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**MINNESOTA**  
**1977**

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# **MOTOR VEHICLE CRASH FACTS**

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**MINNESOTA DEPARTMENT  
OF PUBLIC SAFETY**



**AN EQUAL OPPORTUNITY EMPLOYER**

**SAINT PAUL ■ 55155**

MINNESOTA  
MOTOR VEHICLE  
CRASH FACTS  
1977

OFFICE OF TRAFFIC SAFETY  
DEPARTMENT OF PUBLIC SAFETY  
207 TRANSPORTATION BLDG,  
ST. PAUL, MN 55155

ADMINISTRATION  
Transportation Building



**STATE OF MINNESOTA**  
**DEPARTMENT OF PUBLIC SAFETY**  
**SAINT PAUL 55155**

TELEPHONE: (612) \_\_\_\_\_

Crash Facts Reader,

This letter is enclosed in your copy of Crash Facts to explain several changes in the 1977 edition. This year's edition has been produced in a less expensive format and much later than normal. Beginning in 1976, an effort was initiated to upgrade the reporting and analysis of motor vehicle accidents in Minnesota. The first step was the adoption of new reporting forms on January 1, 1977. Developed with the assistance of local law enforcement agencies, the forms were designed to accurately collect data about motor vehicle accidents and yet minimize the time demands placed upon law enforcement officials.

In order to make the best use of data collected on the forms, a complementary computer information system project was initiated. This system will enhance the operational and research aspects of accident records reporting by producing various types of summary and detail reports. Unanticipated problems in the system development delayed examination of the data until September of 1978. Crash Facts is being issued in a reduced format and at this time of the year because of the aforementioned problems. We will be returning to a more comprehensive format and, hopefully, an earlier publication date, for the 1978 Crash Facts.

An examination of injuries for 1976 and 1977 shows a decrease in what are known as 'A' injury cases. Beginning January 1, 1977, Minnesota adopted the injury severity classification scheme used by the National Safety Council.

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An 'A' or incapacitating injury now indicates that the injured person is unable to continue the activity engaged in prior to the accident. An 'A' injury was previously defined as one in which bleeding is visible. The result of this change is a more accurate classification of injury severity. Comparison of 1976 and 1977 motor vehicle registrations indicates fewer vehicles for last year. This decrease is the result of a new procedure for counting which reflects vehicles registered on December 31st. Subsequently, those vehicles junked, moved out of state, or not renewed, are not included in the total motor vehicle count.

Additionally, the reporting requirements for motor vehicle accidents involving property damage were modified effective August 1, 1977. Minnesota Statute 169.10, subdivision 7 now requires that accident reports be filed for accidents in which \$300 or more of total property damage occurred. Prior to the aforementioned date, reports were required for accidents involving \$100 or more of total property damage.

Requests for additional copies of Crash Facts should be directed to:

Office of Traffic Safety  
Department of Public Safety  
207 Transportation Building  
St. Paul, MN 55155

612-296-6953

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## INTRODUCTION

The 1977 Crash Facts report has been published by the Office of Traffic Safety, Minnesota Department of Public Safety, in accordance with Minnesota Statutes, Section 169.10. The summary information presented is derived from accident reports submitted by citizens and law enforcement agencies for crashes involving death, personal injury, or property damage of \$300 or more.

Crash data is presented to represent the circumstances of motor vehicle crashes and identify substantive problem areas, so that appropriate counter-measures can be implemented.

In 1977, 856 people were killed and 45,200 injured in 119,754 crashes throughout the state. Over 2.7 million vehicles traveled 28.1 billion miles on 128,458 miles of state roadways. During 1977, 2,630,000 people held Minnesota driving licenses. Examination of crash data shows that:

In 1977:

- \* Two persons killed every day
- \* One traffic death every 10 hours 14 minutes
- \* One pedestrian killed every 62 hours 34 minutes
- \* One bicyclist killed every 7 days (May - October)
- \* One person injured every 11½ minutes
- \* 124 persons injured daily
- \* Economic loss in traffic accidents was \$659.82 per minute
- \* One traffic accident every 2½ minutes
- \* One motorcycle accident every 1 hour 35 minutes (May - October)
- \* One motorcycle fatality every 2 days (May - October)



- \* One property damage accident every 6 minutes
- \* 328 traffic accidents every day
- \* One driver out of every 13 involved in an accident
- \* One vehicle out of every 12 involved in an accident

