



Facts On MOTOR VEHICLE VEHICLE CRASHES In MINNESOTA During 1971

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P/T62.8

**MINNESOTA DEPARTMENT OF** 

Highway Building, St. Paul, 55155

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Facts on MOTOR VEHICLE CRASHES in Minnesota during 1971

Planning Section Minnesota Department of Public Safety 210 Highway Building St. Paul, Mn. 55155

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## Introduction

This report has been prepared by the Minnesota Department of Public Safety in accordance with Minnesota Statutes, Chapter 169.10, for the year 1971. The information is derived principally from the reports submitted by drivers and police agencies on crashes involving death, personal injury or property damage of \$100 or more.

Selected highway crash data are presented to determine trends, to point out problem areas and to establish the dominant characteristics of motor vehicle crashes in Minnesota so that appropriate countermeasures can be implemented.

In 1971, 1,024 people were killed and 39,242 injured in 104,030 crashes throughout the state. Over 2.3 million vehicles traveled 23.4 billion miles on 127,744 miles of roadway. Approximately 2.1 million Minnesota citizens had licenses to drive last year.

In addition to death and injury, the economic aspect involved in traffic crashes in our state for 1971 is conservatively estimated at \$114,633,290, based on the following factors recommended by the National Safety Council:

Cost of a death:	\$41,500 X 1,024 fatalities		\$42,496,000
Cost of an "A" injury:*	1,730 X 15,223 "A" injuries		26,335,790
Cost of a "B" injury:	1,230 X 9,561 "B" injuries	=	11,760,030
Cost of a "C" injury:	575 X 14,458 "C" injuries	=	8,313,350
Cost of a property	330 X 77,964 PD crashes	=	25 <b>,</b> 728 <b>,</b> 120
damage crash:			

TOTAL COST \$114,633,290

\*Injury type A - Visible signs of injury, bleeding wound, distorted member
B - Other visible injury, such as bruises, abrasions, swelling
C - No visible injury, but complaint of pain or momentary unconsciousness

This report is divided into three parts, the first examining the vehicles, drivers and crashes, the others reviewing pedestrians and bicyclists, and alcohol involvement. The main body is devoted to tables, in many cases comparing 1971 figures with those of previous years. Highlights of these tables are summarized when the trends or relationships appear to be of significant value.

## Part 1. Crashes, Drivers and Vehicles

- Although the 1,024 fatalities in 1971 comprised the second highest total in the state's history, the fatality rate per 100 million vehicle miles traveled decreased to 4.37 (Table 5).
- Minneapolis and St. Paul had decreases of 33 percent and 4 percent, respectively, in the number of fatal crashes in 1971, while Duluth had a 55 percent increase in fatal crashes (Table 8).
- Trunk highways composed 8.8 percent of the total highway mileage, but 50.3 percent of all crashes occurred on them (Table 8).
- Trucks comprised over 16 percent of all registered vehicles, but were less than 9 percent of the vehicles involved in crashes (Table 2).
- The number of school bus crashes increased slightly from 395 in 1970 to 397 in 1971 (Table 2).
- Snowmobile crashes showed a 29 percent increase while the number of snowmobiles registered increased 29 percent (Table 2).
- Motorcycle crashes increased to 1,682 from 1,291 while registrations grew from 71,914 to 90,150 (Table 2).
  - Railroad trains were involved in fewer crashes than in each of the previous five years; however, the 299 crashes in 1971 resulted in 41 fatalities, giving motor vehicle-railroad train crashes the highest fatality rate of any type crash (Table 1).

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#### FATALITIES AND INJURIES BY TYPE OF MOTOR VEHICLE CRASH

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	<u>A11</u>	Fatal	Personal Injury	Property Damage	Killed	l Injured	Injı <u>A</u>	ury Type <u>B</u>	s O	Fatality Rate Per 1,000 Crashes
Single-vehicle crash:										
Ran off the road	10,990	204	3,992	6,794	237	5,717	3,074	L,650	993	21.7
Overturned on the road	454	5	243	206	5	338	163	104	71	11.0
Vehicle collided with:										
Pedestrian	1,960	146	1,775	39	149	1,897	994	457	1,4,6	76.1
Motor vehicle in traffic	73,170	390	15,852	54,9%8	517	27,131	8,838	oj 197	12, 146	1.L
Parked motor vehicle	10,478	12	1,126	9,340	13	1,382	695	373	314	1.2
Railroad train	299	30	104	165	41	156	101	29	26	137,0
Bicyclist	830	16	814	0	19	871	397	334	140	22,9
Animal	1,354	Ĺ	139	1,214		193	66	53	<	t and a star
Fixed object	3,894	31	1,002	2,861	32	1,299	742	314	243	8,2
Other object	295	2	67	226	4	97	48	28	21	13.5
Other non-collision	224	6	110	108	6	1.30	85	27	18	26.7
TOTALS	104,030	843	25,223	77,964	1,024	39,242	15,223	9,561	14,458	9.8

\*All crashes are coded according to the first event; e.g., if a car hits a pedestrian and then a parked car, the crash is coded as a collision with a pedestrian

The overall fatality rate per 1,000 crashes was down slightly in 1971 - 9.8 from 9,9 the previous year.

The fatality rate per 1,000 crashes with railroad trains was down from 151 to 137 in 1971, but it is still by far the highest fatality rate of any type of crash.

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TYPE OF MOTOR VEHICLE	ALL ACCIDENTS	FATAL ACCIDENTS	PERSONAL INJURY ACCIDENTS
Passenger car	167,420	982	38,170
Passenger car and trailer	345	6	81
Truck, truck-trailer	14,078	146	3,351
Truck-tractor, semi-trailer	2,186	54	522
Other truck combination	412	8	91
Farm tractor, farm equipment	233	15	73
Taxicab	541	0	132
Bus	490	2	127
School bus	397	2	95
Motorcycle	1,682	46	1,321
Motorbike, motor scooter	41	2	30
Emergency vehicle	75	2	24
Military vehicle	12	0	3
Other public vehicle	724	8	162
Hit-and-run vehicle	5,567	9	513
Other, not stated	6,944	30	839
TOTAL VEHICLES	194,769	1,293	44,832

TYPES AND NUMBERS OF MOTOR VEHICLES INVOLVED IN CRASHES

Passenger cars comprised 66 percent of all registered vehicles, trucks 16.2 percent, buses .24 percent and motorcycles 3.3 percent. Passenger cars totaled 86 percent of all vehicles involved in crashes, trucks 8.7 percent, buses .45 percent, and motorcycles .86 percent.

There were 15 units of farm equipment involved in fatal crashes in 1971, more than double the 7 in 1970.

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Only two categories had fewer vehicles involved in crashes in 1971 than in the previous year -- military vehicles and other public vehicles.

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1965	1966	1967	1968	1969
1,506,210	1,552,540	1,578,791	1,643,025	1,694,936

TYPE OF VEHICLE	1965	1966	1967	1968	1969	1970	<u>1971</u>
Passenger cars	1,506,210	1,552,540	1,578,791	1,643,025	1,694,936	1,732,607	1,782,734
Trucks							
Gross weight	213,933	228,964	246,135	265,678	288,778	310,150	334,414
Farm	101,274	103,055	104,124	105,074	105,242	105,212	105,202
Urban	3,384	3,693	3,925	4,037	4,250	4,402	·4 <b>,</b> 731
SUB-TOTAL, TRUCKS	318,591	335,712	354,184	374,789	398,270	419,764	444,347
Buses	5,727	6,078	5,981	6,284	6,456	6,539	6,393
Motorcycles	39,395	49,775	55,892	60,886	61,199	71,914	90,150
Recreational*	191	525	1,286			4,834	6,592
MOTOR VEHICLE SUB-TOTAL	1,870,114	1,944,630	1,996,134	2,084,984	2,160,867	2,235,658	2,330,216
Mobile homes	18,955	20,892	23,904	25,997	28,728	34,440	38,670
Trailers**	67,787	246,978	79,073	290,125	333,085	336,686	378,939
SUB-TOTAL, trailers	86,742	267,870	102,977	316,122	361,813	371,126	417,609
GRAND TOTAL	1,956,856	2,212,500	2,099,111	2,401,106	2,522,674	2,606,784	2,747,825

