



COLLISION STATISTICS 2023



2023 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 (scratches, 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, 2023, to December 31, 2023. It also provides the historical collisions and general statistics of 2022 and 2021 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 2023, there were 1937 reported motor vehicle collisions on public roadways in Red Deer. This figure is higher than 2022 which had 1,927 reported collisions on public roadways.

While 2023 considered the same population as 2022 (no census was done in 2023), collisions per 1,000 populations remained the same as 2022 at 19.

In 2023, public roadway collisions per 1,000 registered vehicles decreased from 24 in 2022 to 23.

In 2023, public roadway collisions (Intersection, Midblock, and Alley) have increased by 0.5 percent compared to the 2022 figure.

In 2023, approximately 66.6 percent of the public roadway collisions occurred at intersections which is lower than the percentage of public roadway collisions that occurred at intersections in 2022 (69.3 percent) and higher than 2021 (65.7 percent).

Injuries: In 2023 there were a total of 284 reported minor and major injuries; this is an approximate increase of 70.1 percent over the 167 injuries reported in 2022. The 167 reported injuries in 2022 is an approximate increase of 21.9 percent when compared to the 137 injuries reported in 2021.

Fatalities: There were four road fatalities in 2023, compared to none in 2022 and two in 2021.

Pedestrians: In 2023 there were 36 reported pedestrian collisions resulting in 33 injuries and one fatality. In 2022 there were 22 pedestrian collisions resulting in 20 injuries. In 2021 there were 21 reported pedestrian collisions resulting in 21 injuries and one fatality. Of the 36 pedestrian collisions in 2023, 26 pedestrians were recorded as crossing the road with the right of way, and 4 pedestrians were recorded as crossing the road without the right of way.

Bicyclists: In 2023 there were 22 reported bicycle collisions resulting in 15 injuries and one fatality. In 2022 there were 20 reported bicycle collisions resulting in 17 injuries. In 2021 there were 18 reported bicycle collisions resulting in 16 injuries.

Month: In 2023, December was the leading month with 11.3 percent (218 total) of public roadway collisions; while July experienced the least number with 5.5 percent (107 total). See Figure 5.

Day: In 2023, Fridays had the highest percentage of collisions with 17.5 percent, followed by Wednesdays at 17.2 percent, while Sunday was the lowest with 7.8 percent. See Figure 6.

Hour: The hour from 1601 to 1700 accounted for 9.9 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 1601 to 1700 on weekdays and 1201 to 1300 on weekends. See Figure 7 and Figure 8.

Holiday: Family 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 2023 was “Followed Too Closely”. See Table 4.

Types of Collisions	2022	2023
Rear-End	609	601
Percentage of all public roadway collisions	31.6%	31.0%
Struck Object	387	399
Percentage of all public roadway collisions	20.1%	20.6%

Road Surface: 60.6 percent of collisions occurred when the road surface was dry and 29.3 percent of collisions occurred when the road surface was covered with slush/snow/ice.

Age: The age group with the highest number of collisions was “35-44”, second highest age group involved in a collision was “25-34”. The same age group accounted for the highest percentage of collisions in 2022. See Table 8.

Age Group	2022	2023
35-44	621	652
Percentage of all public roadway collisions	16.0%	17.0%
25-34	582	554
Percentage of all public roadway collisions	15.0%	14.4%

Alcohol: In 2023, 28 drivers/pedestrians involved in collisions were impaired by alcohol while 23 drivers/pedestrians involved in collisions were impaired by alcohol in 2022. There were 11 injury collisions related to alcohol in 2023.

