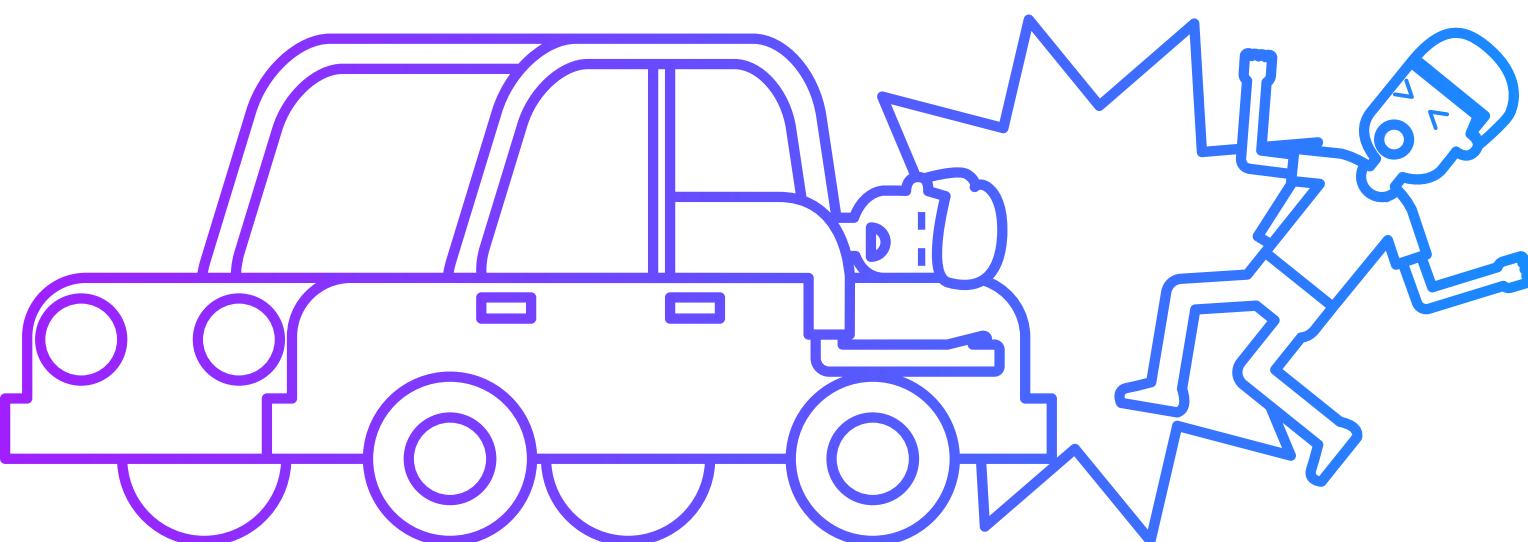
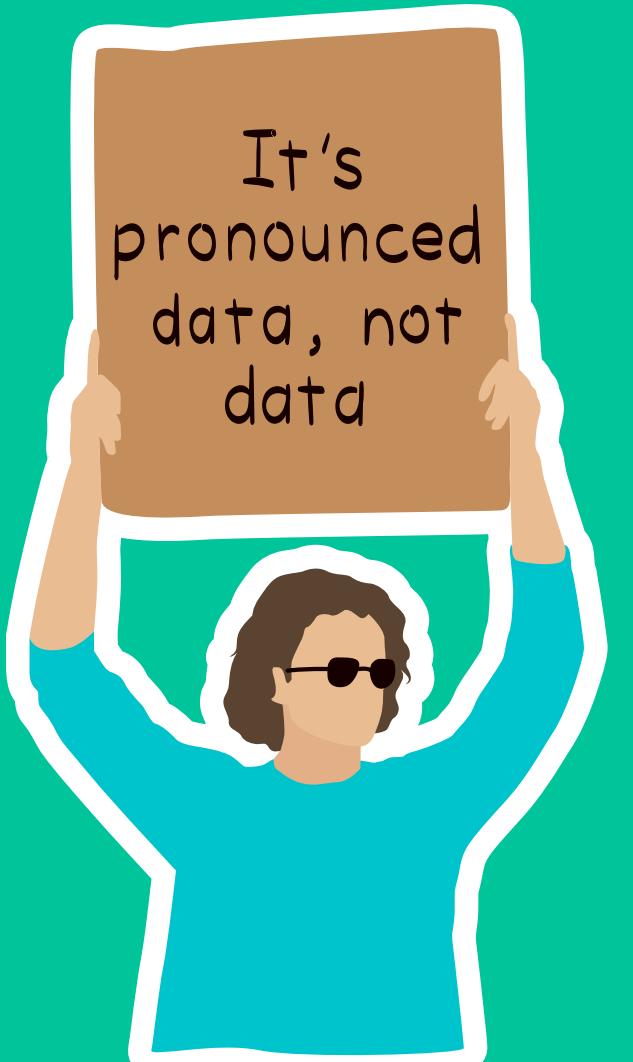

Visualizing vehicle crashes in Chicago



Data overview

- I Source : Data taken from Chicago data portal
- II Chosen time period: from 2019 of January to 2020 of December
- III Goal : Is to study the vehicle collision of two different complete situations, one being as a normal year Vs pandemic year.
- IV Data Transmission: Cleaned dataset -> collected ->
Data Processing -> visualizations

Main Attributes: Number of crashes, weather condition, lighting conditions, area code, crashes by month and week.