\*Motor-powered vehicles used for human habitation during recreational activities \*\*Beginning in 1966, figure includes two-wheel trailers registered biennially

TABLE 3

MOTOR VEHICLE REGISTRATION

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TABLE	4
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MOTOR VEHICLE INSPECTION

TYPE OF VEHICLE		NUMBER IN	SPECTED			NUMBER DI	EFECTI VE		<b>Salation (1</b>	PERCENT I	DEFECTIVE	
	<u>1968</u>	1969	1970	<u>1971</u>	<u>1968</u>	<u>1969</u>	<u>1970</u>	<u>1971</u>	1968	1969	1970	<u>1971</u>
Cars	63,392	67,354	66,070	84,945	40,024	37,444	36,314	42,019	63.1	55.6	55.0	49.5
Trucks	3,067	8,025	19,570	21,224	2,182	4,725	10,599	10,030	71.1	58.9	54.1	47.3
School buses <sup>1</sup>	-	4,939	4,835	5,035		2,869	2,223	2,468	-	58.1	46.0	49.0
Motorcycles <sup>2</sup>	-	145	-	172	-	112	-	29	-	77.2	-	16.8
TOTALS	66,459	80,463	90,475	111,376 <sup>3</sup>	42,206	45,150	49,136	52 <b>,7</b> 46	63.3	56.1	54.3	40.7

<sup>1</sup>School buses were not inspected in 1968

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 $^{\rm 2}$  Motorcycles were not inspected in 1968 or 1970

 $^3$  119,896 vehicles were inspected, but data for 8,520 vehicles were not available for processing by computer methods

ΤА	B	L	E	5

	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
Total crashes	77,646	73,5 <del>6</del> 7	74,289	83,329	84,754	93,819	92,910	105,235	99,404	104,030
Fatal crashes	579	653	717	736	819	810	851	836	816	843
Injury crashes	22 <b>,</b> 505	24,864	28,222	30,179	31,288	29,307	27,804	22,630	24,938	25,223
Property damage crashes	54 <b>,</b> 562	48,050 <sup>2</sup>	45,350	52,414	52,647	63,702	64,255	81,769	73,650	77,964
Fatalities	692	798	841	875	977	965	1,060	988	987	1,024
Personal injuries	36,935	41,127	47,246	50,847	52,996	47,919	43,974	35,760	38,538	39,242
Population <sup>3</sup>	3,493,000	3,507,000	3,529,000	3,565,000	3,585,000	3,625,000	3,647,000	3,743,291	3,804,971	3,881,000
Licensed drivers	1,810,000	1,825,000	1,835,000	1,850,000	1,900,000	1,950,000	2,000,000	2,025,000	2,050,000	2,125,000
Registered vehicles (excly- ding trailers)	1,654,397	1,724,970	1,780,388	1,863,557	1,942,061	2,011,159	2,085,904	2,153,840	2,235,658	2,329,216
Vehicle miles traveled (millions) <sup>6</sup>	15,029	15,471	16,283	16,874	17,688	18,661	19,899	20,793	22,380	23,404
Fatality rate per 100,000 population	19.8	22.8	23.8	24.5	27.3	26.6	29.1	26.4	25.9	26.4

(Continued)

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TABLE 5
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	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
Fatality rate per 100,000 vehicle registrations	41.8	47.4	47.2	46.8	50.2	48.3	50.8	45.7	44.1	43.9
Fatality rate per 100 million vehicle miles	4.60	5.16	5.16	5.19	5.52	5.17	5.33	4.75	4.41	4.37
Crash rate per 100,000 population	2,223	2,098	2,105	2,337	2,364	2,588	2,548	2,812	2,612	2,680
Crash rate per 100,000 regis- tered vehicles	4,694	4,265	4,174	4,470	4,364	4,665	4,454	4 <b>,8</b> 86	4,446	4,467
Crash rate per 100 million vehicle miles	517	476	456	494	479	503	467	506	444	445

CRASH DATA SUMMARY (Continued)

<sup>1</sup>Information taken from annual National Safety Council reports

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Reportable property damage crash requirement changed from \$50 to \$100 in April 1963

 $_4$ Information obtained from the Minnesota Department of Health vital statistics section

Information obtained from driver license section of Department of Public Safety motor vehicle services division

Information taken from annual "Motor Vehicle Registration by Counties," Department of Public Safety motor vehicle 6 Information obtained from the Minnesota Highway Department Office of Program Planning