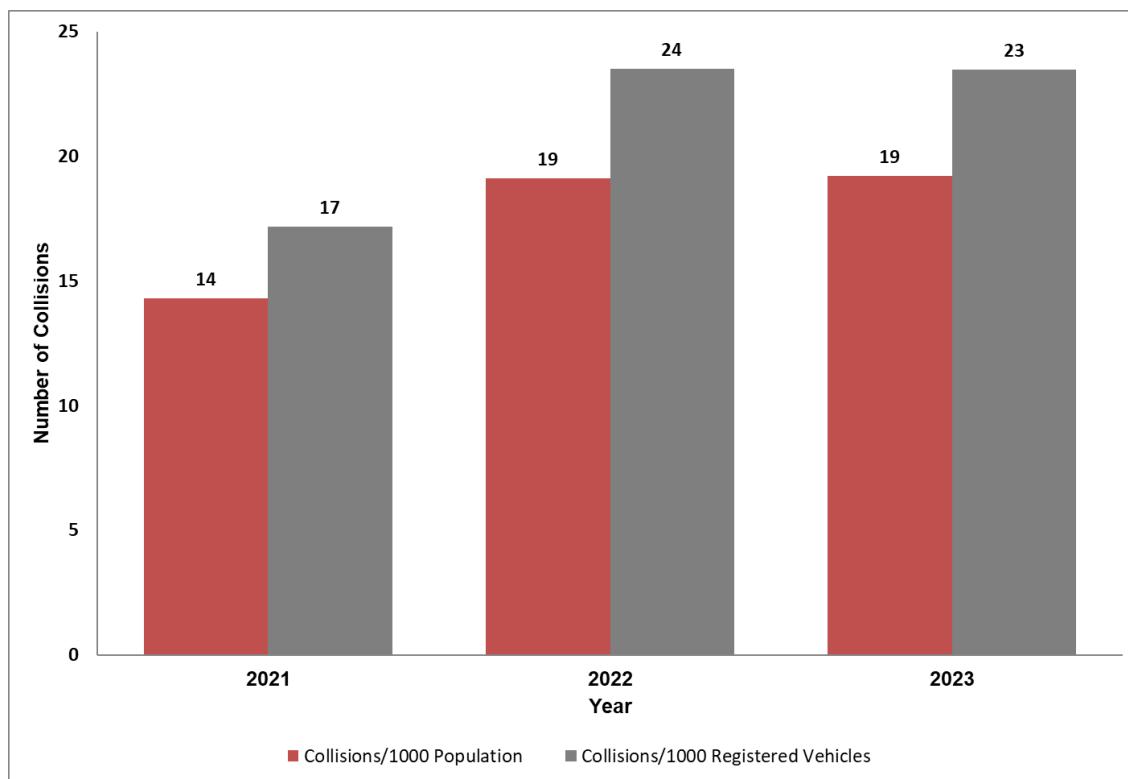
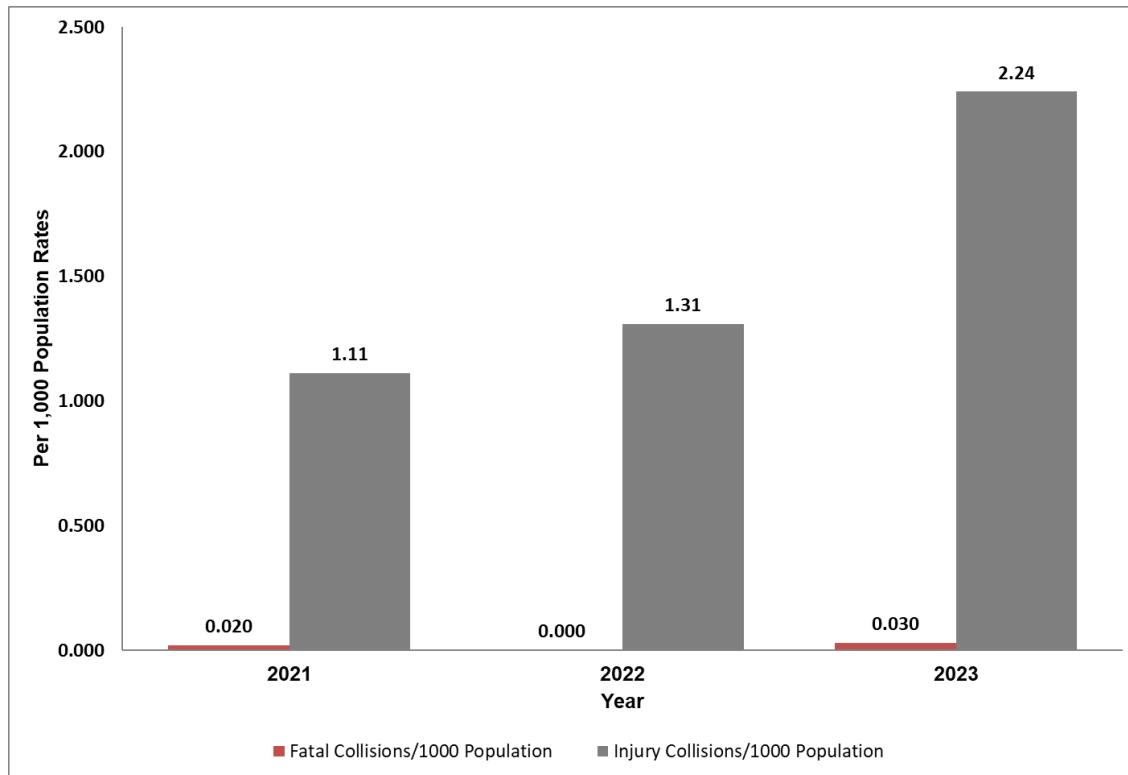
Restraint Usage: In 2023, there were 72 drivers involved in public roadway collisions recorded without wearing restraining devices which resulted in 10 injuries.

Motor Vehicle Types: Mini-Van/MPV/SUVs were involved in 35.4 percent of public roadway collisions in 2023 while passenger cars represented 28.6 percent and pick-up/van 18.8 percent.

Parking lots and Unknown locations Collisions: In 2023, there were 876 reported collisions in parking lots and unknown locations. In 2022 and 2021, the number of reported collisions on parking lots and unknown locations were 805 and 625 collisions.

Table 1: Public Roadway Collisions Statistics 2021-2023

Statistics	2021	2022	2023
Public Roadways Collisions	1444	1927	1937
Collisions in Intersection	949	1336	1291
Collisions in Midblock	456	568	609
Percentage Increase / Decrease	-2.6%	+33.4%	+0.5%
Fatal Collisions	2	0	3
Injury Collisions	112	132	226
Fatal and Injury Collisions	114	132	229
Property Damage Only Collisions	1330	1795	1708
Number of Injuries	137	167	284
Number of Fatalities	2	0	4
Pedestrian Collisions	21	22	36
Number of Pedestrian Injuries	21	20	33
Number of Pedestrian Fatalities	1	0	1
Bicycle Collisions	18	20	22
Number of Bicyclists Injuries	16	17	15
Number of Bicyclists Fatalities	0	0	1
Red Deer Population	100,844	100,844	100,844
Motor vehicles Registered in Red Deer Civic Address	84,098	81,951	82,511
Public Roadway Collisions/1000 Population	14	19	19
Public Roadway Collisions/1000 Registered Vehicles in Red Deer Civic Address	17	24	23

