

**Alberta
Speeding Convictions and
Collisions Involving Unsafe Speed
2004 - 2008**

Overview

This document was prepared under the Alberta Traffic Safety Plan, Strategic Research Plan for 2008-2010, with the objective of developing a demographic profile of those who speed.

Part I of this report provides information on convicted speeding offenses. Part II presents information on collisions in which speed was a contributing factor. It should be noted that those convicted of speeding were not necessarily involved in a collision and conversely those drivers indicated as travelling at an unsafe speed at the time of the collision were not necessarily convicted of speeding.

Overall, young males are the group most likely to be convicted of speeding and also to be involved in collisions where unsafe speed* was a factor**. Overall, convicted speeding offences were more likely to occur in warm weather months (April – October). Similarly, the largest proportion of fatal collisions involving speed occurred in August**. Convicted speeding offenses for travelling at an unreasonable speed were more common in the winter months (January and December). This corresponds with higher rates of casualty collisions involving unsafe speed* in January and December**.

Of drivers convicted over the five year period, 22% received two convictions and 15.5% received three or more convictions.

* Unsafe speed is defined as driving too fast given the traffic density, road, weather and light conditions, whether the driver exceeded the speed limit is irrelevant..

**Source: *Traffic Collisions Involving Unsafe Speed, 2004 – 2008*, Office of Traffic Safety: Alberta Transportation.

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Part I

ALBERTA
SPEEDING CONVICTIONS
2004 – 2008

Definitions

This report contains information, by calendar year, for speeding convictions for the five year period from 2004 to 2008. All convicted speeding offences analyzed in this report began with a charge laid by a law enforcement officer and resulted in a conviction. The data in this report do not include speeding offences captured through automated speed enforcement (e.g. photo radar or intersection safety devices).

Data for the convicted speeding offenses in this report also include out of province speeding convictions. Out of province speeding convictions are convicted speeding offences committed by an Alberta driver in another province or speeding convictions transferred from another province when an out of province driver obtains an Alberta license.

It should be noted that the sole focus of this report is quantifying convicted speeding offenses and no attempt is made to analyze these in relation to the levels of enforcement in the community.

The legislation for the speeding offences in this report can be found in the *Alberta Traffic Safety Act* and its regulations (*Use of Highway and Rules of the Road Regulation* and the *Demerit Point Program and Service of Documents Regulation*). Please note that the emergency and construction zone legislation came into effect in October 2005.

The speed rates specified in this report are: 1 – 15 kph over speed limit, 16 – 30 kph over speed limit, 31 – 50 kph over speed limit and 51 kph and above over speed limit. They are based on the demerit point schedule in the *Demerit Point Program and Service of Documents Regulation*.

The types of speeding convictions specified in this report are: speeding through emergency and construction zones, speeding through flashing yellow light zones and unreasonable rate of speed. All other speeding offences are included in the other speeding offences category. Unreasonable rate of speed is defined as driving a vehicle on a highway at any rate of speed that is unreasonable given the nature, condition and use of highway, weather, visibility, traffic volume or vehicle condition as defined in the *Use of Highway and Rules of The Road Regulation*.

Appendix A describes the various speeding offences in more details.

Summary

- Of the total number of speeding convictions, male drivers made up for 71.8% of the speeding convictions and female drivers made up for 28.2% of the speeding convictions. In terms of involvement per 1,000 licensed drivers, drivers 20 – 21 years of age had the highest rate of speeding convictions (Table 1).
- Of the total number of drivers convicted of speeding, there were two times as many male drivers as there were female drivers. In terms of involvement per 1,000

licensed drivers, drivers 20 – 21 years of age had the highest rate of speeding convictions (Table 2).

- Of all drivers with a speeding conviction between January 2004 and December 2008, 15.5% of them have had three or more speeding convictions during the same period (Table 3).
- Of the drivers with three or more speeding convictions between January 2004 and December 2008, there were more than four times as many male drivers as female drivers. In terms of involvement per 1,000 licensed drivers, drivers 22 – 24 years of age had the highest rate of speeding convictions among drivers with three or more convicted speeding offences (Table 4).
- Over the five year period (January 2004 – December 2008), there were 1,294,975 convictions for speeding offences. (Table 5).
- Of the total number of speeding convictions, 55.3% were for travelling 16 – 30 kph over the speed limit (Table 6).
- July had the largest proportion of convicted speeding offences over the five-year period (9.5%) as well as the largest proportion of convicted speeding offences for speeding through emergency and construction zones (12.9%). September (18.9%) had the largest proportion of speeding through flashing yellow light zones. January (11.6%) had the largest proportion of unreasonable rate of speed offences (Table 7).
- July had the largest proportion of convicted speeding offences where drivers were speeding at 16 – 30 kph, 31 – 50 kph and 51 kph or more over the speed limit (9.4%, 10.4% and 11.9% respectively). April had the largest proportion of convicted speeding offences where drivers were speeding at 1 – 15kph over the speed limit (9.6%) (Table 8).
- Unreasonable rate of speed occurred most frequently on Saturday (17.5%). Speeding through emergency and construction zones occurred most frequently on Tuesday (17.5%). Speeding through flashing yellow light zone occurred most often on Wednesday (22.6%). Other types of speeding offences occurred most frequently on Friday (16.0%) (Table 9).
- Friday (15.9%) had the largest proportion of convicted speeding offences in all specified speed rate categories (Table 10).
- The late morning to early afternoon hours (11:00 a.m. – 2:59 p.m.) had the most convicted speeding offences (28.0%) (Table 11).
- The late morning to early afternoon hours (11:00 a.m. – 2:59 p.m.) had the highest number of convicted speeding offences where drivers were speeding at 1 – 15 kph, 16 – 30 kph and 31 – 50 kph over speed limit (29.1%, 30.8% and 26.4% respectively). The evening hours (7:00 p.m. – 10:59 p.m.) had the highest number of convicted speeding offences where drivers were speeding by more than 50 kph over the speed limit (24.0%) (Table 12).

