

MINNESOTA INTERSTATE TRAFFIC PRESENTATION

An in-depth analysis of traffic volume on the
highways

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DEPARTMENT OF
TRANSPORTATION



Overview:

The Minnesota Department of Transportation has requested to develop a dashboard to monitor **incoming traffic** data on highways. This will help them to make important **infrastructure** decisions (adding or changing lanes, entrances, or exits), and ensure there won't cause problems for drivers.

Key patterns:



Traffic volume
on different
timescales
(organized by
year, month,
week, day, and
hour)



The effect of
weather on
traffic
volume

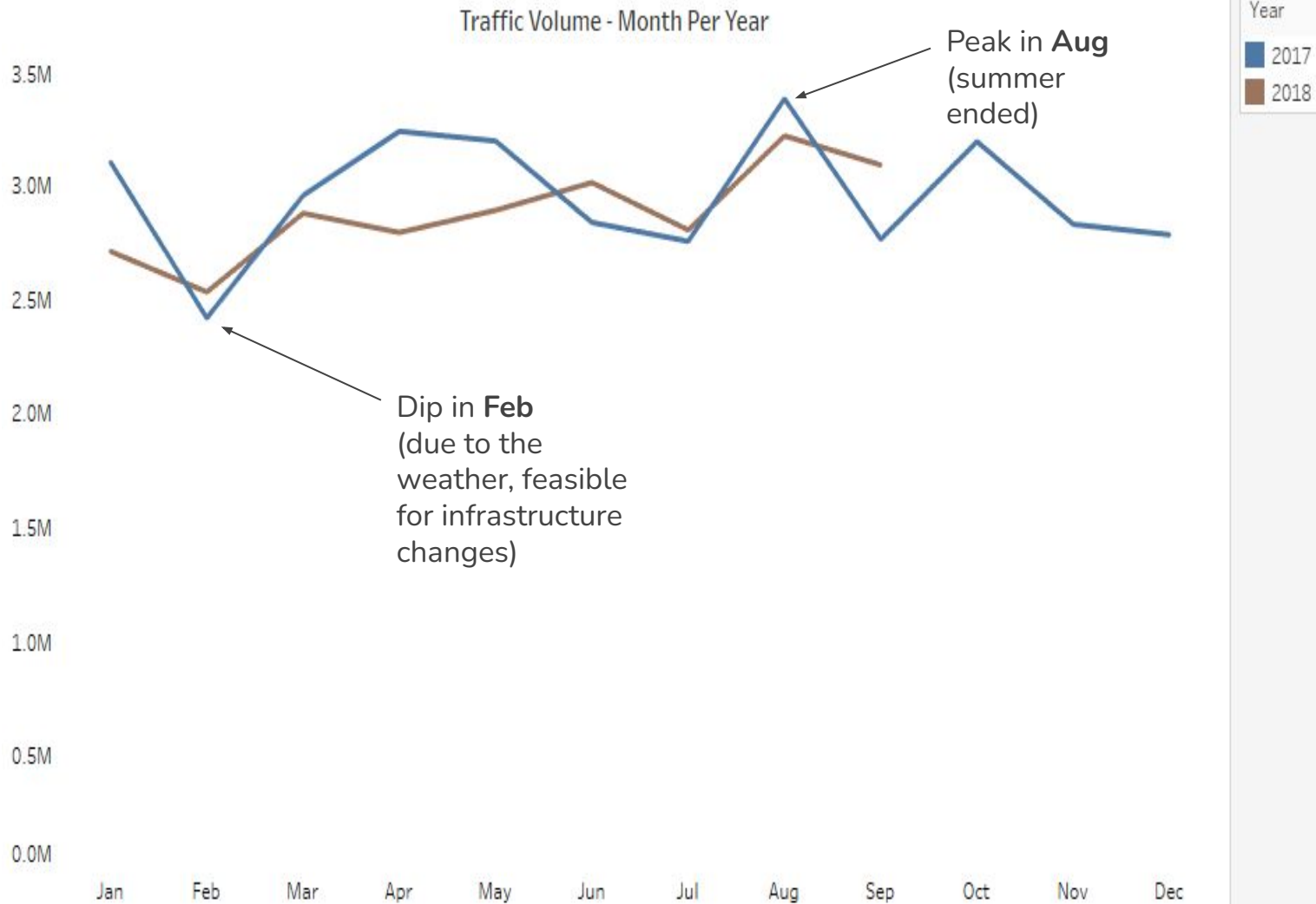


Holiday(s)
with the
highest
traffic
volume

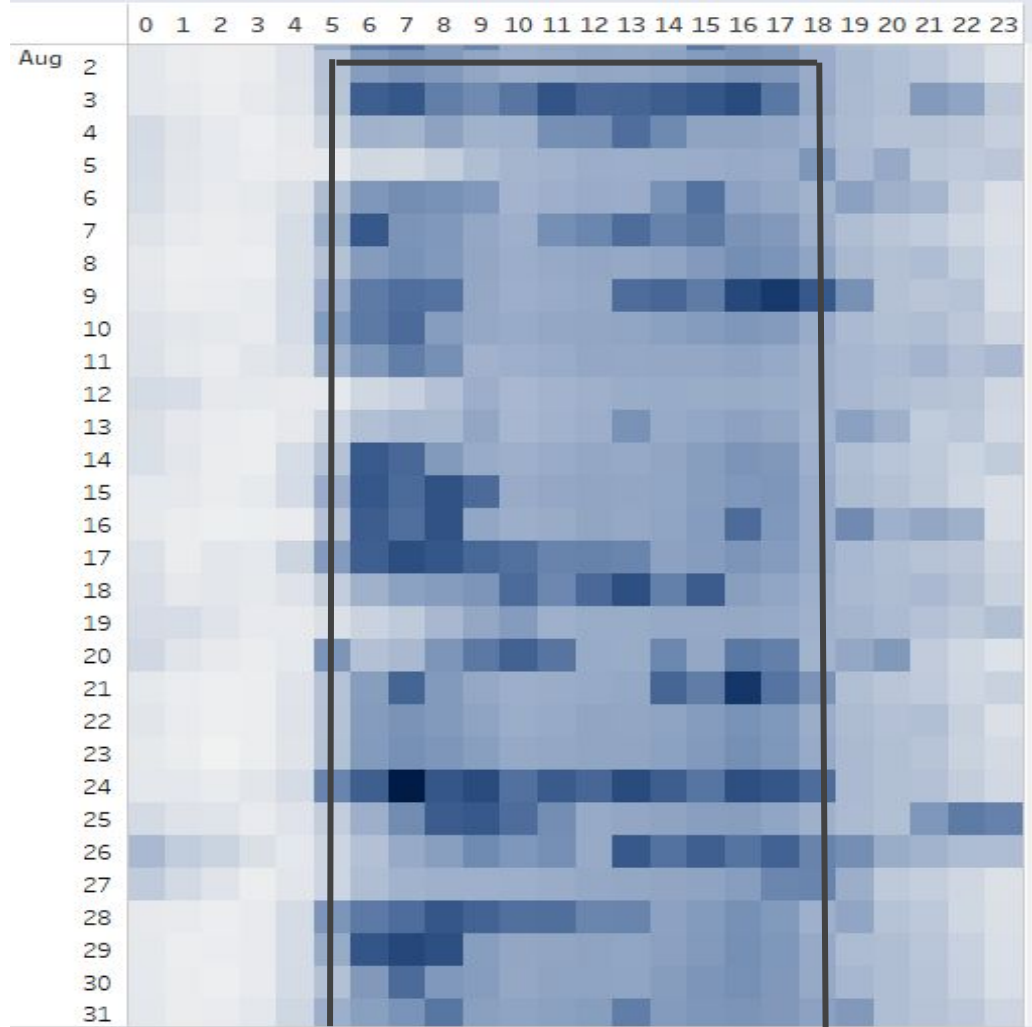
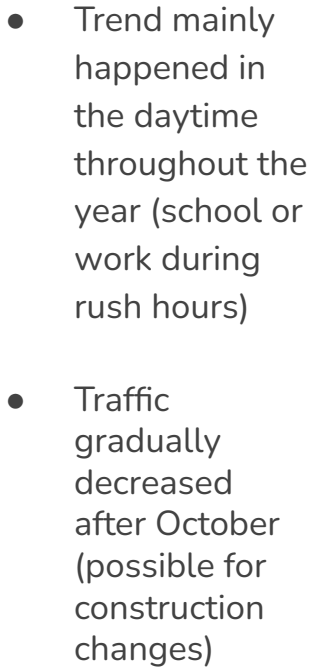
Monthly traffic