The total economic loss resulting from motor vehicle accidents in Minnesota was in excess of three hundred and sixty-five million dollars. The figure is derived from costs estimated by the National Safety Council for fatalities, injuries, and damage resulting from fatal, personal injury, and property damage crashes. The total dollar value is calculated as follows:

856	Deaths	@	\$135,000	=	\$115,560,000
8,557	Incapacitating Injuries	@	11,900	=	101,828,300
17,067	Non-incapacitating Injuries	@	3,500	=	59,734,500
19,576	Possible Injuries	@	880	=	17,226,880
89,217	Property Damage Accidents	@	800	=	<u>71,373,600</u>
TOTAL				=	365,723,280

This estimate is based upon the calculable costs of wage loss, medical expenses, insurance administration cost, and property damage. Because costs estimates are revised annually as more precise data becomes available, the calculated estimate of economic loss is generally not comparable from one year to another. However, the economic loss for 1976 Minnesota motor vehicle accidents, calculated with 1976 NSC estimates, was \$355,267,570.

The report is divided into ten parts: The first examining the vehicles, drivers and crashes; the others reviewing holidays, pedestrians, alcohol involvement, and selected types of motor vehicle crashes.

## PART I

### SUMMARY INFORMATION

TABLE 1  
CRASH, FATALITY, AND INJURY RATES, 1968-1977

	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
Traffic Crashes	92,910	105,235	99,404	104,030	111,180	107,956	102,964	123,206	116,390	119,754
Traffic Fatalities	1,060	988	987	1,024	1,031	1,024	852	777	809	856
Traffic Injuries	43,974	35,760	38,538	39,242	42,009	42,772	39,537	41,931	41,580	45,200
Registered Motor Vehicles (Millions of Vehicles)	2.11	2.19	2.26	2.36	2.41	2.51	2.67	2.69	2.92	2.77
Licensed Drivers (Millions of Drivers)	2.00	2.03	2.26	2.33	2.50	2.38	2.44	2.51	2.57	2.63
Vehicular Miles Traveled (Billions of Miles)	19.9	20.8	22.4	23.4	24.9	25.2	24.6	25.6	27.0	28.1
Fatality Rate Per Hundred Million Vehicle Miles Traveled	5.33	4.75	4.41	4.38	4.14	4.07	3.47	3.03	3.00	3.05
Fatality Rate Per 100,000 Registered Vehicles	50.1	45.2	43.7	43.5	42.7	40.5	32.0	28.9	27.7	30.9
Fatality Rate Per 100,000 Population	28.6	26.3	25.9	26.5	26.5	26.3	21.8	19.8	20.4	21.6
Injury Rate Per Hundred Million Vehicle Miles Traveled	220.97	171.92	172.04	167.70	168.71	169.73	160.72	163.79	154.0	160.9
Injury Rate Per 100,000 Registered Vehicles	2,084.1	1,632.9	1,705.2	1,662.8	1,743.1	1,690.6	1,480.8	1,558.8	1,424.0	1,631.8
Injury Rate Per 100,000 Population	1,187.5	951.6	1,012.8	1,016.6	1,078.3	1,097.6	1,009.4	1,068.3	1,048.9	1,144.3
Crash Rate Per Hundred Million Vehicle Miles Traveled	467	506	444	445	447	429	419	481	432	426
Crash Rate Per 100,000 Registered Vehicles	4,456	4,870	4,446	4,464	4,613	4,265	3,862	4,580	3,980	4,323
Crash Rate Per 100,000 Population	2,509	2,800	2,612	2,695	2,858	2,770	2,628	3,143	2,936	3,032

TABLE 2

FATAL CRASHES, CRASHES, BY DAY OF WEEK

<u>DAY</u>	<u>FATAL CRASHES</u>		<u>ALL CRASHES</u>	
	<u>1977</u>	<u>1972-1976</u>	<u>1977</u>	<u>1972-1976</u>
Sunday	107	129	13,238	12,974
Monday	81	80	14,808	14,901
Tuesday	96	92	14,831	14,868
Wednesday	76	91	17,608	15,016
Thursday	86	97	17,210	15,763
Friday	133	127	21,405	20,393
Saturday	163	159	20,654	18,395

