ANALYSIS OF COLLISIONS
CITY OF WATERLOO

2018-2022

VISION ZERO

- **Traffic Collisions are Not Accidents!**

- **They always have a cause, and can be prevented**

- Long-term plan is to reduce serious injuries and deaths
- Caused due to traffic collisions
- Committed to learn about the causes to be able to prevent them

HIGH RISK DRIVING BEHAVIORS

AGGRESSIVE DRIVING

- **Follow** too **Closely**
- **Disobey Traffic Signals**
- **Fail** to **Yield** the **Right of Way**

SPEEDING

Pedestrian Survival:

- **50 km/h = 15%**
- **30 km/h = 90%**

DISTRACTED DRIVING

- **Normal Reaction Time: 2 sec**
- **Distracted: 3 – 4 sec**
- **Additional 26 meters** to come to a **full stop**.

VISION ZERO STRATEGY:

Engineering

Enforcement

Evaluation

Education

Engagement

VISION ZERO STRATEGY:

EVALUATION

- Data Driven
- Tracking Measures
- Annual Analysis
- Street Investigation

ENGINEERING

- Infrastructure for Vulnerable Users:
  - Cyclists
  - Pedestrians
- Street Narrowing
- Speed Humps

ENFORCEMENT

- Automated Speed Enforcement (ASE) units remind to slow down.
- Reduce speeding
- Increase Safety