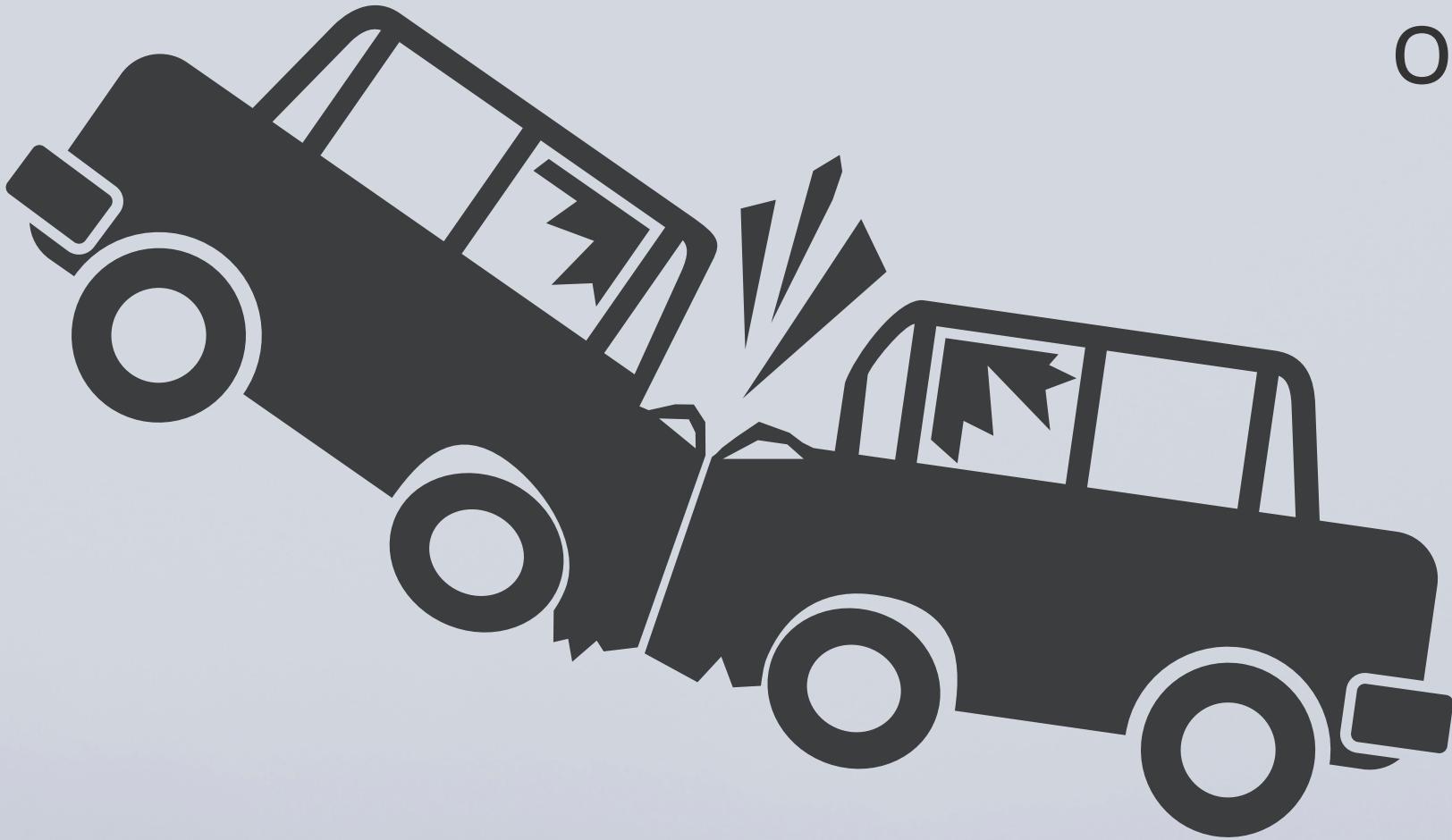
Domain-Question

How did COVID-19 pandemic affect road crashes and crash outcomes in Chicago?

