



COLLISION STATISTICS 2024



2024 Red Deer Annual Motor Vehicle Collision Report

January 2026

Engineering Services
Box 5008, 4914 – 48th Avenue
Red Deer, AB T4N 3T4
engineering@reddeer.ca

RCMP – GRC
Red Deer City Detachment
P.O. Bag 5033
Red Deer, AB T4N 6A1
rcmp@reddeer.ca

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 \$5,000 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, 2024, to December 31, 2024. It also provides the historical collisions and general statistics of 2023 and 2022 for comparison purposes. 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 2024, there were 1,469 reported motor vehicle collisions on public roadways in Red Deer. This figure is lower than 2023 which had 1,937 reported collisions on public roadways.

While 2024 considered the same population as 2023 (no census was done in 2024), collisions per 1,000 populations decreased from 19 to 15.

In 2024, public roadway collisions per 1,000 registered vehicles decreased from 23 to 17.

In 2024, public roadway collisions (Intersection, Midblock, and Alley) have decreased by 24.2 percent compared to the 2023 figure. The decrease observed is partially attributable to a change in reporting criteria, as the Government of Alberta raised the property damage collision reporting threshold from \$2,000 to \$5,000 in 2024.

In 2024, approximately 69.8 percent of the public roadway collisions occurred at intersections which is higher than the percentage of public roadway collisions that occurred at intersections in 2023 (66.6 percent) and 2022 (69.3 percent).

Injuries: In 2024 there were a total of 408 reported minor and major injuries; this is an approximate increase of 43.7 percent over the 284 injuries reported in 2023. The 284 reported injuries in 2023 is an approximate increase of 70.1 percent when compared to the 167 injuries reported in 2022. It is important to note that the increase observed in 2024 is partially attributable to a change in reporting criteria, as any soft-tissue injuries began being classified as “injuries” in 2024.

Fatalities: There were two road fatalities in 2024, compared to four in 2023 and none in 2022.

Pedestrians: In 2024 there were 26 reported pedestrian collisions resulting in 20 injuries. In 2023 there were 36 pedestrian collisions resulting in 33 injuries and one fatality. In 2022 there were 22 reported pedestrian collisions resulting in 20 injuries. Of the 26 pedestrian collisions in 2024, 20 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 2024 there were 25 reported bicycle collisions resulting in 21 injuries. 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.

Month: In 2024, January was the leading month with 12.7 percent (187 total) of public roadway collisions; while June experienced the least number with 5.0 percent (73 total). See Figure 5.

Day: In 2024, Wednesdays had the highest percentage of collisions with 17.7 percent, followed by Fridays at 17.0 percent, while Sunday was the lowest with 7.7 percent. See Figure 6.

Hour: The hour from 1601 to 1700 accounted for 9.8 percent of all public roadway collisions, while each hour from 0101 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 1101 to 1200, 1501 to 1600, and 1601 to 1700 on weekends. See Figure 7 and Figure 8.

Holiday: Labour Day recorded the highest total number of collisions with five. 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 2024 was “Followed Too Closely”. See Table 4.

Types of Collisions	2023	2024
Rear-End	601	424
Percentage of all public roadway collisions	31.0%	28.9%
Struck Object	399	235
Percentage of all public roadway collisions	20.6%	16.0%

Road Surface: 55.8 percent of collisions occurred when the road surface was dry and 35.6 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 2023. See Table 8.

Age Group	2023	2024
35-44	652	574
Percentage of all public roadway collisions	17.0%	15.5%
25-34	554	465
Percentage of all public roadway collisions	14.4%	12.6%

Alcohol: In 2024, 27 drivers/pedestrians involved in collisions were impaired by alcohol while 28 drivers/pedestrians involved in collisions were impaired by alcohol in 2023. There were 11 injury collisions related to alcohol in 2024.

Restraint Usage: In 2024, there were 58 drivers involved in public roadway collisions recorded without wearing restraining devices which resulted in 8 injuries.

Motor Vehicle Types: Mini-Van/MPV/SUVs were involved in 34.8 percent of public roadway collisions in 2024 while passenger cars represented 27.6 percent and pick-up/van 16.9 percent.

Parking lots and Unknown locations Collisions: In 2024, there were 578 reported collisions in parking lots and unknown locations. In 2023 and 2022, the number of reported collisions on parking lots and unknown locations were 876 and 805 collisions.

Table 1: Public Roadway Collisions Statistics 2022-2024

Statistics	2022	2023	2024
Public Roadways Collisions	1927	1937	1469
Collisions in Intersection	1336	1291	1026
Collisions in Midblock	568	609	420
Percentage Increase / Decrease	+33.4%	+0.5%	-24.2%
Fatal Collisions	0	3	2
Injury Collisions	132	226	332
Fatal and Injury Collisions	132	229	334
Property Damage Only Collisions	1795	1708	1135
Number of Injuries	167	284	408
Number of Fatalities	0	4	2
Pedestrian Collisions	22	36	26
Number of Pedestrian Injuries	20	33	20
Number of Pedestrian Fatalities	0	1	0
Bicycle Collisions	20	22	25
Number of Bicyclists Injuries	17	15	21
Number of Bicyclists Fatalities	0	1	0
Red Deer Population	100,844	100,844	100,844
Motor vehicles Registered in Red Deer Civic Address	81,951	82,511	85,474
Public Roadway Collisions/1000 Population	19	19	15
Public Roadway Collisions/1000 Registered Vehicles in Red Deer Civic Address	24	23	17

