



COLLISION STATISTICS 2020



2020 Red Deer Annual Motor Vehicle Collision Report

January 2026

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LEGAL NOTE

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Glossary of Terms

Collisions	RCMP-reported collisions occurring on public roadways, alleys and public parking lots within the City of Red Deer's jurisdiction. Only those collisions are reported by public which result in a minimum of \$2,000 property damage or which result in injury or fatality. The collision must include at least one (1) motor vehicle. Non-vehicular collisions are not included in this report.
Public Roadway Collisions	Includes all collisions that occurred on any road or street within the City of Red Deer jurisdiction
Parking Lots Collisions	Includes all collisions that occurred on parking lots only within the City of Red Deer jurisdiction
Injury	Injuries noted by police on the collision report form. Injuries are classified as minor (scrapes, bruises, complaint of pain) or major (result in admission to hospital).
Fatality	On-scene fatalities, as well as those fatalities occurring within 30 days and which are related to the collision.
Automobile	Cars, trucks, and vans under 4,500 kilograms.
Truck	Tractor-trailers, trucks, and vans 4,500 kilograms and over.
Intersection	Defined as extending 10 metres past the legally defined limits of the outer crosswalk lines of an intersecting roadway.
Midblock	A section of roadway between two intersections.

Introduction

This report presents summary data on collisions that occurred from January 1, 2020, to December 31, 2020. It also provides the historical collisions and general statistics of 2019 and 2018 for comparison purpose. The collisions data includes a variety of collision characteristics such as the type of collisions, age, driver condition and safety equipment used, etc.

This report was prepared based on the collision data received by Engineering Services Department from Alberta Transportation as of January 2026. Statistics in this report do not include collisions that occurred in public parking lots and Unknown locations.

Significance of Collisions Statistics

The collision data is used to develop, establish, and implement systems for managing road safety. There are many major road safety-related tasks which cannot be initiated without collision data, such as:

- Developing road safety projects and programs such as education, enforcement, and communication campaigns;
- Identifying and investigating hazardous road safety situations and establishing counter-measures and priorities to correct the identified hazards or potential hazards;
- Identifying safety needs of special user groups, such as older drivers, pedestrians, bicyclists, motorcyclists, and commercial vehicles;
- Facilitating budget planning; and
- Determining collision reduction targets and hence developing road safety action plan targets.

Overview of Collision Statistics

Public Roadway Collisions: In 2020, there were 1483 reported motor vehicle collisions on public roadways in Red Deer. This figure is lower than 2019 which had 2,236 reported collisions on public roadways.

While 2020 considered the same population as 2019 (no census was conducted in 2020), collisions per 1,000 populations decreased from 22 to 15.

In 2020, public roadway collisions per 1,000 registered vehicles decreased from 26 to 18.

In 2020, public roadway collisions (Intersection, Midblock, and Alley) have decreased by 33.7 percent compared to the 2019 figure.

In 2020, approximately 65.1 percent of the public roadway collisions occurred at intersections which is higher than the percentage of public roadway collisions that occurred at intersections in 2019 (61.9 percent) and 2018 (62.9 percent).

Injuries: In 2020 there were a total of 157 reported minor and major injuries; this is an approximate decrease of 28.3 percent over the 219 injuries reported in 2019. The 219 reported injuries in 2019 is an approximate increase of 21.7 percent when compared to the 181 injuries reported in 2018.

Fatalities: There was one road fatality in 2020, compared to two in 2019 and three in 2018.

Pedestrians: In 2020 there were 17 reported pedestrian collisions resulting in 14 injuries. In 2019 there were 36 reported pedestrian collisions resulting in 30 injuries. In 2018 there were 28 reported pedestrian collisions resulting in 22 injuries. Of the 17 pedestrian collisions in 2020, 12 pedestrians were recorded as crossing the road with the right of way, and 5 pedestrians were recorded as crossing the road without the right of way.

Bicyclists: In 2020 there were 16 reported bicycle collisions resulting in 13 injuries. In 2019 there were 21 reported bicycle collisions resulting in 16 injuries. In 2018 there were 14 reported bicycle collisions resulting in 8 injuries.

Month: In 2020, January was the leading month with 15.4 percent (228 total) of public roadway collisions; while April experienced the least number with 3.0 percent (44 total). See Figure 5.

Day: In 2020, Tuesdays had the highest percentage of collisions with 17.4 percent, while Sunday was the lowest with 9.0 percent. See Figure 6.

Hour: The hour from 1501 to 1600 accounted for 8.8 percent of all public roadway collisions, while each hour from 0001 to 0600 accounted for less than 1 percent. The periods of time with the highest number of collisions were from 1501 to 1600 on weekdays and 1201 to 1300 on weekends. See Figure 7 and Figure 8.

Holiday: Remembrance Day and Canada Day recorded the highest total number of collisions. See Figure 9.

Types of Collisions: The most common collision type was “Rear-End,” and “Struck Object” was the second most common type of all public roadway collisions. The most frequently recorded improper driving action in collisions occurring on public roadways in 2020 was “Followed Too Closely”. See Table 4.

Types of Collisions	2019	2020
Rear-End	726	468
Percentage of all public roadway collisions	32.5%	31.6%
Struck Object	395	251
Percentage of all public roadway collisions	17.7%	16.9%

Road Surface: 35.7 percent of collisions occurred when the road surface was covered with slush/snow/ice and 52.7 percent of collisions occurred when the road surface was dry.

Age: The age group with the highest number of collisions was “25-34”, second highest age group involved in a collision was “35-44” The same age group accounted for the highest percentage of collisions in 2019. See Table 8.