CRASHES, FATALITIES, AND INJURIES BY COUNTY

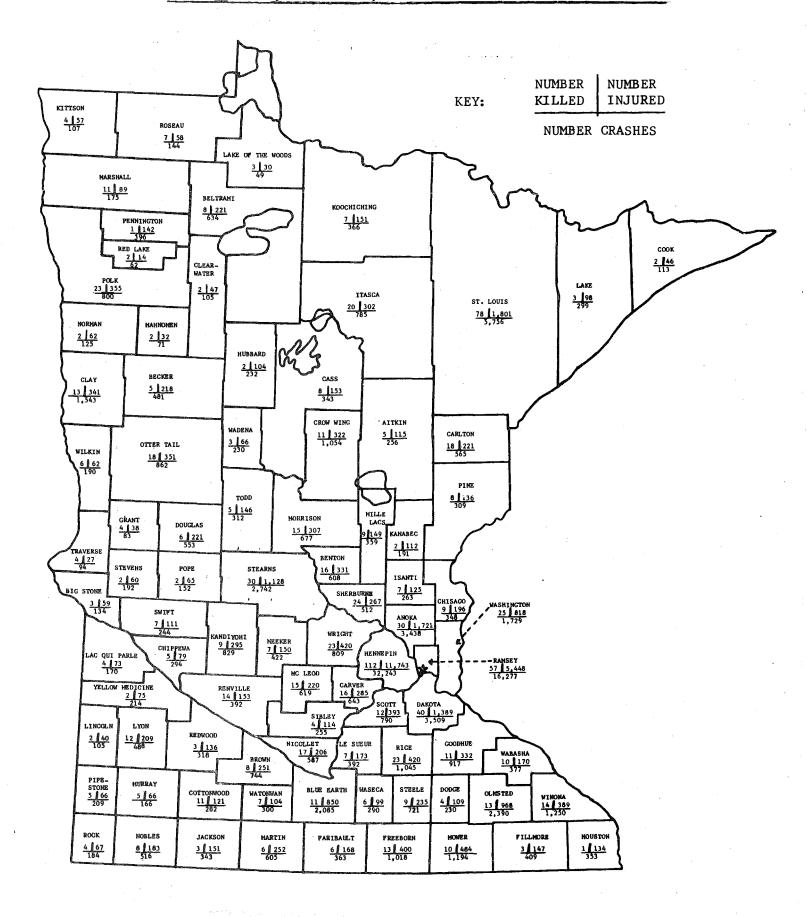


TABLE 6

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				an a			
001111017	ALL CRASHES	DEATHS	INJURIES	OOLINEY	ALL CRASHES	DEATHS	TNINDIEC
COUNTY	GRASHES	DEATHS	INJURIES	COUNTY	GRASHES	DEATHS	INJURIES
Aitkin	256	5	115	Marshall	175	11	89
Anoka	3,438	30	1,721	Martin	605	6	252
Becker	481	5	218	Meeker	422	7	150
Beltrami	634	8	221	Mille Lacs	359	9	149
Benton	60 <b>8</b>	16	331	Morrison	677	15	307
Big Stone	134	3	59	Mower	1,194	10	484
Blue Earth	2,085	11	850	Murray	166	5	66
Brown	744	8	251	Nicollet	587	17	206
Carlton	565	18	221	Nobles	516	8	183
Carver	643	16	285	Norman	125	2	62
Cass	343	8	153	Olmsted	2,390	13	968
Chippewa	294	5	79	Otter Tail	862	18	351
Chisago	348	9	196	Pennington	396	1	142
Clay	1,543	13	341	Pine	30 <b>9</b>	8	136
Clearwater	105	2	47	Pipestone	209	5	66
Cook	113	2	46	Polk	800	23	355
Cottonwood	282	11	121	Pope	152	2	65
Crow Wing	1,054	11	322	Ramsey	16,277	57	5,448
Dakota	3,509	40	1,389	Red Lake	62	2	14
Dodge	230	4	109	Redwood	318	3	136
Douglas	553	6	221	Renville	392	14	153
Faribault	363	6	168	Rice	1,045	23	420
Fillmore	409	3	147	Rock	184	4	67
Freeborn	1,018	13	400	Roseau	144	7	58
Goodhue	917	11	332	St. Louis	5,756	78	1,801
Grant	83	4	38	Scott	<b>79</b> 0	12	393
Hennepin	32,243	112	11,743	Sherburne	512	24	<b>2</b> 6 <b>7</b>
Houston	353	1	134	Sibley	255	4	114
Hubbard	232	2	104	Stearns	2,742	30	1,128
Isanti	263	7	125	Steele	721	9	235
Itasca	785	<b>2</b> 0	302	Stevens	192	2	60
Jackson	343	3	151	Swift	244	7	111
Kanabec	191	2	112	Todd	312	5	146
K <b>andiy</b> oh <b>i</b>	829	9	295	Traverse	94	4	27
Kittson	107	4	57	Wabasha	377	10	170
Koochiching	366	7	151	Wadena	230	3	66
Lac qui Parl		4	73	Waseca	<b>29</b> 0	6	99
Lake	299	. 3	98	Washington	1,729	25	818
Lake of the W		3	30	Watonwan	300	7	104
Le Sueur	392	7	173	Wilkin	190	6	62
Lincoln	105	2	40	Winona	1,250	14	389
Lyon	488	12	209	Wright	809	23	420
McLeod	619	15	220	Yellow Medic	والمتحصي والمتناف ومستشافات المتحد والتكف المتحدي والروابة	2	75
Mahnomen	71	2	32	TOTALS	104,030	1,024	39,242

CRASHES, FATALITIES, AND INJURIES BY COUNTY

All counties had at least one fatality in 1971, but three had no fatalities in 1970.

Thirty-nine counties had more fatalities in 1971 than in 1970, 42 had less and 6 had the same number.

Eight counties at least tripled their fatalities in 1971, while only three cut their fatalities by that rate. - 10 -

TABLE 8
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LOCATION OF CRASHES

LOCATION BY POPULATION	ALL	FATAL	PERSONAL INJURY	PROPERTY DAMAGE
2,500-9,000 10,000-24,999 25,000-49,999	11,468 14,535 17,271	46 50 54	2,455 3,510 4,453	8,967 10,975 12,764
50,000-99,999 Bloomington 100,000-249,999 Duluth 250,000-over St. Paul	2,343 3,130 12,103	12 31 29	574 612 2,698	1,757 2,487 9,376
250,000-over Minneapolis	<u>17,747</u>	_44	3,692	<u>14,011</u>
TOTAL	78,597	266	17,994	60,337
<u>URBAN/RURAL</u>				
Rural trunk highway Other rural roads Rural controlled access	13,449 11,120 864	306 256 15	3,884 3,126 219	9,259 7,738 630
Sub-total rural	25,433	577	7,229	17,627
Urban trunk highway Other urban roads Urban controlled access	27,832 45,714 5,051	118 123 25	6,767 10,111 1,116	20,947 35,480 3,910
Sub-total urban	78,597	266	17,994	60,337
TOTAL URBAN AND RURAL	104,030	843	25,223	77,964
BUILT-UP/NOT BUILT-UP				
In city or town Not in city or town	86,459 17,571	339 504	19,543 _5,680_	66,577 <u>11,387</u>
TOTAL	104,030	843	25,223	77,964
ROAD SURFACE CONDITION				
Dry Wet Snowy or icy Other – Not stated	41,155 14,172 17,403 <u>31,300</u>	620 108 83 32	15,287 4,856 4,197 <u>883</u>	25,248 9,208 13,123 30,385
TOTAL	104,030	843	25,223	77,964
NUMBER OF LANES				
One Two Three Four or more, not divided Four or more, divided Not stated	3,828 43,952 1,706 7,817 14,602 32,125	74 503 11 45 165 45	1,209 14,048 629 2,874 5,370 <u>1,093</u>	2,545 29,401 1,066 4,898 9,067 <u>30,987</u>
TOTAL	_ 030و 104	843	25,223	77,964

TYPE OF ROAD	NUMBER OF MILES	PERCENT.
Interstate Freeways		
Open to traffic (12-31-71)	606	
Under construction	161	
Planned for future construction	147	
	914	0.7%
Trunk Highways	11,190	8.8
County State Aid Highways	29,610	23.2
County Roads	15,408	12.1
Municipal State Aid Streets	1,290	1.0
Other Local Roads	<sup>•</sup> 55,363	43.3
Other State and Federal Roads	3,102	2.4
Other Municipal Streets	10,867	8.5
TOTAL	127,744	100.0%

#### ROAD MILEAGE SUMMARY

Fifty-two miles of interstate freeways were completed in 1971.

### TABLE 10

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	ALL	FATAL	PERSONAL INJURY	PROPERTY DAMAGE	FATALITIES	<u>INJURI ES</u>
LIGHT CONDITIONS	5		•			:
Daylight	67,242	422	15,705	51,115	502	24 <b>,</b> 389
Darkness	36,788	421	9,518	26,849	522	14,853
TOTAL	104 <b>,</b> 030	843	25,223	77,964	1,024	39,242
WEATHER					· .	
Clear	58,578	695	20,078	37,805	856	31 <b>,</b> 324
Rain	7,207	62	2,468	4,677	69	3,911
Snow/sleet	6,217	36	1,584	4,597	42	2,371
Fog	503	15	166	322	17	283
Other/Not					<b>r</b> '	
stated	31,525	35	927	30,563	40	1,353
TOTAL	104,030	843	25,223	77,964	1,024	39,242

## WEATHER AND LIGHT CONDITIONS IN CRASHES

#### CRASHES DISTRIBUTED BY MONTH

	a Contra Calendaria da Cale	antificiale province and approximation of the second		CRASHES			a a a de la calencia	VI CT	IMS	a an
	All Crashes	Percent	Fatal Crashes	Percent	Personal Injury Crashes	Property Damage Crashes	Number Killed	Percent	Number Injured	Percent
January	12,175	11.7	48	5.7	2,159	9 <b>,</b> 968	54	5.3	3,228	8.2
February	10,034	9.7	34	4.1	1,799	8,201	40	3.9	2,641	6.7
March	7,184	6.9	48	5.7	1,563	5,573	63	6.1	2 <b>,</b> 398	6.1
April	6,375	6.1	65	7.7	1,703	4,607	78	7.6	2 <b>,</b> 660	6.8
May	7,469	7.2	79	9.4	2,161	5,229	93	9.1	3,424	8.7
June	7,583	7.3	74	8.8	2,330	5,179	<b>9</b> 0	8.8	3,666	9.3
July	<b>7,9</b> 20	7.6	83	9.9	2,323	5,514	124	12.0	3,695	9.4
August	7,726	7.4	98	11.6	2,313	5,315	119	11.7	3,669	9.3
September	7,641	7.4	97	11.4	2,176	5,368	110	10.8	<b>3,</b> 456	8.8
October	9,316	8.9	87	10.3	2,328	6,901	98	9.6	3,661	9.3
November	9,406	<b>9</b> .0	67	7.9	2,095	7,444	81	7.9	3,265	<sup>\$</sup> 8.4
December	11,201	10.8	63	7.5	2,273	8,865	<u>74</u>	7.2	3,479	9.0
TOTAL	104,030	100	843	100	25,223	77,964	1,024	100	39,242	100

July, August and September were high fatality months and accounted for 34 percent of the total fatalities for the year. Fatality rates followed seasonal trends, increasing in the summer months and decreasing in the winter season. The winter months of December, January and February, however, led in total crashes with property damage crashes causing the increases. The number of property damage crashes increased in winter because of the poorer driving conditions, but the number of fatal crashes decreased because of the slower speeds caused by those conditions.