Table 1
ALBERTA
SPEEDING CONVICTIONS BY AGE AND SEX OF DRIVER
2004 – 2008

Age at Offence Date	Male		Rate Per 1,000** Licensed Drivers	Female		Rate Per 1,000** Licensed Drivers	Total Convicted Speeding Offences*		Rate Per 1,000** Licensed Drivers
	N	%		N	%		N	%	
Under 16	107	0.0	1.5	34	0.0	0.6	141	0.0	1.1
16 - 17	14483	1.1	93.3	5901	0.5	44.1	20384	1.6	70.5
18 - 19	47817	3.7	233.1	20191	1.6	111.7	68008	5.3	176.2
20 - 21	62801	4.8	268.2	26493	2.0	128.2	89294	6.9	202.6
22 - 24	101629	7.8	250.9	40187	3.1	112.4	141816	11.0	186.0
25 - 29	152632	11.8	220.7	55555	4.3	89.5	208187	16.1	158.6
30 - 34	119760	9.2	181.6	45432	3.5	76.4	165192	12.8	131.7
35 - 44	190661	14.7	142.5	81834	6.3	66.2	272495	21.0	105.8
45 - 54	147650	11.4	109.9	58948	4.6	47.9	206598	16.0	80.2
55 - 64	68417	5.3	80.6	23536	1.8	31.1	91953	7.1	57.2
65 and over	24188	1.9	34.0	6718	0.5	11.4	30907	2.4	23.8
Total Convicted Speeding Offences*	930145	71.8		364829	28.2		1294975	100.0	

Observations

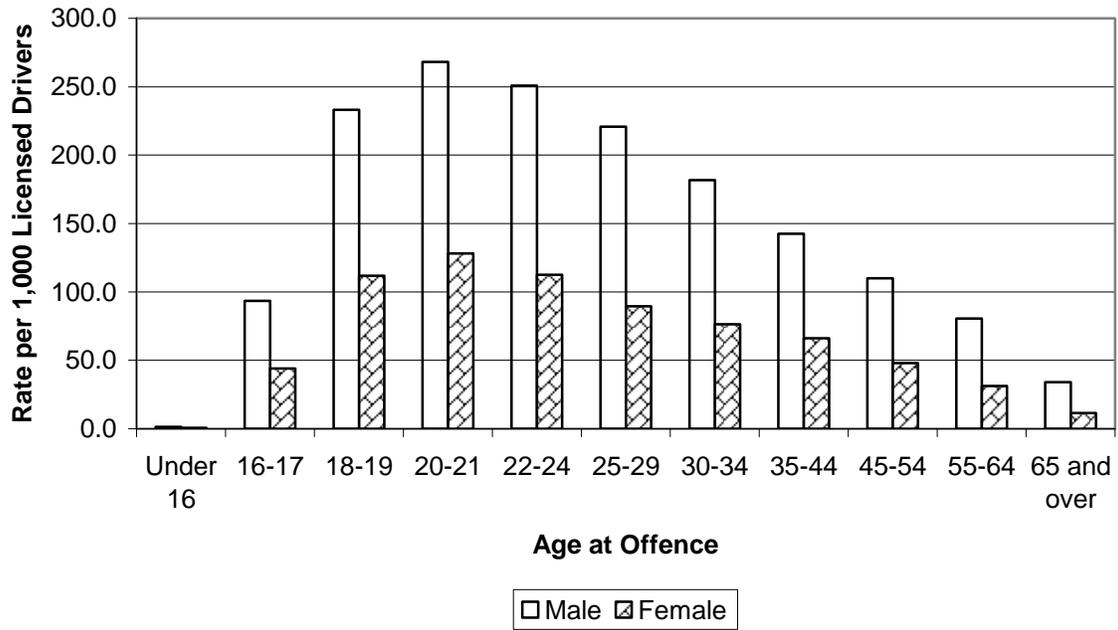
Of the total number of speeding convictions, males made up for 71.8% of the speeding convictions and females made up for 28.2% of the speeding convictions. In terms of involvement per 1,000 licensed drivers, drivers 20 – 21 years of age had the highest rate of speeding convictions.

Note: A driver may appear more than once and in multiple age categories if convicted multiple times over the five year period.

*Total includes speeding drivers whose sex was not specified.

**Source: Service Alberta – Registries. Operator Statistics, January 1, 2004 – December 31, 2008.

Figure 1
ALBERTA
SPEEDING CONVICTIONS
BY AGE AND SEX OF DRIVERS
2004 – 2008



Note: A driver may appear more than once and in multiple age categories if convicted multiple times over the five year period.

Table 2
ALBERTA
DRIVERS WITH A SPEEDING CONVICTION BY AGE AT LAST OFFENCE
2004 – 2008

Age at Last Offence	Male		Rate Per 1,000** Licensed Drivers	Female		Rate Per 1,000** Licensed Drivers	Total Number of Drivers*		Rate Per 1,000** Licensed Drivers
	N	%		N	%		N	%	
	Under 16	60	0.0	0.8	27	0.0	0.5	87	0.0
16 - 17	6900	0.9	44.5	3457	0.4	25.8	10357	1.3	35.8
18 - 19	22102	2.8	107.8	11902	1.5	65.8	34004	4.3	88.1
20 - 21	29464	3.8	125.8	16244	2.1	78.6	45708	5.8	103.7
22 - 24	49941	6.4	123.3	25914	3.3	72.5	75855	9.7	99.5
25 - 29	79478	10.1	114.9	37898	4.8	61.0	117376	15.0	89.4
30 - 34	65960	8.4	100.0	31686	4.0	53.3	97646	12.5	77.8
35 - 44	112731	14.4	84.2	58264	7.4	47.1	170995	21.8	66.4
45 - 54	94617	12.1	70.4	44875	5.7	36.5	139492	17.8	54.2
55 - 64	47594	6.1	56.1	18919	2.4	25.0	66513	8.5	41.4
65 and over	19334	2.5	27.2	6000	0.7	10.2	25335	3.2	19.5
Total Number of Drivers*	528181	67.4		255186	32.5		783368	100.0	

Observations

Of the total number of drivers convicted of speeding, there were more than two times as many male drivers as there were female drivers. In terms of involvement per 1,000 drivers, drivers 20 – 21 years of age had the highest rate of speeding convictions.

*Total includes speeding drivers whose sex was not specified.

