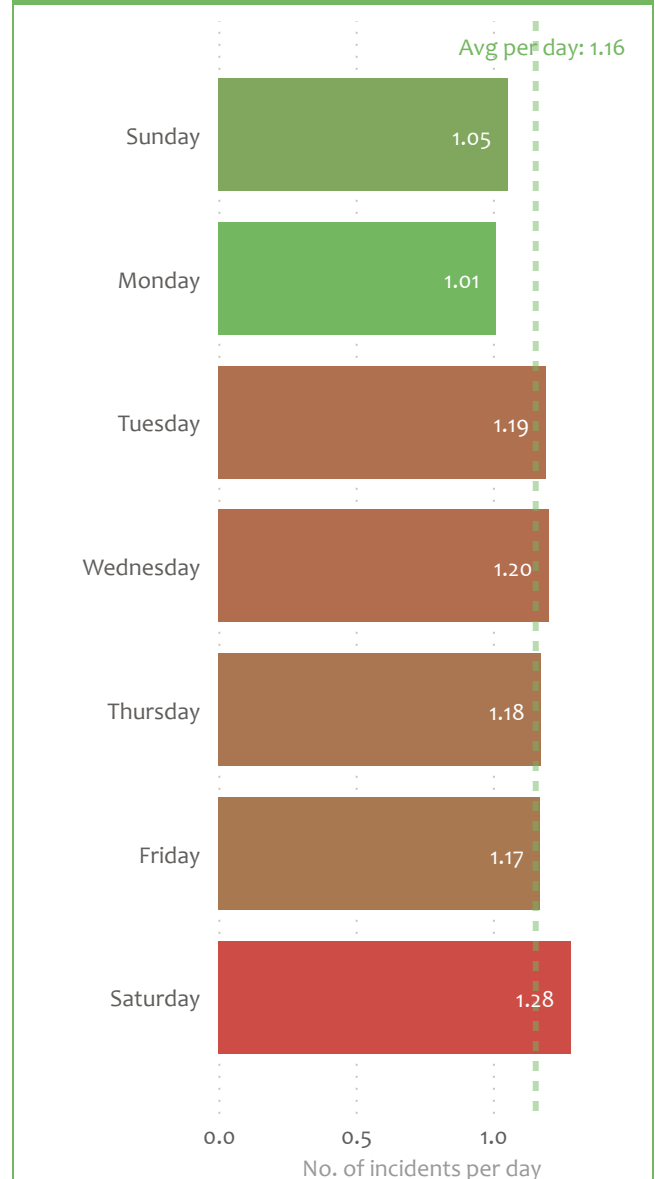
CALGARY TRAFFIC INCIDENTS ANALYSIS

From 2019 to 2023

No. of incidents by Quadrants
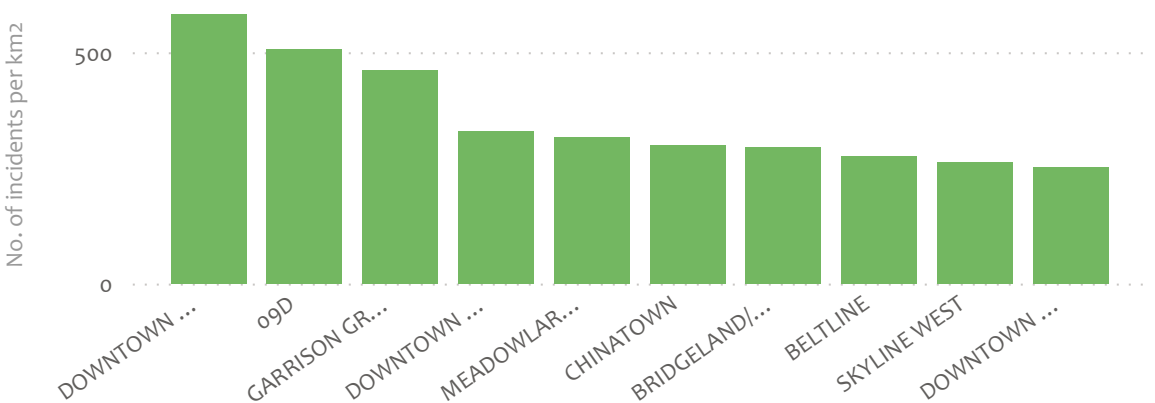
● No. of incidents per km2   ● No. of incidents

No. of incidents (left axis): 345, 50, 33, 32, 28
No. of incidents per km2 (right axis / line): 2.1K, 8.9K, 9.7K, 6.4K, 5.0K

Quadrants: Downtown, NE, SE, NW, SW

Top 10 Communities with the Highest no. of incidents per km2

Communities: DOWNTOWN ..., 09D, GARRISON GR..., DOWNTOWN ..., MEADOWLAR..., CHINATOWN, BRIDGELAND/..., BELTLINE, SKYLINE WEST, DOWNTOWN ...