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TIME AND DAY DISTRIBUTION OF CRA
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		TOTAL					MONDAY				TUESDAY				WEDNESDAY						
TIME	TOTAL	%	FATAL	۲I	* PD*	TOTAL	%	FATAL	PI	PD	TOTAL	0	% FATA		PI	PD	TOTAL	%	FATAL	PI.	PD
Mid <b>-</b> 3am	9590	9	140	2705	6745	671	5	9	176	486	744	1	5 1	0 1	195	539	866	6	7	217	642
Зат <b>-</b> бат	2189	2	40	635	1514	148	1	2	29	117	156	]	1	C	37	119	175	1	. 4	50	121
бат <b>-</b> 9ат	10210	10	48	2061	8101	1806	13	7	365	1434	1850	13	3	5 3	353	1491	1928	13	8	397	1523
9am <b>-</b> Noon	12514	12	81	2545	9888	1770	13	10	344	1416	1805	13	3 1	1 3	351	1443	1757	12	5	351	1401
Noon <b>-</b> 3pm	17373	17	98	4082	13193	2379	18	9	541	1829	2509	18	8 1.	5 !	543	1951	2221	15	10	517	1694
3pm <b>-</b> 6pm	25781	25	154	6069	19558	3624	27	20	800	2804	3960	28	8 1	7 ຼີ (	898	3045	3909	28	24	875	3010
6pm <b>-</b> 9pm	15125	14	147	4129	10849	1859	14	25	513	1321	1799	13	3 1	4 4	490	1295	2196	15	19	578	1599
9pm <b>-</b> Mid	11248	11	135	2997	8116	1201	9	7	308	886	1294	(	9 1	1 3	326	957	1485	10	14	421	1050
TOTALS	104030 1	00%	843	25223	77964	13458	100	% 89	3076	10293	14117	100	0% 8	4 3	193	10840	14537	100	<u>% 91</u>	<u>3406</u>	11040

\* PI = Personal Injury. PD = Property Damage.

		THI	JRSDAY				FRII	DAY				SAT	TURDAY	7			S	UNDAY		
TIME	TOTAL	% F	ATAL	PI	PD	TOTAL	% E	FATAL	PI	PD	TOTAL	% E	FATAL	PI	PD	TOTAL	%	FATAL	PI	PD
Mid <b>-</b> 3am	989	7	15	268	706	1408	7	12	354	1042	2509	15	46	725	1738	2403	21	41	770	1592
3 <b>am-</b> 6am	196	1	4	45	147	377	2	4	100	273	553	3	11	185	357	584	5	15	189	380
6am <b>-</b> 9am	1629	12	7	338	1284	2018	11	8	370	1640	661	4	8	150	503	318	3	4	88	226
9am <b>-</b> Noon	1656	12	12	363	1281	2001	11	6	381	1614	2302	14	18	468	1816	1223	10	19	287	91 <b>7</b>
Noon <b>-</b> 3pm	2232	16	15	504	1713	2931	15	12	690	2229	3162	19	24	750	2388	1939	17	13	537	1389
3pm <b>-</b> 6pm	3691	26	15	849	2827	4892	25	25	1118	3749	3436	20	22	871	2543	2269	20	31	658	1580
6pm <b>-</b> 9pm	2155	15	26	565	1564	3112	16	22	824	2266	2317	14	24	678	1615	1687	15	17	481	1189
9 <b>pm-Mi</b> d	1594	11	16	425	1153	2547	13	41	661	1845	2035	11	30	549	1456	1092	9	16	307	769
TOTAL	14142	100%	110	3357	10675	19286	100%	. 130	4498	14658	16975	100%	, 183	4376	12416	11515	100%	<u>% 156</u>	3317	8042

Most crashes occurred on Fridays - 18.6 percent. The least occurred on Sundays with 11.1 percent, while Saturdays had 16.3 percent and each of the other days had 12 to 13 percent of all crashes. The worst time period for crashes was 3 to 6 p.m., with 25 percent of all crashes occurring during those hours. Most fatal crashes occurred on Saturdays (21.7 percent), with Sundays second (18.5 percent).

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Of Christian Christian Standard and Christian Annual Christian Christian Christian Christian Christian Christian		CR	ASHES				<u> IMS</u>
Circumstance	All Crashes	Percent	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes	Number <u>Killed</u>	Number Injured
Illegal/unsafe speed	8,952	9	169	3,656	5,127	206	5,833
Traffic control violation	1,876	2	24	961	891	30	1,809
Over center line, wrong lane	2,147	2	78	754	1,315	108	1,521
Improper parking, starting	-				·		-
or stopping	1,099	1	7	214	878	7	331
Improper passing	984	1	9	192	783	10	312
Following too closely	2,339	2	5	854	1,480	5	1,322
Failure to yield the							
right-of-way	7,559	7	67	2,694	4,798	85	4 <b>,</b> 566
No signal/improper signal	323	0	5	78	240	6	140
Vision obscurement	1,414	1	11	467	936	13	709
Bicycle violation	533	1	11	512	10	11	544
Impeding traffic	128	0	0	32	96	0	40
Improper left turn	566	1	5	126	435	5	209
Improper right turn	389	0	0	44	345	0	60
Other improper turn	621	1	3	141	477	3	222
Beyond driver's control	15,975	15	156	4,708	11,111	206	7,400
Defective equipment	1,297	1 .	6	455	836	8	737
Pedestrian violation	987	1	65	896	26	66	955
Other	56,841	55	222	8,439	48,180	255	12,532
TOTAL	104,030	100%	843	25,223	77,964	1,024	39,242

PROBABLE CONTRIBUTING CIRCUMSTANCES IN CRASHES\*

\*Data are of necessity an opinion of the investigating officer made from the physical evidence, witnesses' statements, etc.

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	A Anglas (1996)					ale es alut date pe	
	<u>1965</u>	1966	<u>1967</u>	<u>1968</u>	1969	<u>1970</u>	<u>1971</u>
Number buses in:							
All crashes	316	331	366	312	405 ·	395	397
Fatal crashes	3	4	. 3	3	2	2	2
Personal injury crashes	133	138	104	83	78	89	95
Property damage crashes	180	189	259	226	325	304	300
Number people:							
Killed	2	4	2	5	2	2	2
Injured	323	264	279	170	156	154	134

SCHOOL BUSES INVOLVED IN CRASHES

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SCHOOL BUS DRIVER LICENSING DATA

Revenue and an address of the second s						
Fiscal	Year <u>1966</u>	<u>1967</u>	<u>1968</u>	<u>1969</u>	<u>1970</u>	<u>1971</u>
Driver licenses issued	12,484	12,627	13,065	14,533	15,314	16,094
Written examinations given						3,634
Physical examinations given	12,484	12,627	13,065	14,533	15,314	16,094

TABLE 16

#### CHAUFFEUR LICENSING DATA

an a	<u> 1966</u>	<u>1967</u>	<u>1968</u>	1969	1970	<u>1971</u>
Number licenses issued	194,477	200,210	1 <b>97,</b> 303	204,473	196 <b>,</b> 657	1 <b>97,9</b> 09
Written examinations given	22,515	22,209	20,333	24 <b>,</b> 586	26,761	26,048
Eye examinations given	22,515	22,209	20,333	24 <b>,</b> 586	26 <b>,</b> 761	26,048

#### MOTORCYCLE CRASHES

(Includes motor bikes, motor scooters and other motorized two-wheel vehicles)