**Source: Service Alberta – Registries. Operator Statistics, January 1, 2004 – December 31, 2008.

Alberta Transportation
Office of Traffic Safety
December 2009

Figure 2

**ALBERTA
DRIVERS WITH A SPEEDING CONVICTION
BY SEX AND AGE AT LAST OFFENCE
2004 – 2008**

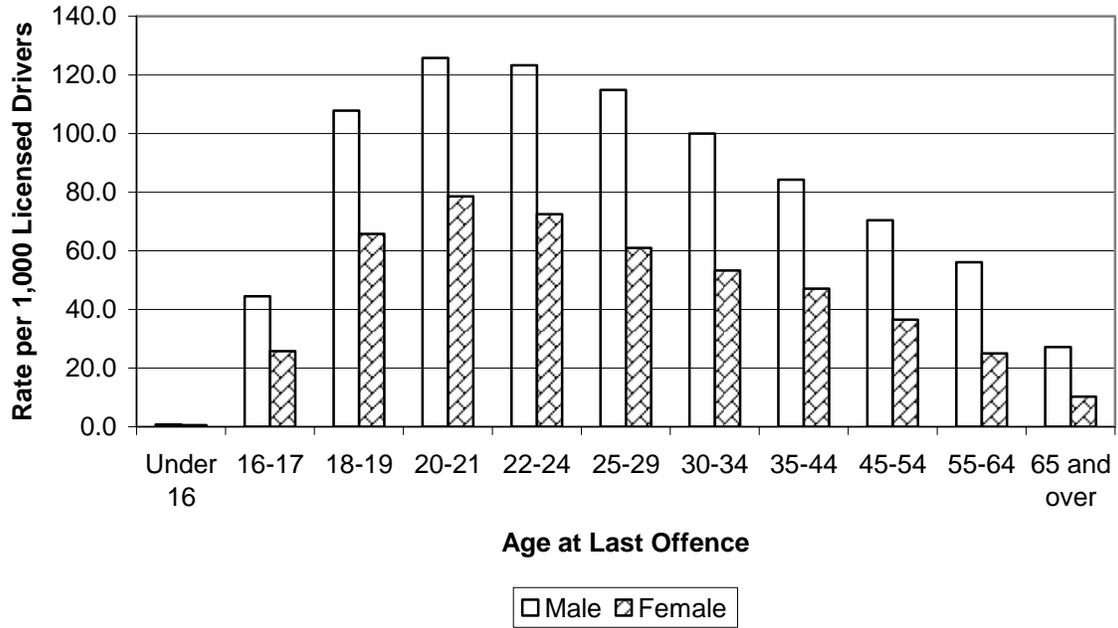


Table 3
ALBERTA
NUMBER OF SPEED CONVICTIONS PER DRIVER
2004 – 2008

Number of Speeding Convictions	N	%
1	490492	62.6
2	171079	21.8
3	68580	8.8
4	29379	3.8
5	12991	1.7
6 - 10	10627	1.4
11 - 15	214	0.0
16 - 19	6	0.0
Total Number of Drivers	783368	100.0

Observations

Of all drivers convicted of a speeding offence between January 2004 and December 2008, 15.5% of them have had three or more speeding convictions in the past five years.

Please note: The numbers in this report do not include speeding offences captured through automated speed enforcement (e.g. photo radars).

Table 4
ALBERTA
DRIVERS WITH THREE OR MORE SPEEDING CONVICTIONS
BY AGE AT LAST OFFENCE
2004 – 2008

Age at Last Offence	Male		Female		Total*		Rate Per 1,000** Licensed Drivers		Rate Per 1,000** Licensed Drivers	
	N	%	N	%	N	%				
16 - 17	222	0.2	57	0.0	279	0.2	1.4	0.4	1.0	
18 - 19	2669	2.2	690	0.6	3359	2.8	13.0	3.8	8.7	
20 - 21	6242	5.1	1887	1.5	8129	6.7	26.7	9.1	18.4	
22 - 24	12782	10.5	3508	2.9	16290	13.4	31.6	9.8	21.4	
25 - 29	20237	16.6	4622	3.8	24859	20.4	29.3	7.4	18.9	
30 - 34	14687	12.1	3174	2.6	17861	14.7	22.3	5.3	14.2	
35 - 44	19952	16.4	5155	4.2	25107	20.6	14.9	4.2	9.8	
45 - 54	13994	11.5	3373	2.8	17367	14.3	10.4	2.7	6.7	
55 - 64	5833	4.8	1163	1.0	6996	5.7	6.9	1.5	4.4	
65 and over	1364	1.1	186	0.1	1550	1.3	1.9	0.3	1.2	
Total Number of Drivers	97982	80.4	23815	19.5	121797	100.0				

Observations

Of the drivers with three or more speeding offences between January 1, 2004 and December 31, 2008, there were more than four times as many male drivers as female drivers. In terms of involvement per 1,000 drivers, drivers 22 – 24 years of age had the highest rate of speeding convictions among drivers with three or more convicted speeding offences.

*Total includes speeding drivers whose sex was not specified.

**Source: Service Alberta – Registries. Operator Statistics, January 1, 2004 – December 31, 2008.

Figure 3

**ALBERTA
DRIVERS WITH THREE OR MORE SPEEDING CONVICTIONS
BY SEX AND AGE AT LAST OFFENCE
2004 – 2008**

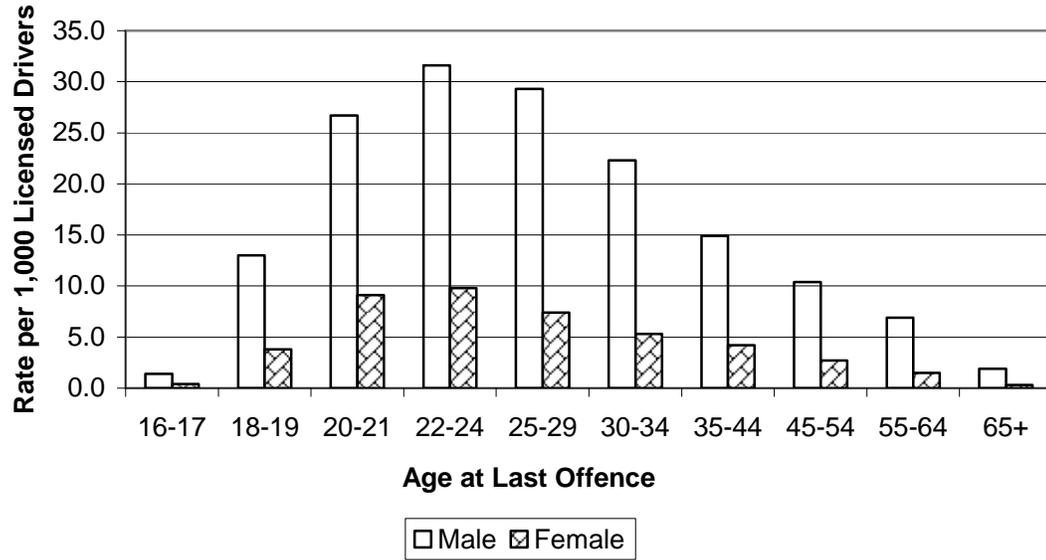


Table 5
ALBERTA
TYPES OF CONVICTED SPEEDING OFFENCES BY CALENDAR YEAR
2004 – 2008

Calendar Year of Offence	Speed Through Emergency and Construction Zone*		Speed Through Flashing Yellow Light Zone		Unreasonable Rate of Speed**		Other Speeding Offences		Total Convicted Speeding Offences
	N	%	N	%	N	%	N	%	N
2004	--	--	1204	0.5	1543	0.7	217028	98.8	219775
2005	457	0.2	797	0.4	1579	0.7	220006	98.7	222839
2006	5838	2.3	802	0.3	1978	0.8	244035	96.6	252653
2007	6371	2.3	1083	0.4	2212	0.8	269938	96.5	279604
2008	7202	2.2	1299	0.4	2368	0.7	309235	96.6	320104
Total Convicted Speeding Offences	19868	1.5	5185	0.4	9680	0.7	1260242	97.3	1294975

Observations

Over the five year period (January 2004 – December 2008) there were 1,294,975 convicted speeding offences laid by law enforcement officers.