TABLE 3

FATAL CRASHES, FATALITIES, BY MONTH

<u>MONTH</u>	<u>FATAL CRASHES</u>	<u>FATALITIES</u>
January	44	49
February	38	42
March	24	25
April	53	58
May	73	88
June	89	103
July	95	108
August	68	81
September	67	76
October	78	90
November	65	84
December	48	52

TABLE 4

FATAL CRASHES, CRASHES, BY TIME OF DAY BY DAY OF WEEK

Hour Beginning	Total Accidents		Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal
MIDNIGHT	3,693	41	388	2	277	3	374	8	415	3	466	5	1,038	12	785	8
1:00	5,596	70	248	5	347	12	488	2	556	4	710	7	1,761	22	1,486	18
2:00	2,616	30	116	1	165	2	209	4	214	6	266	2	884	9	762	6
3:00	1,352	20	73	1	79	2	99	0	114	3	128	2	449	8	410	4
4:00	763	12	54	0	50	1	56	0	76	1	84	1	237	5	206	4
5:00	704	6	56	0	45	1	88	0	88	1	75	1	201	1	151	2
6:00	1,610	15	251	2	228	2	366	4	297	2	217	2	152	3	99	0
7:00	4,500	15	874	3	733	1	966	0	867	3	734	4	222	2	104	2
8:00	4,628	15	867	3	715	1	913	4	812	2	794	3	349	1	178	1
9:00	3,818	18	587	3	523	4	655	2	598	2	603	1	571	4	281	2
10:00	4,545	19	617	4	572	2	681	4	643	3	753	4	828	1	451	1
11:00	5,299	17	779	2	637	2	736	1	760	3	830	4	1,027	3	530	2
NOON	6,179	15	755	2	808	3	907	1	837	0	1,026	2	1,111	4	735	3
1:00	5,895	17	772	3	705	2	780	1	799	1	1,043	3	1,123	7	673	0
2:00	6,777	28	861	5	943	3	983	2	970	6	1,148	6	1,139	5	733	1
3:00	8,934	48	1,224	4	1,274	9	1,443	5	1,356	8	1,674	12	1,191	5	772	5
4:00	9,832	34	1,347	7	1,417	4	1,632	2	1,557	4	1,935	5	1,222	9	722	3
5:00	8,298	49	1,092	5	1,162	4	1,363	7	1,337	8	1,608	9	1,022	5	714	11
6:00	5,985	52	728	6	757	6	904	5	897	5	1,188	11	902	14	609	5
7:00	5,768	46	694	3	718	9	826	6	797	4	1,226	11	922	7	585	6
8:00	4,688	35	530	4	588	6	644	6	680	2	951	10	793	4	482	3
9:00	4,752	40	522	2	622	4	651	2	741	5	961	11	783	10	472	6
10:00	4,535	42	509	6	497	7	620	6	599	5	995	6	908	9	407	3
11:00	4,569	47	397	6	444	6	572	4	556	4	1,187	10	1,032	10	381	7
NOT STATED	4,418	11	517	2	525	0	632	0	644	1	803	1	787	3	510	4
TOTAL																
ACCIDENTS	119,754	742	14,808	81	14,831	96	17,608	76	17,210	86	21,405	133	20,654	163	13,238	107

TABLE 5  
COUNTY CRASH REPORT

County	All Crashes	Fatal Crashes	Number Killed	Personal Injury Crashes	Injured	Property Damage
Aitkin	288	2	2	97	134	189
Anoka	4,709	19	19	1,414	2,075	3,276
Becker	684	9	9	180	291	495
Beltrami	763	4	6	176	271	583
Benton	678	6	6	178	271	494
Big Stone	186	1	1	31	55	154
Blue Earth	1,900	4	4	419	578	1,477
Brown	897	4	4	215	310	678
Carlton	584	4	4	156	230	424
Carver	921	11	12	281	468	629
Cass	423	4	7	118	191	301
Chippewa	324	7	8	60	89	257
Chisago	600	6	9	159	261	435
Clay	1,867	14	17	352	558	1,501
Clearwater	119	1	1	29	48	89
Cook	130	1	1	41	63	88
Cottonwood	267	5	6	63	114	199
Crow Wing	1,317	19	21	323	481	975
Dakota	5,098	32	38	1,386	2,124	3,680
Dodge	258	2	2	77	109	179
Douglas	850	9	9	196	301	645
Faribault	369	7	8	107	157	255
Fillmore	363	10	10	96	144	257
Freeborn	982	11	13	230	317	741
Goodhue	1,039	8	8	262	385	769
Grant	108	3	3	22	29	83
Hennepin	34,526	93	105	8,693	12,754	25,739
Houston	410	9	9	117	182	284
Hubbard	309	4	5	68	122	237
Isanti	415	1	1	139	233	275
Itasca	1,055	20	24	266	416	769
Jackson	309	3	3	84	134	222
Kanabec	224	1	1	69	105	154
Kandiyohi	1,143	7	19	244	362	892
Kittson	88	1	1	20	27	67
Koochiching	498	4	5	148	225	346
Lac Qui Parle	200	0	0	47	65	153
Lake	340	5	7	91	141	244
Lake of the Woods	87	2	4	23	44	62
Le Sueur	572	6	6	115	182	451
Lincoln	143	0	0	39	54	104
Lyon	592	2	2	120	171	470
McLeod	678	4	4	183	270	491
Mahnomen	100	2	2	28	57	70