- Seasonality
- More **fluctuated** in **2017**
- Expect the same pattern in **2018-Q4**



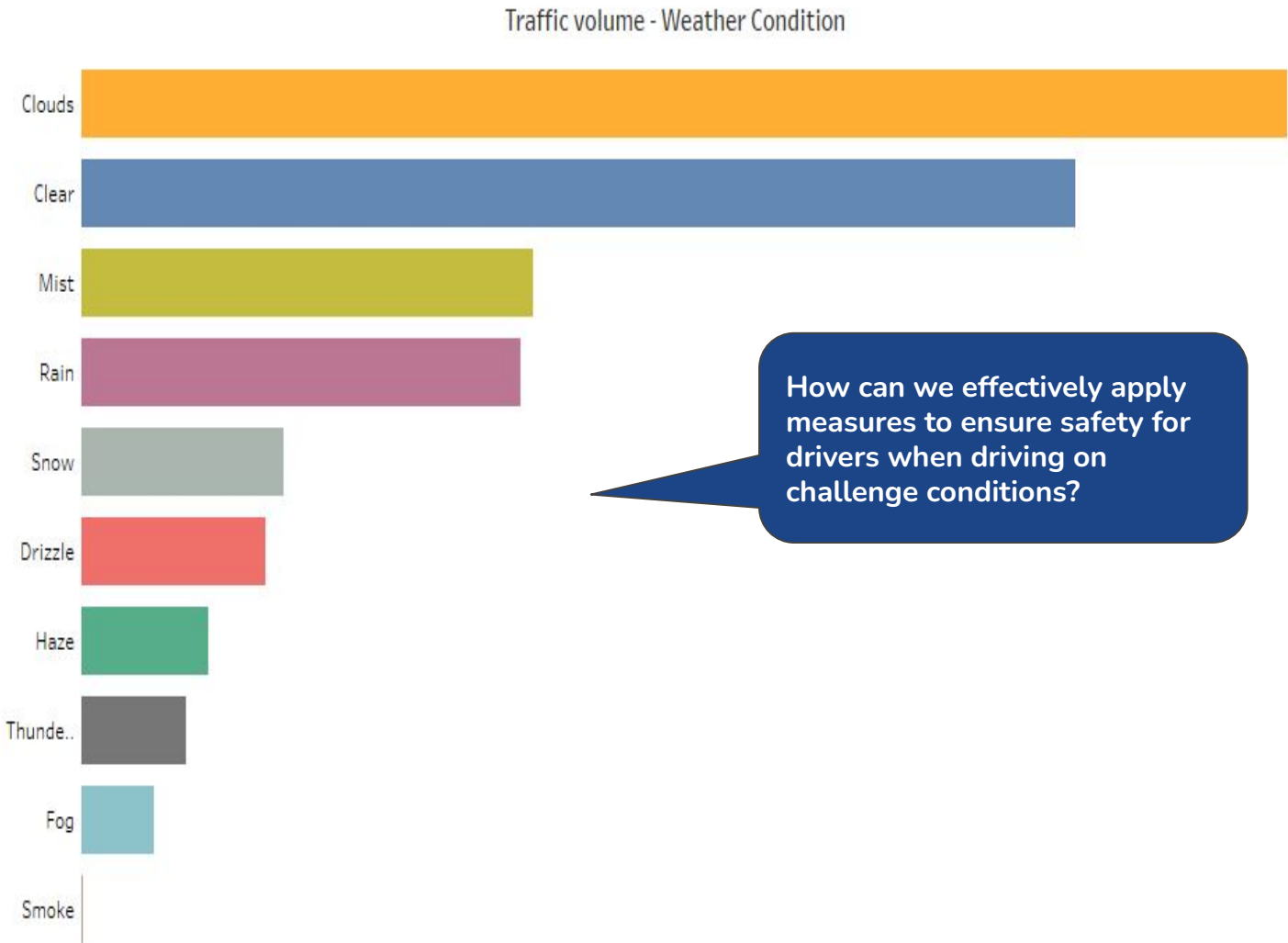
Hourly traffic



Weather behavior on traffic



- **Clouds** and **Clear** are dominated (~58% out of 61M in traffic)
- Pretty decent in traffic on both **Mist** and **Rain**
- **Lower visibility** conditions lead to decrease in traffic