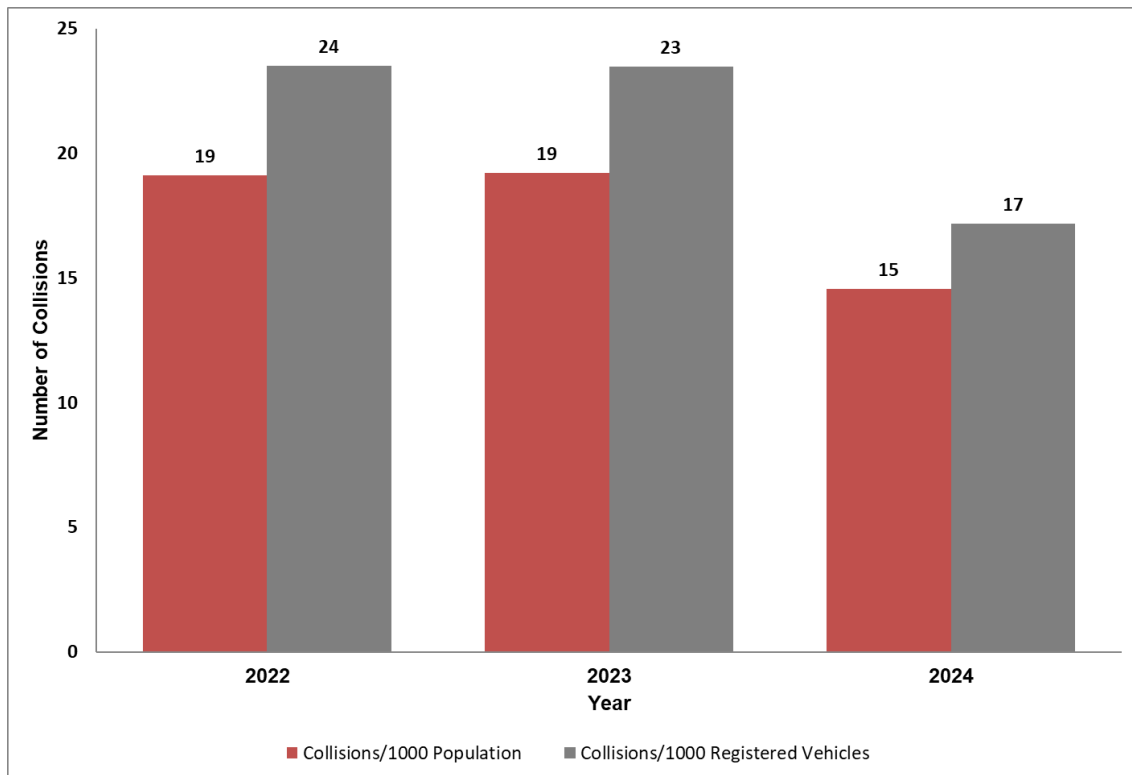


Figure 1: Public Roadway Collisions Rate Trend 2022-2024

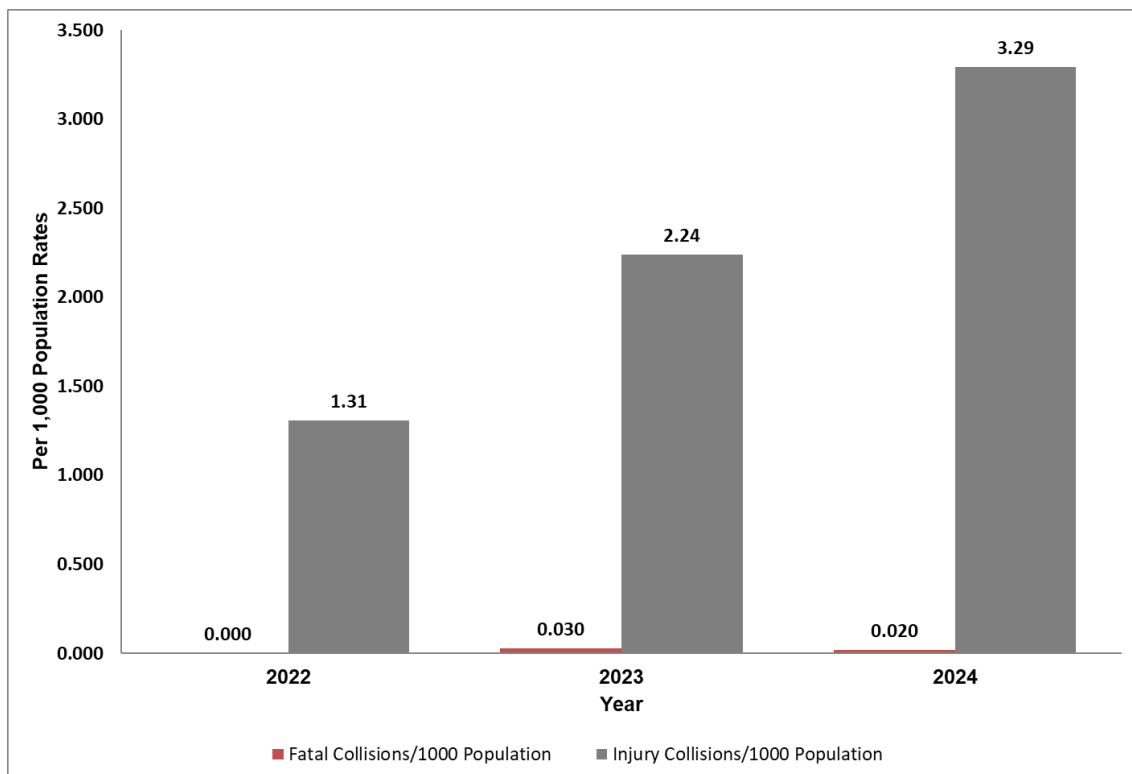


Figure 2: Fatal and Injury Collisions Rate Trend on Public Roadways 2022-2024

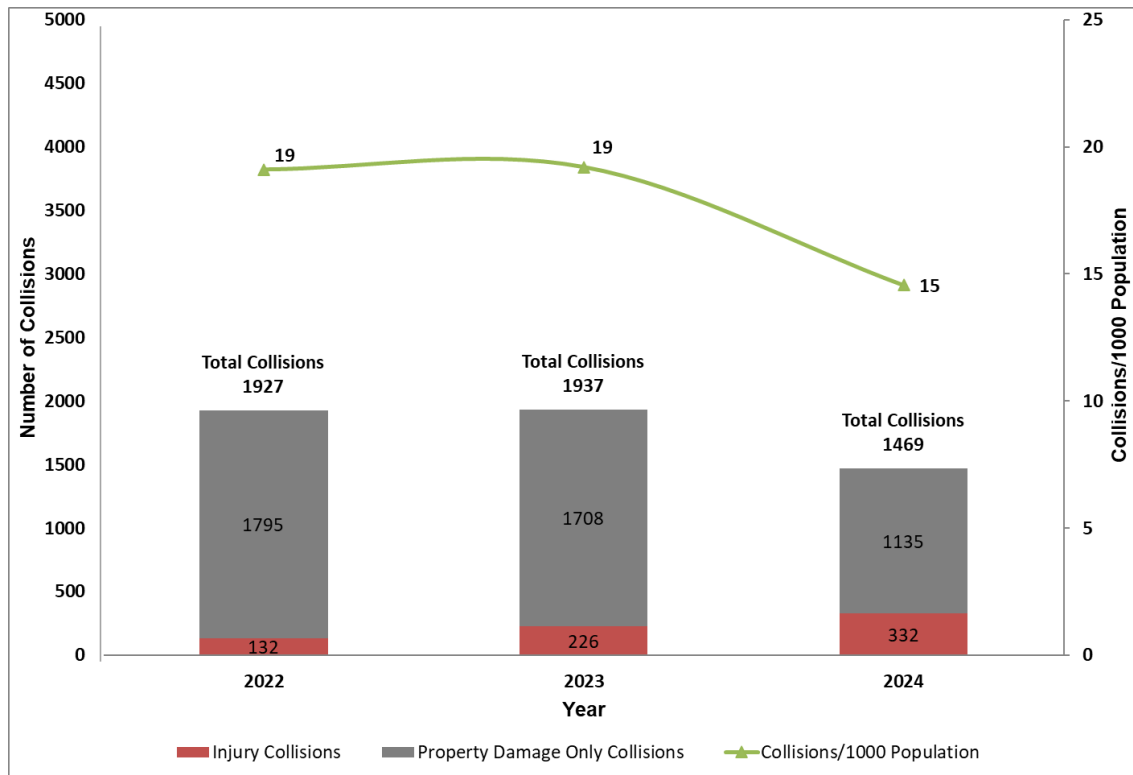


