

Victims and Safety Restraints

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Victims and Safety Restraints

TAIS captures information on all passengers involved in injury collisions. This data can be used to calculate exposure rates for occupants by injury severity, age, seating position, gender and other variables. Additional details, such as injury region of the body and injury treatment, are also available from TAIS.

Figure 7.3 shows the relationship between the severity of injury to vehicle occupants and seatbelt use. The severity of injury is much lower for victims using safety restraints.

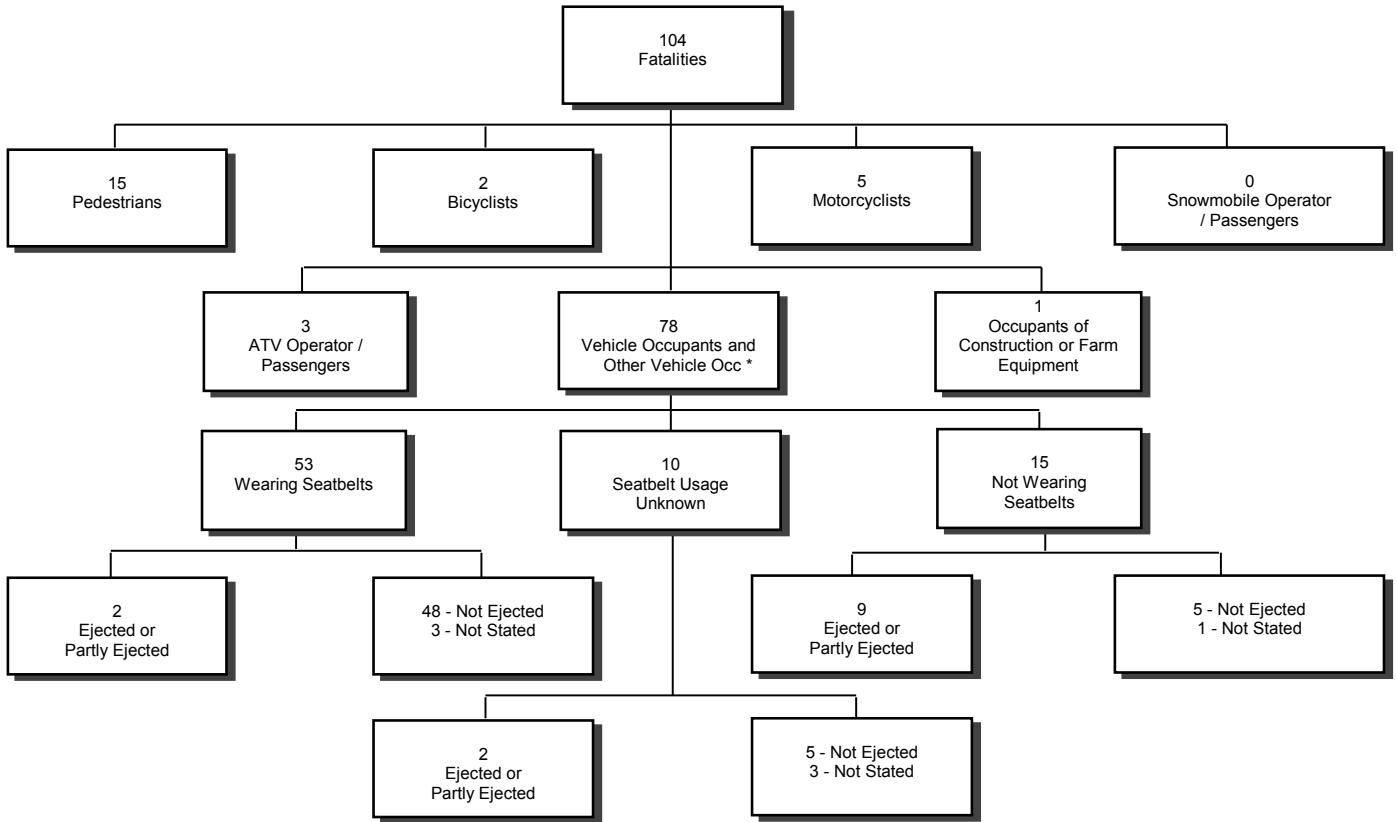
- 93% of those using safety restraints sustained minor or moderate injuries.
- Occupants not using safety restraints were severely or fatally injured 48% of the time, compared to 7% of the time for those using restraints.