TABLE 5 (continued)

COUNTY CRASH REPORT

County	All Crashes	Fatal Crashes	Number Killed	Personal Injury Crashes	Injured	Property Damage
Marshall	184	5	8	53	82	126
Martin	522	3	3	121	192	398
Meeker	468	4	4	98	154	366
Mille Lacs	378	5	6	107	149	266
Morrison	656	8	9	209	326	439
Mower	1,035	11	11	246	374	778
Murray	180	3	4	47	75	130
Nicollet	576	3	4	134	189	439
Nobles	537	4	4	127	190	406
Norman	142	2	2	29	43	111
Olmsted	3,038	15	16	809	1,154	2,214
Otter Tail	1,078	8	12	261	409	809
Pennington	509	6	9	86	122	417
Pine	397	9	11	116	184	272
Pipestone	269	6	7	53	76	210
Polk	1,011	13	17	234	378	764
Pope	199	8	8	43	68	148
Ramsey	18,386	49	55	4,169	5,782	14,168
Red Lake	97	0	0	29	59	68
Redwood	363	5	5	105	173	253
Renville	420	7	8	109	172	304
Rice	1,142	15	17	302	457	825
Rock	217	2	2	45	74	170
Roseau	211	1	1	32	47	178
St. Louis	5,853	58	65	1,308	1,971	4,487
Scott	947	10	10	286	434	651
Sherburne	603	9	10	201	327	393
Sibley	256	4	6	70	110	182
Stearns	3,256	22	27	806	1,238	2,428
Steele	902	8	9	199	286	695
Stevens	264	1	1	52	73	211
Swift	269	4	4	73	117	192
Todd	500	14	14	132	248	354
Traverse	100	0	0	23	36	77
Wabasha	449	4	4	123	197	322
Wadena	290	3	4	64	94	223
Waseca	419	4	5	99	142	316
Washington	2,431	20	23	665	994	1,746
Wantonwan	341	0	0	85	127	256
Wilkin	252	2	2	53	72	197
Winona	1,338	4	4	307	414	1,027
Wright	1,122	14	17	334	528	774
Yellow Medicine	239	2	2	62	90	175

TABLE 6

ACCIDENTS BY CITY SIZE

	All Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes	Killed	Injured
Minneapolis	17,761	46	4,255	13,460	48	6,394
St. Paul	12,901	31	2,798	10,072	33	3,870
Duluth	2,658	25	551	2,082	26	824
25,000 and above	22,304	41	5,641	16,622	43	8,040
10,000 - 25,000	17,481	60	4,070	13,351	62	5,865
2,500 - 10,000	14,578	63	3,149	11,366	71	4,613
Rural (under 2,500)	31,467	476	9,156	21,835	573	14,485
Not Stated	604		180	424		1,109
Total	119,754	742	29,800	89,212	856	45,200

TABLE 7

ACCIDENTS BY ROAD CONDITION

	All Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes
Dry	31,630	548	10,322	20,760
Wet	11,801	110	3,616	8,075
Snowy or Icy	11,933	70	2,423	9,440
All Others and Not Stated	64,390	14	13,439	50,937
Total	119,754	742	29,800	89,212