Top 20 Communities with the Highest No. of Incidents

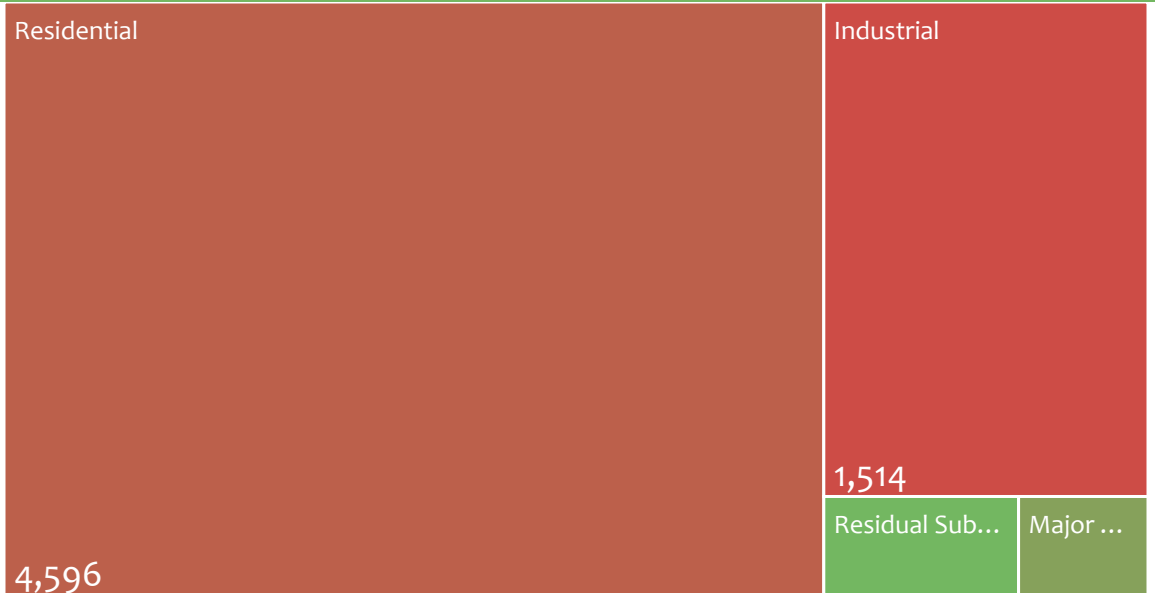BRIDGELAND/RIVERSIDE, BURNS INDUSTRIAL, WINSTO..., GLENM..., HUNTI..., MCCALL, BELTLINE, ALBERT PARK/RA..., EAST SHEPA..., DOUG..., WEST ..., RENF..., MANCHESTER IN..., DOVER, DOWNTOWN COMMER..., EAST FAIRVIEW I..., ACADIA, SADDLE RIDGE, SUNR..., MAPLE RIDGE

No. of incidents by community class

Residential: 4,596
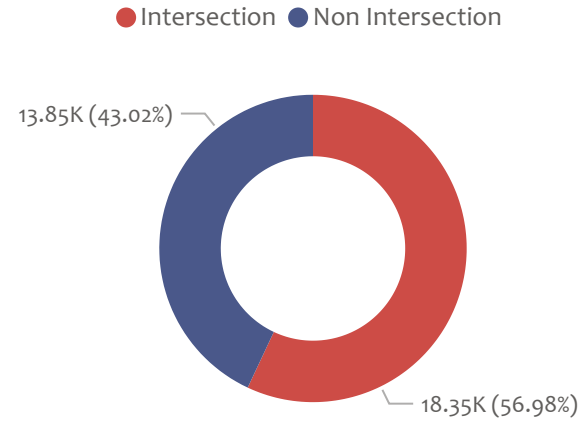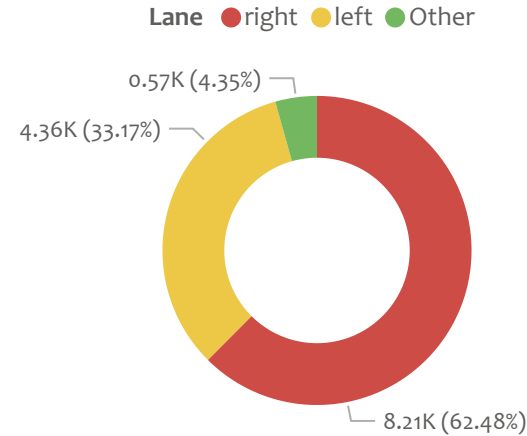Industrial: 1,514
Residual Sub...
Major ...