In 2004, Transport Canada began conducting observational surveys of seatbelt use, alternating annually between rural and urban communities across Canada. Seatbelt use in urban areas was observed in 2010, 2016, and most recently in 2017. The Saskatchewan urban seatbelt use rate by front-seat occupants increased from 93.5% in 2007 to 95.7% in 2017. Comparatively, the national average increased from 92.5% to 96.9% over the same period. The complete results of the Canadian survey can be referenced in Table 12.2 on page 131.

Fatalities Classification

(January 1 to December 31, 2022)

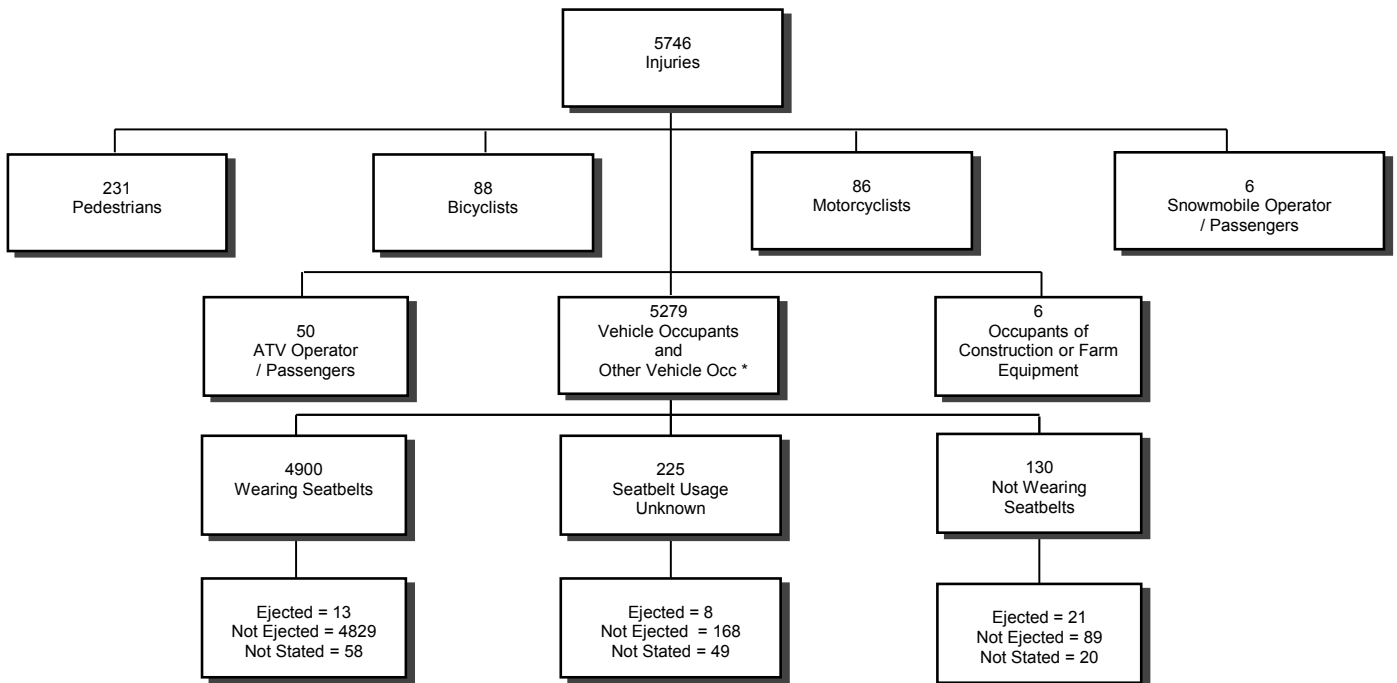
Figure 7.1



Injuries Classification

(January 1 to December 31, 2022)

Figure 7.2



* Other vehicle occupants are occupants of other non-passenger vehicles that may or may not have seatbelts. Some examples are golf carts and specially modified vehicles that do not fit into our general passenger vehicle body type classifications.