	وتحجيب بالرابية فالمستجيب المتكار وجوانا التكاف المستج		The second s		na zakata dina sa Katata a sa		
Number vehicles involved in:	1965	1966	1967	1968	1969	<u>1970</u>	<u>1971</u>
Number vehicles involved in:							
Total crashes	1,400	2,058	1,610	1,338	980	1,291	1,723
Fatal crashes	28	44	24	40	26	40	48
Personal injury crashes	1,255	1,813	1,373	1,054	745	1,026	1,351
Property damage cr <b>as</b> hes	117	201	213	244	209	225	324
Number killed	30	44	25	40	32	43	51
Number injured	1,601	2,359	1,832	1,394	1,217	1,262	1,628
Registered motorcycles	39 <b>,</b> 395	49,775	55,892	60,886	61,199	71,914	90,150

## TABLE 18

#### MOTORCYCLE LICENSING DATA

	<u>1968</u> *	1969	<u>1970</u>	<u>1971</u> .
Endorsements Issued	9,624	15,896	17,018	20,381
Written Tests Given	12,445	25,057	33,765	41,901
Road Tests Given	10,068	16,726	17,771	27,297

\*Records begin September 1968

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		ter in some state at the state of			
	<u> 1967</u>	<u>1968</u>	<u>1969</u>	<u>1970</u>	<u>1971</u>
Total Accidents	6	23	73	127	164
Fatal Accidents	2	2	2	3	8
Personal Injury Accidents	3	11	50	91	99
Property Damage Accidents	1	10	21	33	57
Fatalities	2	2	3	3	9
Injuries	3	15	64	114	136

#### SNOWMOBILE\_CRASHES\*

\*These are crashes on a trafficway in which another motor vehicle was involved.

#### TABLE 20

#### SNOWMOBILE LICENSING DATA

	<u>1967</u>	<u>1968</u>	<u>1969</u>	<u>1970</u>	<u>1971</u>
Licenses Issued*	18,737	27,732	47,051	57,486	73,332

\*Licenses are issued for vehicles only; drivers are not licensed

LEGISLATIVE REFERENCE LIBRARY

DRIVER LICENSING DATA

n Mar Land in a black from the part of the second of the first land with the second of the second of the second	1965	<u>1966</u>	<u>1967</u>	<u>1968</u> *	<u>1969</u>	<u>1970</u>	<u>1971</u>
Number of licensed drivers	1,850,000	1,900,000	1,950,000	2,000,000	2,025,000	2,050,000	2,125,000
Permits issued	162,939	175,330	164,303	170,826	168,061	167,713	168,110
Written tests	172,030	189,719	173,475	207,068	241,720	266,649	264,068
Road tests	175,284	193,815	178,921	200,373	213,058	221,856	221,741
Regular licenses issued	457,920	455,558	519,673	666,566	534,356	522,528	613,000
Duplicate licenses issued	163,752	175,191	185,039	197,779	202,373	209,393	217,331
Driver evaluations	11,365	13,941	14,189	15,294	14,254	15,201	13,033
Driver evaluation suspensions	18,884	16,975	16,775	17,069	16,212	14,669	11,065
Safety Responsibility Act suspensions	22,489	24,977	22,072	20,254	25,704	29,528	21,469
Revocations	8,477	8,807	8,912	10,819	11,961	12,134	12,974
License cancellations	3,190	3,503	3,338	4,004	3,540	3,357	3,447
Medical referrals	3,304	4,436	4,894	6,136	4,155	2,752	3,892
Reported convictions	214,542	232,344	219,938	239,627	241,579	235,676	253 <b>,</b> 652

\*Beginning in 1968, motorcycle license data are included

		-atta						
AGE GROUP	1964	1965	1966	1967	1968	1969	1970	1971
14 and under	132	162	168	261	124	349	188	185
15	419	490	540	404	389	235	187	245
16	3,416	3,813	3,803	5,005	5,046	2,850	2,936	2,810
17	5,553	5,860	5,840	7,108	7,604	7,476	6,876	6,750
18 - 19	10,677	13,948	14,576	16,797	17,006	18,979	17,767	17,665
Total teen-aged drivers involved in crashes	20,197	24,273	24,927	29,575	30,169	29,889	27,954	27,655
Percent of all licensed drivers	8.5	9.3	9.3	9.7	10.1	9.7	11.5	N/A
Percent of all drivers involved in crashes	15.3	16.3	16.4	18.1	18.7	16.2	16.1	15.2

TEEN-AGED DRIVERS INVOLVED IN CRASHES

TABLE 22

HIT	-AND	-RUN	CRASHES

COLLISION WITH:	ALL <u>CRASHES</u>	FATAL CRASHES	PERSONAL INJURY <u>CRASHES</u>	PROPERTY DAMAGE CRASHES	NUMBER KILLED	NUMBER INJURED
Pedestrian	140	6	132	2	6	139
Motor vehicle in traffic	863	1	156	706	1	228
Parked motor vehicle	2,990	1	39	2,950	1	49
Bicyclist	49	0	43	6	0	44
Fixed objects	209	0	6	203	0	7
All others	287	0	25	262	0	33
			·		<del></del>	
TOT AL	4,538	8	401	4,129	8	500

## Part 2. Pedestrians and Bicyclists

- The 149 pedestrian fatalities recorded in 1971 were four higher than in 1970 and comprised the highest number in history. Bicyclist fatalities numbered 19, the same as in 1970 (Table 1).
  - More pedestrians were killed while crossing roadways between intersections than in any other pedestrian actions, while most non-fatal injuries occurred at intersections. Presumably, reduced speeds at intersections resulted in less serious injuries to pedestrians (Table 2).
  - Although state law prohibits pedestrians from walking in the roadway in the same direction as the traffic is moving, 10 percent of pedestrians killed were doing so when hit. Many of these victims were attempting to flag down an approaching vehicle to hitch a ride or request assistance (Table 2).

Although the number of bicyclist fatalities remained unchanged in 1971, bicyclist injuries increased by almost 10 percent from the previous year, while all injuries in motor vehicle crashes increased only 2 percent (Table 6).

	<u>1966</u>	<u>1967</u>	1968	1969	1970	<u>1971</u>
	. Ø					
Total traffic						
fatalities	977	965	1,060	988	987	1,024
Pedestrian						
fatalities	130	133	122	114	145	149
Percent of total fatalities	13.3	13.8	11.5	11.5	15.0	14.6
Total traffic injuries	52,996	47,919	43,974	35,760	38,538	39,242
Pedestrian injuries	1,332	1,175	1,844	1,735	1,692	1,832
Percent of total injuries	2.5	2.4	4.1	4.9	4.3	4.7

PEDESTRIAN INVOLVEMENT IN CRASHES

TABLE 1

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т		L)	பா	<u> </u>	2

ACTION	TOTAL KILLED	<u>0-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	<u>20-24</u>	<u>25-44</u>	<u>45-64</u>	<u>65-over</u>	Not Stated
Crossing at intersection	14	1	1	0	1	0	0	3	8	
Crossing not at intersection	25	3	1	3	1	0	3	5	9	
Walking in road with traffic	15	0	0	3	3	2	2	2	3	·
Walking in road against traffic	2	0	0	0	0	0	0	1	1	
Standing in road	8	0	0	0	1	1	2	3	1	
Entering or leaving vehicle	1	0	1	0	0	0	0	0	0	
Crossing to or from school bus	1	0	1	0	0	0	0	0	0	
Working on vehicle in roadway	5	0	0	0	2	0	0	2	1	
Working in roadway	0	0	0	0	0	0	0	0	0	
Playing in roadway	7	3	3	0	0	0	0	1	0	
Other in roadway	56	3	7	7	6	1	5	10	17	
Not in roadway										•
Not known	15	1	1	0	1	1	2	5	4	
TOTAL	149	11	15	13	15	5	14	32	44	0

PEDESTRIAN ACTIONS IN FATAL CRASHES

The 65-and-over age group has the largest number of fatalities of any group. Decreased mobility, sense of hearing, visual acuity and recuperative powers may account for the large number of fatalities in this age group.