CALGARY TRAFFIC INCIDENTS ANALYSIS

From 2019 to 2023

The distribution of incidents at intersection

Intersection ● Non Intersection

13.85K (43.02%)

18.35K (56.98%)

Lane blocked due to Incidents

Lane ● right ● left ● Other

0.57K (4.35%)

4.36K (33.17%)

8.21K (62.48%)

Incidents by number of vehicles

● two vehicle ● multi-vehicle ● single vehicle

1.78K (14.21%)

2.77K (22.17%)

7.95K (63.62%)
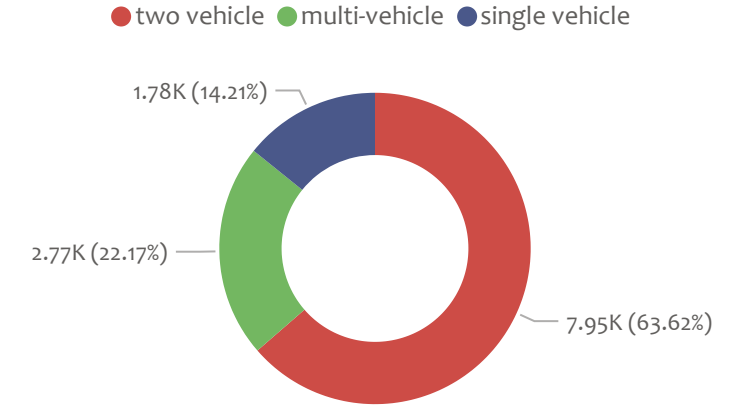
No. of incidents by Street type

View by: **Street Class**

Street Class	No. of incidents
TR	2.5K
AV	2.2K
ST	1.7K
DR	1.0K
BV	0.8K
RD	0.4K
Other	0.3K
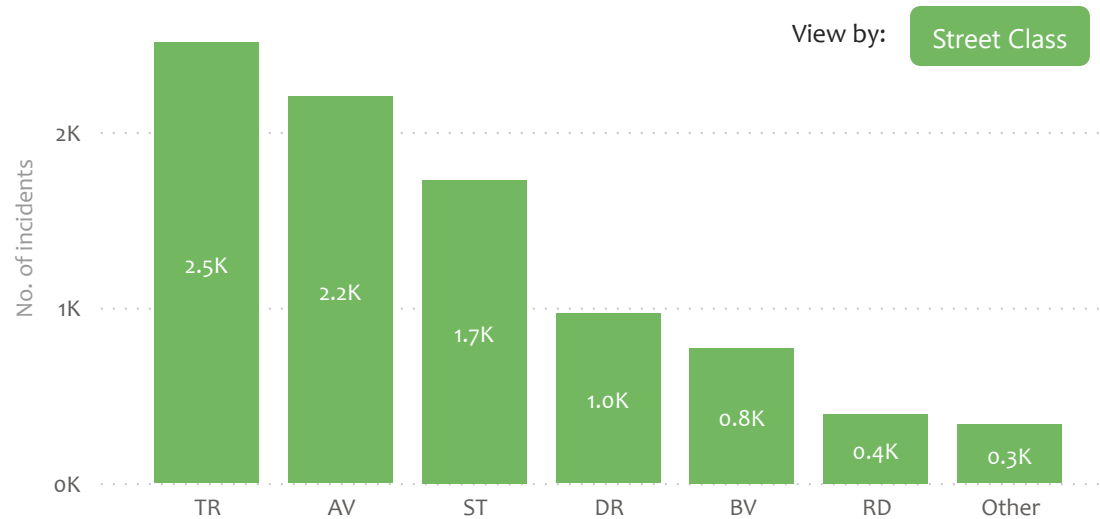
Top 10 streets with highest No. of incidents per year