*The Emergency and Construction Zone (when workers are present) legislation came into effect in October 2005.

**Unreasonable rate of speed is defined as driving a vehicle on a highway at any rate of speed that is unreasonable given the nature, condition and use of the highway, the weather, visibility, traffic volume or vehicle condition. Source: *Use of Highway and Rules of The Road Regulation*.

Table 6

**ALBERTA
SPEED RATE OF CONVICTED SPEEDING OFFENCES BY CALENDAR YEAR
2004 – 2008**

Calendar Year of Offence	1-15 Km/Hr Over Speed Limit		16-30 Km/Hr Over Speed Limit		31-50 Km/Hr Over Speed Limit		51+ Km/Hr Over Speed Limit		Total Convicted Speeding Offences*
	N	%	N	%	N	%	N	%	N
2004	52965	24.1	113522	51.7	23333	10.6	472	0.2	219775
2005	49519	22.2	119165	53.5	27214	12.2	569	0.3	222839
2006	60338	23.9	136892	54.2	33891	13.4	892	0.4	252653
2007	63704	22.8	155803	55.7	46729	16.7	1287	0.5	279604
2008	75720	23.7	190631	59.6	48490	15.1	1100	0.3	320104
Total Convicted Speeding Offences	302246	23.3	716013	55.3	179657	13.9	4320	0.3	1294975

Observations

Between 2004 and 2008, the total number of annual speed convictions has increased by about 46%. Over half (55.3%) of the total speeding convictions were for travelling 16 – 30 kph over the speed limit.

*Total convictions also include convictions where speed rate was not specified.

Figure 4

**ALBERTA
NUMBER OF CONVICTED SPEEDING OFFENCES BY CALENDAR YEAR
2004 – 2008**

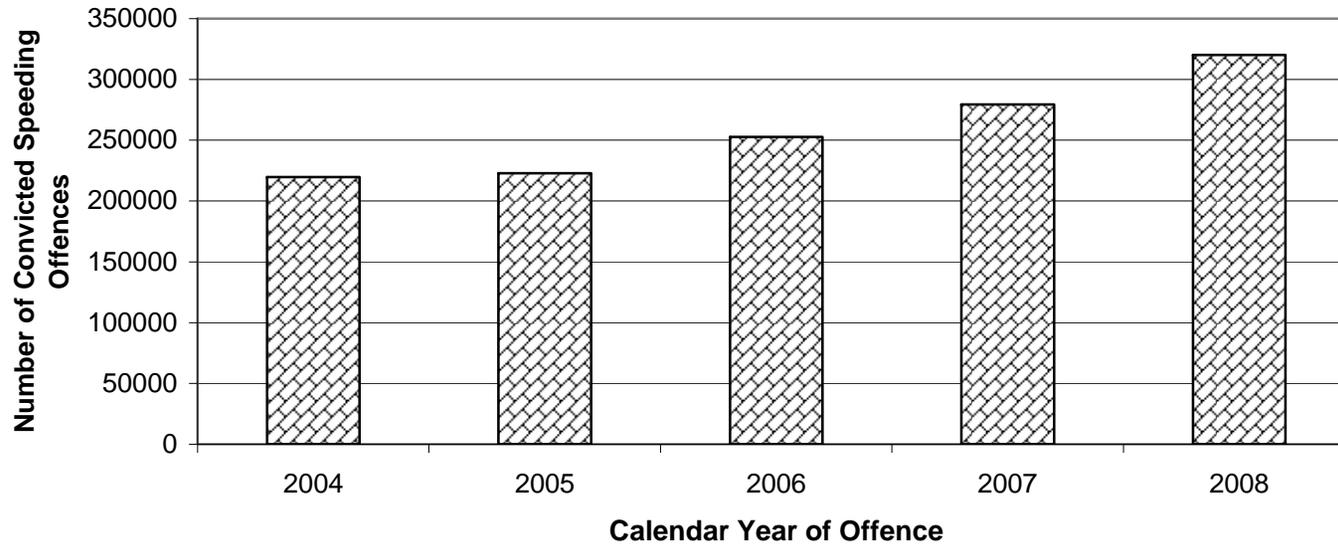


Table 7
ALBERTA
TYPE OF CONVICTED SPEEDING OFFENCES BY MONTH
2004 – 2008

Month of Offence	Speed Through Emergency and Construction Zone*		Speed Through Flashing Yellow Light Zone		Unreasonable Rate of Speed**		Other Speeding Offences		Total Convicted Speeding Offences	
	N	%	N	%	N	%	N	%	N	%
January	1500	7.5	301	5.8	1119	11.6	80127	6.4	83047	6.4
February	814	4.1	292	5.6	964	10.0	94756	7.5	96826	7.5
March	1302	6.6	482	9.3	822	8.5	112180	8.9	114786	8.9
April	1345	6.8	502	9.7	748	7.7	118092	9.4	120687	9.3
May	1572	7.9	506	9.8	691	7.1	116250	9.2	119019	9.2
June	2211	11.1	463	8.9	685	7.1	114313	9.1	117672	9.1
July	2564	12.9	200	3.9	685	7.1	120148	9.5	123597	9.5
August	2401	12.1	221	4.3	705	7.3	116938	9.3	120265	9.3
September	2033	10.2	982	18.9	704	7.3	116137	9.2	119856	9.3
October	1514	7.6	607	11.7	748	7.7	115508	9.2	118377	9.1
November	1470	7.4	403	7.8	793	8.2	90464	7.2	93130	7.2
December	1142	5.7	226	4.4	1016	10.5	65329	5.2	67713	5.2
Total Convicted Speeding Offences	19868	100.0	5185	100.0	9680	100.0	1260242	100.0	1294975	100.0

Observations

July (9.5%) had the largest proportion of convicted speeding offences over the five-year period. July (12.9%) had the largest proportion of convicted speeding offences for speeding through emergency and construction zones. September (18.9%) had the largest proportion of convicted speeding offences for speeding through flashing yellow light zones. January (11.6%) had the largest proportion of unreasonable rate of speeding offences.