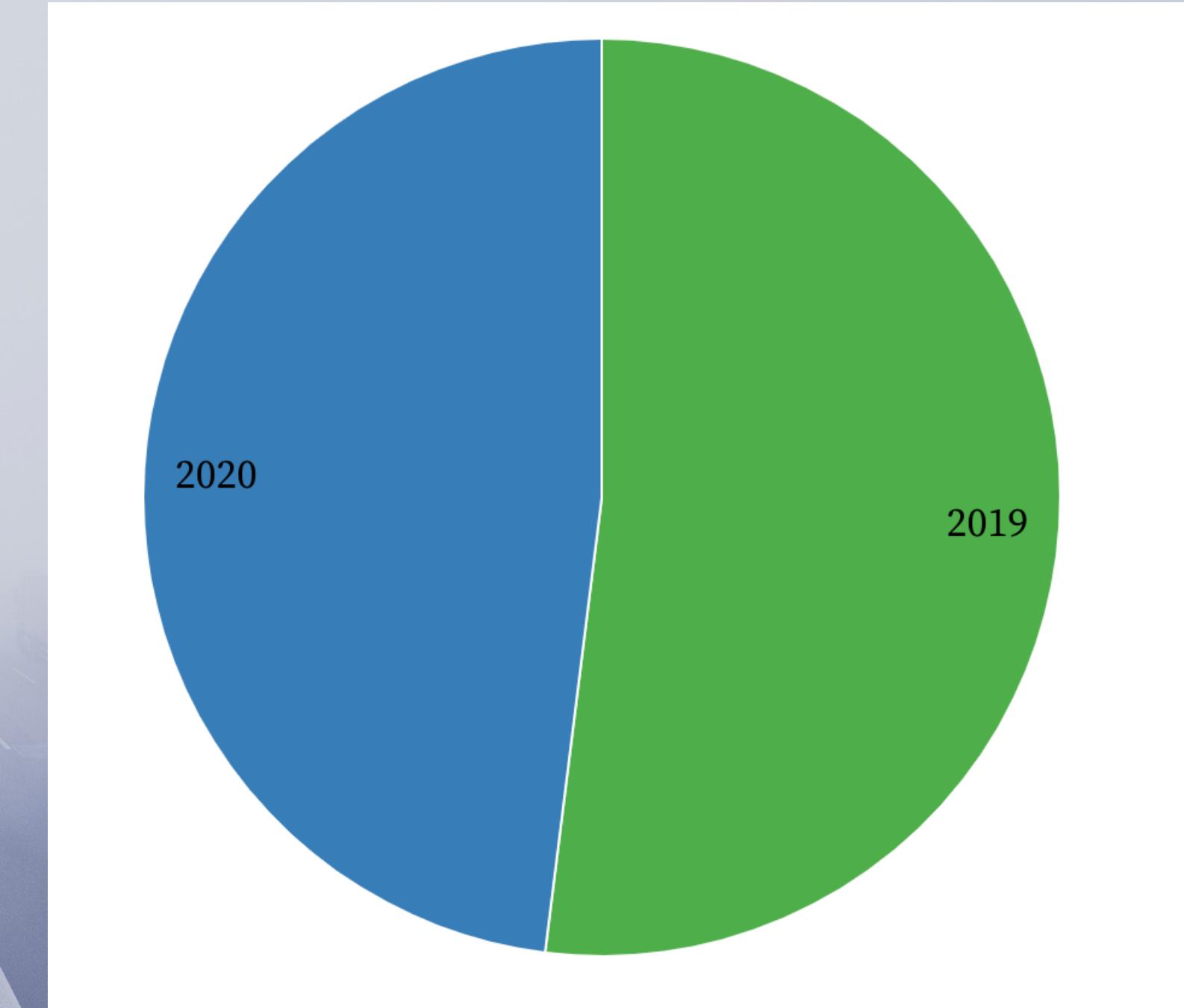
Data-Questions

- Based on the dataset in which year has higher amount of crashes occurred?
- How did the pandemic change the frequency of crashes based on the area.
- How did the number of crashes change over the time period by month.
- How did the number of monthly injuries change from year 2019 to the year 2020.

Based on the dataset in which year has higher amount of crashes occurred?



Conclusion : As expected we have higher number of crashes in 2019 than 2020. But we do not see a major difference and the reason can be, reduced crowd can lead to increase in speed.



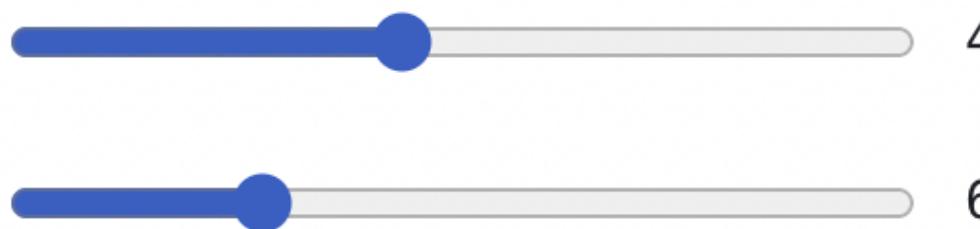
Attributes:

- Number of crashes
- year

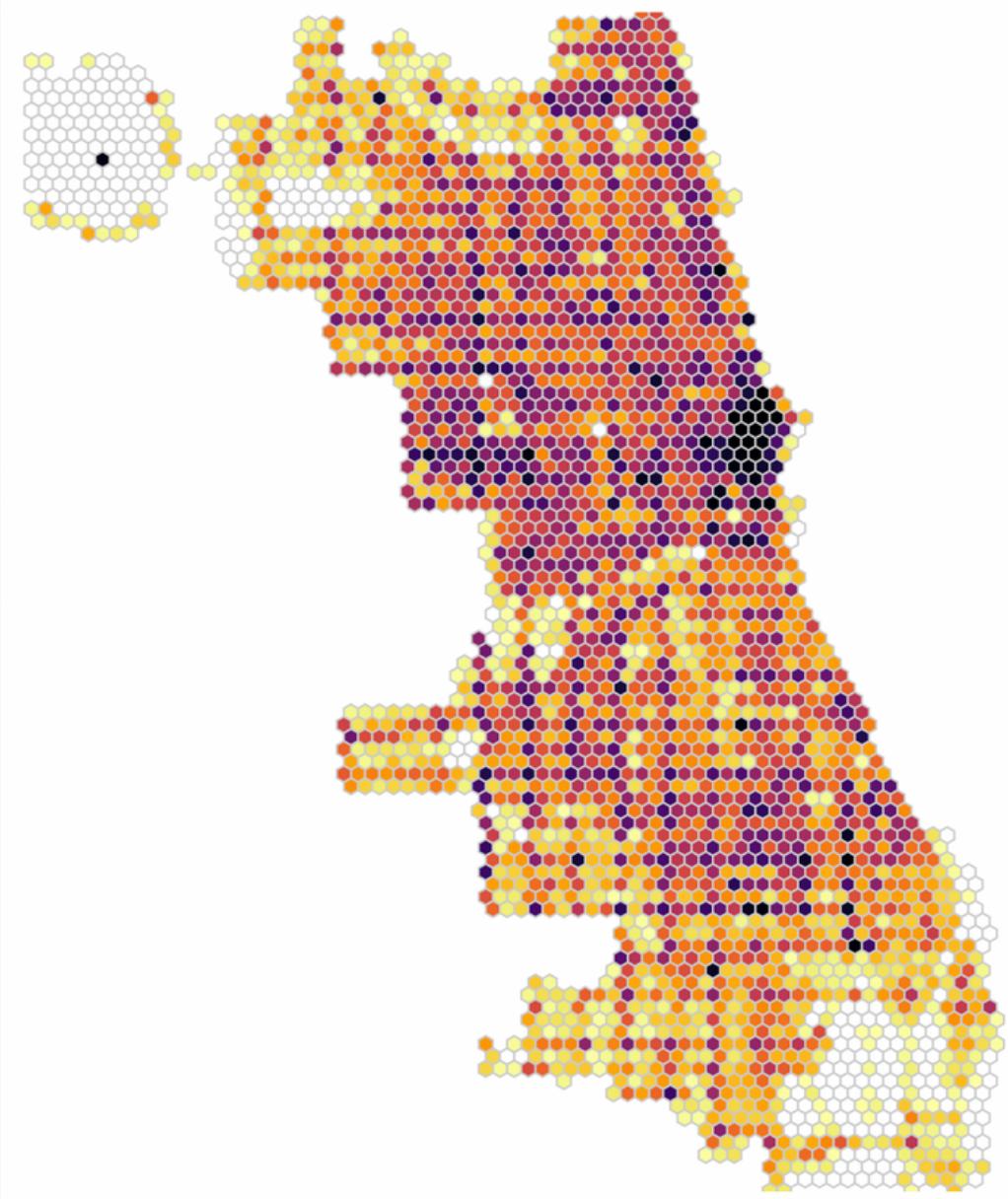
Data-Question 2

How did the pandemic change
the frequency of crashes based
on the area.