Street	No. of incidents
DEERFOOT TR SE	479
DEERFOOT TR NE	266
16 AV NE	197
GLENMORE TR SE	195
GLENMORE TR SW	170
MACLEOD TR S	138
MCKNIGHT BV NE	138
32 AV NE	129
17 AV SE	125
CROWCHILD TR NW	125
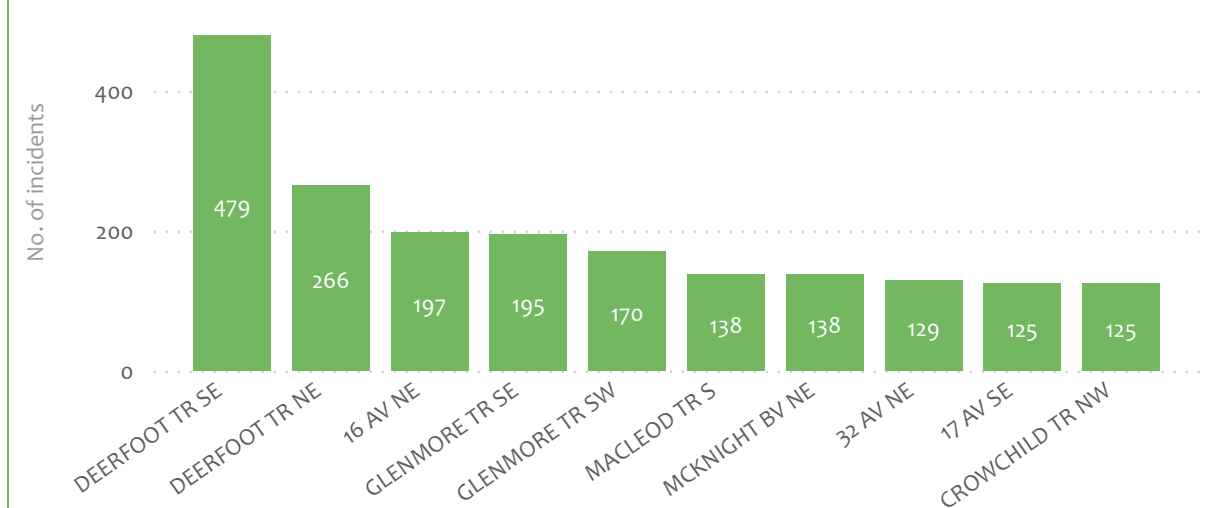
CALGARY TRAFFIC INCIDENTS ANALYSIS

From 2019 to 2023

Incidents per day by Temperature (degree Celsius)

No of incidents

Temperature	No of incidents
<-20	33
From -20 to -10	25
From 20 to 30	19
From -10 to 0	18
From 0 to 10	16
From 10 to 20	16
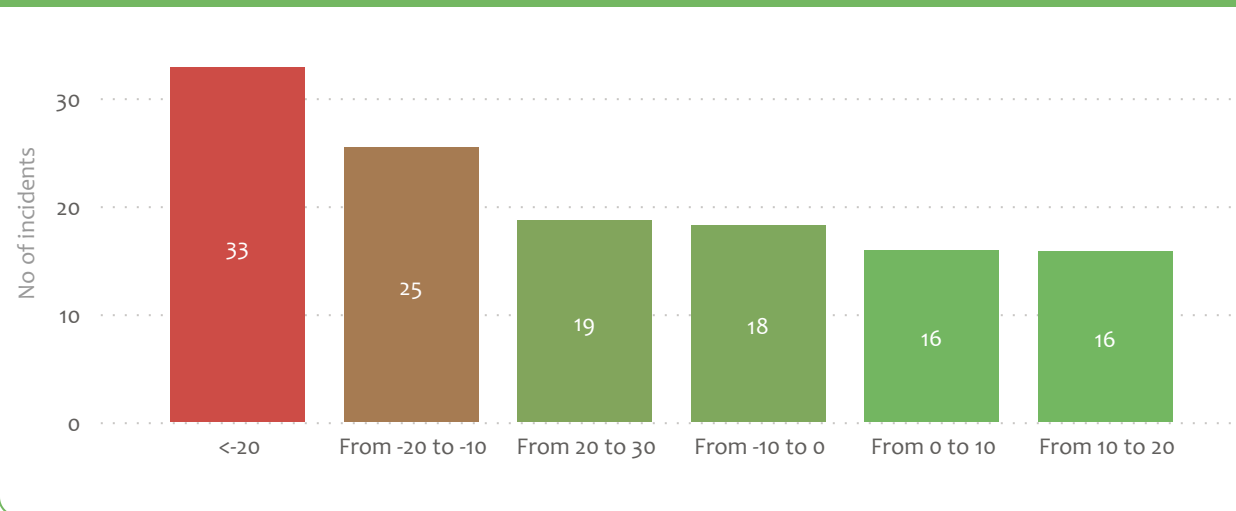
Incidents per day by Snow intensity