Age Group	2019	2020
25-34	808	479
Percentage of all public roadway collisions	17.0%	16.9%
35-44	784	462
Percentage of all public roadway collisions	16.4%	16.3%

Alcohol: In 2020, 16 drivers/pedestrians involved in collisions were impaired by alcohol while 27 drivers/pedestrians involved in collisions were impaired by alcohol in 2019. There were 7 injury collisions and 1 fatal collision related to alcohol in 2020.

Restraint Usage: In 2020, there were 29 drivers and 2 passengers involved in public roadway collisions recorded without wearing restraining devices which resulted in 7 injuries.

Motor Vehicle Types: Mini-Van/MPV/SUVs were involved in 33.1 percent of public roadway collisions in 2020 while passenger cars represented 29.3 percent and pick-up/van 20.3 percent.

Parking lots and Unknown locations Collisions: In 2020, there were 619 reported collisions in parking lots and unknown locations. In 2019 and 2018, the number of reported collisions on parking lots and unknown locations were 1077 and 1116 collisions.

Table 1: Public Roadway Collisions Statistics 2018-2020

Statistics	2018	2019	2020
Public Roadways Collisions	2161	2236	1483
Collisions in Intersection	1360	1384	966
Collisions in Midblock	729	785	490
Percentage Increase / Decrease	-9.4%	+3.5%	-33.7%
Fatal Collisions	3	2	1
Injury Collisions	144	176	133
Fatal and Injury Collisions	147	178	134
Property Damage Only Collisions	2014	2058	1349
Number of Injuries	181	219	157
Number of Fatalities	3	2	1
Pedestrian Collisions	28	36	17
Number of Pedestrian Injuries	22	30	14
Number of Pedestrian Fatalities	1	0	0
Bicycle Collisions	14	21	16
Number of Bicyclists Injuries	8	16	13
Number of Bicyclists Fatalities	0	0	0
Red Deer Population	99,832	101,992	101,992
Motor vehicles Registered in Red Deer Civic Address	85,220	85,721	83,801
Public Roadway Collisions/1000 Population	22	22	15
Public Roadway Collisions/1000 Registered Vehicles in Red Deer Civic Address	25	26	18