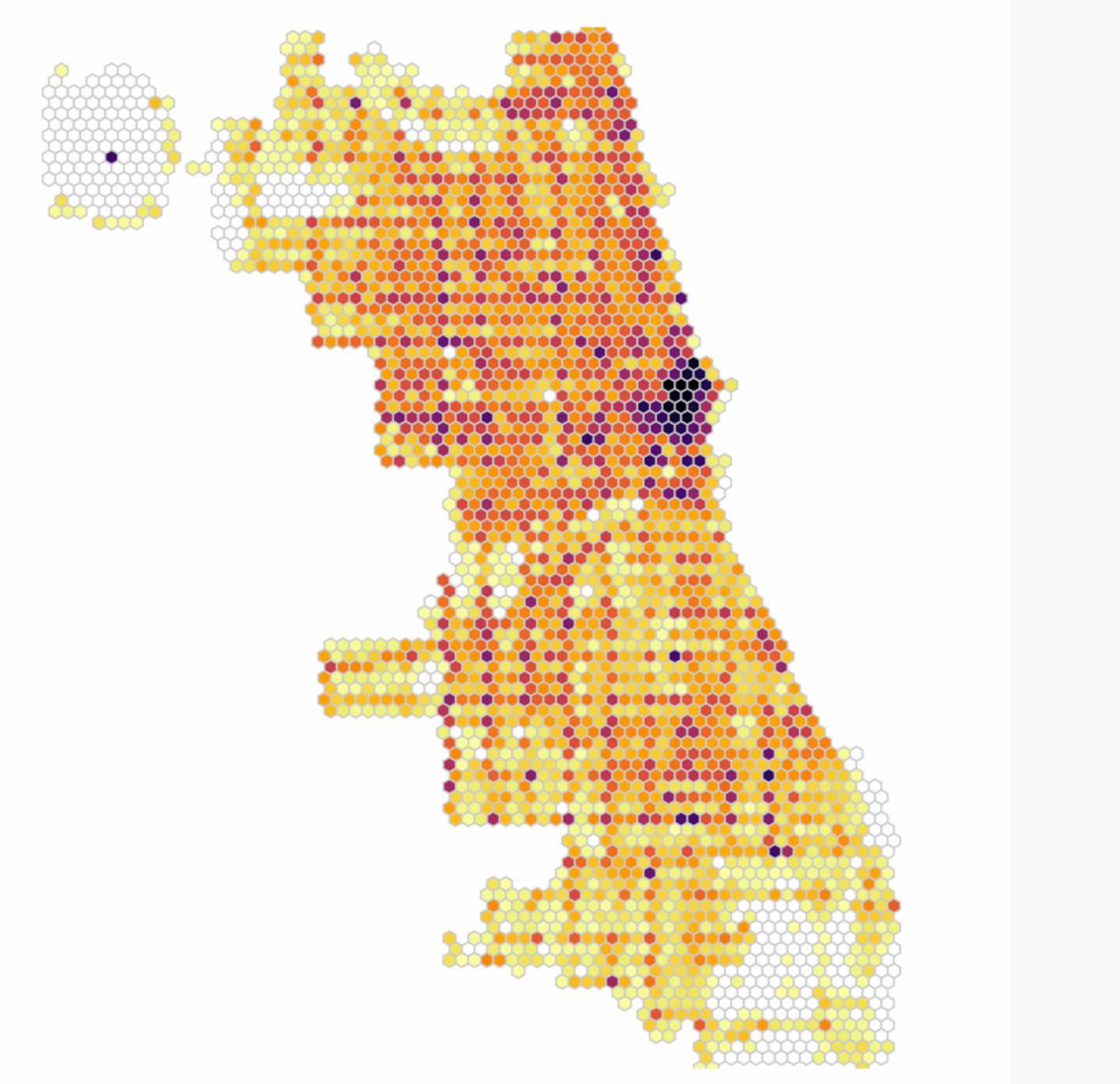
INTERACTABLE GRAPH 1



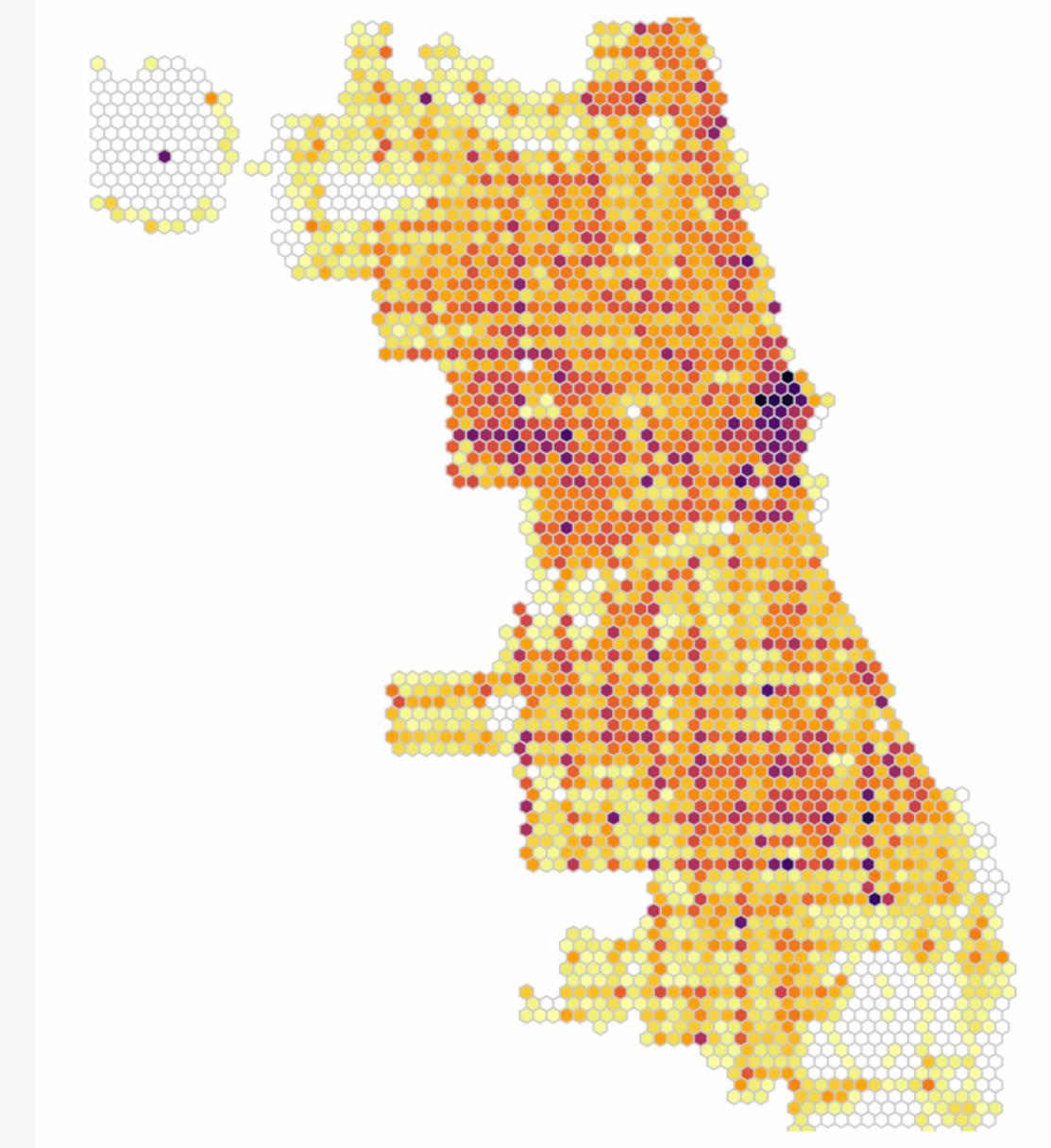
Used to control color scale and hex scale