**Figure 1: Public Roadway Collisions Rate Trend 2021-2023****Figure 2: Fatal and Injury Collisions Rate Trend on Public Roadways 2021-2023**

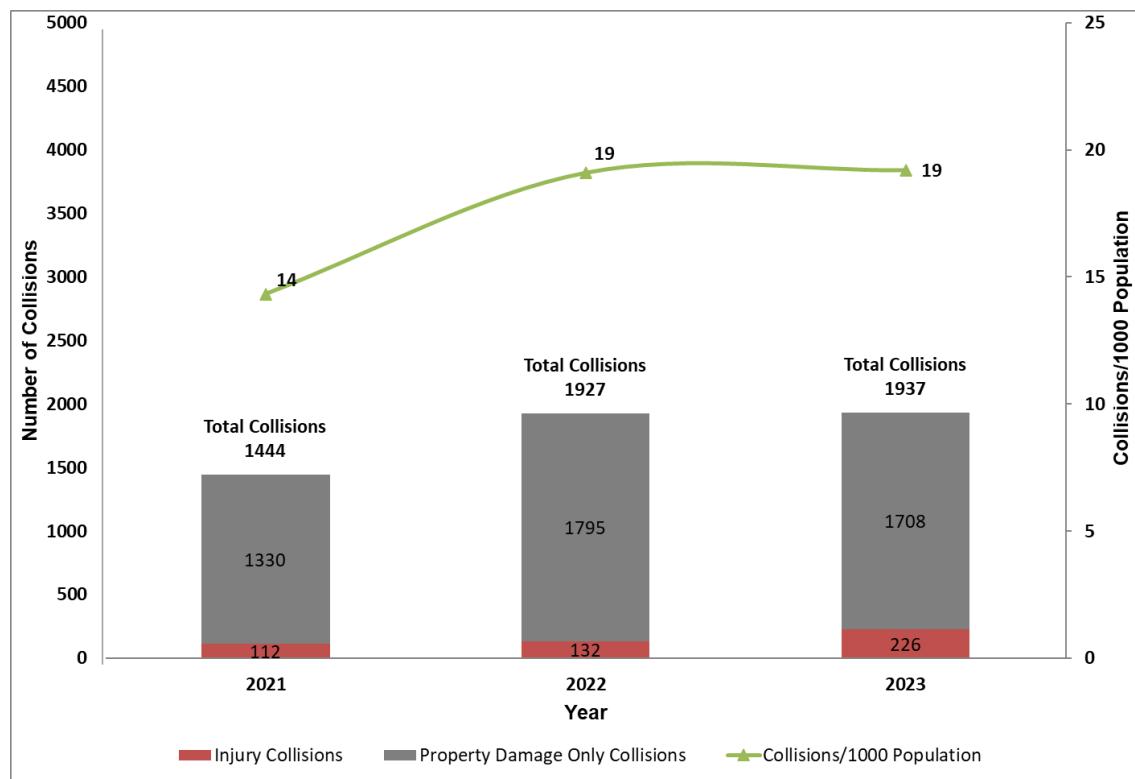