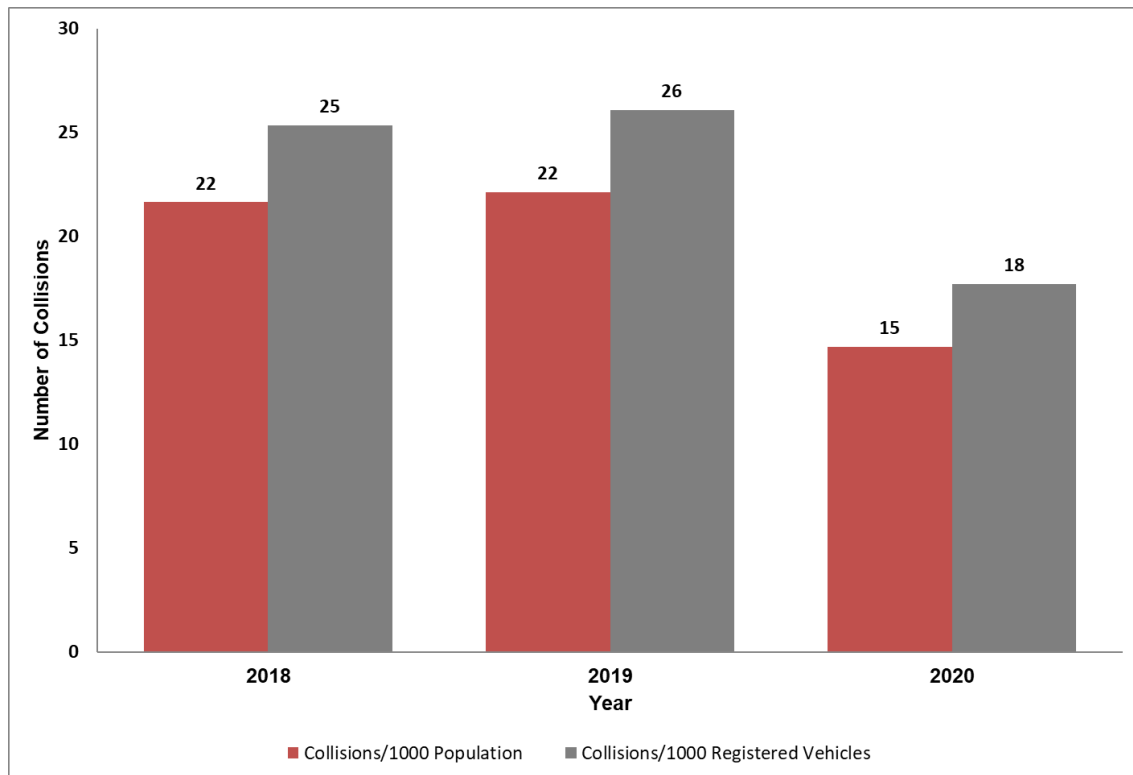


Figure 1: Public Roadway Collisions Rate Trend 2018-2020

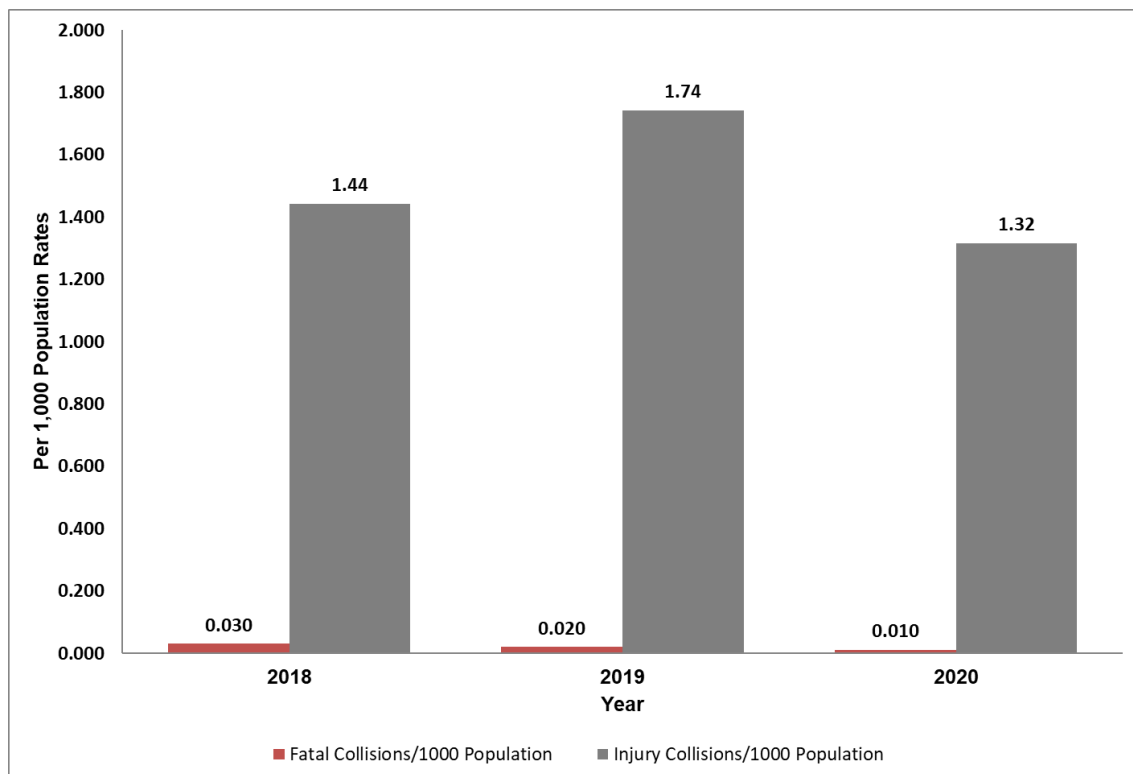


Figure 2: Fatal and Injury Collisions Rate Trend on Public Roadways 2018-2020

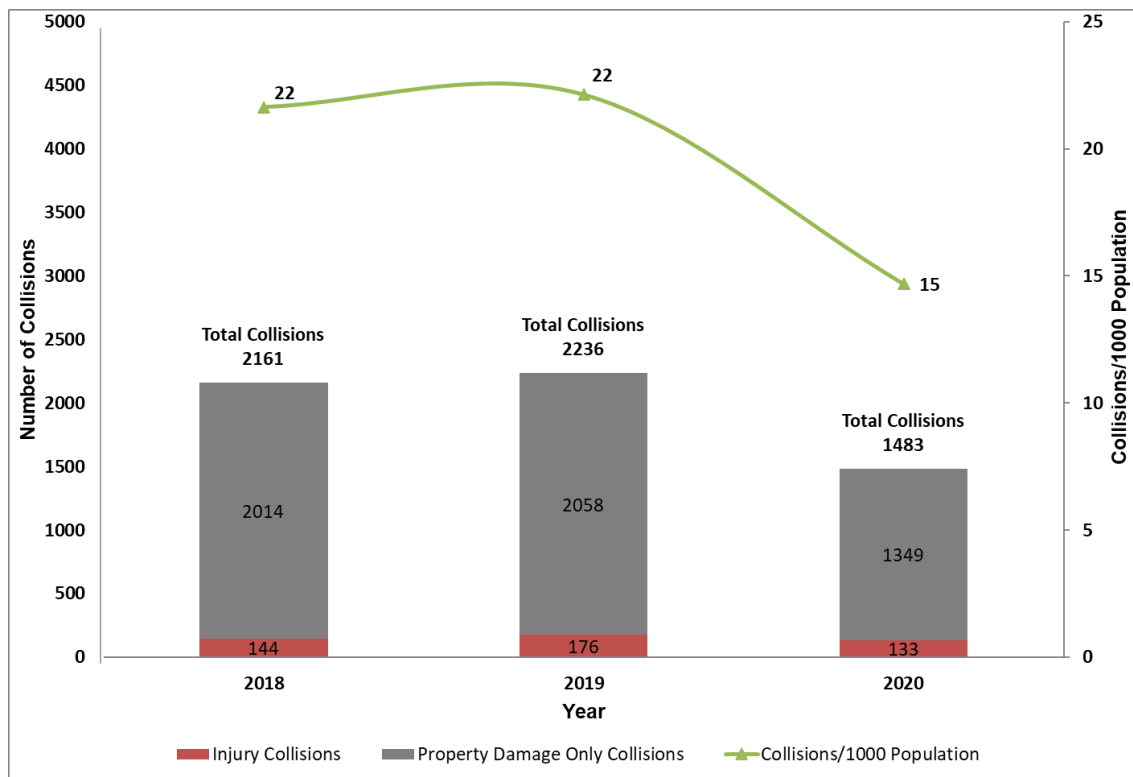


Figure 3: Public Roadway Collisions Trend 2018-2020

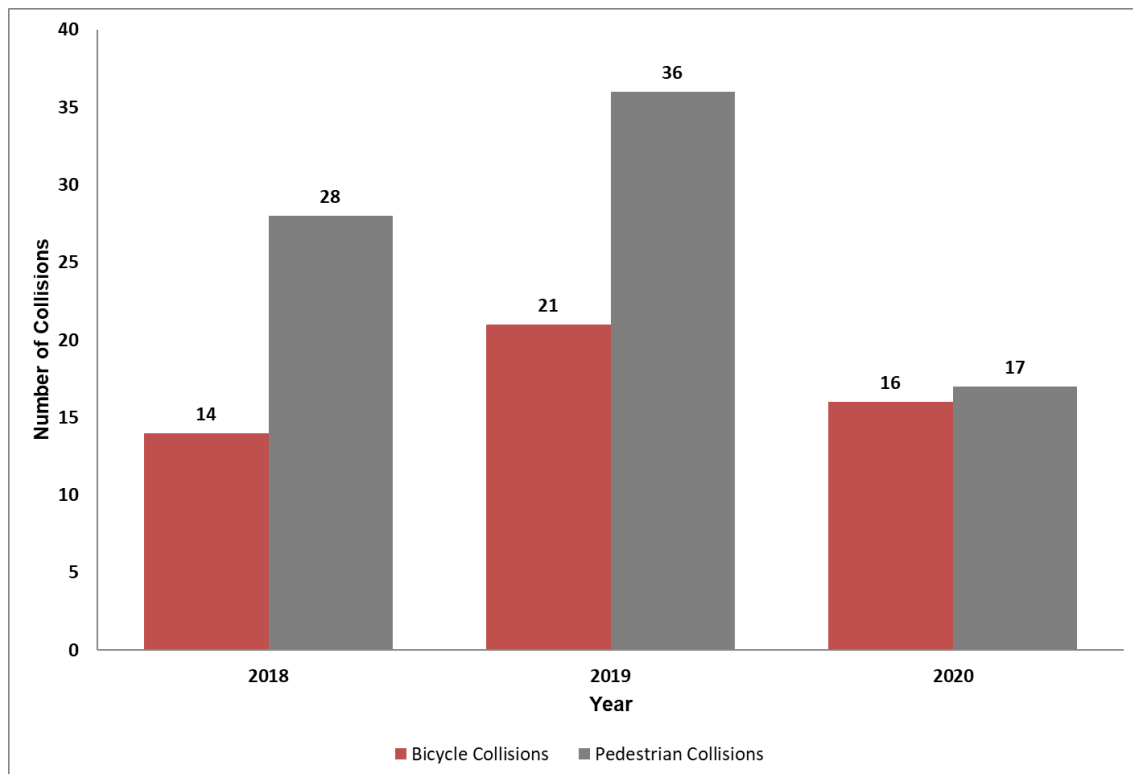


Figure 4: Pedestrian and Bicyclist Collisions on Public Roadways 2018-2020

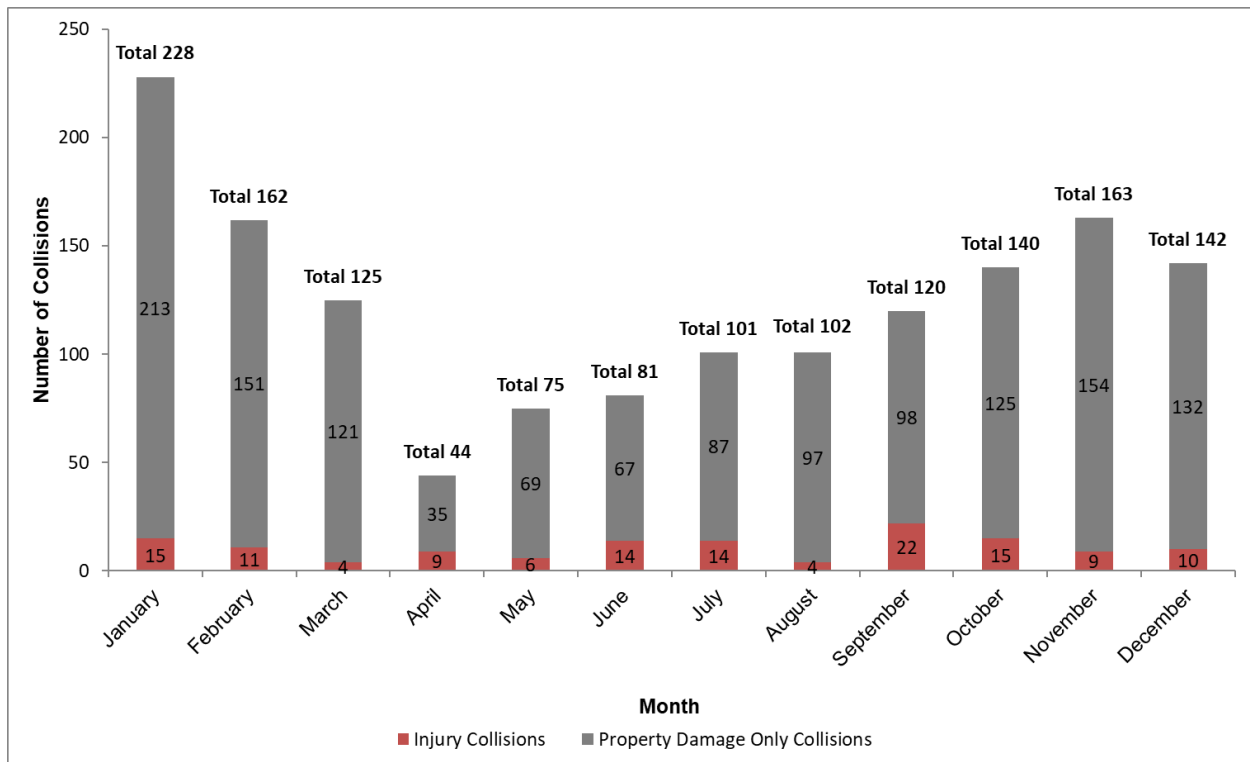


Figure 5 : 2020 Public Roadway Collisions by Month

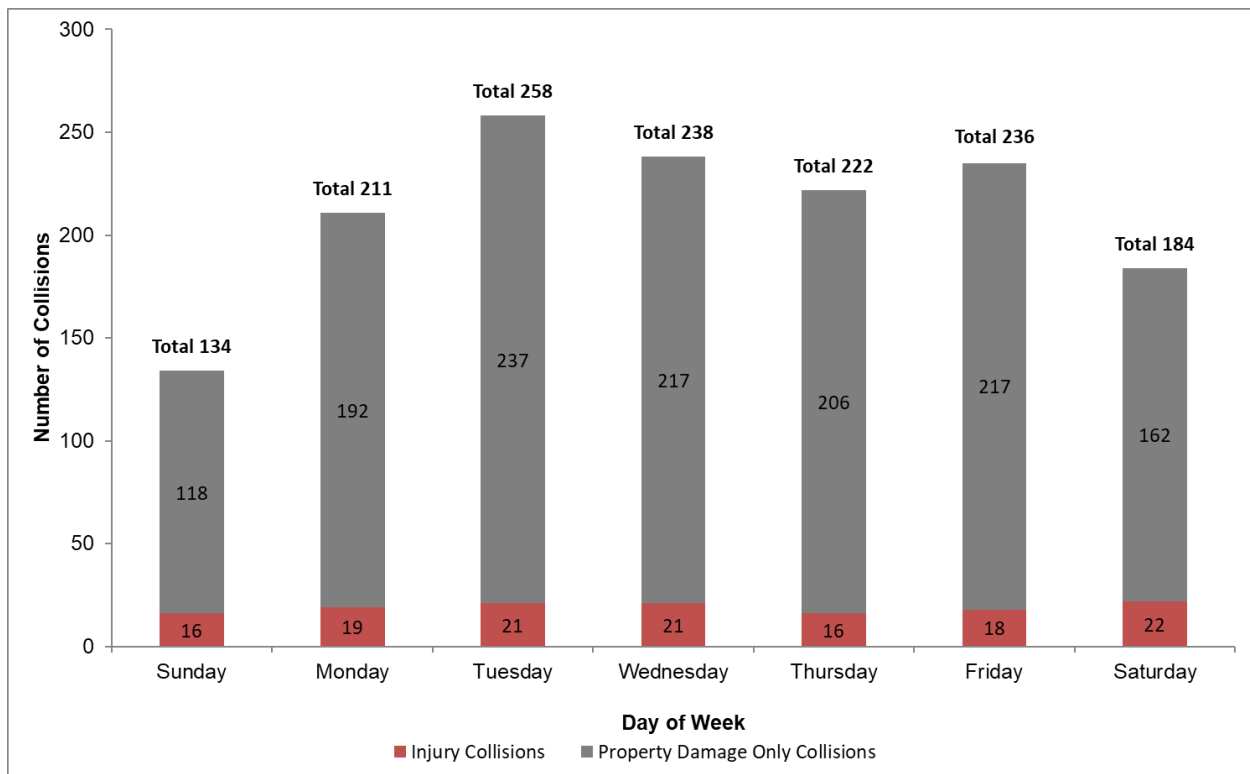


Figure 6: 2020 Public Roadway Collisions by Day of Week

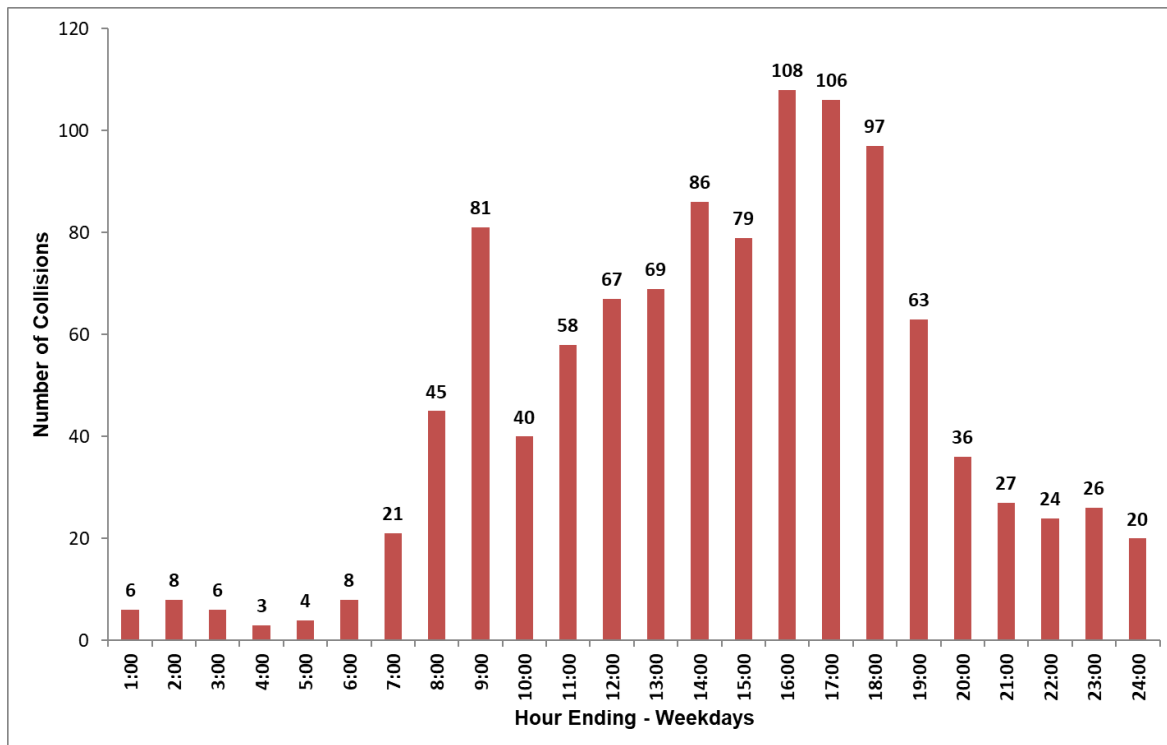


Figure 7: 2020 Public Roadway Collisions by Hour of Day (Weekdays)*

* 77 collisions occurred where time was unknown, was not given in the diagram

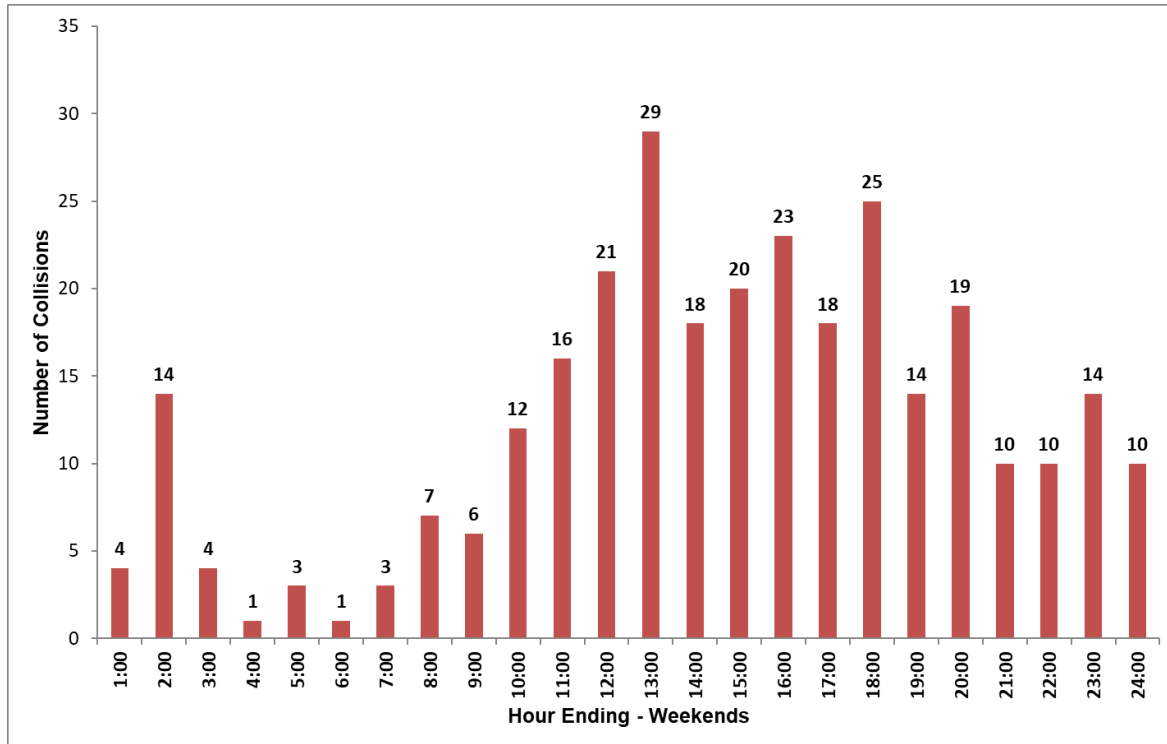