Victims Injured by Road User Class and Age Group

Table 7.1

Category	0 -	5 -	15 -	20 -	25 -	35 -	45 -	55 -	65 +	Not Stated	Total	%
	4	14	19	24	34	44	54	64	15			
Motor Vehicle Driver	2	2	355	402	784	806	610	512	426	10	3,909	68.0
Motor Vehicle Passenger	38	199	199	141	196	153	110	96	147	67	1,346	23.4
Pedestrian	5	32	24	36	24	31	23	21	20	15	231	4.0
Motorcycle Driver/Passenger	0	1	1	6	19	8	18	21	12	0	86	1.5
Bicyclist*	1	15	12	10	16	13	7	5	6	3	88	1.5
ATV Operator/Passenger*	0	7	13	7	12	6	2	2	1	0	50	0.9
Snowmobile Driver/Passenger*	0	0	0	0	2	1	2	0	0	1	6	0.1
Other Occupants	0	1	0	0	0	1	0	3	2	0	7	0.1
Occ. of Farm or Const. Equip.	0	0	0	0	0	0	1	3	2	0	6	0.1
Not Stated	1	0	2	3	2	2	1	1	3	2	17	0.3
Total	47	257	606	605	1,055	1,021	774	664	619	98	5,746	100

Victims Killed by Road User Class and Age Group

Table 7.2

Category	0 -	5 -	15 -	20 -	25 -	35 -	45 -	55 -	65 +	Not Stated	Total	%
	4	14	19	24	34	44	54	64	15			
Motor Vehicle Driver	0	0	5	7	12	6	5	12	10	0	57	54.8
Motor Vehicle Passenger	0	2	0	3	3	2	3	5	3	0	21	20.2
Pedestrian	1	1	1	2	1	3	2	1	3	0	15	14.4
Motorcycle Driver/Passenger	0	0	0	0	1	0	2	1	1	0	5	4.8
ATV Operator/Passenger*	0	0	0	0	1	1	0	0	0	1	3	2.9
Snowmobile Driver/Passenger*	0	0	0	0	0	0	0	0	0	0	0	0.0
Other Occupants	0	0	0	0	0	0	0	0	0	0	0	0.0
Bicyclist*	0	0	0	0	1	1	0	0	0	0	2	1.9
Occ. of Farm or Const. Equip.	0	0	0	0	0	0	0	1	0	0	1	1.0
Not Stated	0	0	0	0	0	0	0	0	0	0	0	0.0
Total	1	3	6	12	19	13	12	20	17	1	104	100

Victims Injured or Killed by Road User Class and Gender

Table 7.3

Category	Victims Injured				Victims Killed			
	Male	Female	Not Stated	Total	Male	Female	Not Stated	Total
Motor Vehicle Driver	1,745	2,126	38	3,909	36	20	1	57
Motor Vehicle Passenger	443	864	39	1,346	6	15	0	21
Pedestrian	123	101	7	231	9	5	1	15
Motorcycle Driver/Passenger	79	7	0	86	5	0	0	5
Bicyclist*	67	18	3	88	1	1	0	2
ATV Operator/Passenger*	21	29	0	50	2	1	0	3
Snowmobile Driver/Passenger*	5	1	0	6	0	0	0	0
Other Occupants	6	1	0	7	0	0	0	0
Occ. of Farm or Const. Equip.	4	1	1	6	1	0	0	1
Not Stated	8	8	1	17	0	0	0	0
Total	2,501	3,156	89	5,746	60	42	2	104

*TAIS records only collisions on public roads. Therefore, many of the collisions involving snowmobiles and off-highway vehicles are not included in this number. Bicycle collisions are recorded only if the collision occurs with a motor vehicle on the roadway.