TABLE 8  
FATALITIES, INJURIES, BY AGE BY SEX

Age	All	Male	Female	Percent of Total Killed	All	Male	Female	Percent of Total Injured
0- 4	21	14	7	2.4	459	238	221	1.0
5- 9	26	19	7	3.0	1,508	841	667	3.3
10-14	34	15	19	4.0	1,827	978	849	4.0
15-19	188	135	53	22.0	9,797	5,615	4,182	21.7
20-24	154	131	23	18.0	8,776	5,249	3,527	19.4
25-34	141	104	37	16.5	8,264	4,750	3,514	18.3
35-44	70	57	13	8.2	3,540	1,845	1,695	7.8
45-54	41	32	9	4.8	2,968	1,434	1,534	6.6
55-64	64	43	21	7.5	2,478	1,187	1,291	5.5
65-74	46	23	23	5.4	1,410	627	783	3.1
75 and Older	62	39	23	7.2	937	459	478	2.1
Not Stated	9	5	4	1.0	3,236	1,476	1,760	7.2
TOTAL	856	617	239	100.0	45,200	24,669	20,501	100.0

TABLE 9  
DRIVER LICENSE SUMMARY, BY AGE BY SEX

AGE	1972		1973		1974		1975		1976		1977	
	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE
15-19	152,953	137,797	152,615	135,891	153,717	136,903	158,649	142,257	161,574	145,907	165,394	149,744
20-24	186,454	185,654	181,208	166,685	185,467	171,339	189,962	176,075	194,310	179,214	198,003	183,158
25-29	160,388	161,918	154,010	141,183	161,612	148,035	170,553	156,190	177,862	163,816	179,964	167,394
30-34	130,102	120,223	124,286	111,828	127,308	116,017	130,385	118,637	137,242	125,838	144,912	133,710
35-39	106,044	95,213	101,499	90,403	103,558	92,712	106,297	96,261	109,823	100,080	115,445	105,807
40-44	103,258	90,476	96,183	83,361	95,682	83,679	95,011	83,953	95,477	85,673	96,558	87,363
45-49	105,058	88,822	99,608	84,324	98,027	83,773	97,537	84,049	96,726	83,935	94,957	83,657
50-54	99,659	83,042	95,186	78,710	96,965	80,508	97,614	81,373	97,222	81,694	96,650	82,616
55-59	92,554	73,578	89,148	71,590	88,006	72,326	88,264	73,352	89,466	75,261	90,356	76,415
60-64	80,850	60,444	77,015	58,022	78,243	59,980	79,655	62,323	80,933	64,531	80,838	65,898
65-69	67,744	45,430	62,829	43,659	64,209	45,723	65,232	48,131	65,626	49,701	66,296	51,659
70-74	53,570	30,789	47,378	28,410	48,639	30,696	49,953	32,574	50,925	34,503	50,665	35,829
75 and older	77,308	25,593	59,142	21,106	62,745	23,803	67,885	27,433	66,023	28,642	63,053	30,330
TOTAL	1,415,942	1,198,979	1,340,107	1,115,172	1,364,778	1,145,499	1,396,997	1,182,608	1,423,209	1,218,815	1,443,091	1,253,580
GRAND TOTAL	2,614,921		2,455,279		2,510,277		2,579,605		2,642,024		2,696,671	

TABLE 10  
DRIVER AGE BY ACCIDENT SEVERITY

<u>Age</u>	<u>All Accidents</u>	<u>Fatal Accidents</u>	<u>Personal Injury</u>
14 & Under	416	4	137
15	327	7	125
16	4,532	20	1,237
17	9,135	45	2,313
18-19	22,002	146	5,910
20-24	40,366	249	10,979
25-34	44,257	232	11,780
35-44	22,200	115	5,653
45-54	17,781	92	4,417
55-64	13,279	76	3,350
65-74	7,347	38	1,678
75 & Older	3,723	37	911
Not Stated	21,038	20	1,550
<hr/>			
Total Drivers	206,403	1,081	50,040

TABLE 11

CONTRIBUTING CIRCUMSTANCES

	All Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes
Illegal/Unsafe Speed	14,649	239	5,432	8,978
Traffic Control Violation	2,877	30	1,367	1,480
Over Center Line, Wrong Lane	2,473	77	936	1,460
Improper Parking, Starting, Stopping	1,709	8	397	1,304
Improper Passing	1,961	18	423	1,520
Following Too Closely	4,814	3	1,518	3,293
Failure to Yield Right-of-Way	14,752	107	4,977	9,668
No Signal/Improper Signal	352	1	87	264
Vision Obscurement	2,400	19	742	1,639
Bicycle Violation	194	5	183	6
Impeding Traffic	524		108	416
Improper Turn	3,011	11	700	2,300
Beyond Driver's Control	51,457	6	16,200	35,251
Defective Equipment	1,746	12	520	1,214
Pedestrian Violation	436	57	379	
Other	109,242	149	17,346	91,747
<b>Total</b>	<b>212,597</b>	<b>742</b>	<b>51,315</b>	<b>160,540</b>