Figure 8: 2020 Public Roadway Collisions by Hour of Day (Weekends)*

* 16 collisions occurred where time was unknown, was not given in the diagram

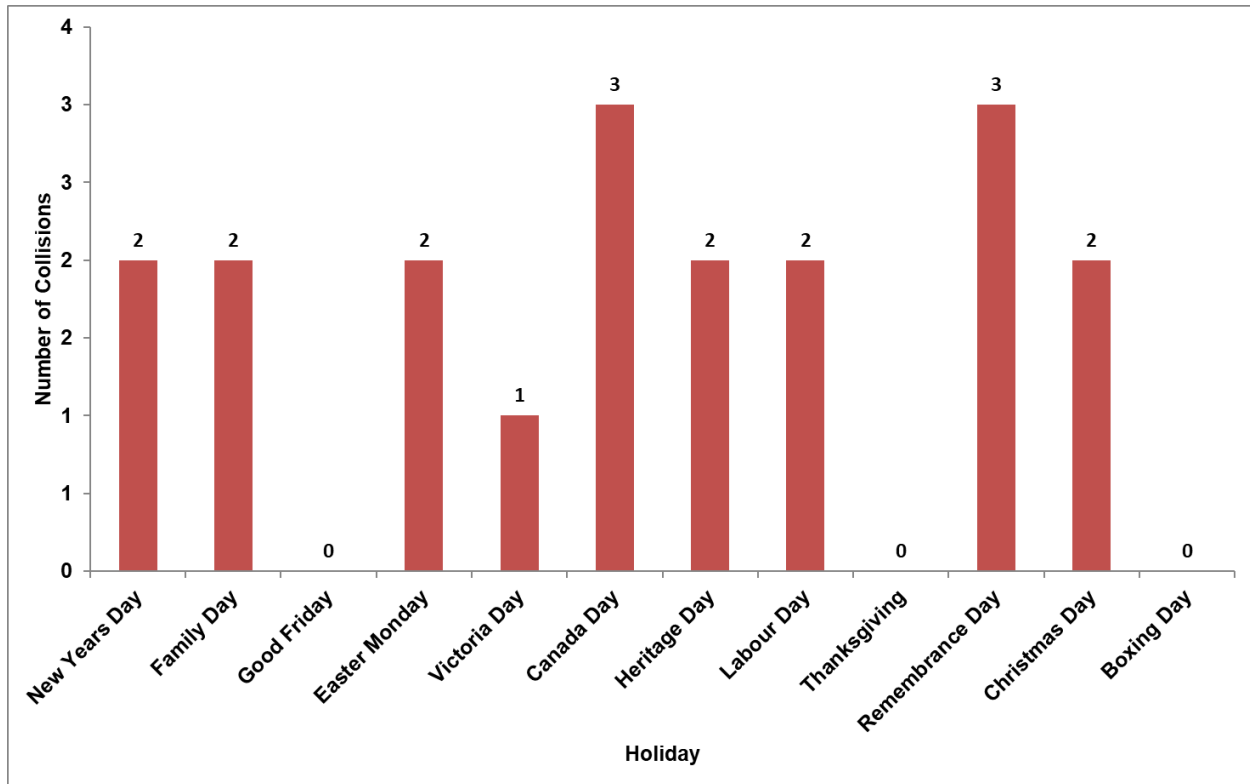


Figure 9: 2020 Public Roadway Collisions in Statutory Holidays

Public Roadway Collisions Summary

2020/01/01 TO 2020/12/31

Table 2 : Number of Collisions on Public Roadways in 2020

Statistics	2020
Motor Vehicle Collisions	1483
Motor Vehicles Involved	2865
Collisions Causing Fatalities	1
Fatalities Resulting	1
Collisions Causing Injury	133
Injuries Resulting	157
Property Damage Only Collisions	1349

Table 3: Fatalities and Injuries on Public Roadways in 2020

Travel Mode	Minor Injuries	Major Injuries	Fatal	Total
Vehicle Driver	85	22	0	107
Vehicle Passenger	14	2	0	16
Motorcyclist	3	2	1	6
Bicyclist	8	5	0	13
Pedestrian	8	6	0	14
Other, Unknown	0	2	0	2
Total	118	39	1	158