*The Emergency and Construction Zone (when workers are present) legislation came into effect in October 2005.

**Unreasonable rate of speed is defined as driving a vehicle on a highway at any rate of speed that is unreasonable given the nature, condition and use of the highway, the weather, visibility, traffic volume or vehicle condition. Source: *Use of Highway and Rules of the Road Regulation*.

Table 8
ALBERTA
SPEED RATE OF CONVICTED SPEEDING OFFENCES BY MONTH
2004 – 2008

Month of Offence	1-15 Km/Hr Over Speed Limit		16-30 Km/Hr Over Speed Limit		31-50 Km/Hr Over Speed Limit		51+ Km/Hr Over Speed Limit		Total Convicted Speeding Offences*	
	N	%	N	%	N	%	N	%	N	%
January	19510	6.5	46030	6.4	10666	5.9	181	4.2	83047	6.4
February	23393	7.7	53520	7.5	11793	6.6	174	4.0	96826	7.5
March	27234	9.0	63434	8.9	14316	8.0	274	6.3	114786	8.9
April	29140	9.6	66500	9.3	14905	8.3	378	8.8	120687	9.3
May	28134	9.3	64469	9.0	16081	9.0	473	10.9	119019	9.2
June	27576	9.1	65100	9.1	16242	9.0	454	10.5	117672	9.1
July	28727	9.5	67301	9.4	18772	10.4	516	11.9	123597	9.5
August	27072	9.0	66762	9.3	18353	10.2	477	11.0	120265	9.3
September	27854	9.2	65662	9.2	17832	9.9	480	11.1	119856	9.3
October	26272	8.7	66446	9.3	17958	10.0	452	10.5	118377	9.1
November	21287	7.0	52865	7.4	13153	7.3	274	6.3	93130	7.2
December	16047	5.3	37924	5.3	9586	5.3	187	4.3	67713	5.2
Total Convicted Speeding Offences	302246	100.0	716013	100.0	179657	100.0	4320	100.0	1294975	100.0

Observations

April (9.6%) had the largest proportion of convicted speeding offences where the driver was speeding 1 - 15 kph over the speed limit. July had the largest proportion of convicted speeding offences where drivers were speeding at 16 – 30 kph, 31 – 50 kph and 51 kph or more over the speed limit (9.4%, 10.4%, and 11.9% respectively).

*Total convictions also include convictions where speed level was not specified.

Figure 5

**ALBERTA
NUMBER OF CONVICTED SPEEDING OFFENCES BY MONTH
2004 – 2008**

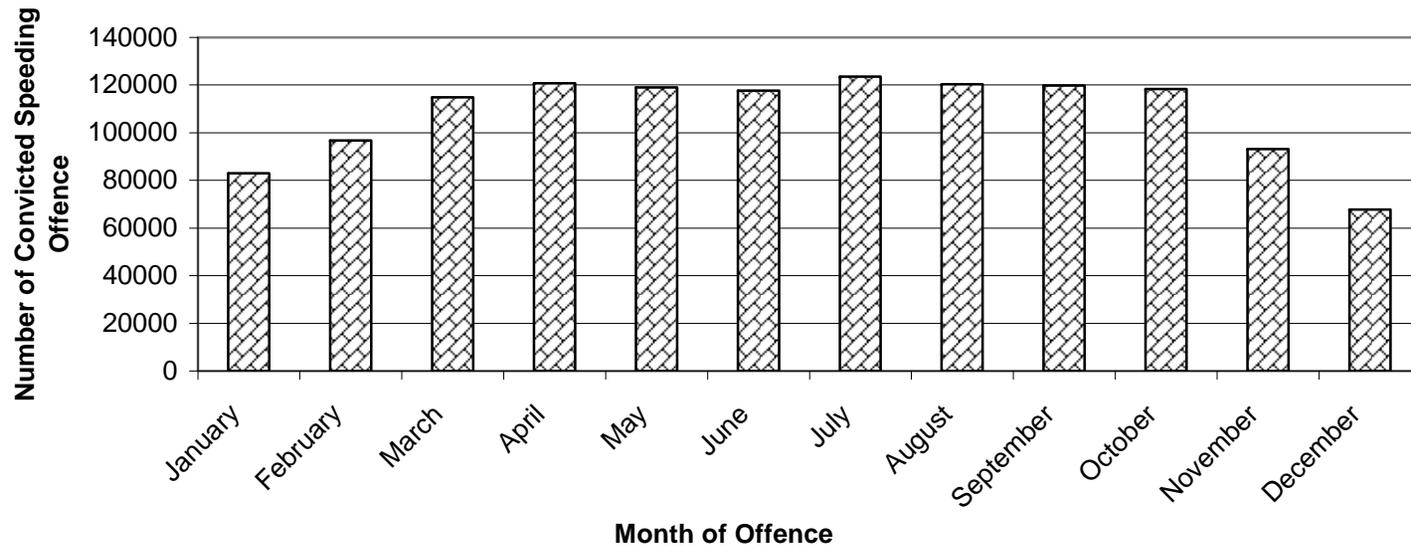


Table 9
ALBERTA
TYPE OF CONVICTED SPEEDING OFFENCES BY DAY OF WEEK
2004 – 2008

Day of Week of Offence	Speed Through Emergency and Construction Zone*		Speed Through Flashing Yellow Light Zone		Unreasonable Rate of Speed**		Other Speeding Offences		Total Convicted Speeding Offences	
	N	%	N	%	N	%	N	%	N	%
Monday	2907	14.6	712	13.7	1156	11.9	175911	14.0	180686	14.0
Tuesday	3471	17.5	1044	20.1	1206	12.5	173866	13.8	179587	13.9
Wednesday	3378	17.0	1172	22.6	1266	13.1	186006	14.8	191822	14.8
Thursday	3258	16.4	1117	21.5	1348	13.9	191842	15.2	197565	15.3
Friday	2451	12.3	876	16.9	1599	16.5	201151	16.0	206077	15.9
Saturday	2373	11.9	158	3.0	1695	17.5	168883	13.4	173109	13.4
Sunday	2030	10.2	106	2.0	1410	14.6	162583	12.9	166129	12.8
Total Convicted Speeding Offences	19868	100.0	5185	100.0	9680	100.0	1260242	100.0	1294975	100.0

Observations

Overall, Friday had the highest number of convicted speeding offences (15.9%). Unreasonable rate of speed and other speeding offences occurred most often on Saturday (17.5%) and Friday (16.0%) respectively. Tuesday (17.5%) had the highest number of convicted speeding offences in emergency and construction zones. Wednesday (22.6%) had the highest number of convicted speeding offences in the flashing yellow light zones.