	PEDESTRI	AN ACT	LONS IN	PERSONAL	INJURY C	RASHES		-				
ACTION	TOTAL INJURED	<u>0-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	20-24	<u> 25-44</u>	<u>45-64</u>	<u>65-over</u>	Not Stated		
Crossing at intersection	467	5	72	54	46	41	50	.96	88	15		
Crossing not at intersection	294	39	93	37	31	7	23	30	27	7		
Walking in road with traffic	102	1	8	23	28	14	14	9	3	2		
Walking in road against traffic	32	1	5	5	10	3	1	4	2	1		
Standing in road	43	0	1	9	4	5	13	7	2	2		
Entering or leaving vehicle	18	1	1	3	3	3	1	1	4	1		
Crossing to or from school bus	10	0	7	2	1	0	0	0	0	0		
Working on vehicle in roadway	8	0	0	0	5	1 .	1	0	0	1		
Working in roadway	.9	0	0	0	1	1	4	3	0	0		
Playing in roadway	47	17	21	6	1	0	2	0	0	0		
Other in roadway	495	75	139	74	42	35	37	45	28	20		
Not in roadway	22	1	5	8	0	3	3	1	1	· 0		
Not known	285	35	57	22	29	12	14	23	23	70		
TOTAL	1,832	175	409	243	201	125	163	219	178	119		

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## TABLE 3

#### PEDESTRIAN ACTIONS IN PERSONAL INJURY CRASHES

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TABLE	4
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AGE CATEGORY	19 <u>M</u>	965 F	19 M	966 	19 M	967 F	19 M	968 F	- 19 M	69 <b>*</b> F	19 M	70* F	19 M	71 F
0-4	5	5	4	4	8	6	3	3					6	5
5-9	8	8	13	17	7	11	12	5					10	5
10-14	4	1	6	2	3	· 1	2	3					9	4
15 <b>-</b> 19	5	4	7	3	7	3	8	4					7	8
20 <b>-</b> 24	4	2	1	1	2	· 0	1	1					3	2
25 <b>-</b> 34	4	1	3	5	4	0	1	4					7	1
35 <b>-</b> 44	6	1	11	2	4	3	2	1					4	2
45 <b>-</b> 54	7	2	3	5	6	4	6	1					12	6
55 <b>-</b> 64	9	4	4	3	14	۲Ļ	7	7					10	4
65-74	14	3	11	6	16	5	19	6					13	8
75-over	17	9	14	5	21	4	14	8					17	6
Not stated		1					3	1						
Subtotal	83	41	77	5:3	92	41	78	44		میں پر مندق ہے <u>اس کی محمد اور میں کی محمد کی م محمد کی محمد کی</u>	90	55	98	51
TOTAL	124	4	1	30	. 1	33	1:	22		114	14	45	14	49

AGE AND SEX OF PEDE	STRIAN FATALITIES
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\*Not available

M = MaleF = Female

TABLE	5
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## PEDESTRIAN CRASHES, DEATHS AND INJURIES BY COUNTY

.

COUNTY	ALL CRASHES	KILLED	INJURED	COUNT Y	ALL CRASHES	KILLED	INJURED
Aitkin Anoka Becker Beltrami Benton	1 86 9 9 5	1 3 1 3 1	1 89 8 6 7	Marshall Martin Meeker Mille Lacs Morrison	4 5 5 5 11	3 1 3 1	3 4 5 2 9
Big Stone Blue Earth Brown Carlton Carver	2 52 7 . 16 9	2 1 2 3	2 55 5 13 9	Mower Murray Nicollet Nobles Norman	10 1 9 8	1	10 1 8 11
Cass Chippewa Chisago Clay Clearwater	2 2 3 15 2	1 1 1	2 2 2 14 1	Olmsted Otter Tail Pennington Pine Pipestone	38 11 8 2 4	2 1	38 10 8 2 4
Cook Cottonwood Crow Wing Dakota Dodge	3 3 16 48 1	1 2 4	2 3 13 42 1	Polk Pope Ramsey Red Lake Redwood	15 1 384 7	2 19	13 1 378 7
Douglas Faribault Fillmore Freeborn Goodhue	7 2 3 16 10	1 1	6 2 3 15 9	Renville Rice Rock Roseau St. Louis	2 18 2 1 136	2 1 23	$3 \\ 16 \\ 1 \\ 1 \\ 1 \\ 119$
Grant Hennepin Houston Hubbard Isanti	1 701 4 3 6	28 1	1 711 4 4 5	Scott Sherburne Sibley Stearns Steele	14 6 3 40 11	5 1 4 1	12 5 2 39 10
Itasca Jackson Kanabec Kandiyohi Kittson	9 3 3 8 2	3 . 1 . 3	6 4 3 5 2	Stevens Swift Todd Traverse Wabasha	1 3 4 4	1 2	1 2 4 2
Koochiching Lac Qui Parle Lake Lake of the V Le Sueur	6	2	7 2 7 1 3	Wadena Waseca Washington Wantonwan Wilkin	1 3 42 3 3	5 1	1 3 38 3 2
Lincoln Lyon Mc Leod Mahnomen	1 8 6	1	1 9 6	Winona Wright <u>Yellow Medic</u> TOTALS	17 12 ine 1 1,960	2	13 12 1 1,897*

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\*Includes all persons injured, not only pedestrians.

		OCCUPATION AND AND AND AND AND AND AND AND AND AN		40 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10		
	1966	1967	<u>1968</u>	<u>1969</u>	<u>1970</u>	<u>1971</u>
Total traffic fatalities	977	965	1,060	988	987	1,024
Bicyclist fatalities	20	14	22	21	19	19
Percent of total fatalities	2.0	1.5	2.1	2.2	1.9	1.9
Total traffic injuries	52 <b>,</b> 996	47,919	43,974	35,760	38,538	39,242
Bicyclist injuries	362	459	708	607	763	833
Percent of total injuries	0.7	1.0	1.6	1.7	2.0	2.1

BICYCLIST INVOLVEMENT IN CRASHES

TABLE 6

While bicyclist involvement in traffic crashes appears to be insignificant, the number of crashes is growing as bicycling becomes the inexpensive, healthy and ecological means of transportation. Bicycle sales in Minnesota in 1971 were so high that most dealers ran short before the season was ended.

TABLE	7
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AGE CATEGORY	1965 M F	1966 M F	1967 M F	1968 M F	1969 M F	1970 M F	1971 M F
0-4		7 2					1
5 <b>-</b> 9	6	8 1	.6 1	6 1	5 2	62	61
10-14	7	1	4 1	82	63	3 2	6
15 <b>-</b> 19	2			2	4	5 1	1
20 <b>-</b> 24					1	ĺ	1 1
25 <b>-</b> 34		- 		1			- 1
35 <b>-</b> 44	1						
45 <b>-</b> 54			2	1			
55 <b>-</b> 64							
65 <b>-</b> 74				1			
75-over		1					1
Subtotal	15 1	17 3	12 2	18 4	15 6	14 5	15 4
TOTAL	16	20	14	22	21	19	19

AGE AND SEX OF BICYCLIST FATALITIES

M = Male

F = Female

Five- to fourteen-year-olds comprise 68.5 percent of the bicyclist fatalities in 1971 and 72.6 percent for the seven-year period.

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## BICYCLE CRASHES, DEATHS AND INJURIES BY COUNTY.