WATERLOO OPEN DATA

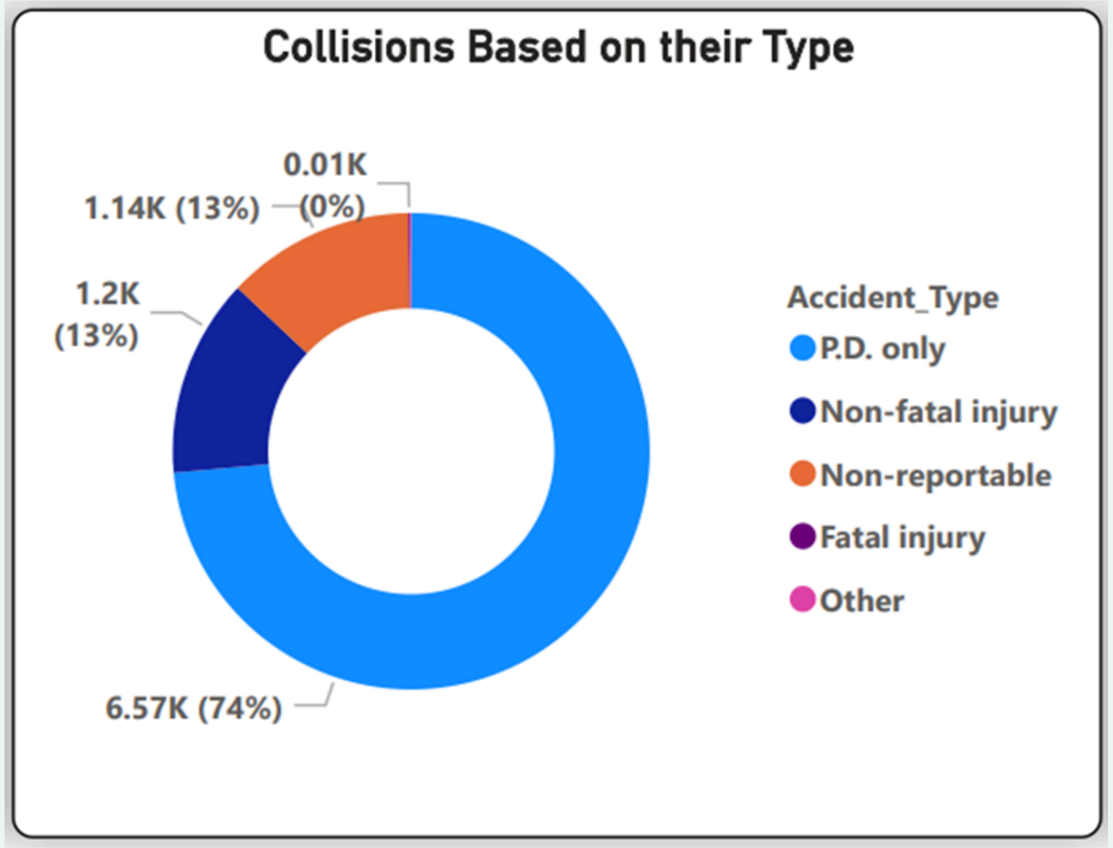
TRAFFIC COLLISIONS METADATA

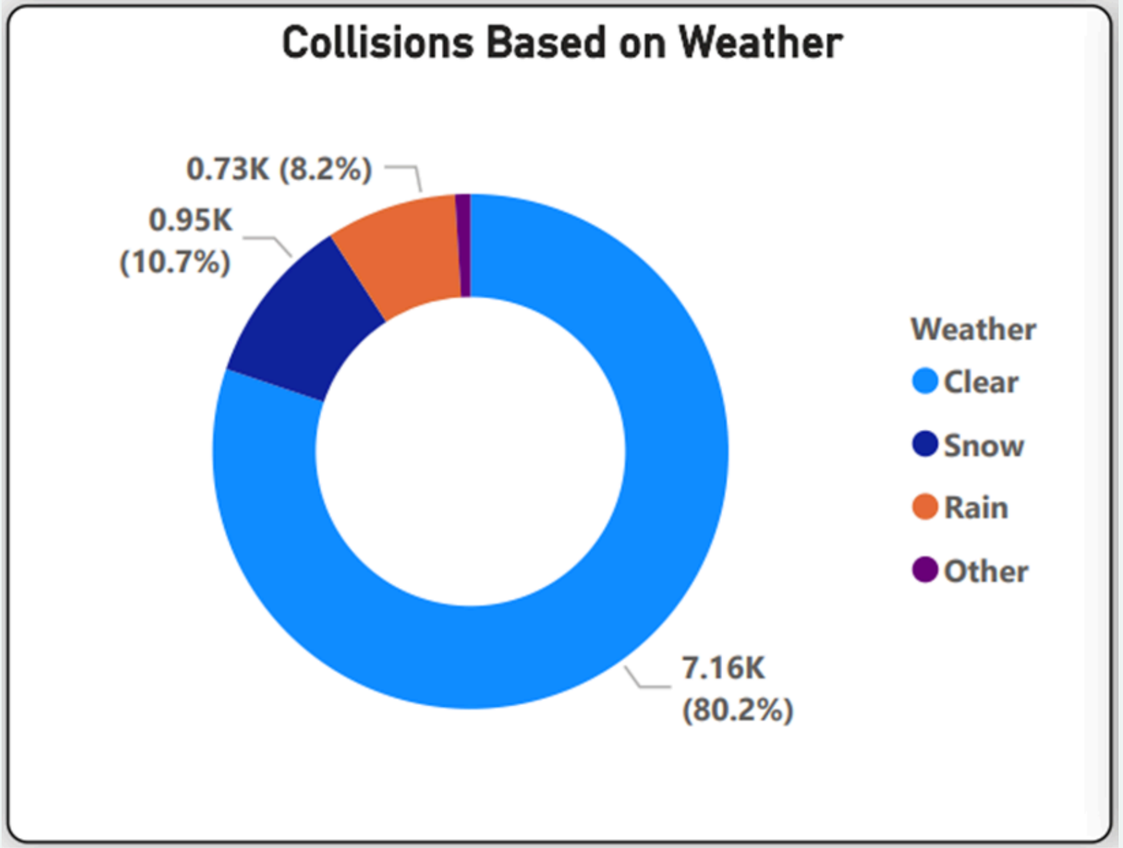
Published: 29 November 2015

Details: 8927 Collisions

Common Collision Types:

- Police Dept.
- Non – Fatal



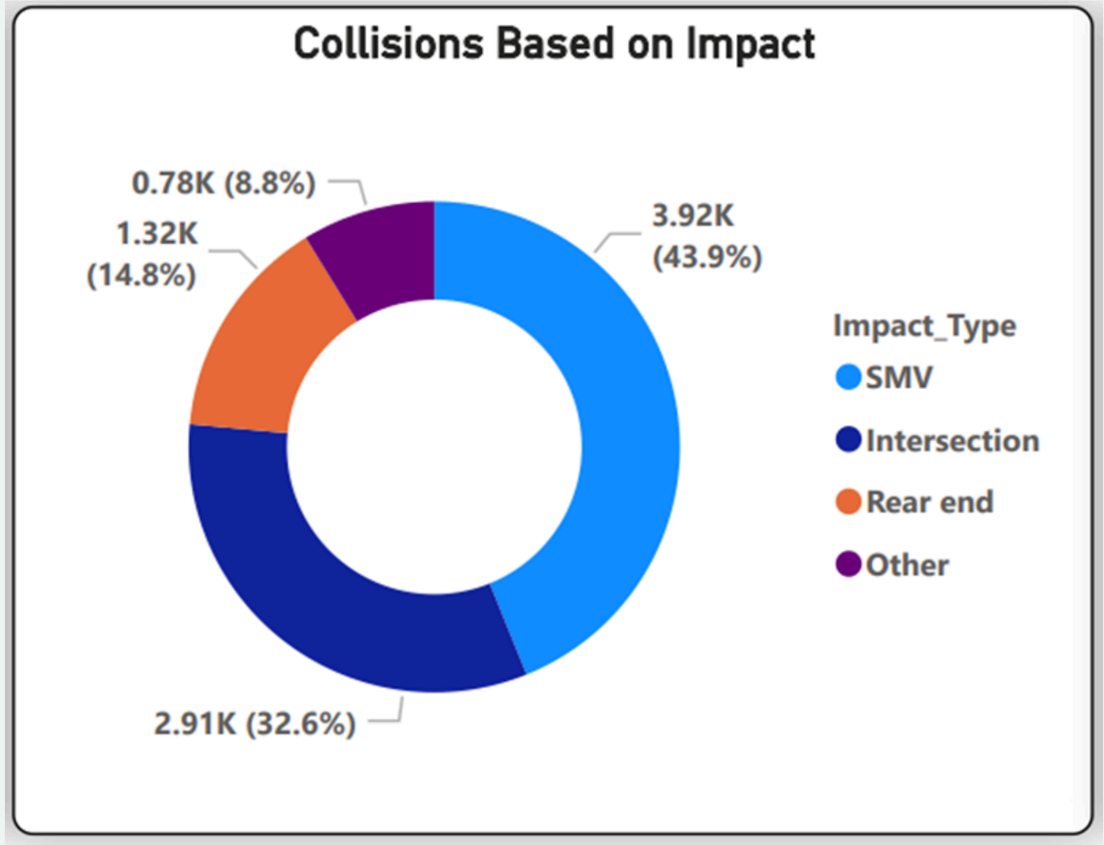


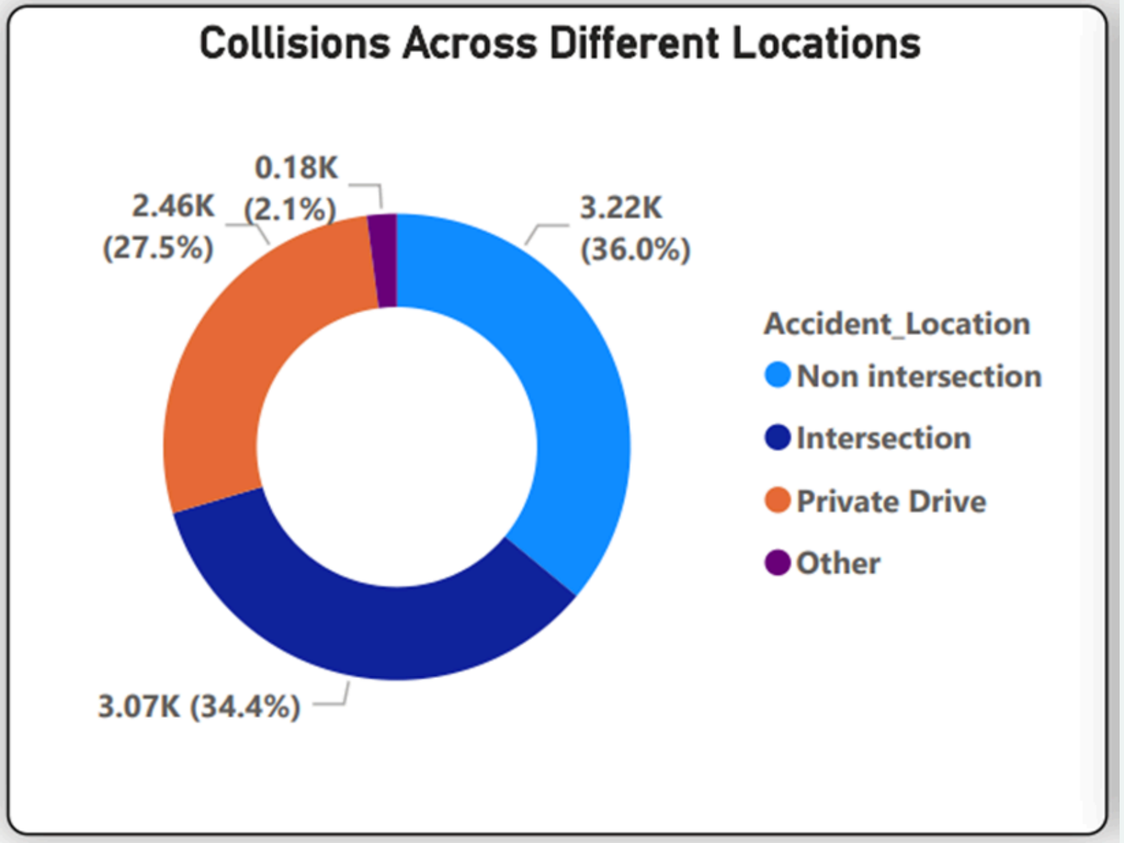
Most Collisions by Weather:

- Clear
- Snow

Frequent Collision Causes:

- Slow Moving Vehicles
- Intersections



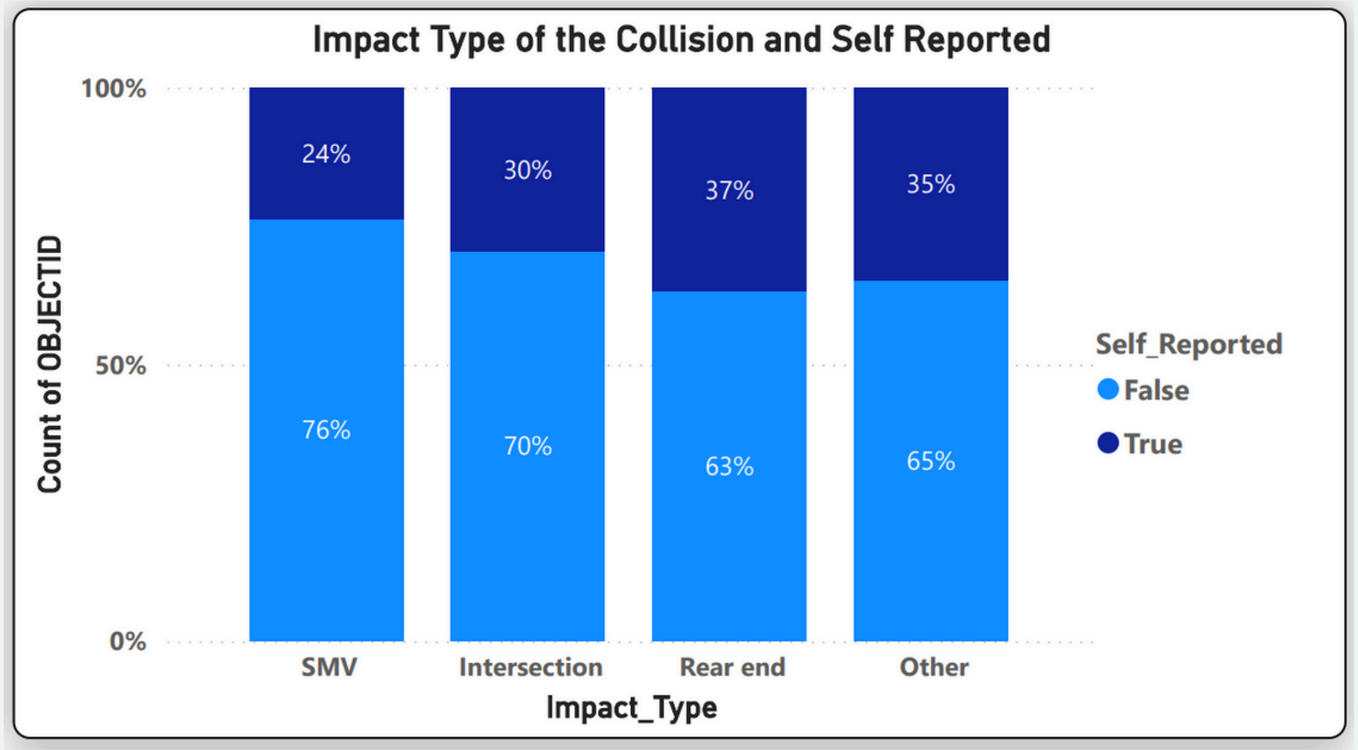


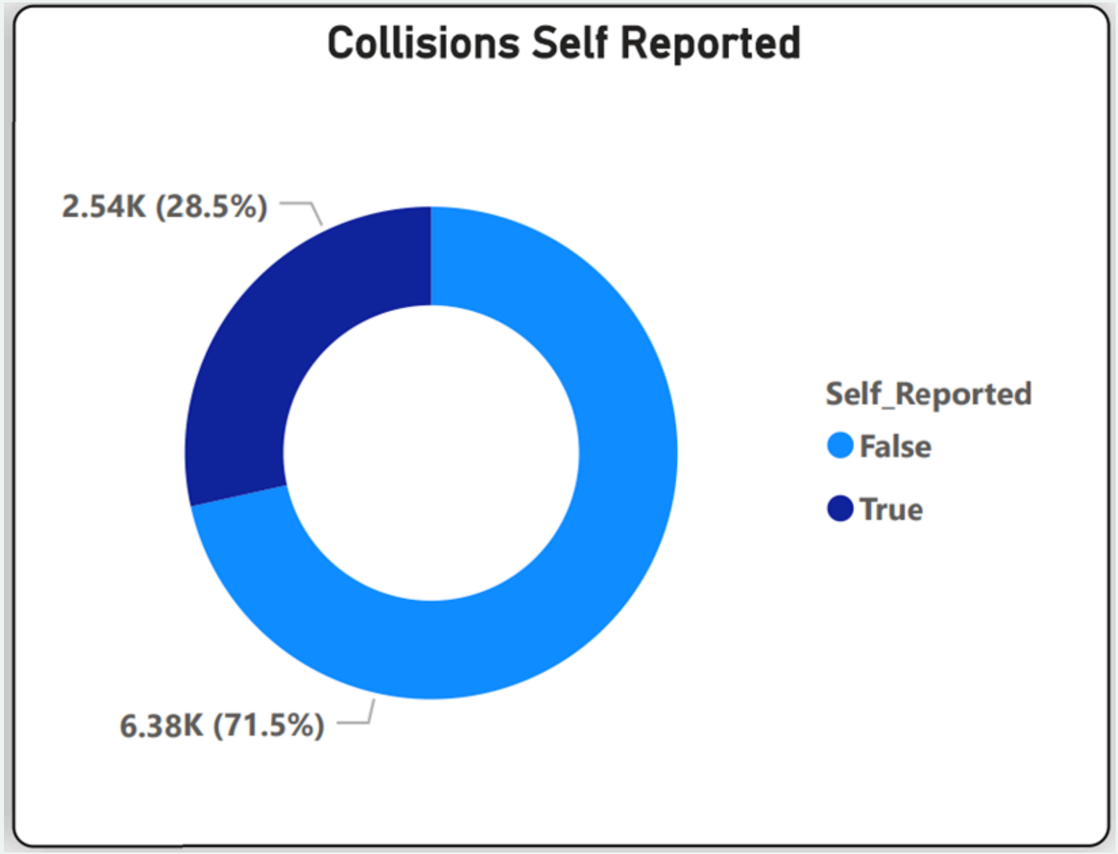
Common Collision Locations:

- Non- Intersections
- Intersections

Self-Reported & Types:

- Lowest : SMV
- Highest: Read End



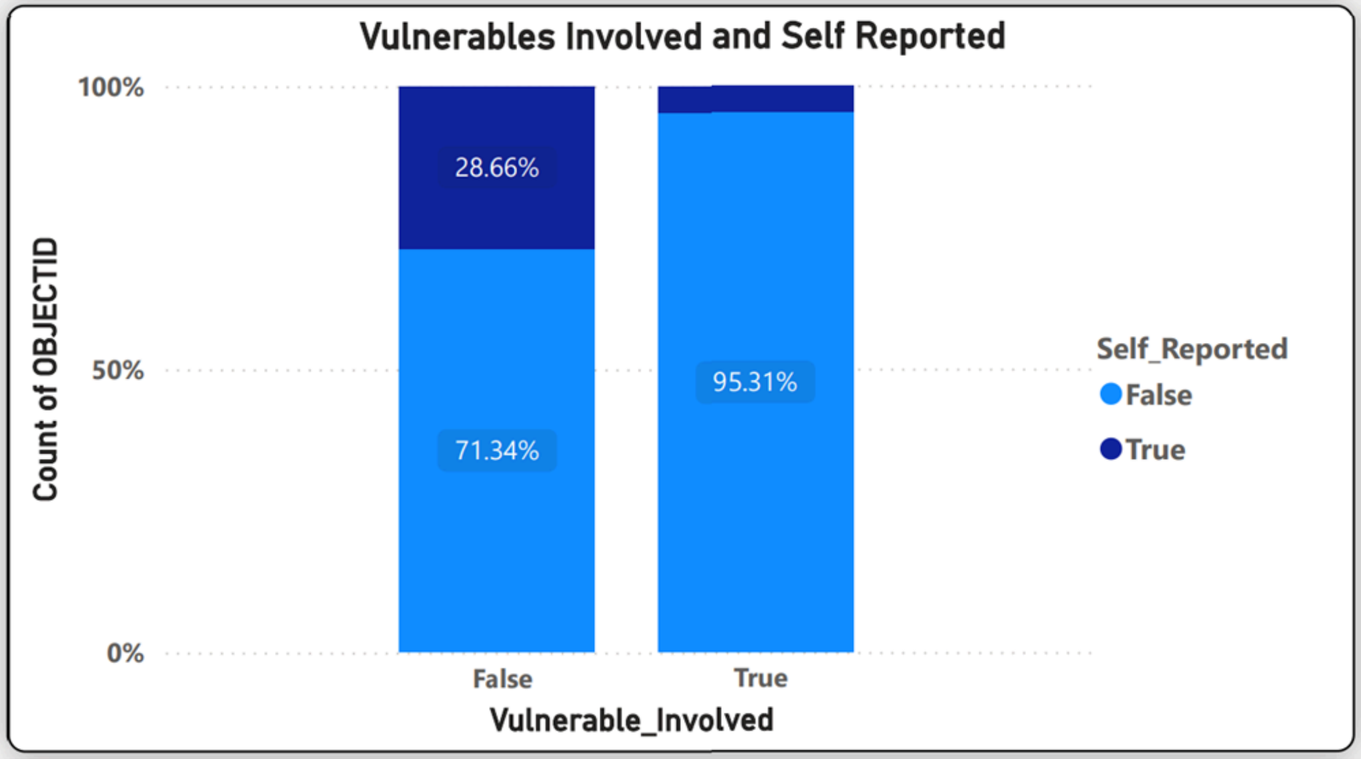


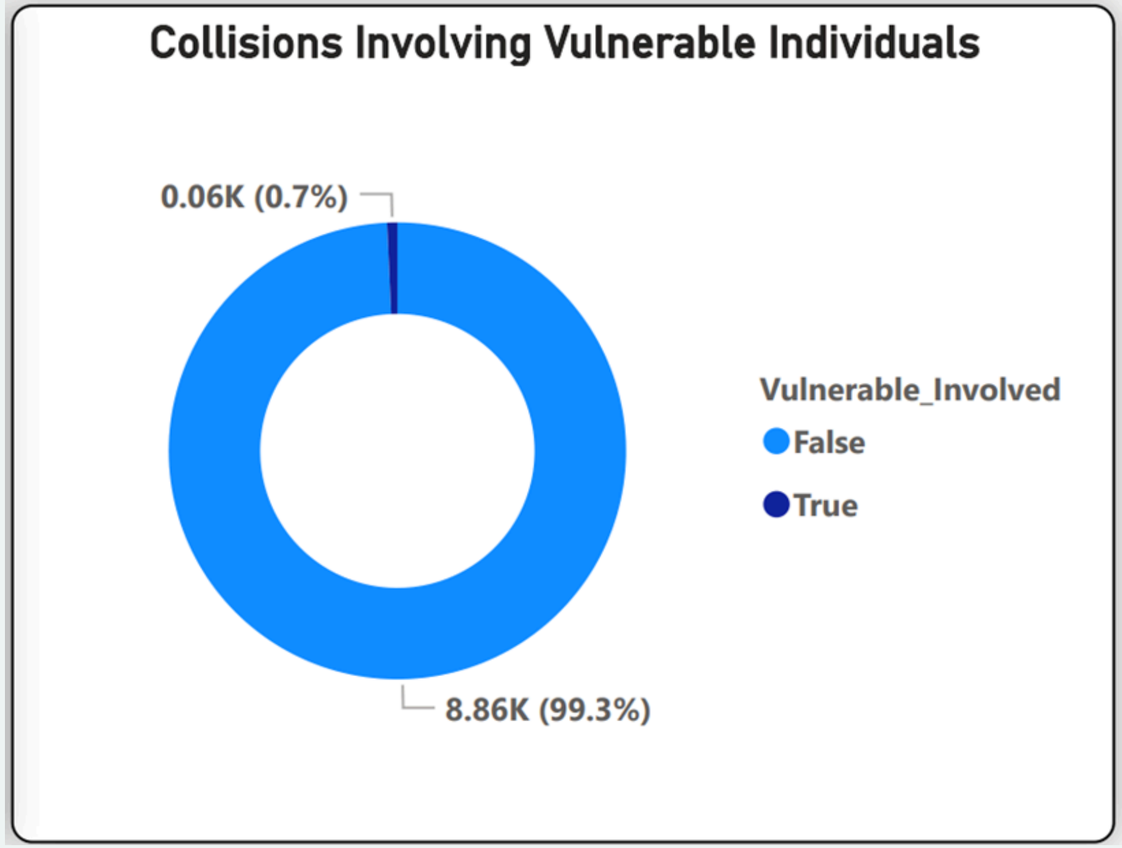
Collision Self Reports:

- Chance of S.R. : 71.5%
- Not Self Reporting: 28.5%

Self Reports & Vulnerables:

- If Vulnerables Involved in a Collision:
  - S.R. = 4.69%



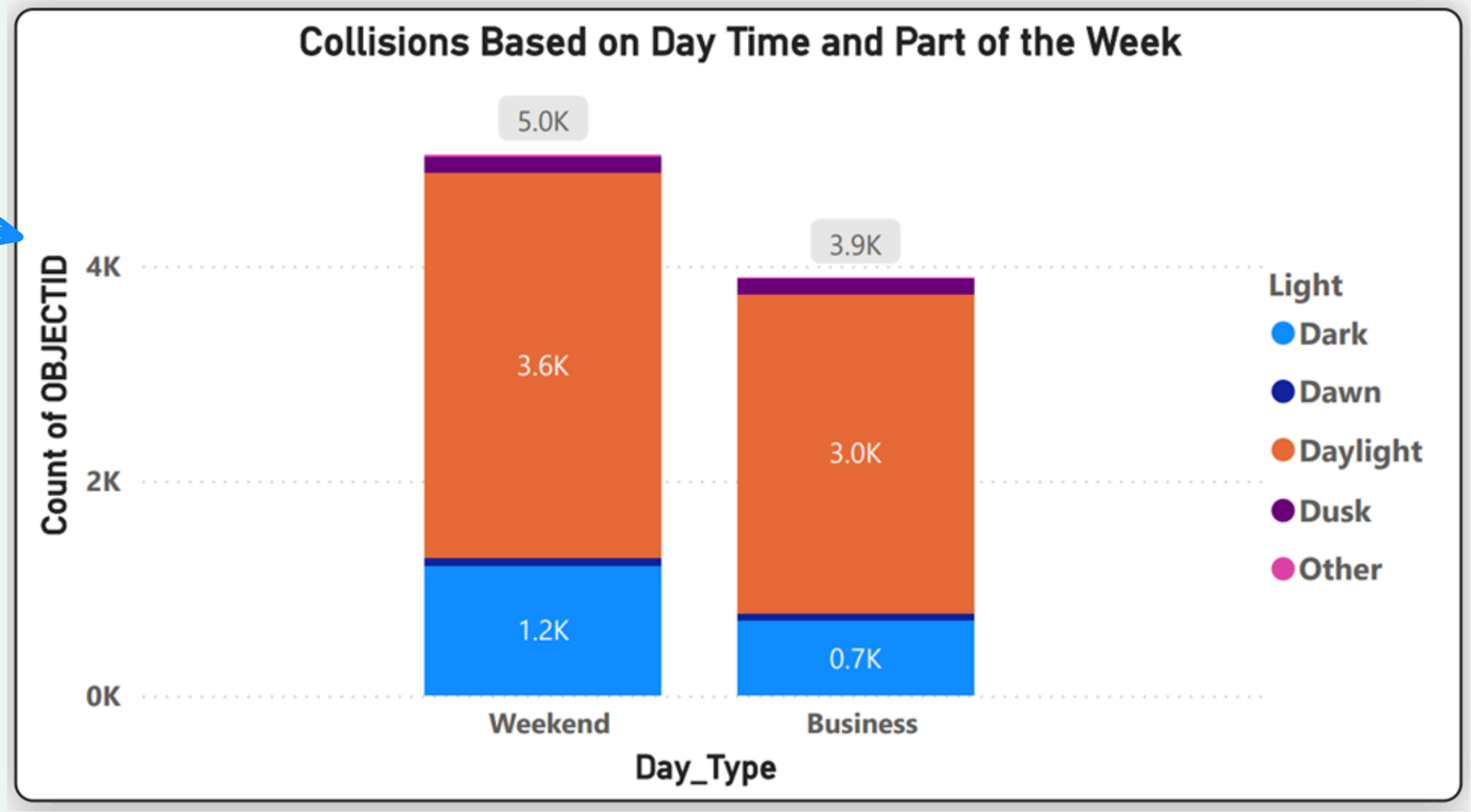


Vulnerables in Collisions:

- Involved: 0.7% (64)
- Not Involved: 99.3% (8863)

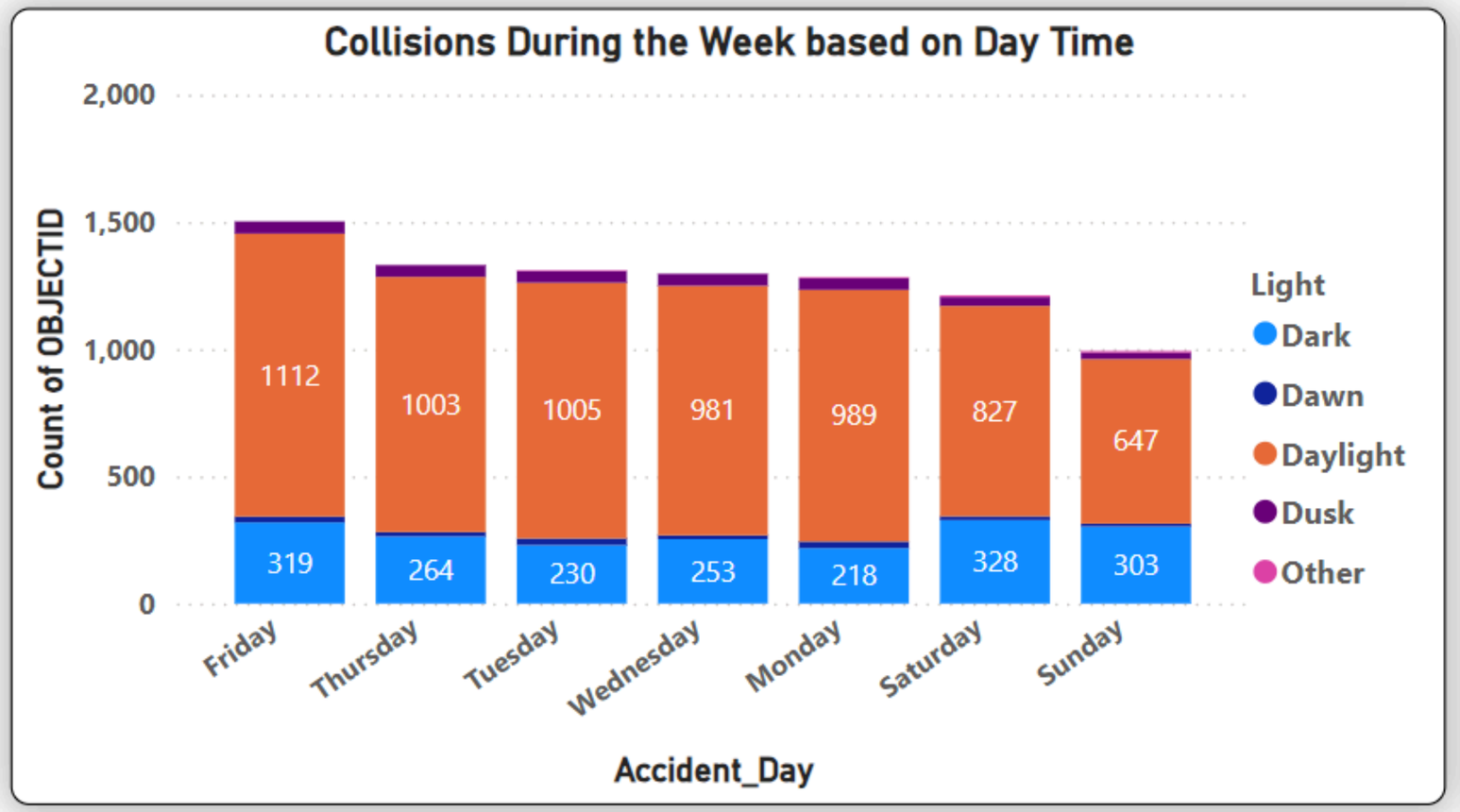
Collisions Caused During The Week:

- **Highest:**
  - Weekends (Day)
- **Lowest:**
  - Business (Dark)



Collisions Caused on Various Days:

- **Highest:**
  - Friday (Day Time)
  - Saturday (Dark)
- **Lowest:**
  - Sunday



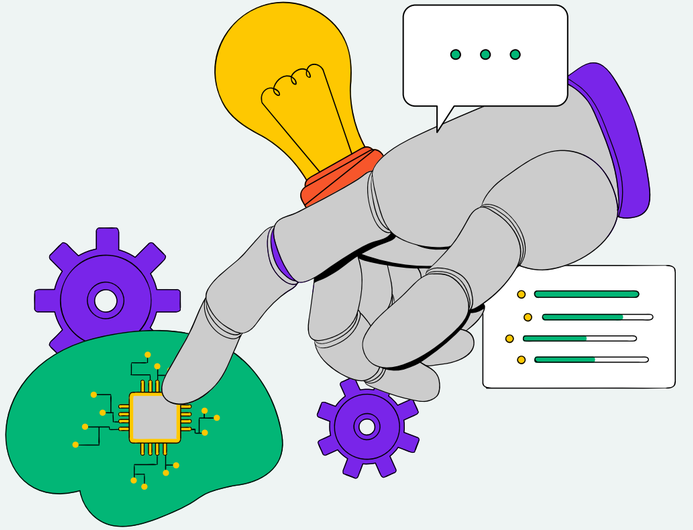
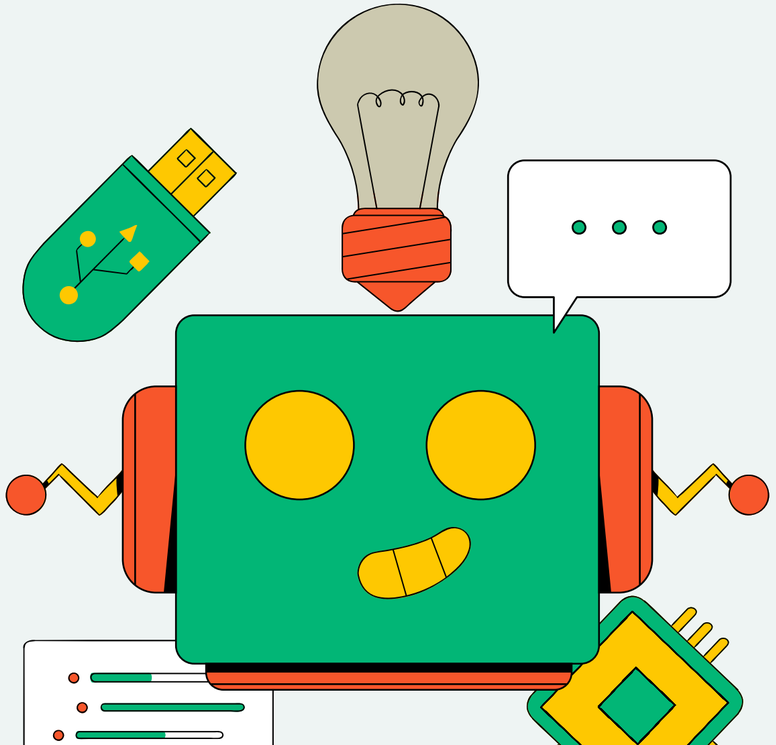
2020 ANNUAL COLLISION REPORT

Highest Collision Streets:

- **Pedestrians:** University Avenue | Albert St. | Waterloo
- **Cyclists:** Ottawa St. | Strasburg Rd. | Kitchener

Overall Highest Collision Ranking:

- **King St. | Bishop St. | Cambridge**



THANK YOU