*The Emergency and Construction Zone (when workers are present) legislation came into effect in October 2005.

**Unreasonable rate of speed is defined as driving a vehicle on a highway at any rate of speed that is unreasonable given the nature, condition and use of the highway, the weather, visibility, traffic volume or vehicle condition. Source: *Use of Highway and Rules of the Road Regulation*.

Table 10
ALBERTA
SPEED RATE OF CONVICTED SPEEDING OFFENCE BY DAY OF WEEK
2004 – 2008

Day of Week of Offence	1-15 Km/Hr Over Speed Limit		16-30 Km/Hr Over Speed Limit		31-50 Km/Hr Over Speed Limit		51+ Km/Hr Over Speed Limit		Total Convicted Speeding Offences*	
	N	%	N	%	N	%	N	%	N	%
Monday	38709	12.8	103314	14.4	25232	14.0	641	14.8	180686	14.0
Tuesday	41391	13.7	102487	14.3	22692	12.6	497	11.5	179587	13.9
Wednesday	46088	15.2	107492	15.0	24374	13.6	587	13.6	191822	14.8
Thursday	48291	16.0	109094	15.2	25870	14.4	611	14.1	197565	15.3
Friday	50272	16.6	110261	15.4	29438	16.4	705	16.3	206077	15.9
Saturday	40307	13.3	92783	13.0	26237	14.6	699	16.2	173109	13.4
Sunday	37188	12.3	90582	12.7	25814	14.4	580	13.4	166129	12.8
Total Convicted Speeding Offences	302246	100.0	716013	100.0	179657	100.0	4320	100.0	1294975	100.0

Observations

Friday had the largest proportion of speeding offences where the speed levels were 1 - 15 kph, 16 – 30 kph, 31 – 50 kph and 51 kph or more over speed limit (16.6%, 15.4%, 16.4% and 16.3% respectively).

*Total convictions also include convictions where speed level was not specified.

Figure 6

**ALBERTA
NUMBER OF CONVICTED SPEEDING OFFENCES BY DAY OF WEEK
2004 – 2008**

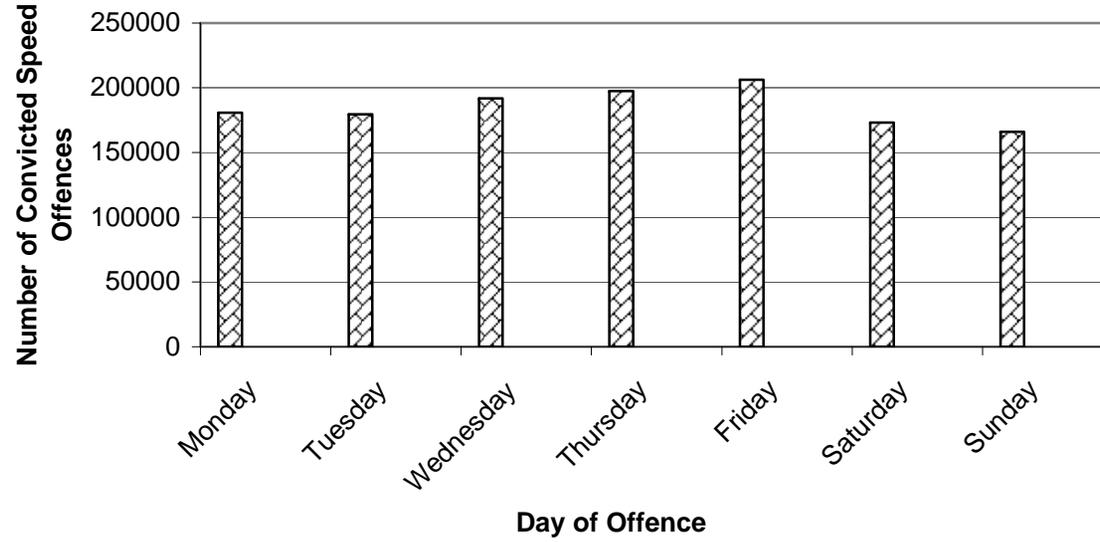


Table 11
ALBERTA
TYPE OF CONVICTED SPEEDING OFFENCE BY TIME OF DAY
2004 – 2008

Time Period of Offence	Speed Through Emergency and Construction Zone*		Speed Through Flashing Yellow Light Zone		Unreasonable Rate of Speed**		Other Speeding Offences		Total Convicted Speeding Offences	
	N	%	N	%	N	%	N	%	N	%
11:00 p.m. - 2:59 a.m.	1178	5.9	161	3.1	2079	21.5	177463	14.1	180881	14.0
3:00 a.m. - 6:59 a.m.	233	1.2	33	0.6	631	6.5	24595	2.0	25492	2.0
7:00 a.m. - 10:59 a.m.	5023	25.3	1054	20.3	1289	13.3	236485	18.8	243851	18.8
11:00 a.m. - 2:59 p.m.	7899	39.8	2555	49.3	1797	18.6	350001	27.8	362252	28.0
3:00 p.m. - 6:59 p.m.	3623	18.2	1273	24.6	1958	20.2	275848	21.9	282702	21.8
7:00 p.m. - 10:59 p.m.	1912	9.6	109	2.1	1926	19.9	195850	15.5	199797	15.4
Total Convicted Speeding Offences	19868	100.0	5185	100.0	9680	100.0	1260242	100.0	1294975	100.0

Observations

The late morning to early afternoon hours (11:00 a.m. - 2:59 p.m.) had the most convicted speeding offences for speeding through emergency and construction zones (39.8%), speeding through flashing yellow light zones (49.3%) and other speeding offences (27.8%). The late evening to early morning hours (11 p.m. – 2:59 a.m.) had the highest number of convicted speeding offences for unreasonable rate of speed (21.5%).

*The Emergency and Construction Zone (when workers are present) legislation came into effect in October 2005.

**Unreasonable rate of speed is defined as driving a vehicle on a highway at any rate of speed that is unreasonable given the nature, condition and use of the highway, the weather, visibility, traffic volume or vehicle condition. Source: *Use of Highway and Rules of the Road Regulation*.