Figure 3: Public Roadway Collisions Trend 2022-2024

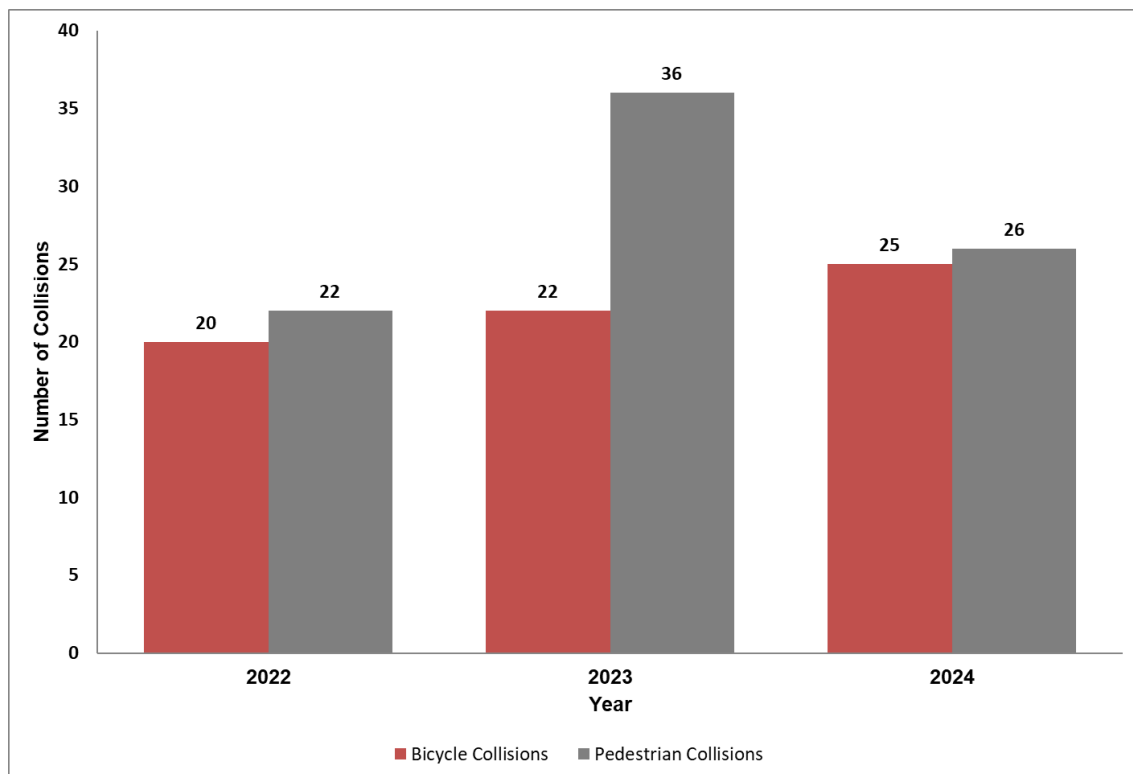


Figure 4: Pedestrian and Bicyclist Collisions on Public Roadways 2022-2024

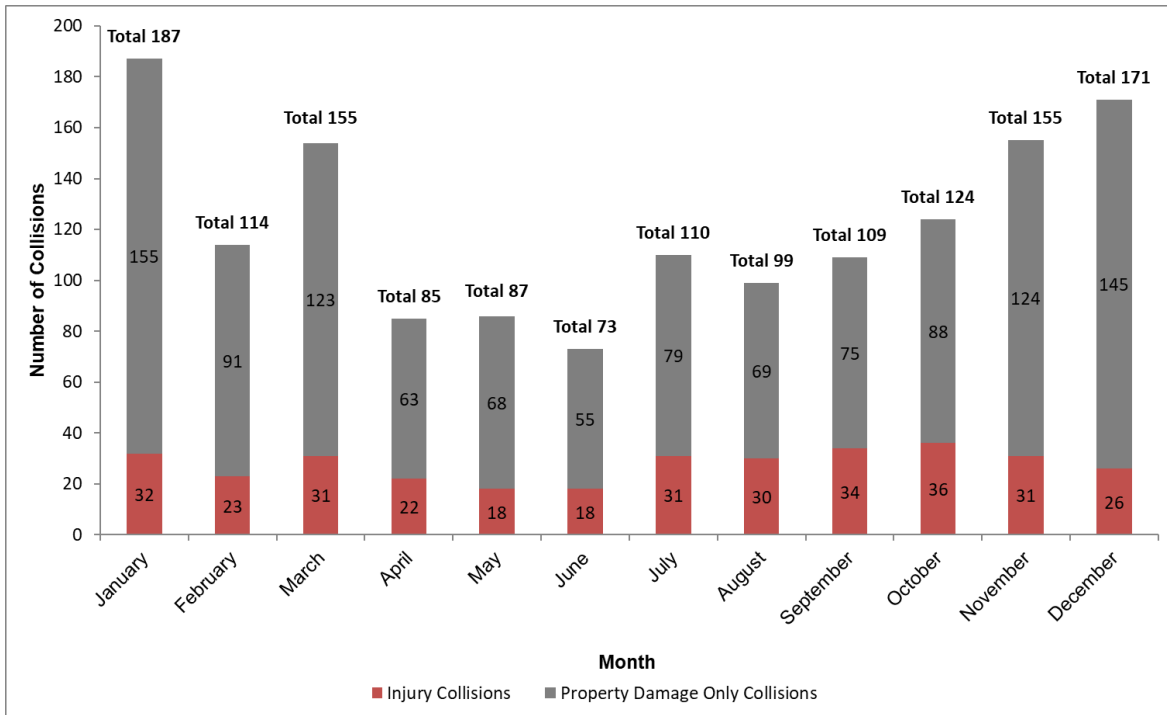


Figure 5 : 2024 Public Roadway Collisions by Month

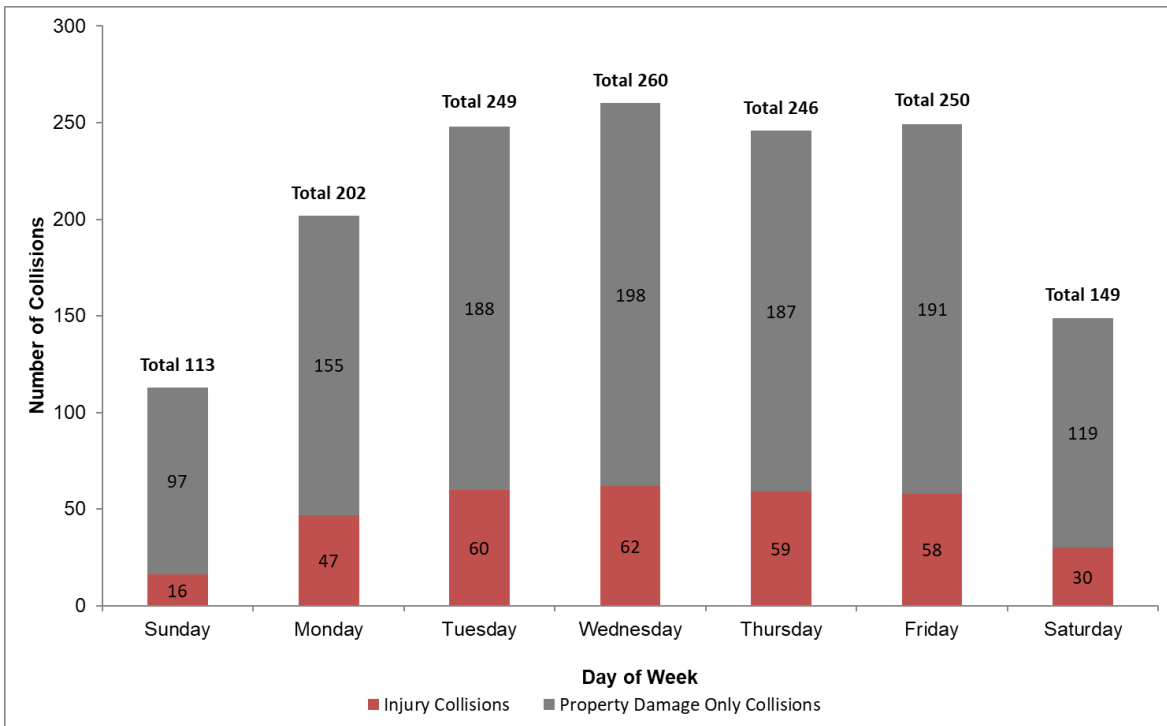