Vehicle Occupants by Injury Class and Safety Restraints Used

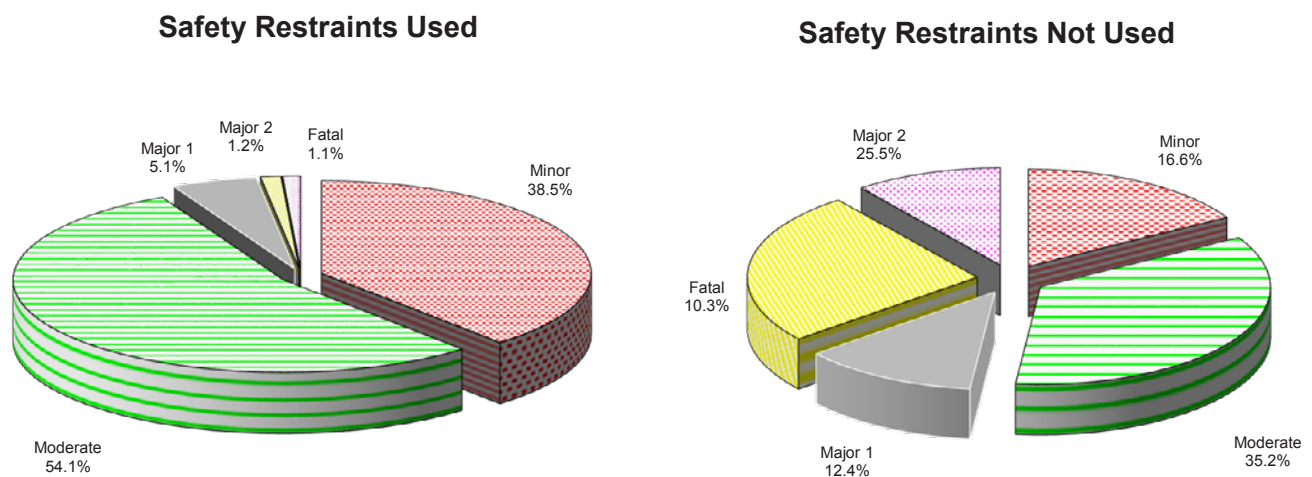
Table 7.4

Injury Class	Lap/Lap & Shoulder Belt	Lap & Shoulder w/ Air Bag	Child Restraint Rear Facing	Child Restraint Front Facing w/ Tether	Child Restraint Front Facing w/o Tether	Child Booster Seat	Not or Improperly Used	Not Stated*	Total	%
Minor	1,105	791	1	10	0	1	24	95	2,027	38.0
Moderate	1,118	1,547	5	3	2	3	51	88	2,817	52.8
Major 1	109	145	0	0	0	0	18	21	293	5.5
Major 2	36	24	0	0	0	0	37	21	118	2.2
Fatal	37	16	0	0	0	0	15	10	78	1.5
Total	2,405	2,523	6	13	2	4	315	235	5,333	100

*Occupant data is not captured for uninjured occupants.