Table 12
ALBERTA
SPEED RATE OF CONVICTED SPEEDING OFFENCE BY TIME OF DAY
2004 – 2008

Time Period of Offence	1-15 Km/Hr Over Speed Limit		16-30 Km/Hr Over Speed Limit		31-50 Km/Hr Over Speed Limit		51+ Km/Hr Over Speed Limit		Total Convicted Speeding Offences*	
	N	%	N	%	N	%	N	%	N	%
11:00 p.m. - 2:59 a.m.	38265	12.7	45012	6.3	16107	9.0	668	15.5	180881	14.0
3:00 a.m. - 6:59 a.m.	6285	2.1	13674	1.9	5357	3.0	148	3.4	25492	2.0
7:00 a.m. - 10:59 a.m.	55885	18.5	153260	21.4	31352	17.5	570	13.2	243851	18.8
11:00 a.m. - 2:59 p.m.	87820	29.1	220275	30.8	47515	26.4	903	20.9	362252	28.0
3:00 p.m. - 6:59 p.m.	67070	22.2	167162	23.3	44573	24.8	993	23.0	282702	21.8
7:00 p.m. - 10:59 p.m.	46921	15.5	116630	16.3	34753	19.3	1038	24.0	199797	15.4
Total Convicted Speeding Offences	302246	100.0	716013	100.0	179657	100.0	4320	100.0	1294975	100.0

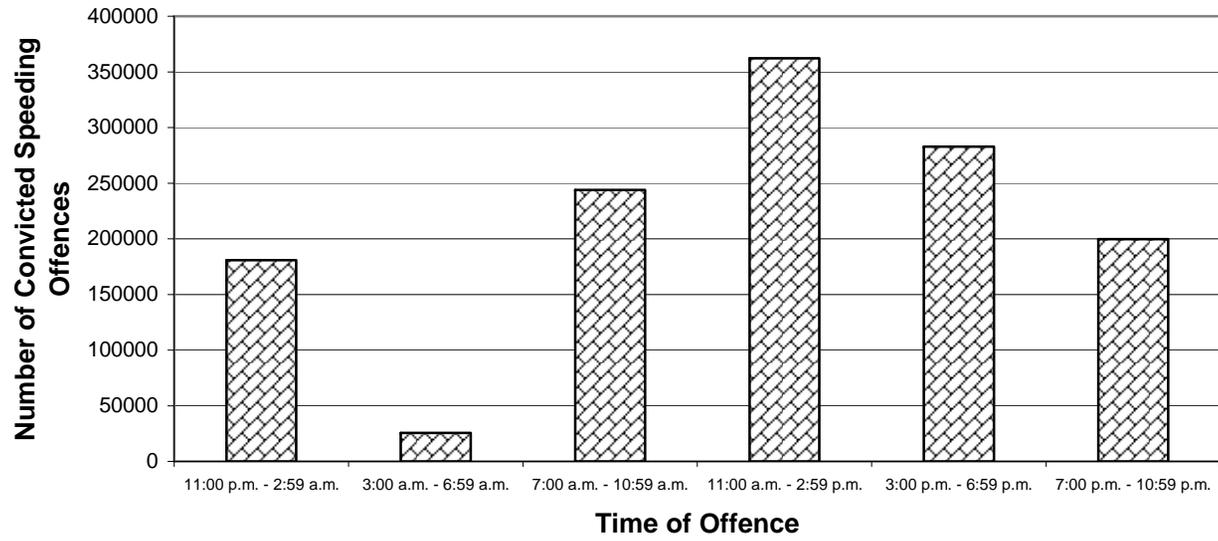
Observations

The late morning to early afternoon hours (11:00 a.m. – 2:59 p.m.) had the highest number of convicted speeding offences where the driver was speeding 1 - 15 kph, 16 – 30 kph and 31 – 50 kph over speed limit (29.1%, 30.8%, and 26.4% respectively). The early evening to late evening hours (7:00 p.m. - 10:59 p.m.) had the highest number of convicted speeding offences where the driver was speeding by over 50 kph (24.0%).

*Total convictions also include convictions where speed level was not specified.

Figure 7

**ALBERTA
NUMBER OF CONVICTED SPEEDING OFFENCES BY OCCURRENCE TIME OF DAY
2004 – 2008**



Part II

**ALBERTA
TRAFFIC COLLISIONS INVOLVING
UNSAFE SPEED
2004 - 2008**

Definitions

The Alberta collision report form asks attending police to indicate if unsafe speed was a factor in a collision. Unsafe speed applies when the speed was too great under the given conditions (e.g. road, weather and light conditions, traffic density, etc.). Whether or not the driver exceeded a legal speed limit is irrelevant.

Note, this report considers those cases where unsafe speed was specified on the collision report form.

Summary

- Of drivers involved in non-fatal injury collisions, 12.6% were travelling at an unsafe speed. This is compared to 29.7% of drivers involved in fatal collisions. Overall, 12.9% of drivers involved in casualty collisions were judged by enforcement officer to have been travelling at speeds too great given the conditions (Table 13).
- More than half of the speed involved fatal collisions occurred in rural areas. Over two thirds of speed involved non-fatal injury collisions occurred in urban areas (Table 14).
- Compared to all drivers in casualty collisions, drivers who travelled at an unsafe speed were almost twice as likely to run off the road (Table 15).
- Over half of the speeding drivers in fatal collisions and more than one in five in non-fatal injury collisions had consumed alcohol before the crash (Table 16).
- People injured in collisions involving unsafe speed sustained a higher proportion of fatal and major injuries compared to casualties in all collisions (Table 17).

For further information on unsafe speed collisions, see the full report *Traffic Collisions Involving Unsafe Speed, 2004 – 2008*, Office of Traffic Safety: Alberta Transportation.

Transport Canada's report, *A Quick Look at Speeding Crashes in Canada*, is available on their web site at: <http://www.tc.gc.ca/roadsafety/tp/tp2436/rs200807/menu.htm>.

Table 13
ALBERTA
DRIVERS' SPEED IN CASUALTY COLLISIONS
2004 - 2008

Unsafe Speed	Drivers in Fatal Collisions		Drivers in Non-Fatal Injury Collisions		Total Drivers in Casualty Collisions	
	N	%	N	%	N	%
Drivers Travelling at an Unsafe Speed	506	29.7	11480	12.6	11986	12.9
Drivers Not Travelling at an Unsafe Speed	1198	70.3	79867	87.4	81065	87.1
Total Number of Drivers	1704	100.0	91347	100.0	93051	100.0

Observations

Of drivers involved in non-fatal injury collisions, 12.6% were travelling at an unsafe speed. This compares to 29.7% of drivers involved in fatal collisions. Overall, 12.9% of drivers involved in casualty collisions were judged to have been travelling at speeds too great given the condition.

Table 14
ALBERTA
LOCATION OF SPEED-INVOLVED CASUALTY COLLISIONS
2004 - 2008

Location	Fatal Collisions		Non-Fatal Injury Collisions		Total Casualty Collisions	
	N	%	N	%	N	%
Urban	204	41.3	7566	69.2	7770	68.0
Rural	290	58.7	3363	30.8	3653	32.0
Total Number of Collisions	494	100.0	10929	100.0	11423	100.0

Observations

Fatal collisions occurring in rural areas had 58.7% of speed-involved fatal crashes. Injury collisions occurring in urban areas resulted in the highest proportion of speed-involved non-fatal injury collisions (69.2%).