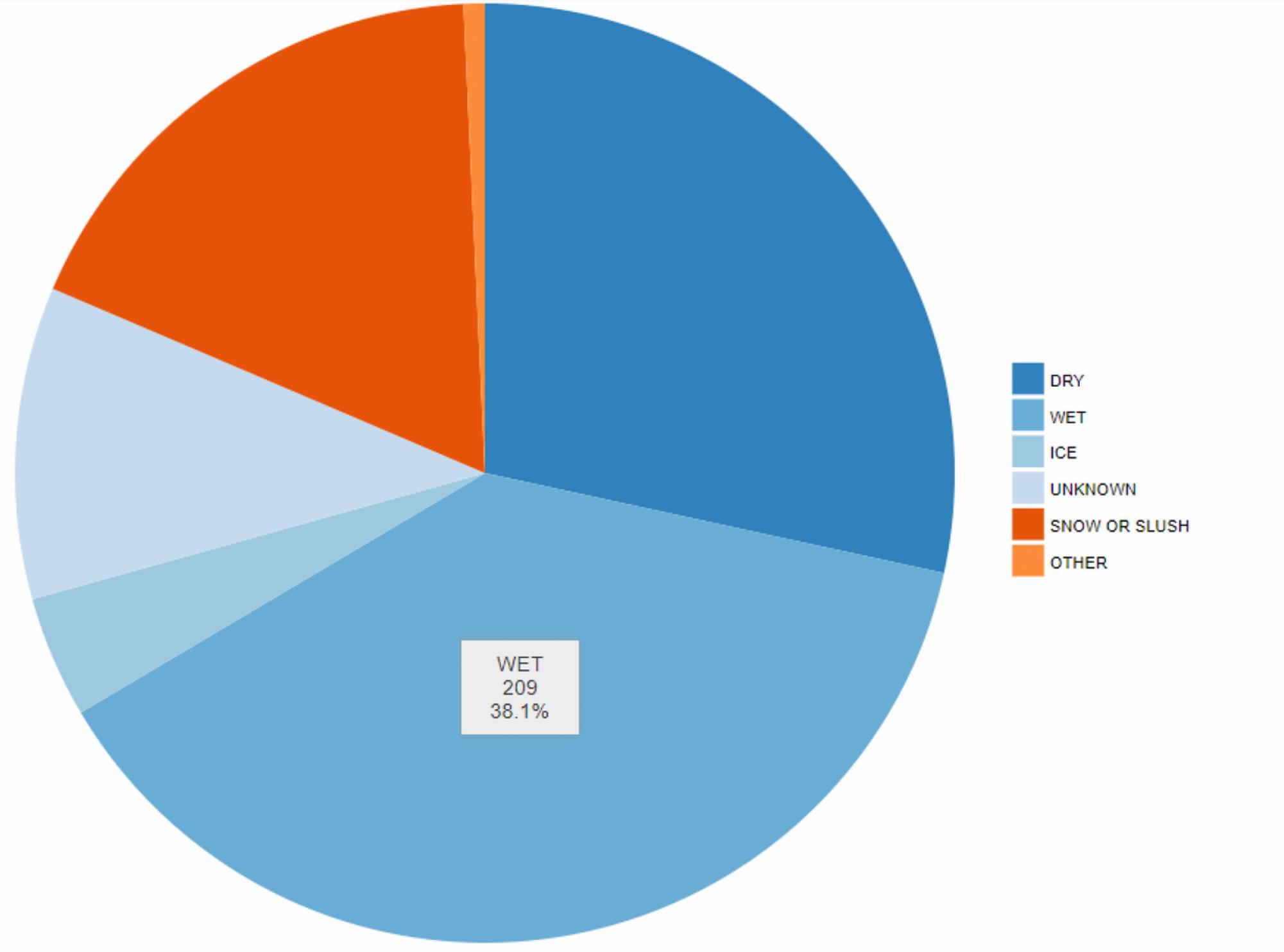
Entire Dataset



Data from 2019



Data from 2020

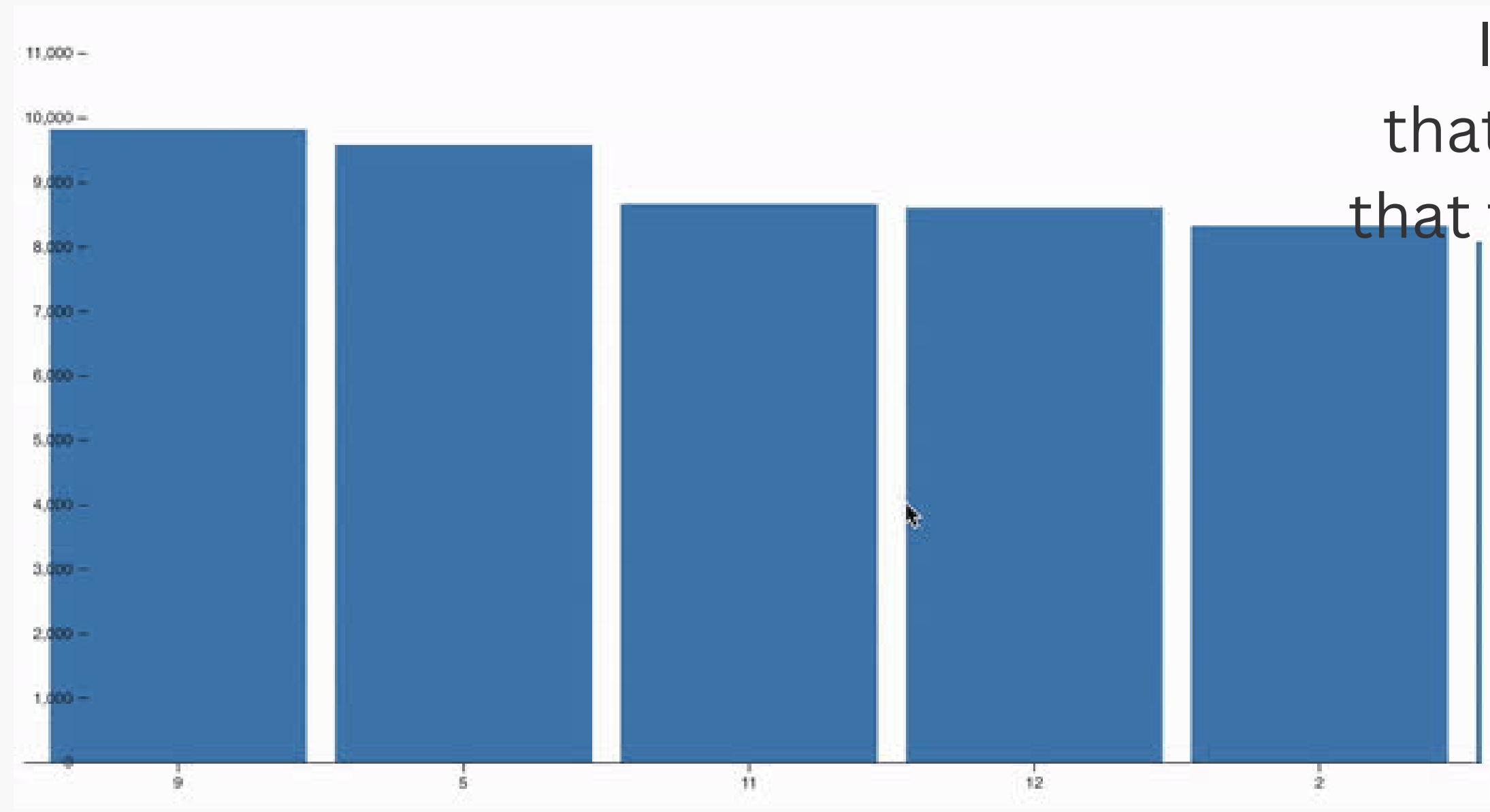


Weather condition at time of Crash