Figure 3: Public Roadway Collisions Trend 2021-2023

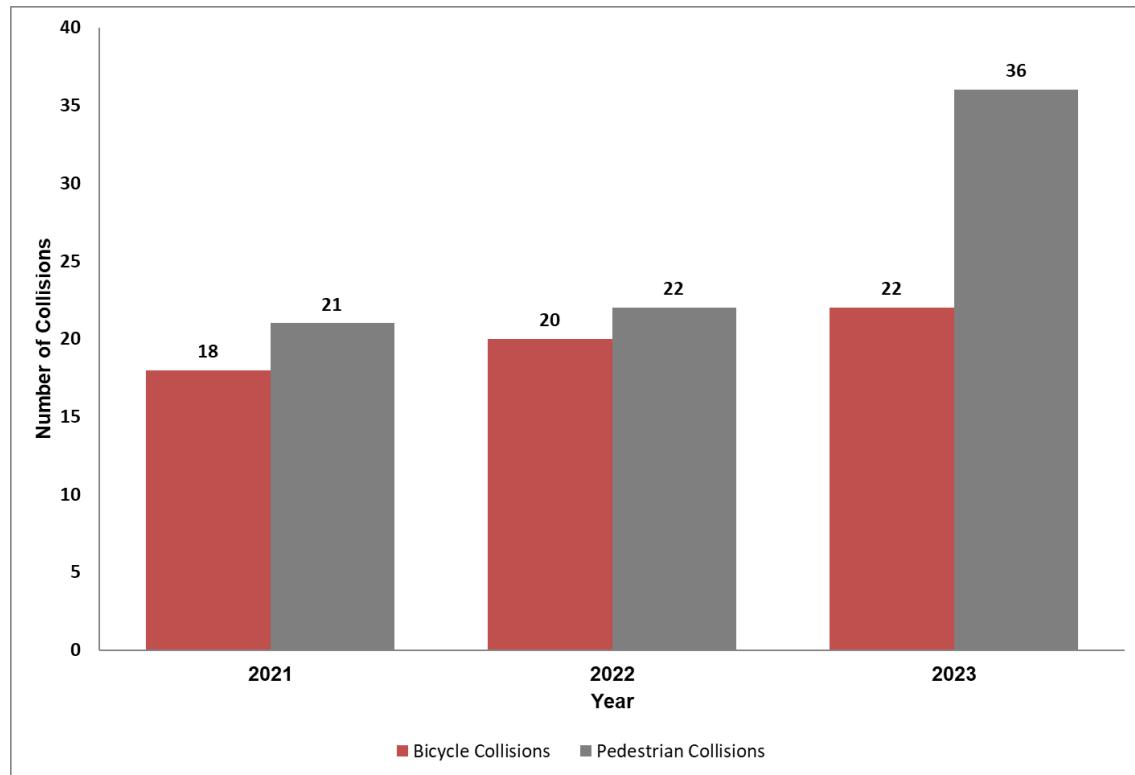


Figure 4: Pedestrian and Bicyclist Collisions on Public Roadways 2021-2023

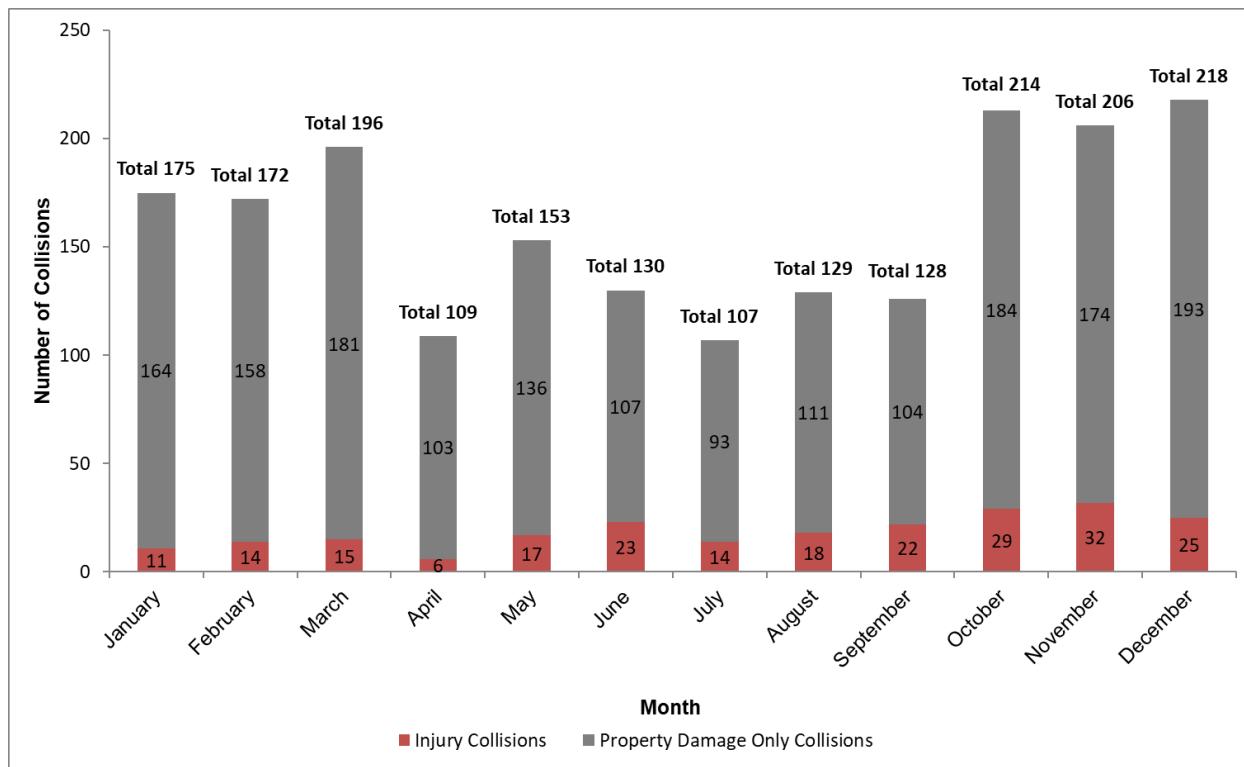