TABLE 12

MOTOR VEHICLE REGISTRATIONS

TYPE OF VEHICLE	1970	1971	1972	1973	1974	1975	1976	1977
PASSENGER CARS <sup>1</sup>	1,732,607	1,782,734	1,806,394	1,866,756	1,931,493	1,943,956	2,125,167	1,911,108
TRUCKS								
GROSS WEIGHT	310,150	334,414	355,100	385,826	425,743	442,904	476,351	513,562
FARM	105,212	105,202	103,346	104,200	108,714	101,976	114,643	118,303
URBAN	4,402	4,731	4,645	4,410	4,605	4,571	4,464	5,845
SUBTOTAL, TRUCKS	419,764	444,347	463,091	494,436	539,062	549,451	592,458	637,710
TAX EXEMPT	24,438	26,296	24,443	31,740	35,848	33,273	36,486	38,863
BUSES	1,799	1,300	2,956	3,019	3,165	2,352	2,432	2,445
SCHOOL BUSES	4,740	5,093	3,604	3,491	3,665	3,797	3,982	4,232
MOTORCYCLES	71,914	90,150	103,286	119,227	138,193	136,256	143,237	151,763
RECREATIONAL <sup>2</sup>	4,834	6,592	9,233	12,318	14,328	16,200	20,619	25,172
MOTOR VEHICLE SUBTOTAL	2,260,096	2,356,512	2,413,007	2,513,037	2,665,754	2,685,285	2,924,381	2,771,293
TRAILERS	336,686	378,939	398,718	451,539	459,049	497,071	490,585	507,525
COLLECTOR'S ITEMS <sup>3</sup>		7,779	8,504	9,427	10,120	10,806	13,174	15,662
GRAND TOTAL <sup>4</sup>	2,631,222	2,781,900	2,850,789	2,992,607	3,189,512	3,193,162	3,428,140	3,294,480

1. Passenger car totals this year of 1,911,108 are down from last year's 2,125,167. This reflects a new procedure begun this year of counting only those vehicles which are currently registered on December 31st, and is not an actual decrease in registration. Thus, over 200,000 vehicles which were junked, moved out of state, or not renewed during the year are not included.
2. Motor-powered vehicles used for human habitation during recreational activities.
3. The number of vehicles registered as collector's items is unknown prior to 1971.
4. Does not include foreign-based prorated vehicles.

TABLE 13

## MOTOR VEHICLE INSPECTIONS, 1970-1977

		Number of Defects	Number of Rejected	Number Inspected	Percent Rejected
1970	Cars	57,920	36,314	66,070	55.0
	Trucks	18,330	10,599	19,570	54.1
	School Buses	2,283	2,223	4,835	46.0
	TOTAL VEHICLES	78,533	49,136	90,475	54.3
1971	Cars	67,187	42,019	84,945	49.5
	Trucks	14,466	10,030	21,224	47.3
	School Buses	2,782	2,468	5,035	49.0
	Motorcycles	32	29	172	16.8
	TOTAL VEHICLES	84,467	54,546	111,376	49.0
1972	Cars	68,171	36,010	79,959	45.0
	Trucks	17,205	8,402	18,050	46.5
	School Buses	9,162	3,825	8,012	47.7
	Motorcycles	72	50	194	25.8
	TOTAL VEHICLES	94,610	48,287	106,215	45.5
1973	Cars	78,800	42,190	89,505	47.1
	Trucks	18,393	9,241	19,311	47.9
	School Buses	12,278	5,885	15,793	37.3
	Motorcycles	113	80	384	20.8
	TOTAL VEHICLES	100,584	57,396	124,993	45.9
1974	Cars	62,241	34,764	91,842	37.9
	Trucks	15,838	7,772	21,869	35.5
	School Buses	10,973	4,852	16,439	29.5
	Motorcycles	149	86	529	16.3
	TOTAL VEHICLES	89,201	47,474	130,679	36.3
1975	Cars	82,431	43,776	107,565	40.7
	Trucks	21,079	9,433	22,104	42.7
	School Buses	19,366	3,191	18,122	17.6
	Motorcycles	236	119	689	17.3
	TOTAL VEHICLES	123,112	56,519	148,480	38.1
1976	Cars	90,954	49,648	125,042	39.7
	Trucks	25,388	12,391	30,046	41.2
	School Buses	20,152	2,939	18,589	15.8
	Motorcycles	451	276	1,370	20.1
	TOTAL VEHICLES	136,945	65,254	175,047	37.3
1977	Cars	67,402	40,314	111,112	36.3
	Trucks	19,735	10,697	29,045	36.8
	School Buses	21,363	3,630	19,381	18.7
	Motorcycles	374	223	1,015	22.0
	TOTAL VEHICLES	108,874	54,864	160,553	34.2