Roadway Summary

2020/01/01 TO 2020/12/31

Table 4: 2020 Collisions by Roadway Portion

Cause	Intersection	Midblock	Alley	At/Near Rail road crossing	Unknown	Total
Struck Object	89	161	1	0	0	251
Off Road Left	10	12	0	0	0	22
Right Angle	159	19	4	0	0	182
Passing-Left Turn	18	12	0	0	0	30
Left Turn- Across Path	113	4	0	0	0	117
Sideswipe - Opposite Direction	16	10	2	0	0	28
Other	7	44	2	0	8	61
Rear End	413	53	2	0	0	468
Off Road Right	15	19	0	0	0	34
Head On	9	7	2	0	0	18
Passing-Right Turn	9	6	0	0	0	15
Sideswipe - Same Direction	99	91	2	0	0	192
Backing	9	52	4	0	0	65
Total	966	490	19	0	8	1483

Table 5: 2020 Public Roadway Collisions by Month and Road Surface Condition

Month	Dry	Wet	Slush/Snow/Ice	Loose Surface Material	Other/ Unknown	Total
January	32	8	178	0	10	228
February	59	18	72	1	12	162
March	40	15	62	0	8	125
April	35	2	5	0	2	44
May	67	4	1	1	2	75
June	76	3	0	0	2	81
July	90	7	0	0	4	101
August	93	6	0	0	3	102
September	117	2	0	0	1	120
October	87	24	26	0	3	140
November	46	13	100	0	4	163
December	39	12	86	1	4	142
Total	781	114	530	3	55	1483

Day/Time Summary

2020/01/01 TO 2020/12/31

Table 6: 2020 Public Roadway Collisions by Hour of Day and Day of Week

Hour Ending	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Total
1:00	3	0	1	3	0	2	1	10
2:00	7	1	4	2	0	1	7	22
3:00	1	1	1	2	1	1	3	10
4:00	1	1	0	0	1	1	0	4
5:00	1	1	0	0	1	2	2	7
6:00	1	2	1	3	0	2	0	9
7:00	3	4	10	2	2	3	0	24
8:00	3	11	13	8	6	7	4	52
9:00	4	15	18	22	13	13	2	87
10:00	4	8	10	9	5	8	8	52
11:00	9	11	15	10	12	10	7	74
12:00	6	13	11	15	9	19	15	88
13:00	11	15	15	13	12	14	18	98
14:00	9	13	17	16	23	17	9	104
15:00	9	11	14	18	24	12	11	99
16:00	13	19	20	20	25	24	10	131
17:00	7	16	28	18	14	30	11	124
18:00	11	20	24	22	14	17	14	122
19:00	4	10	13	13	16	11	10	77