Figure 5 : 2023 Public Roadway Collisions by Month

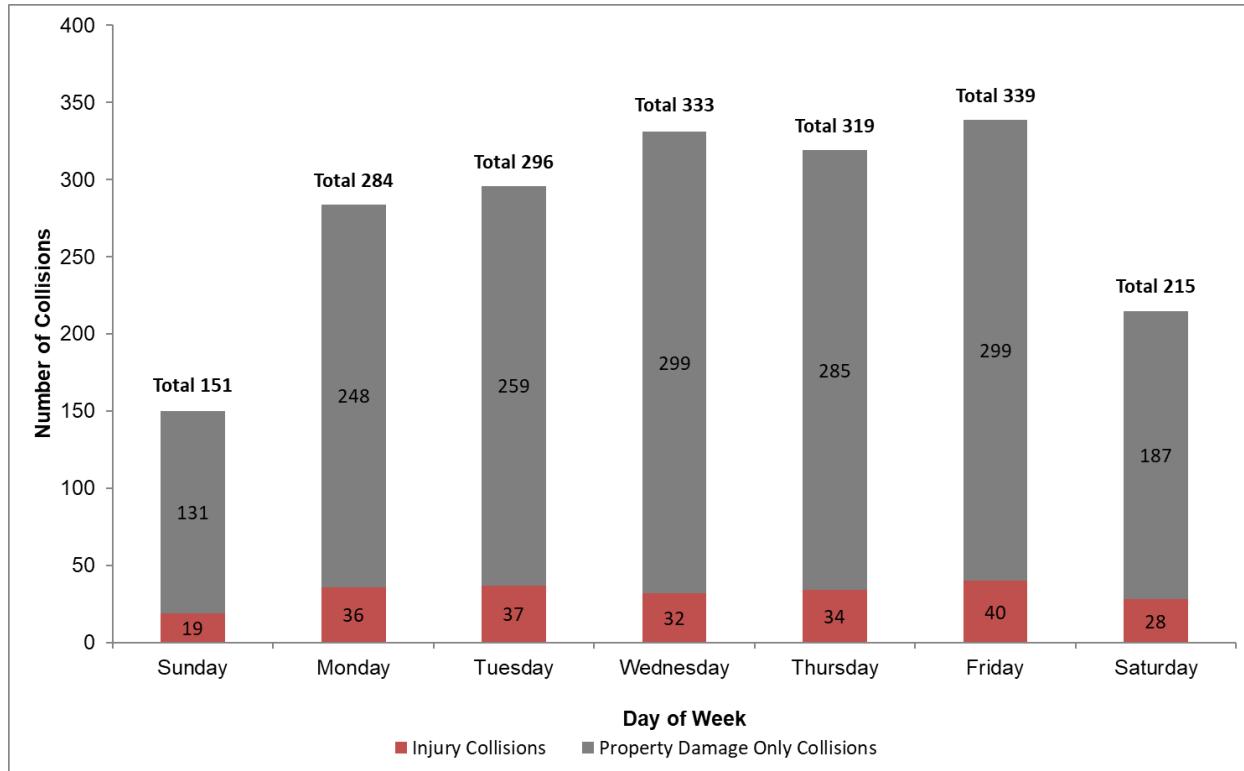
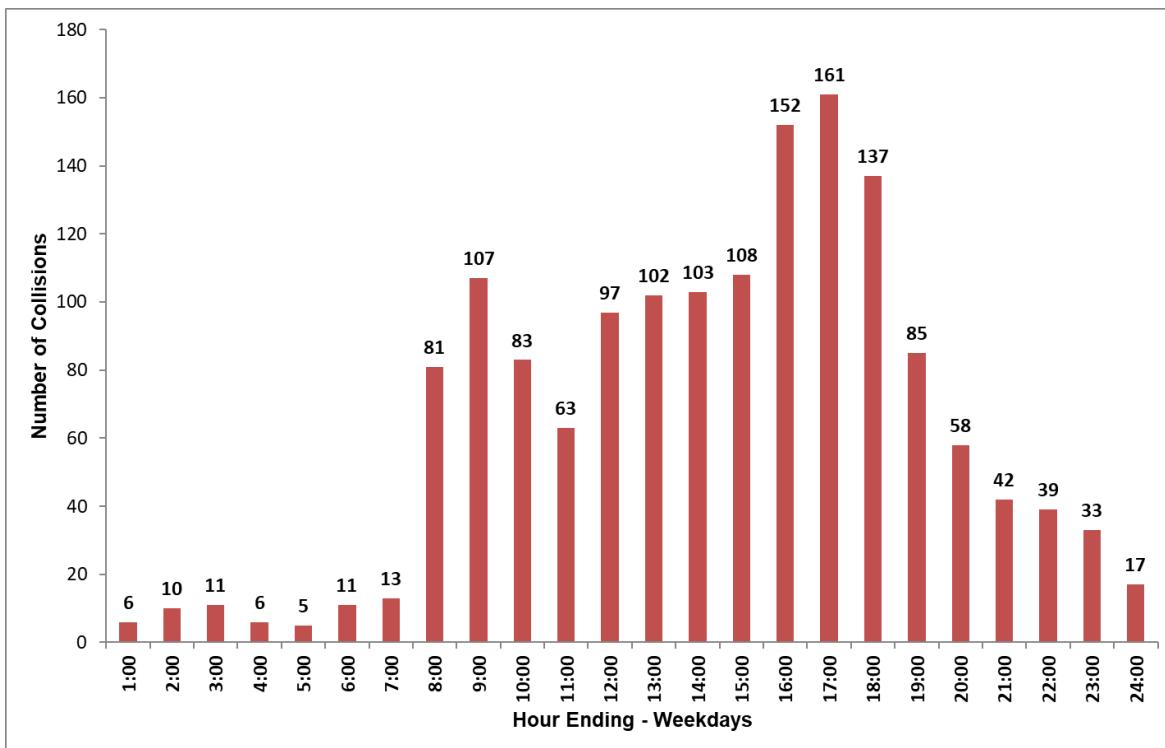
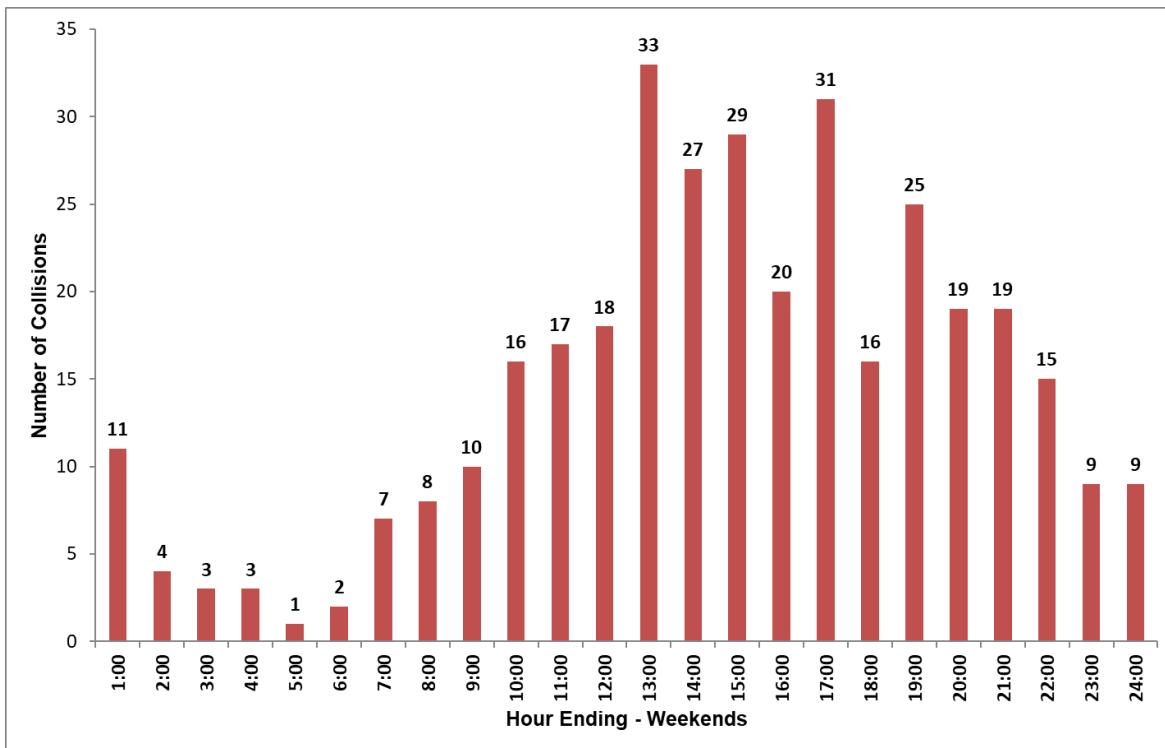