● Afternoon ● Morning ● Night

No of incidents

Snow intensity	Night	Morning	Afternoon	Total
Heavy Snow	12.08	12.58	11.50	36.17
Light Snow	6.18	7.31	8.75	22.24
No Snow	4.52	4.60	7.60	16.71
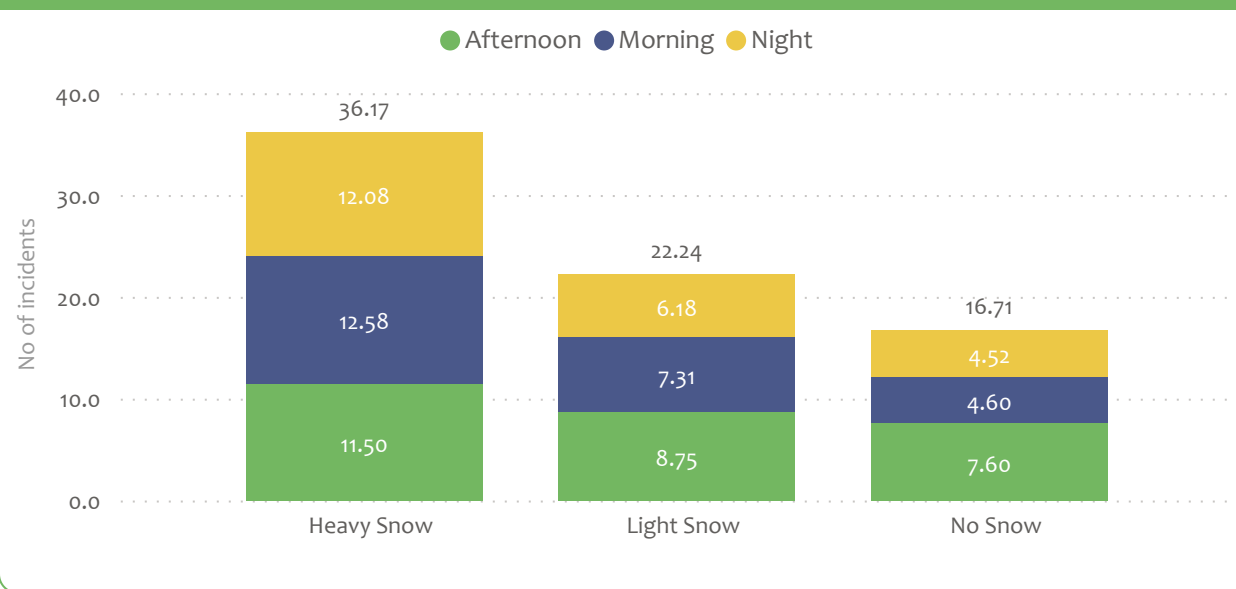
Incidents per day by Rain Intensity in Non-snow days