Majority of the crashes that occurred during 2019 and 2020 have occurred when the surface_condition was wet

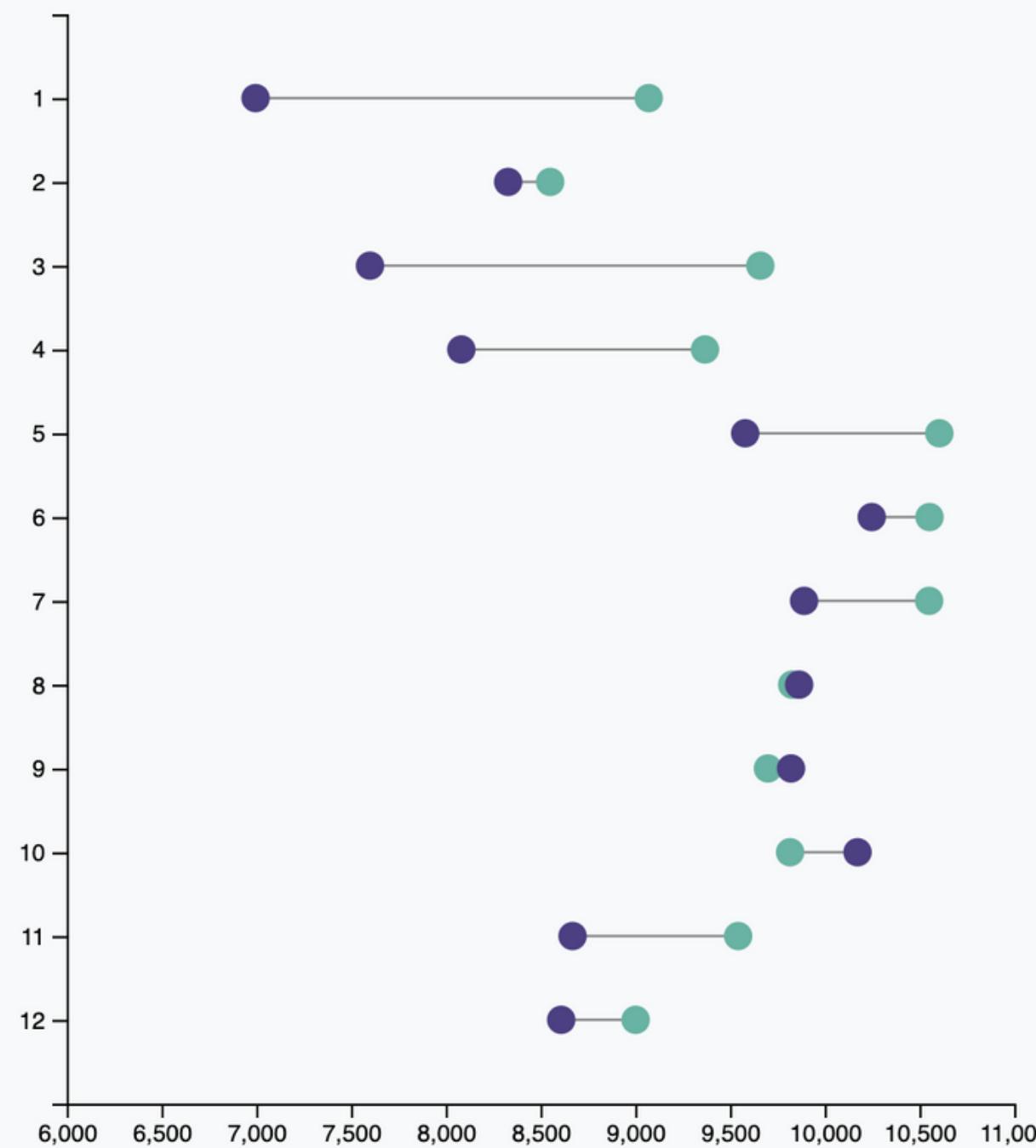
Question 3: How many crashes that took place each month in the year 2019.