Figure 6: 2024 Public Roadway Collisions by Day of Week

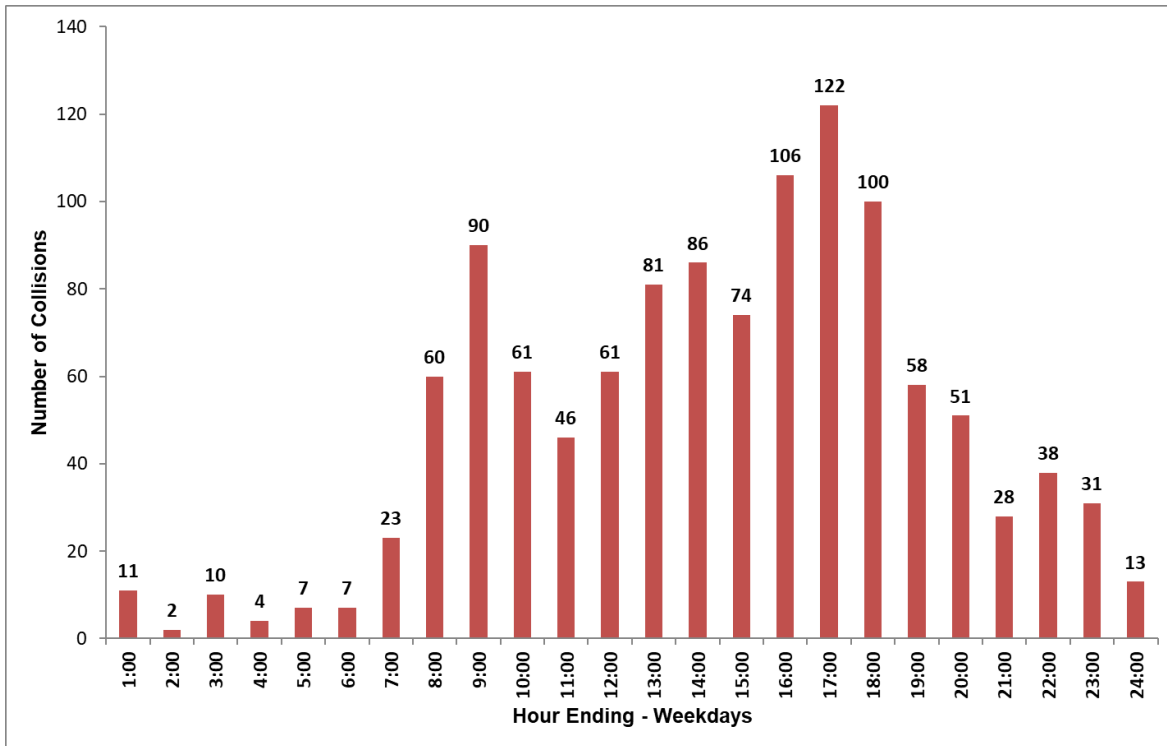


Figure 7: 2024 Public Roadway Collisions by Hour of Day (Weekdays)*

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

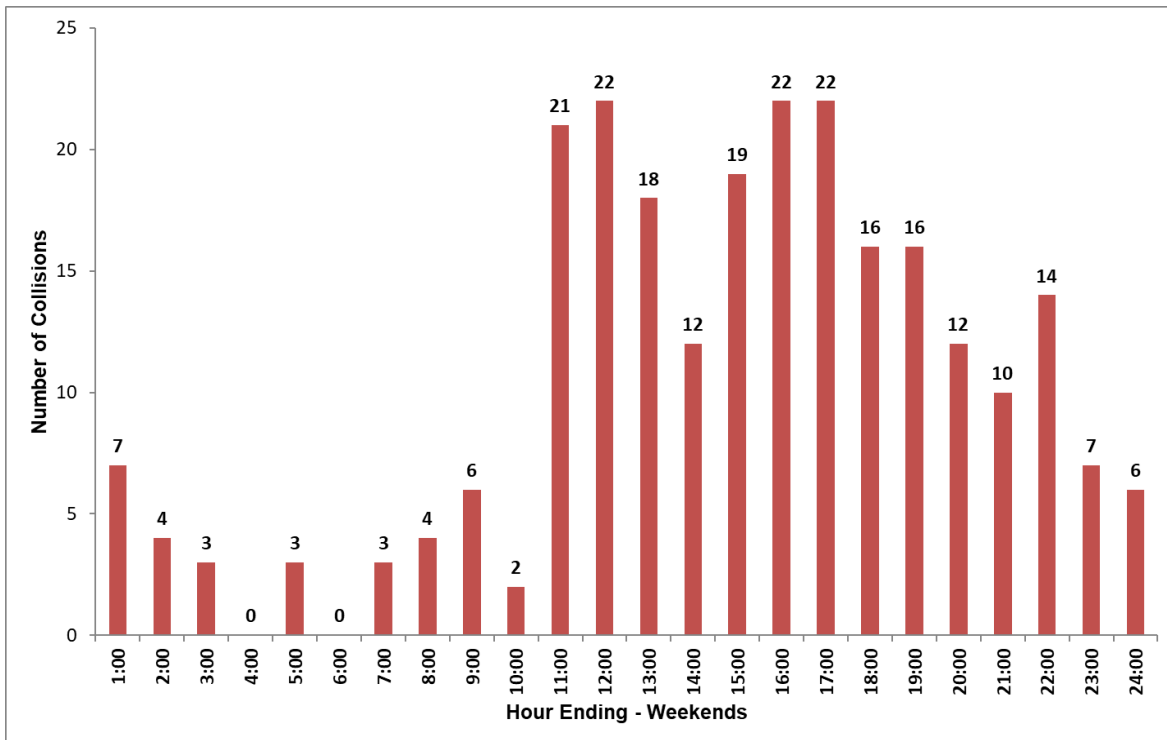