	ALL				LATT	Sistemation and a second of the second s	
COUNTY	CRASHES	KILLED	INJURED	COUNTY	ALL CRASHES	VILLED	
COUNTI	CRASHES		INJUKED	COUNTY	GRASHES	KILLED	INJURED
Aitkin				Marshall	1		
Anoka	46	2	46	1			
Becker	1	2		Martin	1		
	5		3 2 5	Meeker	3	1	2
Beltrami	2		2	Mille Lacs	1	]	1
Benton	4		5	Morrison	6		6
Die Chane							
Big Stone	1.5			Mower	15		16
Blue Earth	15		16	Murray	1		1
Brown	7	1	5.	Nicollet	3		2
Carlton	2		2	Nobles	8		6
Carver	4		3	Norman			
Cass				Olmsted	20		20
Chippewa				Otter Tail	3		3
Chisago	5		5	Pennington	3		3
Clay	10		6	Pine	_		_
Clearwater	2		2	Pipestone	3	· 2 ·	1
	-		۷.	Tipescons	5	۷.	L
Cook				Polk	4		- 4
Cottonwood	1		1	Pope	7		4
Crow Wing	6		5		1.01		101
Dakota	•	1		Ramsey	181	3	181
	27	1	30	Red Lake			
Dodge	2		2	Redwood	1		1
Davalaa	1		1	D 11	0	,	
Douglas	1		1	Renville	2	_	2
Faribault	2		2	Rice	9	3	8
Fillmore	1		2	Rock	28		
Freeborn	6		6	Roseau	5		
Goodhue	6		5	St. Louis	28		24
Grant:				Scott	5		5
Hennepin	337	4	313	Sherburne	2		3 1
Houston	2		2	Sibley	2 1		1
Hubbard				Stearns	22		18
Isanti				Steele	6		18 5
Itasca	3		3	Stevens			
Jackson	1		1	Swift	2		4
Kanabec	1		1	Todd	1		
Kandiyohi	5		4	Traverse	Ť		
Kittson	1		4	Wabasha	2		2
			L	wavasiid	۷		2
Koochiching	3	1	3	Wadena	3		4
Lac Qui Parle		1	5	Waseca	4		
							3
Lake	1			Washington	21		21
Lake of the Wo				Wantonwan	4		4
Le Sueur	2		2	Wilkin	1		
Linctln	2			Winona	14		. 14
Lyon	11		12	Wright	6	1	4
Mc Leod	3		2	Yellow Medic			
Mahnomen				TOTALS	912	19	<b>8</b> 62 *
HI IG I III OIII OIII OIII	1						

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\*Includes all persons injured, not only bicyclists

## Part 3. Drinking Drivers and Pedestrians

In 1968, the importance of alcohol consumption as a determining factor in crashes was recognized by new legislation providing for a blood-testing program handled by county coroners throughout the state. Tests are administered to all drivers and all pedestrians over 16 who die within four hours of a traffic crash to determine their blood alcohol content. In 1971, 58.6 percent of the fatally injured drivers and 61.7 percent of the fatally injured pedestrians were alcohol positive (Table 1).

Driving while intoxicated arrests were up 19.2 percent in 1971 to 4,301, with more than half of these made by the Minnesota Highway Patrol (Table 10).

Between the hours of 9 p.m. and 3 a.m., over 80 percent of the fatally injured drivers tested for alcohol were found to have significant quantities in their systems (Table 4).

The 65-and-older age group was a problem area in alcohol related pedestrian fatalities. Out of 16 pedestrians testing alcohol positive, 9 were 65 or older (Table 13).

TABLE 1	L
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DRINKING DRIVER FACTS

<u>1968</u>	<u>%</u>	<u>1969</u>	<u>%</u>	<u>1970</u>	<u>%</u>	<u>1971</u>	<u>%</u>	
1,068		988		987		1,024		people were killed in motor vehicle crashes
531	49.6%	504	51.0%	488	49.5%	510	49.9%	drivers were killed
265	49.9%	270	53.5%	241	49.4%	157	30.8%	fatally injured drivers were tested for alcohol content (percent of all drivers killed)
144	54.3%	147	<b>54</b> .5	142	59.0%	92	58 <b>.</b> 6%	of those tested had alcohol in their system (called positive cases)
114	79.2%	122	82.9%	122	85 <b>.9%</b>	74	80.3%	of the positive cases were at or above the 0.10% level of intoxication
131	91.0%	137	93.1%	136	95.8%	84	91.3%	of the positive cases were male
13	9.0%	10	6.9%	6	4.2%	8	8.7%	of the positive cases were female
37	32.5%	46	31.3%	42	29.5%	29	31.5%	of the positive cases which tested 0.10% or higher occurred between midnight and 3 a.m.
67	46.6%	63	42.9%	58	40.8%	39	42.4%	of the positive cases were between the ages of 16 and 24
56	49.1%	62	42.2%	49	34.5%	31	33.6%	of the positive cases which tested 0.10% or higher were in the 16-24 age range

TYPE OF CRASH	NUMBER	PERCENT
Multi-vehicle collision	38	41.3
Ran off the road	38	41.3
Collision with:		х —
parked vehicle	1	1.1
fixed object	9	9.8
bicycle	1	1.1
railroad train	4	4.3
Other non-collision (including		
overturned)	1	1.1
TOTAL	92	100.0

## FATAL CRASHES INVOLVING DRINKING DRIVERS

TABLE 2

			gan and a support of the		et the state		and succession	anteritaria ere		an an air an an an an air an air an		anan di kata mangalak kata dan dika	and an	
AGE	TOTAL TESTED	TOTAL NEGATI VE		LO-		50 <b>-</b> 99	•10 •14	00-	ATION ( .150- .249 M F	•2 ov	50-	TOTAL POSITIVE	PERCENT OF GROUP TESTING POSITIVE	PERCENT OF ALL POSITIVE CASES
0-20	37	13	3	1	1		6	1	9	2	1	24	64.9	26.2
21-24	27	11			2	1	5	1	6	1		16	59.3	17.4
25 <b>-</b> 29	14	4	2				1		3	3	1	10	71.4	10.9
30-34	11	4	1						6			7	63.6	7.6
35 <b>-</b> 39	11	7	1				່1		1	2		4	36.4	4.3
40-44	11	6			1	1	1			2		5	45.5	5.4
45 <b>-</b> 49	9	2			1				5	1		7	77.8	7.6
50 <b>-</b> 54	5	2		•					1	2		3	60.0	3.3
55 <b>-</b> 59	7	3							4			4	57.1	4.3
60 <b>-</b> 64	8	3			1	1			3			5	62.5	5.4
65 <b>-</b> up	17	10			2		1		4			7	41.1	7.6
					····									
TOTAL	157	65		7		11	1	7	42	1	5	92	58.6	100.0

TABLE 3		
DRIVER FATALITIES		
by		
Blood Alcohol Concentration	and	Age

,

M = MaleF = Female

		TABLE 4		
	DRIV	VER FATALITIES	. •	
		by		
Blood	Alcohol	Concentration	and	Time

<u>TIME</u>	TOTAL TESTED	TOTAL NEGATIVE	BLO0 •010 •049 M	)_	<u>LCOH</u> 05 09 بر	50 -		00-	ATION (1 .150- .249 M F		50-	TOTAL POSITIVE	PERCENT OF GROUP TESTING POSITIVE	PERCENT OF ALL POSITIVE CASES
Mid <b>-</b> 3am	39	5	1		2	2	8	2	14	4	1	34	87.3	36.8
3am-6am	10	2					2		4	2		8	80.0	8.7
6am-9am	18	15							2	1		3	16.7	3.3
9am-Noon	9	7							1	1		2	22.2	2.2
Noon-3pm	15	11	ł		1				1	2		4	26.6	4.3
3pm <b>-</b> 6pm	25	14	2		1		1		7			11	44.0	12.0
6pm-9pm	16	8			1				4	2	1	8	50.0	8.7
9pm-Mid	23	3	3	1	2	1	4		9			20	87.0	21.8
Unknown	2	0				1*					1*	2	100.0	2.2
									·····			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
TOTAL	157	65	7			11		17	42		15	92	58.6	100.0

M = MaleF = Female On days between 9 p.m. and 6 a.m., 72 fatally injured drivers were tested for alcohol and 62 tested positive -- 86 percent. From 6 a.m. to 9 p.m., 85 fatally injured drivers were tested and 30 tested alcohol positive -- 35 percent.