INTERACTABLE GRAPH 2



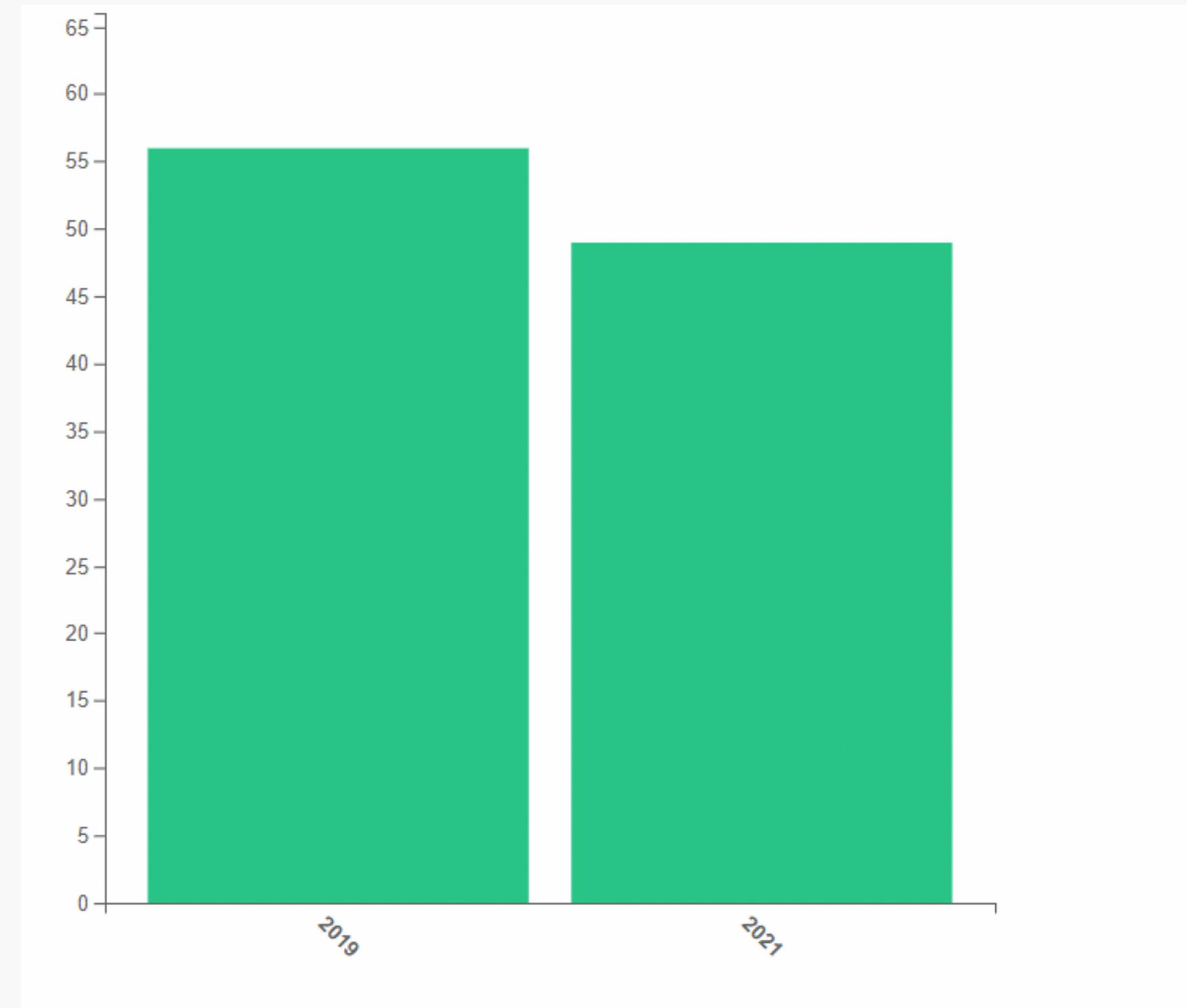
Interactive Zoomable graph that shows the number of crashes that took place in each month of the year 2019

Comparison of crashes by each month from 2019 to 2020



Dumbbell Graph

Question 4: How did the number of injuries change over the selected years?



Thank
you