20:00	5	6	7	6	11	6	14	55
21:00	3	6	7	5	5	4	7	37
22:00	7	3	6	6	4	5	3	34
23:00	4	3	4	3	6	10	10	40
24:00	4	3	5	2	7	3	6	30
Unknown	4	18	14	20	11	14	12	93
Total	134	211	258	238	222	236	184	1483

Object Type Summary

2020/01/01 TO 2020/12/31

Table 7: Objects Involved in 2020 Motor Vehicle Collisions

Object Type	# Objects	Percentage
Passenger Car	980	29.29%
Pick-Up/Van <4500kg	680	20.32%
Mini-Van/MPV/SUV	1107	33.08%
Truck >4500kg	84	2.51%
Truck Tractor	15	0.45%
Motorcycle/Scooter	11	0.33%
Pedestrian	18	0.54%
Bicycle	16	0.48%
School Bus	4	0.12%
Transit Bus	7	0.21%
Intercity Bus	0	0.00%
Other Bus	2	0.06%
Fixed Object	107	3.20%
Train	0	0.00%
Animal	32	0.96%
Motorhome	5	0.15%
Construction Equipment	3	0.09%
Emergency Vehicle	4	0.12%
Farm Equipment	0	0.00%
Off-Highway Vehicle	1	0.03%
Motorized Snow Vehicle	0	0.00%
Moped	0	0.00%
Unknown	270	8.07%
Total	3346	100%