Figure 6: 2023 Public Roadway Collisions by Day of Week

**Figure 7: 2023 Public Roadway Collisions by Hour of Day (Weekdays)***

* 41 collisions occurred where time was unknown, was not shown in the diagram

**Figure 8: 2023 Public Roadway Collisions by Hour of Day (Weekends)***

* 14 collisions occurred where time was unknown, was not shown in the diagram

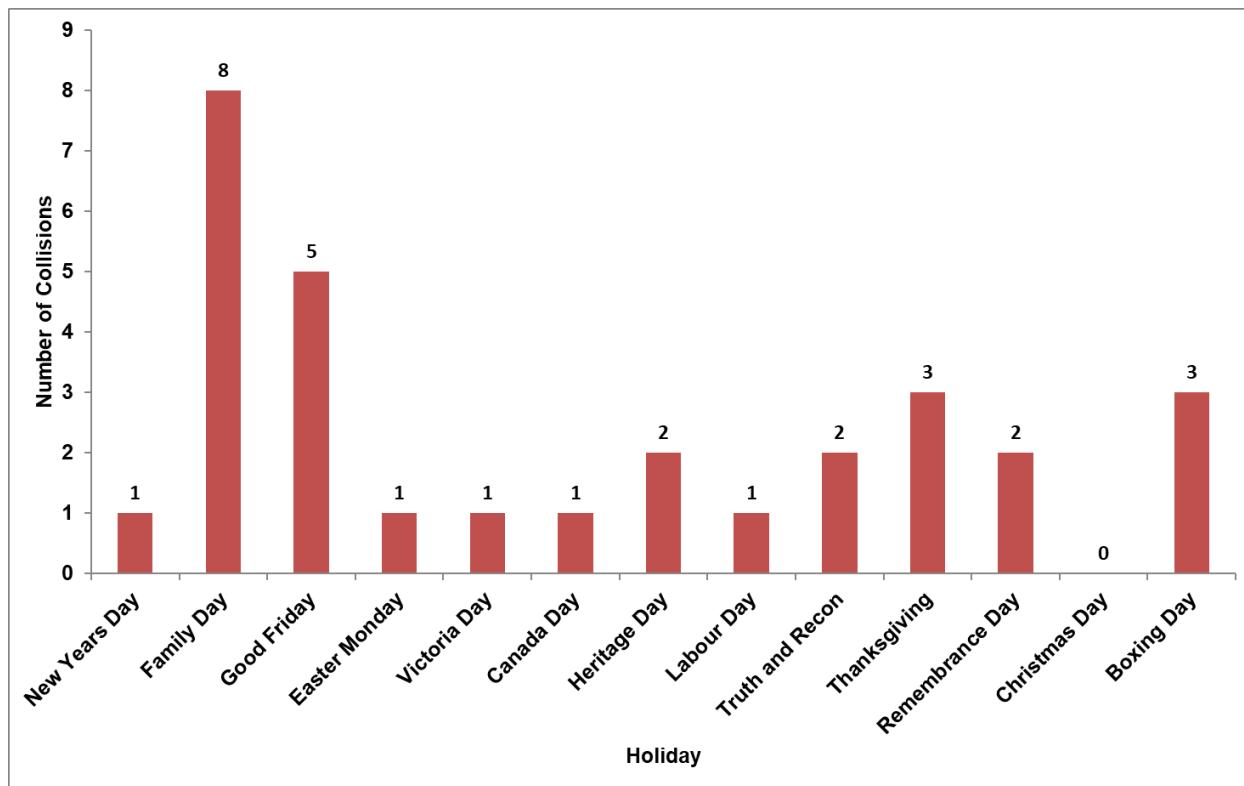


Figure 9: 2023 Public Roadway Collisions in Statutory Holidays

Public Roadway Collisions Summary

2023/01/01 TO 2023/12/31

Table 2 : Number of Collisions on Public Roadways in 2023

Statistics	2023
Motor Vehicle Collisions	1937
Motor Vehicles Involved	3688
Collisions Causing Fatalities	3
Fatalities Resulting	4
Collisions Causing Injury	226
Injuries Resulting	284
Property Damage Only Collisions	1708

Table 3: Fatalities and Injuries on Public Roadways in 2023

Travel Mode	Minor Injuries	Major Injuries	Fatal	Total
Vehicle Driver	160	24	1	185
Vehicle Passenger	31	6	1	38
Motorcyclist	6	2	0	8
Bicyclist	15	0	1	16
Pedestrian	26	7	1	34
Other, Unknown	5	2	0	7
Total	243	41	4	288

Roadway Summary

2023/01/01 TO 2023/12/31

Table 4: 2023 Collisions by Roadway Portion

Cause	Intersection	Midblock	Alley	At/Near Rail road crossing	Unknown	Total
Struck Object	147	238	13	0	1	399
Off Road Left	5	8	0	0	0	13
Right Angle	201	14	10	1	0	226
Passing-Left Turn	16	11	0	0	0	27
Left Turn- Across Path	132	7	0	0	0	139
Sideswipe - Opposite Direction	24	22	3	0	0	49
Other	16	24	0	0	1	41
Rear End	531	70	0	0	0	601
Off Road Right	11	17	0	0	0	28
Head On	2	6	1	0	0	9
Passing-Right Turn	9	1	0	0	0	10
Sideswipe - Same Direction	169	121	0	0	0	290
Backing	28	70	6	0	1	105
Total	1291	609	33	1	3	1937

Table 5: 2023 Public Roadway Collisions by Month and Road Surface Condition

Month	Dry	Wet	Slush/Snow/Ice	Loose Surface Material	Other/ Unknown	Total
January	31	22	120	0	2	175