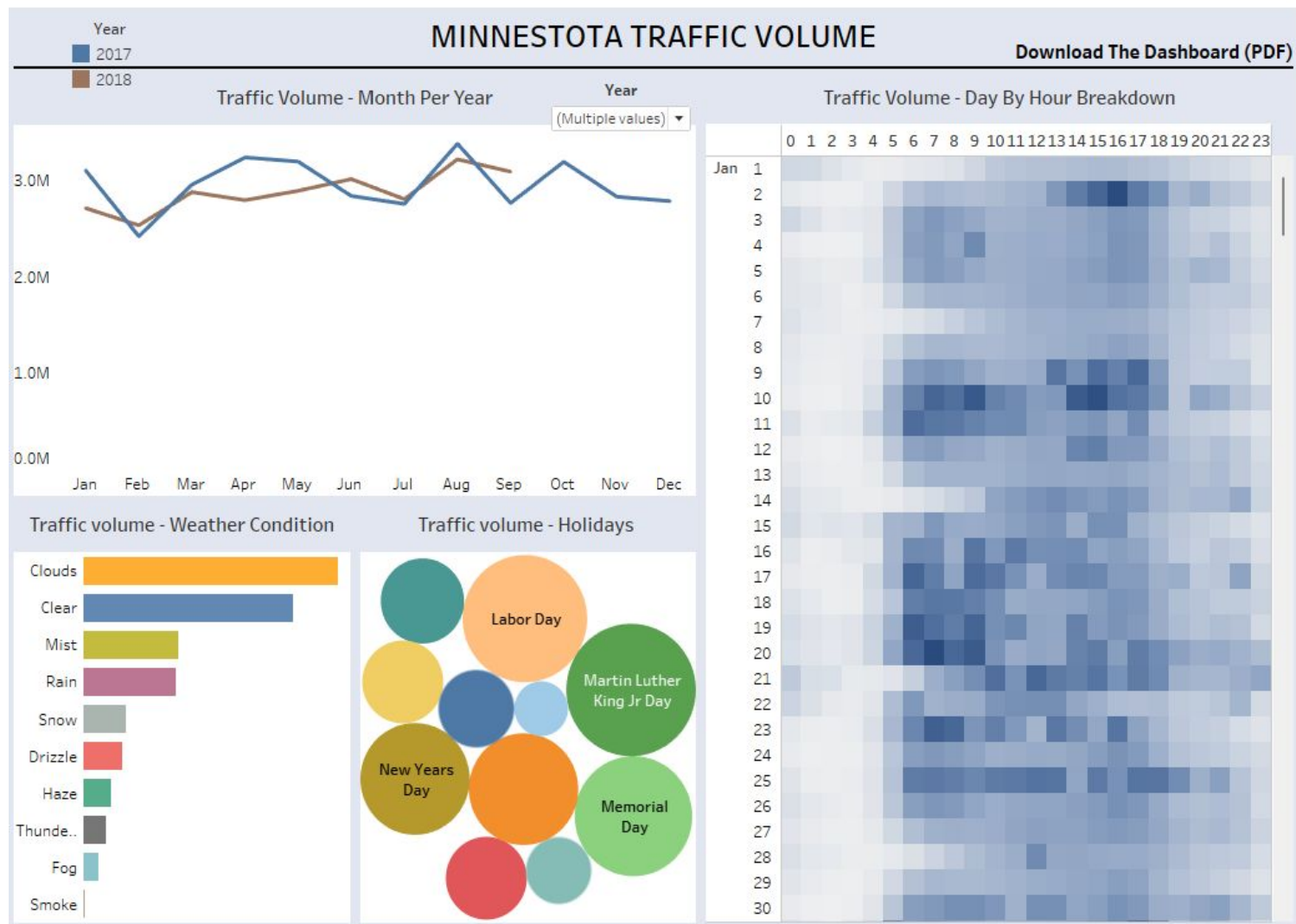
How can we effectively apply measures to ensure safety for drivers when driving on challenge conditions?

~20K in traffic on holidays



- January accounted the highest traffic (over a $\frac{1}{4}$)
- Holidays aren't **impact much** on traffic volume.





Reference:

[traffic_volume](#)
[Tableau](#)
[Public](#)



THANK YOU!