Drivers Summary

2020/01/01 TO 2020/12/31

Table 8: Age and Action of Drivers involved in 2020 Public Roadway Collisions

Driver Action	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+	Unknown	Total	% of Action
Driving Properly	1	78	96	219	258	209	174	74	28	2	1139	40.3%
Stop Sign Violation	0	6	5	12	10	8	5	1	1	1	49	1.7%
Yield Sign Violation	1	2	1	4	1	6	3	2	1	0	21	0.7%
Fail To Yield Right of way at Uncontrolled Intersection	0	3	6	2	9	1	6	4	5	2	38	1.3%
Fail To Yield Right of way to Pedestrian	0	1	1	3	1	1	2	1	0	0	10	0.4%
Followed Too Closely	0	37	56	83	67	54	43	19	9	6	374	13.2%
Parked Vehicle	0	0	0	0	0	0	0	0	0	0	0	0.0%
Backed Unsafely	0	5	6	11	7	9	9	9	3	0	59	2.1%
Left Turn Across Path	0	13	16	28	13	15	12	5	4	1	107	3.8%
Improper Lane Change	0	4	9	12	14	10	9	10	14	1	83	2.9%
Disobey Traffic Signal	0	3	14	14	16	6	8	5	12	1	79	2.8%
Ran Off Road	0	5	6	11	6	5	6	1	1	8	49	1.7%
Improper Turn	0	2	5	11	8	8	7	7	5	2	55	1.9%
Left of Centre	0	1	3	7	3	0	0	0	1	1	16	0.6%
Improper Passing	0	1	2	3	2	2	2	2	0	2	16	0.6%
Other, Unknown	12	38	27	59	47	40	29	16	16	447	731	25.9%
Total	14	199	253	479	462	374	315	156	98	476	2826	100%
% of Age	0.5%	7.0%	9.0%	16.9%	16.3%	13.2%	11.1%	5.5%	3.5%	16.8%	100%	

Condition/Safety Summary

2020/01/01 TO 2020/12/31

Table 9: Driver/Pedestrian Condition in 2020 Public Roadway Collisions

Driver/Pedestrian Condition	Drivers/Pedestrians #	Fatal Collisions	Injury Collisions	Property Damage Collisions
Had Been Drinking	14	1	4	9
Impaired by Alcohol	16	0	3	13
Impaired by Drugs	0	0	0	0
Fatigued/Asleep	7	0	1	6
Medical Defect	8	0	3	5
Unsafe Speed	125	1	14	110

Table 10: Safety Equipment Used in 2020 Public Roadway Collisions

Safety Equipment	Drivers #	Collision Severity				Passenger #	Collision Severity			
		None	Minor	Major	Fatal		None	Minor	Major	Fatal
Lap belt only	35	34	1	0	0	8	8	0	0	0
Lap/Shoulder belt assembly	2104	2034	58	12	0	224	213	10	1	0
Shoulder belt only	25	23	2	0	0	4	4	0	0	0
Lap/Shoulder with Air Bag	130	95	27	8	0	9	7	1	1	0
Airbag	19	16	2	1	0	2	2	0	0	0
None	29	24	4	1	0	2	0	2	0	0
Other/Specify	0	0	0	0	0	41	40	1	0	0
Unknown	441	435	4	2	0	5	5	0	0	0

Pedestrian Collisions

2020/01/01 TO 2020/12/31

Table 11: Pedestrian Collisions Summary in 2020 Public Roadways Collisions

Statistics	2020
Collisions Involving Pedestrian	17
Pedestrians Involved	18
Collisions resulting in Pedestrian Injury or Fatality	14
Pedestrian Injuries	14
Pedestrian Fatalities	0

Table 12: Age and Action of Pedestrians involved in 2020 Public Roadways Collisions

Pedestrian Action	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+	Unknown	Total	% of Action
Crossing with Right of Way	0	1	1	2	1	2	1	1	2	1	0	0	12	66.7%
Crossing without Right of Way	0	0	2	0	0	0	1	2	0	0	0	0	5	27.8%
Walking/Working on Roadway	0	0	0	0	0	0	0	1	0	0	0	0	1	5.6%
Getting on/off vehicle	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Other, Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Total	0	1	3	2	1	2	2	4	2	1	0	0	18	100%
% of Age	0.0%	5.6%	16.7%	11.1%	5.6%	11.1%	11.1%	22.2%	11.1%	5.6%	0.0%	0.0%	100%	

Bicycle Collisions

2020/01/01 TO 2020/12/31

Table 13: Bicyclist Collisions Summary in 2020 Public Roadways Collisions

Statistics	2020
Bicyclist Collisions	16
Bicyclists Involved	16
Collisions resulting in Bicyclist Injury or Fatality	13
Bicyclist Injuries	13
Bicyclist Fatalities	0

Table 14: Age and Action of Bicyclists involved in 2020 Public Roadway Collisions

Bicyclist Action	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+	Unknown	Total	% of Action
Driving Properly	0	0	1	1	2	0	1	0	0	2	0	0	7	43.8%
Stop Sign Violation	0	0	0	0	0	0	0	0	0	0	0	1	1	6.3%
Yield Sign Violation	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Fail To Yield Right of Way at Uncontrolled Intersection	0	0	0	1	0	0	0	0	0	0	0	0	1	6.3%
Fail To Yield Right of Way to Pedestrian	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Followed Too Closely	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Parked Vehicle	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Backed Unsafely	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Left Turn Across Path	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Improper Lane Change	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Disobey Traffic Signal	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Ran Off Road	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Improper Passing	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Left of Centre	0	0	0	0	0	0	1	0	0	0	0	0	1	6.3%
Improper Turn	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Other, Unknown	0	0	1	1	1	1	1	0	1	0	0	0	6	37.5%
Total	0	0	2	3	3	1	3	0	1	2	0	1	16	100%
% of Age	0.0%	0.0%	12.5%	18.8%	18.8%	6.3%	18.8%	0.0%	6.3%	12.5%	0.0%	6.3%	100.0%	