February	41	21	109	0	1	172
March	96	18	73	3	6	196
April	105	3	0	1	0	109
May	144	7	0	1	1	153
June	110	18	0	1	1	130
July	98	9	0	0	0	107
August	116	11	0	0	2	129
September	119	9	0	0	0	128
October	94	13	102	2	3	214
November	139	7	55	1	4	206
December	80	25	109	1	3	218
Total	1173	163	568	10	23	1937

Day/Time Summary

2023/01/01 TO 2023/12/31

Table 6: 2023 Public Roadway Collisions by Hour of Day and Day of Week

Hour Ending	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Total
1:00	6	1	0	1	3	1	5	17
2:00	3	3	1	0	4	2	1	14
3:00	3	2	1	2	1	5	0	14
4:00	0	1	2	1	0	2	3	9
5:00	0	1	0	1	2	1	1	6
6:00	2	1	1	6	0	3	0	13
7:00	2	2	2	4	5	0	5	20
8:00	4	18	16	18	15	14	4	89
9:00	6	17	18	30	23	19	4	117
10:00	1	14	9	27	21	12	15	99
11:00	7	11	12	16	13	11	10	80
12:00	7	15	19	22	18	23	11	115
13:00	8	17	20	21	17	27	25	135
14:00	5	15	22	23	21	22	22	130
15:00	8	27	19	21	26	15	21	137
16:00	10	27	32	32	28	33	10	172
17:00	16	26	33	32	33	37	15	192
18:00	8	32	33	14	25	33	8	153
19:00	14	13	19	15	17	21	11	110
20:00	7	8	12	10	14	14	12	77
21:00	9	6	6	8	11	11	10	61
22:00	7	9	6	9	3	12	8	54
23:00	3	4	5	3	8	13	6	42
24:00	6	4	1	6	3	3	3	26
Unknown	9	10	7	11	8	5	5	55
Total	151	284	296	333	319	339	215	1937

Object Type Summary

2023/01/01 TO 2023/12/31

Table 7: Objects Involved in 2023 Motor Vehicle Collisions

Object Type	# Objects	Percentage
Passenger Car	1289	28.57%
Pick-Up/Van <4500kg	849	18.82%
Mini-Van/MPV/SUV	1598	35.42%
Truck >4500kg	89	1.97%
Truck Tractor	11	0.24%
Motorcycle/Scooter	12	0.27%
Pedestrian	36	0.80%
Bicycle	22	0.49%
School Bus	25	0.55%
Transit Bus	20	0.44%
Intercity Bus	1	0.02%
Other Bus	2	0.04%
Fixed Object	147	3.26%
Train	0	0.00%
Animal	79	1.75%
Motorhome	1	0.02%
Construction Equipment	0	0.00%
Emergency Vehicle	7	0.16%
Farm Equipment	0	0.00%
Off-Highway Vehicle	2	0.04%
Motorized Snow Vehicle	0	0.00%
Moped	0	0.00%
Unknown	321	7.12%
Total	4511	100.0%