TABLE 14

TYPE OF MOTOR VEHICLE BY ACCIDENT SEVERITY

	<u>All Accidents</u>	<u>Fatal</u>	<u>Personal Injury</u>
Passenger Car	171,057	682	40,430
Passenger Car and Trailer	335	2	72
Truck/Truck Tractor	28,142	207	6,285
Truck Tractor and Semi-Trailer	2,984	66	719
Truck Tractor and Twin Trailer	9	1	
Other Truck Combination	327	1	62
Farm Tractor and/or Farm Equipment	238	6	67
Taxicab	596		115
Bus	782	6	208
School Bus	724	1	162
Motorcycle	2,789	89	2,182
Snowmobile	169	6	103
Emergency Vehicles	383	1	122
Military Vehicles	39		7
Other Public Vehicles	1,512	10	304
Hit and Run Vehicles	9,843	20	968
Others and Not Stated	356	4	76
<hr/>			
Total Vehicles	220,285	1,102	51,882

## PART II

### PEDESTRIAN INFORMATION

TABLE 1

#### PEDESTRIAN CRASHES, INJURIES, FATALITIES, 1968-1977

	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
Pedestrian Crashes*	1,881	1,944	1,923	1,960	1,941	1,940	1,750	1,925	1,723	**
Pedestrians Injured	1,959	1,735	1,797	2,000	1,930	1,940	1,753	1,918	1,726	**
Pedestrians Killed	122	114	149	157	132	149	106	121	120	140

\*A "pedestrian crash" is a crash in which the first object that was struck by a motor vehicle was a pedestrian.

\*\*Pedestrian injury information is not available for 1977.



TABLE 2

PEDESTRIAN FATALITIES, BY AGE BY SEX

<u>Age</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>	<u>1972-1976 Average</u>
0- 4	5	2	7	9
5- 9	10	4	14	13
10-14	4	3	7	9
15-19	8	8	16	15
20-24	8	5	13	8
25-34	6	6	12	11
35-44	6	3	9	5
45-54	3	1	4	9
55-64	8	6	14	11
65-74	8	4	12	13
75-over	13	15	28	22
Not Stated	2	2	4	0
TOTAL	81	59	140	125

TABLE 3

PEDESTRIAN FATALITIES, BY TIME OF DAY

<u>Hour Beginning</u>	<u>Fatal Pedestrian Crashes</u>
MIDNIGHT	5
1:00 AM	10
2:00	2
3:00	3
4:00	3
5:00	2
6:00	4
7:00	3
8:00	0
9:00	4
10:00	7
11:00	3
NOON	2
1:00 PM	5
2:00	4
3:00	7
4:00	4
5:00	12
6:00	13
7:00	12
8:00	9
9:00	6
10:00	11
11:00	6
NOT STATED	3

# PART III BICYCLIST INFORMATION

TABLE 1

## BICYCLIST CRASHES, INJURIES, FATALITIES, 1968-1977

	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
Bicycle Crashes*	740	662	807	912	1,044	1,301	1,350	1,302	1,217	**
Bicyclists Injured	711	607	770	844	949	1,197	1,246	1,202	1,114	**
Bicyclists Killed	23	21	19	19	27	17	16	23	21	24

\*A "Bicycle Crash" is a crash in which the first object that was struck by a motor vehicle was a bicyclist.

\*\*Bicyclist injury information is not available for 1977.

