Traffic Incidents in Calgary February 2017 to January 2018 Traffic Incidents by Community District Traffic Incidents by Road Community District Percentage Percentage of Traffic Incidents Number of Traffic Incidents Number of Traffic Incidents 0.0 0.2 0.4 0.6 1.1 1.7 2.9 70 150 275 1 11 23 41 66 Percentage* 26 69 149 274 491 10 22 40 65 103 GVF = 0.96 GVF = 0.95 Natural Breaks GVF = 0.96Natural Breaks Manual A logical assumption is that longer roads would have more accidents, due to the simple fact that there In 2017 the arithmetic mean for the number traffic incidents that occured in each of the community he number of accidents increased greatly Number of Incidents based on Time of Day (24 hours) during rush hour periods of the day with the most districts in the city of Calgary was calculated to be 22.2 incidents. is more road foraccidents to occur, we determined this to be true by calculating a correlation incidents (578) occuring at 5PM. coefficient of 0.74 existing between the road's length and the number of accidents that occured. The number of incidents that occured at 5PM When comparing the 5 community districts with the most traffic incidents in 2017 to the average for —was **2.4 times** higher than the average number the city the following statistics were calculated: On the 3 roads that had the most traffic incidents in 2017 we wanted to determine the length along Downtown Commercial Core had 7.6 times more incidents each of the roads that an incident occured the numbers were calculated as the following: neasured and the results returned a time of 2:02PM. Beltline had **7.5 times** more incidents The average time shows us that the majority of In 2017 an traffic incident occured every **0.27 km** along **Deerfoot**, total length* = 131.9km Burns Industrial had **6.6 times** more incidents the accidents occured in the later part of the day Bridgeland/ Riverside had 6.5 times more incidents In 2017 an traffic incident occured every **0.13 km** along **Glenmore** total length* = 65.6km The number of incidents that occured in the PM Winstone Heights/ Mountview had 4.7 times more incidents was **3708** whereas the number of that occured in In 2017 an traffic incident occured every **0.15 km** along **Deerfoot** total length* = 53.9km the AM was 2017 This means that drivers were 29.6% more On average if you were in one of these five community districts your chance of being involved in a likely to be involved in a traffic incident if Note* Total length is both ways along the road and all arterial portions of the road i.e. exits. traffic incident was **6.6 times** higher than the city's average. they were driving in the PM times of the day *Note: Percentage of traffic incidents in a community district Top 5 Communities with the most Traffic Incidents in 2017: In 2017 there was a total of **5725** traffic incidents The 3 roads in the city of Calgary with the highest The graph below shows the number of traffic incidents of the total number of traffic incidents in the city of Calgary (Outlined in red) that occurred in the city of Calgary. number of traffic incidents in 2017 are: in each month for 2017. **November, December,** and The histogram below shows the count Traffic Incidents based on Downtown Commercial Core.. ...167 incidents (1.86km) January accounted for 32.5% of all incidents. 1.**Deerfoot** - 491 incidents Traffic incidents are the conglomeration of the time of day: of comm. districts in each of the classes. ..165 incidents (1.26km) numerous types of incidents, the types of incidents are: 2. Glenmore - 473 incidents ..144 incidents (3.99km) Number of Comm. Districts **Burns Industrial** -Multi-vehicle incidents -Road closure(s) Bridgeland/Riverside.. 3.16th Ave. - 351 incidents ..142 incidents (2.08km) -Traffic light Malfunctions -Two-vehicle incidents Winston Heights/Mountview. ..103 incidents (4.39km) 12% -Incidents with pedestrian(s) -Single-vehicle incidents Each of these community districts are within 5 km of the city's 7.5 -Stalled vehicle(s) center (with their distance from the city center in brackets) 48% Kilometres The most common type of incident was two-vehicle Traffic Collisions by Quadrant: incidents with 3255 occurrences in 2017. Scale: 1:115,0001024 incidents - 18% Next was single vehicle incidents with 962 Projection: 3 degree, Transverse Mercator 8AM-12PM - 1474 Incidents1366 incidents - 24% occurrences in 2017 followed by multi-vehicle incidents 1PM-7PM - 2749 Incidents February March April May June July Mughat October October December January which accounted for **740** incidents in 20171403 incidents - 25% Data: City of Calgary 8PM-12AM - 695 Incidents Date: February 2018 SE.....1931 incidents - 34% 1AM-7AM - 810 Incidents Cartographers: Matthew Kemper, Kelly Mooney