Drivers Summary

2023/01/01 TO 2023/12/31

Table 8: Age and Action of Drivers involved in 2023 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	0	89	115	260	345	247	206	139	56	3	1460	38.0%
Stop Sign Violation	0	7	3	11	4	8	7	3	7	0	50	1.3%
Yield Sign Violation	0	3	4	1	7	3	3	2	1	0	24	0.6%
Fail To Yield Right of way at Uncontrolled Intersection	0	1	3	6	6	5	1	1	1	0	24	0.6%
Fail To Yield Right of way to Pedestrian	0	3	1	3	3	1	2	1	0	1	15	0.4%
Followed Too Closely	0	61	48	86	87	61	44	36	16	3	442	11.5%
Parked Vehicle	0	0	0	0	0	0	0	0	0	0	0	0.0%
Backed Unsafely	0	8	6	14	23	12	15	10	6	0	94	2.4%
Left Turn Across Path	0	20	15	18	16	20	10	10	5	3	117	3.0%
Improper Lane Change	0	17	16	24	23	28	16	16	18	0	158	4.1%
Disobey Traffic Signal	0	10	12	11	14	9	15	7	12	3	93	2.4%
Ran Off Road	0	11	6	13	14	6	4	1	3	0	58	1.5%
Improper Turn	0	17	9	11	14	5	14	8	4	1	83	2.2%
Left of Centre	0	6	1	5	9	6	0	1	2	1	31	0.8%
Improper Passing	0	4	0	5	4	4	2	1	3	0	23	0.6%
Other, Unknown	1	42	42	86	83	54	51	45	45	724	1173	30.5%
Total	1	299	281	554	652	469	390	281	144	774	3845	100%
% of Age	0.0%	7.8%	7.3%	14.4%	17.0%	12.2%	10.1%	7.3%	3.7%	20.1%	100%	

Condition/Safety Summary

2023/01/01 TO 2023/12/31

Table 9: Driver/Pedestrian Condition in 2023 Public Roadway Collisions

Driver/Pedestrian Condition	Drivers/Pedestrians #	Fatal Collisions	Injury Collisions	Property Damage Collisions
Had Been Drinking	16	0	5	11
Impaired by Alcohol	28	0	6	22
Impaired by Drugs	0	0	0	0
Fatigued/Asleep	3	0	1	2
Medical Defect	5	0	2	3
Unsafe Speed	186	1	46	139

Table 10: Safety Equipment Used in 2023 Public Roadway Collisions

Safety Equipment	Drivers #	Collision Severity				Passenger #	Collision Severity			
		None	Minor	Major	Fatal		None	Minor	Major	Fatal
Lap belt only	46	43	2	1	0	5	5	0	0	0
Lap/Shoulder belt assembly	2930	2769	147	14	0	351	324	24	3	0
Shoulder belt only	28	26	1	1	0	5	5	0	0	0
Lap/Shoulder with Air Bag	134	107	19	6	2	10	5	2	2	1
Airbag	48	37	10	1	0	3	1	2	0	0
None	72	62	4	6	0	0	0	0	0	0
Other/Specify	0	0	0	0	0	75	72	2	1	0
Unknown	514	503	10	1	0	27	26	1	0	0

Pedestrian Collisions

2023/01/01 TO 2023/12/31

Table 11: Pedestrian Collisions Summary in 2023 Public Roadways Collisions

Statistics	2023
Collisions Involving Pedestrian	36
Pedestrians Involved	36
Collisions resulting in Pedestrian Injury or Fatality	34
Pedestrian Injuries	33
Pedestrian Fatalities	1

Table 12: Age and Action of Pedestrians involved in 2023 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	0	6	5	3	3	1	0	3	3	2	0	26	72.2%
Crossing without Right of Way	0	0	0	0	0	1	0	0	0	0	0	3	4	11.1%
Walking/Working on Roadway	0	0	0	1	1	0	0	0	2	0	0	0	4	11.1%
Getting on/off vehicle	0	0	0	0	0	1	1	0	0	0	0	0	2	5.6%
Other, Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Total	0	0	6	6	4	5	2	0	5	3	2	3	36	100%
% of Age	0.0%	0.0%	16.7%	16.7%	11.1%	13.9%	5.6%	0.0%	13.9%	8.3%	5.6%	8.3%	100%	

Bicycle Collisions
2023/01/01 TO 2023/12/31

Table 13: Bicyclist Collisions Summary in 2023 Public Roadways Collisions

Statistics	2023
Bicyclist Collisions	22
Bicyclists Involved	22
Collisions resulting in Bicyclist Injury or Fatality	16
Bicyclist Injuries	15
Bicyclist Fatalities	1

Table 14: Age and Action of Bicyclists involved in 2023 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	0	2	1	0	0	0	0	1	0	0	4	18.2%
Stop Sign Violation	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
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	0	0	0	0	0	0	0	1	0	1	4.5%
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	2	0	0	0	0	0	2	9.1%
Disobey Traffic Signal	0	0	0	1	1	1	1	0	1	0	1	0	6	27.3%
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	0	0	0	0	0	0	0	0.0%
Improper Turn	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Other, Unknown	0	1	2	1	0	3	0	0	1	0	0	1	9	40.9%
Total	0	1	2	4	2	4	3	0	2	1	2	1	22	100%
% of Age	0.0%	4.5%	9.1%	18.2%	9.1%	18.2%	13.6%	0.0%	9.1%	4.5%	9.1%	4.5%	100%	