Table 15

**ALBERTA
IMPROPER ACTIONS OF DRIVERS TRAVELLING AT AN UNSAFE SPEED*
CASUALTY COLLISIONS
2004 - 2008**

Improper Actions of Drivers Travelling at an Unsafe Speed	N	%	Driver Actions in Total Casualty Collisions**
			%
Ran Off Road	2942	31.8	15.4
Followed Too Closely	1970	21.3	27.9
Stop Sign Violation	617	6.7	8.1
Disobey Traffic Signal	570	6.2	7.0
Left of Centre	387	4.2	3.0
Left Turn Across Path	247	2.7	12.4
Improper Passing	209	2.3	1.2
Improper Lane Change	155	1.7	2.7
Failed to Yield Right of Way to Pedestrian	155	1.7	3.5
Improper Turn	138	1.5	2.6
Yield Sign Violation	135	1.5	2.0
Backed Unsafely	98	1.1	2.4
Failed to Yield Right of Way - Uncontrolled Intersection	82	0.9	1.7
Other	1557	16.8	10.0
Total Number of Drivers	9262	100.0	

*Based on those cases where driver action was specified on the collision report form.

**Source: Alberta Traffic Collision Statistics 2004- 2008

Observations

Compared to all drivers in casualty collisions, drivers who travelled at an unsafe speed were over twice as likely to run off the road.

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Table 16

**ALBERTA
CONDITION OF DRIVERS TRAVELLING AT AN UNSAFE SPEED*
CASUALTY COLLISIONS
2004 - 2008**

Condition of Driver	Drivers in Fatal Collisions		Drivers in Non-Fatal Injury Collisions		Total Drivers in Casualty Collisions	
	N	%	N	%	N	%
Normal	196	45.4	7427	75.6	7623	74.3
Had Been Drinking	90	20.8	872	8.9	962	9.4
Alcohol Impaired	131	30.3	1186	12.1	1317	12.8
Total Alcohol Involvement	221	51.2	2058	21.0	2279	22.2
Impaired by Drugs	9	2.1	112	1.1	121	1.2
Fatigued/Asleep	2	0.5	120	1.2	122	1.2
Other	4	0.9	104	1.1	108	1.1
Total Number of Drivers	432	100.0	9821	100.0	10253	100.0

Observations

Of drivers deemed to be travelling at an unsafe speed and involved in non-fatal injury collisions, 21.0% had consumed alcohol before the crash, compared to 51.2% in fatal collisions. Overall, 22.2% of speeding drivers involved in casualty collisions were judged to have consumed alcohol before the crash.

*Based on those cases where driver condition was specified on the collision report form.

Table 17
ALBERTA
INJURY SEVERITY IN SPEED INVOLVED CASUALTY COLLISIONS*
2004 - 2008

Injury Severity	Total Casualties		Injury Severity in Total Casualty Collisions**
	N	%	%
Fatal	558	3.2	1.7
Major	3571	20.8	13.3
Minor	13062	76.0	85.0
Total Casualties	17191	100.0	100.0

Observations

People injured in collisions involving unsafe speed sustained a higher proportion of fatal and major injuries compared to casualties in all collisions.

*Includes only those cases where injury severity was specified on the collision report form. This refers to the total number of people killed and injured in collisions involving at least one vehicle that was travelling at an unsafe speed.

**Source: Alberta Traffic Collision Statistics 2004 - 2008

**APPENDIX A
DESCRIPTION OF SPEEDING OFFENCES**

Type of Speeding Offence	Demerit	Fine Amount*
Exceeding the speed limit by up to 15 kph	2 points	\$57 - \$89
Exceeding the speed limit by more than 15 kph but not more than 30 kph	3 points	\$103 - \$177
Exceeding the speed limit by more than 30 kph but not more than 50 kph	4 points	\$187 - \$351
Exceeding the speed limit by more than 50 kph	6 points	Mandatory court appearance
Speed past emergency vehicles	Based on number of kms over speed limit	Double the fine based on the number of Kms over speed limit
Speed through construction zones Speed through construction zones when workers are present	Based on number of kms over speed limit	Double the fine when workers are present
Speeding at an unreasonable rate	4 points	\$172
Speed through flashing yellow light zones	Based on number of kms over speed limit	Based on number of kms over speed limit

* The fine amount includes a 15% Victims of Crime Fund surcharge (rounded down to the nearest dollar).

Speeding Through Emergency and Construction Zones

- Motorists must slow to 60 kph, or less if the posted speed is lower, when passing emergency vehicles or tow trucks stopped with their lights flashing. Fines for speeding in these areas will be doubled.
- In construction zones, motorists must observe the posted speed. When workers are present, fines for speeding in these areas will be doubled.

Speeding at an Unreasonable Rate

- Driving a vehicle on a highway at any rate of speed that is unreasonable given the nature, condition and use of highway, weather, visibility, traffic volume or vehicle condition.

Speed Through Flashing Yellow Light Zones

- Motorists must slow to at least 30 kph at an intersection or other place where rapid intermittent flashes of yellow light are shown together with a sign reading or symbol indicating “school zone” “playground zone” “school crossing” “pedestrian crossing” “pedestrian zone” or other wording or symbol indicating a pedestrian hazard.

Sources: *Alberta Traffic Safety Act, Use of Highway and Rules of the Road Regulation, Provincial Offences Procedure Act – Procedures Regulation, and Demerit Point Program and Service of Documents Regulation*

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**SPEEDING OFFENCES BY STATUTES IN THE LEGISLATION
AS OF MAY 10 2009**

Exceeding the speed limit by up to 15 kph	HTA71(1)/V3, TSA115(2)(P), TSA115(2)R), TSA115(2)(R)/V1,TSA115(2)(T), OOP-SPEEDING
Exceeding the speed limit by more than 15 kph but not more than 30 kph	
Exceeding the speed limit by more than 30 kph but not more than 50 kph	
Exceeding the speed limit by more than 50 kph	
Speed past emergency vehicles	TSA115(2)(T)
Speed through construction zones	TSA115(2)(P.1)
Speed through construction zones when workers are present	TSA115(2)(P.2)
Speeding at an unreasonable rate	ROR2(1)(A), OOP-UNREAS SPD
Speed through flashing yellow light zones	ROR53(5)(C)

Sources: *Alberta Traffic Safety Act, Use of Highway and Rules of the Road Regulation, Provincial Offences Procedure Act – Procedures Regulation, and Demerit Point Program and Service of Documents Regulation*

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