No of incidents

Rain Intensity	No of incidents
No Rain	17.20
Heavy Rain	15.55
Light Rain	14.07
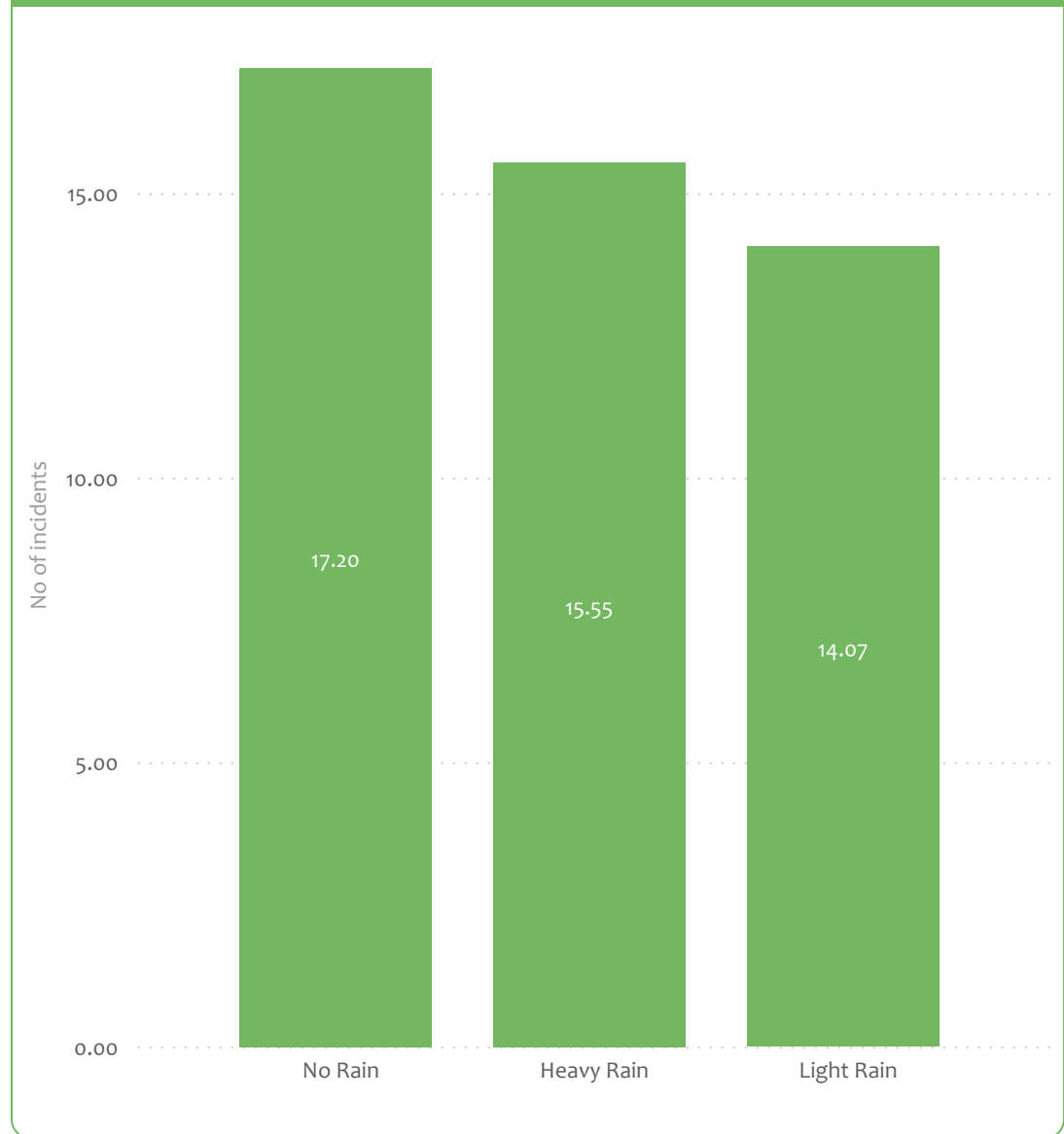
CALGARY TRAFFIC INCIDENTS ANALYSIS

From 2019 to 2023

Data Sources:

1. Calgary traffic incidents dataset: https://data.calgary.ca/Transportation-Transit/Traffic-Incidents/35ra-9556/data_preview
2. Calgary community boundaries: https://data.calgary.ca/Base-Maps/Community-Boundaries/ab7m-fwn6
3. Calgary street centreline: https://data.calgary.ca/Transportation-Transit/Street-Centreline/4dx8-rtm5/data_preview
4. Daily weather in CALGARY INTL A station: https://climate.weather.gc.ca/climate_data/daily_data_e.html?timeframe=2&Year=2023&Month=12&Day=8&hlyRange=2012-07-09%7C2024-02-08&dlyRange=2012-07-12%7C2024-02-08&mlyRange=%7C&StationID=50430&Prov=AB&urlExtension=_e.html&searchType=stnProv&optLimit=yearRange&StartYear=2015&EndYear=2024&selRowPerPage=100&Line=46&lstProvince=AB
5. Calgary four quadrants' boundaries: https://data.calgary.ca/Base-Maps/City-Quadrants/g2n2-qnvh/data_preview
6. Calgary downtown boundary: https://www150.statcan.gc.ca/n1/pub/91f0015m/2021001/m-c/m-c-calgary-eng.pdf