Figure 8: 2024 Public Roadway Collisions by Hour of Day (Weekends)*

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

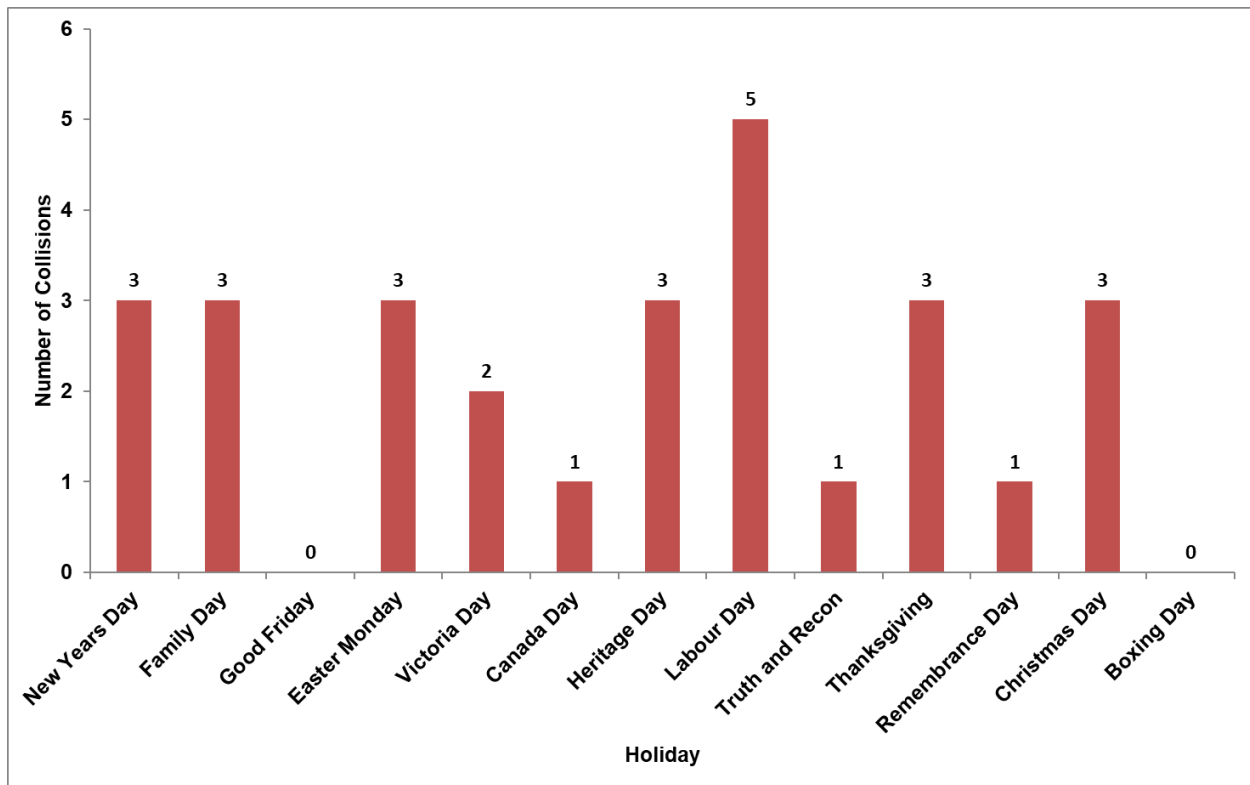


Figure 9: 2024 Public Roadway Collisions in Statutory Holidays

Public Roadway Collisions Summary

2024/01/01 TO 2024/12/31

Table 2 : Number of Collisions on Public Roadways in 2024

Statistics	2024
Motor Vehicle Collisions	1469
Motor Vehicles Involved	2852
Collisions Causing Fatalities	2
Fatalities Resulting	2
Collisions Causing Injury	332
Injuries Resulting	408
Property Damage Only Collisions	1135