Severity of Injury by Safety Restraint Use

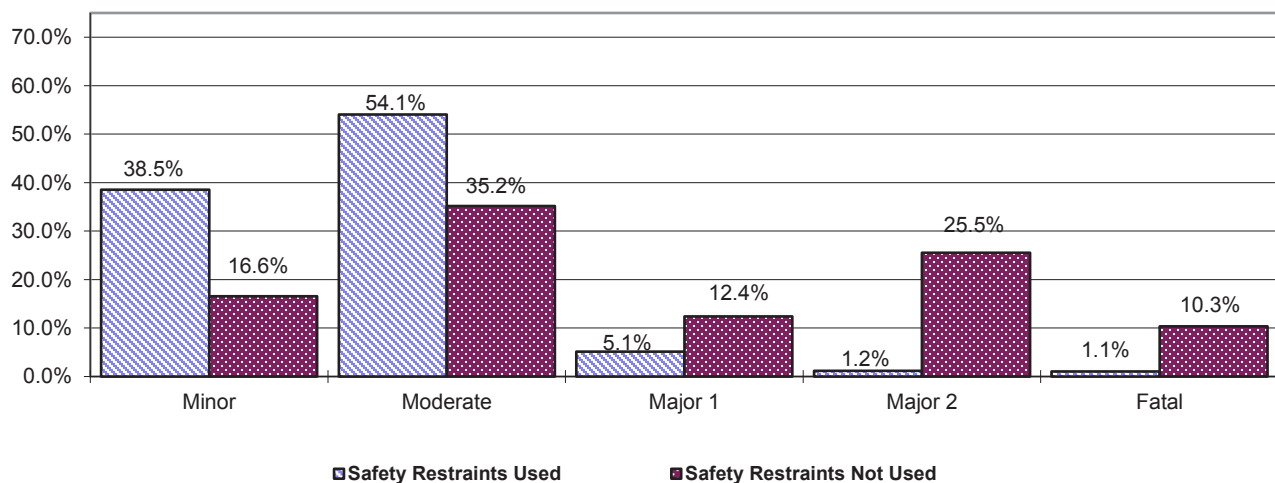
Figure 7.3



Note:

The totals used to calculate the percentage in Figure 7.3 do not include occupants where seatbelt use was coded as "not stated."

Severity of Injury by Safety Restraints Used



Vehicle Occupants by Injury Class and Age Group

Table 7.5

Restraints Used

Injury Class	Not Stated	Age Group								Total
		0 - 4	5 - 10	11 - 15	16 - 25	26 - 65	66 - 70	71 - 75	76 +	
Minor	39	11	46	61	419	1,158	71	49	54	1,908
Moderate	23	16	41	62	553	1,699	111	94	79	2,678
Major 1	3	0	0	2	46	156	21	17	9	254
Major 2	0	0	0	2	12	32	6	4	4	60
Fatal	0	0	1	0	13	26	2	3	8	53
Total	65	27	88	127	1,043	3,071	211	167	154	4,953

Restraints Not Used

Injury Class	Not Stated	Age Group								Total
		0 - 4	5 - 10	11 - 15	16 - 25	26 - 65	66 - 70	71 - 75	76 +	
Minor	0	0	0	1	7	16	0	0	0	24
Moderate	0	0	2	2	20	26	1	0	0	51
Major 1	0	0	1	0	6	11	0	0	0	18
Major 2	0	0	2	2	11	20	1	1	0	37
Fatal	0	0	1	0	5	9	0	0	0	15
Total	0	0	6	5	49	82	2	1	0	145

Restraint Use Not Stated

Injury Class	Not Stated	Age Group								Total
		0 - 4	5 - 10	11 - 15	16 - 25	26 - 65	66 - 70	71 - 75	76 +	
Minor	8	6	3	3	31	43	0	0	1	95
Moderate	4	6	10	1	19	45	2	1	0	88
Major 1	0	0	0	1	2	17	1	0	0	21
Major 2	0	1	1	4	4	9	1	0	1	21
Fatal	0	0	0	0	2	8	0	0	0	10
Total	12	13	14	9	58	122	4	1	2	235

Definitions

Injury Classification

Table 7.6

- 1 Minor minor complaint of injury by victim, but no apparent incapacitation
- 2 Moderate an injury other than a fatal injury or an incapacitating injury, which is evident to observers at the scene of the collision
- 3 Major 1 an injury other than a fatal injury, which prevents the injured person from walking, driving or normally continuing the activities the person was capable of performing before the injury occurred
- 4 Major 2 an injury from which the victim enters into unconsciousness at, or when taken from, the collision scene
- 5 Fatal death within 30 days as a result of injuries incurred in the traffic collision

Vehicle Occupants

Vehicle Occupant driver or passenger of a car, truck, van, power unit, bus, emergency vehicle or motorhome