\*Unknown sex

5 2 3 6 5 4	a Alexandra Alexandra		1	1							1		1
6			4				1				3	37.5	3.3
			1		2		2		1		6	66.7	6.5
5 4			1	1			3		2		7	53.8	7.6
	2				1		5		2	1	11	73.5	12.0
5					1		4		1		6	54.5	6.5
) 7					1	1			1		3	30.0	3.3
8	2		1		3		6		1		13	62.0	14.1
5 7			1		1		5		2		9.	56.3	9.8
7 7			2		3		4		1		10	58.8	10.9
) 7	1	1		1	2		6			1	12	63.2	13.0
2 4					1		5		2		8	66.7	8.7
õ <u>2</u>	1		1			1	1				4	66.7	4.3
			<u> </u>									50 (	100.0
) L 5 7 2	7 8 7 7 7 4 2	7 8 2 7 7 7 1 4 2 1	7 8 2 7 7 7 1 1 4 2 1	7 8 2 1 7 1 7 2 7 1 1 4 2 2 1 1	7 8 2 1 7 1 7 2 7 1 1 1 4 2 1 1	7       1         8       2       1       3         7       1       1       1         7       2       3       3         7       1       1       2       3         7       1       1       1       2         4       1       1       2       1         2       1       1       1       1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7       1       1       1       3       30.0         8       2       1       3       6       1       13       62.0         7       1       1       5       2       9       56.3         7       2       3       4       1       10       58.8         7       1       1       2       6       1       12       63.2         4       1       5       2       8       66.7       66.7         2       1       1       1       1       4       66.7

DRIVER FATALITIES by <u>Blood Alcohol Concentration and Month</u>

M = Male

**.** 36 -

F = Female

	an a		BLO	DOD A	ALCOI	IOL (	CONCI	ENTRA	ATION	(PER	CENT)				a an
ROAD CLASS	TOTAL <b>TES</b> TED	TOTAL NEGATIVE	.0	10 <b>-</b> 49 F	.0. .0' M	50 <b>-</b> 99 F	•1 •1 M		.15 .24 M		.25 ove M	50- er F	TOTAL POSITIVE	PERCENT OF GROUP TESTING POSITIVE	PERCENT OF ALL POSITIVE CASES
INTERSTATE-rural	1	0							1				1	100.0	1.1
INTERSTATE_urban	5	1	1		1						1	1	4	80.0	4.3
TRUNK HWY-rural	63	27	3		2	2	9	1	16		3		36	57.1	39.2
TRUNK HWY-urban	25	10		1			1		10		2	1	15	60.0	16.3
COUNTY ROAD	40	18	.2		2	1	4		9		· 4		22	55.0	23.8
CITY STREET	17	6			2			1	6		2		11	64.7	12.0
TOWNSHIP ROAD	6	3			1		1				1		3	50.0	3.3
UNKNOWN	. 0	0											0	0.0	0.0
TOTAL	157	65		7		11		17	4	2	<u></u>	15	92	58.6	100.0

		TABLE	6	
		DRIVER FATAI	LITIES	
		by		
Blood	Alcohol	Concentration	and Road	Classification_

M = Male

ι 7

F = Female

Rural trunk highways was the highest category in <u>number of people testing alcohol</u> positive, but urban trunk highways had a greater <u>percentage</u> of people testing positive.

#### TABLE 7

#### DWI CONVICTIONS

## REVOCATIONS UNDER THE IMPLIED CONSENT LAW\*

1971
1970
1969
19687,431
1967
1966
1965
1964

1971	
1970	855
1969	
1968	166
1967	
1966	
1965	
1964	17

\*The decrease in revocations under the implied consent law is a result of a Minnesota Supreme Court ruling handed down on March 12, 1971. It decreed that a driver who refuses to take a chemical test cannot have his license revoked under the implied consent law if he pleads guilty to driving under the influence.

#### TABLE 9

		ann an Arthrith a gun a suideach an an				
	1966	1967	<u>1968</u>	1969	<u>1970</u>	<u>1971</u>
Second offense	851	708	983	1,162	1,316	1,454
Third offense	197	200	228	276	351	370
Fourth offense	44	34	48	41	64	57
Fifth offense	11	7	7	10	22	23
Sixth offense	3	2	4	3	3	6
Seventh offense	0	0	0	0	3	1
Eighth offense	2	0	0	0	1	2
Ninth offense	2	1	0	0	0	1
Tenth offense	0	0	0	0	0	1
						•
Total repeat convictions	1,110	952	1,270	1,492	1,760	1,915
Total DWI convictions	5,792	5,977	7,431	8,471	8,634	9,687
Percent repeat convictions	19.2	15.9	17.1	17.6	20.4	19.8

REPEAT DWI CONVICTIONS

	and a state of the second s		
YEAR	NUMBER ARREST'S	NUMBER CONVI CTIONS	PERCENT CONVIC <b>TION</b> S
1971	2,410	1,954	81.1
1970	1,860	1,510	81.2
1969	1,640	1,404	85.6
1968	1,535	1,342	87.4
1967	1,384	1,242	89.7
<b>19</b> 66	1,225	1,164	95.0
1965	1,268	1,184	93.4
1964	1,270	1,211	95.4

#### HIGHWAY PATROL DWI ARRESTS AND CONVICTIONS

TABLE 11

Alcohol Level	10(0	1 (17) 6	10-1
(percent)	<u>1969</u>	1970	<u>1971</u>
Negative (.00000))	137	1.51	166
.010049	114	<b>8</b> 6	52
.050099	178	1.76	229
.100149	559	612	469
<b>.</b> 150 <b>∞.</b> 199	1,154	1,343	1,653
•200 <b>-</b> •249	878	905	1,063
•250 <b>-</b> •299	327	293	570
.300349	52	54	74
.350399	10	12	27
TOTAL	3,409	3,632	4,301

BLOOD ALCOHOL LEVELS IN DWI ARRESTS

(Data obtained from Bureau of Criminal Apprehension laboratory and refer to analysis of specimens submitted by local and state police agencies)

<u>1968</u>	<u>%</u>	<u>1969</u>	<u>%</u>	<u>1970</u>	<u>%</u>	<u>1971</u>	<u>%</u>	n en en fan de kennen de kennen de kennen en gesken op de kennen op de kennen de kennen op de kennen op de kenn
122		114		149		157		pedestrians were killed in motor vehicle crashes*
46	37.7%	34	29.8%	41	27.5%	26	16.6%	fatally injured pedestrians were tested for alcohol content (percent of all pedestrians killed)
11	23.9%	17	50.0%	20	48.7%	16	€1 <b>.</b> 7%	of those tested had alcohol in their system (called positive cases)
10	91.0%	15	88.1%	14	70.0%	13	81.2%	of the positive cases were at or above the 0.10% level of intoxication
.4	36.4%	2	11.8%	3	15.0%	9	56.2%	of the positive cases were 65 or older

## DRINKING PEDESTRIAN FACIS

 $\star Includes$  pedestrians killed i1 crashes in which striking the pedestrian was the second event.

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## TABLE 13

PEDESTRIAN FATALITIES by Blood Alcohol Concentration and Age

	annen manningen minnen in Bankan zu dem oppen gevel kalder in generation		BLOOD ALCOHOL CONCENTRATION (PERCENT)					nanna an an 2 a' a' Shannannan an 1999. Annan a' Annan an 1999 ann an 2009 an ann an Annan an Annan a' Annyn a Tanan an an Annan an Annan an Annan Ann		
AGE	TOTAL TESTED	TOTAL NEGATIVE	.010≕ .049 M F	。050∝ 。099 M E	.100≕ .149 M F	.150- .249 M F	.250- over M F	TOTAL POSITIVE	PERCENT OF GROUP TESTING POSITIVE	PERCENT OF ALL POSITIVE CASES
0=20	4	2				1 1		2	50.0	12.5
21-24	0	0				 ,		0	0.0	0.0
25-29	1	1						0	0.0	0.0
30-34	1	1				1		0	0.0	0.0
35-39	0	. 0						0	0.0	0.0
40.44	1	0				1		1	100.0	6.2
45-49	3	1		1			1	2	66.7	12.5
50-54	1	1						0	0.0	0.0
55-59	1	1						0	0.0	0.0
60=64	2	0.				1	1	2	100.0	12.5
65 <b>-</b> up	12	3		2	2 1,	2	2	9	75.0	56.3
TOTAL	26	10	0	3	3	6	4	16	61.5	100.0

M = Male

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F = Female

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