Table 3: Fatalities and Injuries on Public Roadways in 2024

Travel Mode	Minor Injuries	Major Injuries	Fatal	Total
Vehicle Driver	273	19	1	293
Vehicle Passenger	57	1	0	58
Motorcyclist	6	4	1	11
Bicyclist	18	3	0	21
Pedestrian	14	6	0	20
Other, Unknown	7	0	0	7
Total	375	33	2	410

Roadway Summary

2024/01/01 TO 2024/12/31

Table 4: 2024 Collisions by Roadway Portion

Cause	Intersection	Midblock	Alley	At/Near Rail road crossing	Unknown	Total
Struck Object	122	107	5	0	1	235
Off Road Left	3	7	1	0	0	11
Right Angle	202	11	3	0	0	216
Passing-Left Turn	18	7	0	0	0	25
Left Turn- Across Path	147	7	0	0	0	154
Sideswipe - Opposite Direction	9	12	1	0	0	22
Other	11	39	0	0	4	54
Rear End	345	78	1	0	0	424
Off Road Right	8	13	1	0	0	22
Head On	6	6	0	0	0	12
Passing-Right Turn	14	4	0	0	0	18
Sideswipe - Same Direction	124	87	2	0	1	214
Backing	17	42	3	0	0	62
Total	1026	420	17	0	6	1469

Table 5: 2024 Public Roadway Collisions by Month and Road Surface Condition

Month	Dry	Wet	Slush/Snow/Ice	Loose Surface Material	Other/ Unknown	Total
January	15	10	160	1	1	187
February	30	15	64	0	5	114
March	54	10	88	0	3	155
April	64	9	9	2	1	85
May	71	13	0	1	2	87
June	69	3	0	0	1	73
July	108	1	0	0	1	110
August	87	9	1	1	1	99
September	106	3	0	0	0	109
October	116	5	1	0	2	124
November	68	5	77	0	5	155
December	32	13	123	0	3	171
Total	820	96	523	5	25	1469

Day/Time Summary

2024/01/01 TO 2024/12/31

Table 6: 2024 Public Roadway Collisions by Hour of Day and Day of Week

Hour Ending	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Total
1:00	5	2	2	4	1	2	2	18
2:00	1	0	0	0	1	1	3	6
3:00	2	3	1	4	1	1	1	13
4:00	0	1	1	1	0	1	0	4
5:00	0	1	1	2	2	1	3	10
6:00	0	0	1	2	2	2	0	7
7:00	3	3	5	5	6	4	0	26
8:00	2	7	12	18	12	11	2	64
9:00	2	18	18	25	17	12	4	96
10:00	0	7	6	16	19	13	2	63
11:00	9	12	10	7	11	6	12	67
12:00	9	12	19	9	9	12	13	83
13:00	8	10	16	17	19	19	10	99
14:00	4	15	15	19	24	13	8	98
15:00	8	13	18	12	10	21	11	93
16:00	7	18	15	20	25	28	15	128
17:00	12	18	29	27	25	23	10	144
18:00	9	15	29	22	10	24	7	116
19:00	8	10	7	13	11	17	8	74
20:00	5	8	15	8	8	12	7	63
21:00	2	7	7	6	3	5	8	38
22:00	8	7	5	5	12	9	6	52
23:00	3	4	6	6	10	5	4	38
24:00	1	2	3	4	3	1	5	19
Unknown	5	9	8	8	5	7	8	50
Total	113	202	249	260	246	250	149	1469

Object Type Summary

2024/01/01 TO 2024/12/31

Table 7: Objects Involved in 2024 Motor Vehicle Collisions

Object Type	# Objects	Percentage
Passenger Car	1244	27.56%
Pick-Up/Van <4500kg	762	16.88%
Mini-Van/MPV/SUV	1569	34.76%
Truck >4500kg	149	3.30%
Truck Tractor	18	0.40%
Motorcycle/Scooter	19	0.42%
Pedestrian	26	0.58%
Bicycle	25	0.55%
School Bus	11	0.24%
Transit Bus	12	0.27%
Intercity Bus	3	0.07%
Other Bus	1	0.02%
Fixed Object	114	2.53%
Train	0	0.00%
Animal	38	0.84%
Motorhome	4	0.09%
Construction Equipment	1	0.02%
Emergency Vehicle	2	0.04%
Farm Equipment	0	0.00%
Off-Highway Vehicle	0	0.00%
Motorized Snow Vehicle	0	0.00%
Moped	0	0.00%
Unknown	516	11.43%
Total	4514	100%

Drivers Summary

2024/01/01 TO 2024/12/31

Table 8: Age and Action of Drivers involved in 2024 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	82	113	227	310	206	193	136	44	0	1311	35.4%
Stop Sign Violation	0	7	8	7	7	9	3	6	5	0	52	1.4%
Yield Sign Violation	0	4	3	3	7	7	1	3	1	0	29	0.8%
Fail To Yield Right of way at Uncontrolled Intersection	0	2	3	4	3	3	6	3	1	0	25	0.7%
Fail To Yield Right of way to Pedestrian	0	2	0	2	2	2	1	0	3	1	13	0.4%
Followed Too Closely	0	21	53	66	74	48	27	20	17	4	330	8.9%
Parked Vehicle	0	0	0	0	0	0	0	0	0	0	0	0.0%
Backed Unsafely	1	11	15	19	30	18	14	19	13	7	147	4.0%
Left Turn Across Path	0	20	13	32	27	11	15	13	9	0	140	3.8%
Improper Lane Change	0	10	5	17	19	15	14	15	8	1	104	2.8%
Disobey Traffic Signal	0	10	16	18	24	17	8	9	7	2	111	3.0%
Ran Off Road	0	10	6	15	13	3	4	5	3	2	61	1.6%
Improper Turn	0	9	7	9	15	15	10	11	7	1	84	2.3%
Left of Centre	0	2	4	0	2	0	1	2	1	0	12	0.3%
Improper Passing	0	1	3	5	1	5	1	4	2	0	22	0.6%
Other, Unknown	3	46	31	41	40	29	33	27	27	984	1261	34.1%
Total	4	237	280	465	574	388	331	273	138	1012	3702	100%
% of Age	0.1%	6.4%	7.6%	12.6%	15.5%	10.5%	8.9%	7.4%	3.7%	27.3%	100%	

Condition/Safety Summary

2024/01/01 TO 2024/12/31

Table 9: Driver/Pedestrian Condition in 2024 Public Roadway Collisions

Driver/Pedestrian Condition	Drivers/Pedestrians #	Fatal Collisions	Injury Collisions	Property Damage Collisions
Had Been Drinking	13	0	2	11
Impaired by Alcohol	27	0	9	18
Impaired by Drugs	2	0	1	1
Fatigued/Asleep	5	0	0	5
Medical Defect	5	0	1	4
Unsafe Speed	205	1	49	155

Table 10: Safety Equipment Used in 2024 Public Roadway Collisions

Safety Equipment	Drivers #	Collision Severity				Passenger #	Collision Severity			
		None	Minor	Major	Fatal		None	Minor	Major	Fatal
Lap belt only	24	23	1	0	0	4	4	0	0	0
Lap/Shoulder belt assembly	2719	2433	271	14	1	473	429	43	1	0
Shoulder belt only	34	33	1	0	0	4	4	0	0	0
Lap/Shoulder with Air Bag	153	113	39	1	0	19	9	10	0	0
Airbag	21	20	1	0	0	0	0	0	0	0
None	58	50	6	2	0	6	0	0	0	0
Other/Specify	0	0	0	0	0	74	70	4	0	0
Unknown	621	605	13	3	0	19	19	0	0	0

Pedestrian Collisions

2024/01/01 TO 2024/12/31

Table 11: Pedestrian Collisions Summary in 2022 Public Roadways Collisions

Statistics	2024
Collisions Involving Pedestrian	26
Pedestrians Involved	26
Collisions resulting in Pedestrian Injury or Fatality	20
Pedestrian Injuries	20
Pedestrian Fatalities	0

Table 12: Age and Action of Pedestrians involved in 2024 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	1	0	0	9	2	1	4	3	0	0	20	76.9%
Crossing without Right of Way	0	0	2	0	1	0	0	0	1	0	0	0	4	15.4%
Walking/Working on Roadway	0	0	0	0	0	2	0	0	0	0	0	0	2	7.7%
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	0	3	0	1	11	2	1	5	3	0	0	26	100%
% of Age	0.0%	0.0%	11.5%	0.0%	3.8%	42.3%	7.7%	3.8%	19.2%	11.5%	0.0%	0.0%	100%	

Bicycle Collisions

2024/01/01 TO 2024/12/31

Table 13: Bicyclist Collisions Summary in 2024 Public Roadways Collisions

Statistics	2024
Bicyclist Collisions	25
Bicyclists Involved	25
Collisions resulting in Bicyclist Injury or Fatality	21
Bicyclist Injuries	21
Bicyclist Fatalities	0

Table 14: Age and Action of Bicyclists involved in 2024 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	2	1	0	0	1	1	0	1	1	0	7	28.0%
Stop Sign Violation	0	0	0	0	0	0	1	0	0	0	0	0	1	4.0%
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	1	0	0	0	1	0	0	1	0	0	3	12.0%
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	1	0	0	0	0	0	0	1	4.0%
Disobey Traffic Signal	0	0	0	0	1	0	0	0	0	0	0	0	1	4.0%
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	1	0	0	0	0	1	4.0%
Left of Centre	0	0	0	0	0	1	0	0	0	0	0	0	1	4.0%
Improper Turn	0	0	0	1	0	0	0	0	0	0	0	0	1	4.0%
Other, Unknown	0	0	3	2	0	0	0	0	1	0	0	3	9	36.0%
Total	0	0	6	4	1	2	3	2	1	2	1	3	25	100%
% of Age	0.0%	0.0%	24.0%	16.0%	4.0%	8.0%	12.0%	8.0%	4.0%	8.0%	4.0%	12.0%	100.0%	0.0%