TABLE 2

## BICYCLIST FATALITIES BY AGE BY SEX

Age	Male	Female	Total
0- 4	1		1
5- 9	4	1	5
10-14	5	6	11
15-19	2	1	3
20-24			
25-34	1		1
35-44	1		1
45-54	1		1
55-64			
65-74		1	1
75-over			
Not Stated			
TOTAL	15	9	24

# PART IV

## MOTORCYCLE INFORMATION

TABLE 1  
MOTORCYCLE ACCIDENT SUMMARY, 1970-1977

	1970	1971	1972	1973	1974	1975	1976	1977
Total Motorcycle-Involved Accidents	1,269	1,689	2,013	2,411	2,400	2,400	2,460	2,718
Fatal Motorcycle-Involved Accidents	40	48	52	63	51	62	61	88
Personal Injury Motorcycle-Involved Accidents	1,005	1,318	1,583	1,890	1,865	1,818	1,862	2,120
Persons Killed In Motorcycle-Involved Accidents	43	51	55	65	54	72	62	94
Killed on Motorcycles:								
Drivers	34	43	50	56	43	61	55	85
Passengers	6	5	4	7	8	2	2	9
Pedestrians Killed in Motorcycle-Involved Accidents	1	1	1	1	2	1	2	0
Bicyclists Killed in Motorcycle-Involved Accidents	0	1	0	1	0	0	1	0
Others Killed in Motorcycle-Involved Accidents:								
Drivers	2	0	0	0	1	2	1	0
Passengers	0	1	0	0	0	6	1	0
Persons Injured in Motorcycle-Involved Accidents	1,220	1,628	1,972	2,334	2,245	2,247	2,266	2,564
Pedestrians Injured in Motorcycle Accidents	22	38	25	31	25	18	28	20
Bicyclists Injured in Motorcycle-Involved Accidents	15	27	27	36	36	24	15	22
Number of Licensed Operators	N.A.	N.A.	N.A.	55,377	91,024	127,081	152,138	172,223
Number of Registered Motorcycles	71,914	90,150	103,286	119,227	138,193	136,256	143,237	151,763
Rates:								
Motorcycle Injuries/Motorcycles Fatalities	29.6	32.6	35.6	36.0	42.8	35.0	39.0	27.8
All Injuries/All Fatalities	39.0	38.3	40.7	41.8	46.4	54.0	51.3	52.8
All Motorcycle Crashes/Fatal Motorcycle Crashes	31.7	35.2	38.7	38.3	47.1	38.7	40.3	30.9
All Crashes/Fatal Crashes	121.8	123.4	128.6	123.0	140.5	181.8	161.7	161.4
Fatalities Per 10,000 Motorcycle Registrations	5.6	5.3	5.2	5.3	3.7	4.6	4.0	6.2
Injuries Per 10,000 Motorcycle Registrations	164.5	173.3	185.9	190.2	158.0	161.8	146.2	166.2

Helmet Law  
Eye Protection and Lights-on Law  
Helmet Law Repeal

May 1, 1968  
August 1, 1975  
April 7, 1977

# PART V RAILROAD CROSSING INFORMATION

TABLE 1

## RAILROAD CROSSING FATAL CRASHES, FATALITIES, 1968-1977

	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
<b>Fatal Crashes</b>	38	40	34	30	31	22	26	19	12	22
<b>Fatalities</b>	52	51	54	41	36	29	29	21	14	26

# PART VI

## SNOWMOBILE INFORMATION

TABLE 1

SNOWMOBILE CRASHES, INJURIES, FATALITIES, 1969-1977\*

	1969	1970	1971	1972	1973	1974	1975	1976	1977
All Crashes	70	117	148	139	149	112	232	92	163
Fatal Crashes	2	3	7	19	10	4	10	2	6
Personal Injury Crashes	48	82	92	76	90	60	136	50	99
Property Damage Crashes	20	32	49	44	49	48	86	40	58
Fatalities	3	3	8	19	11	5	13	2	6
Injuries	61	100	129	94	119	70	169	57	123

\*This data reflects only roadway related snowmobile crashes. The Minnesota Department of Natural Resources collects data for snowmobile crashes occurring off the roadway.

# PART VII

## SCHOOL BUS INFORMATION

TABLE 1

### SCHOOL BUSES INVOLVED IN CRASHES, 1968-1977

	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
Total Number of School Buses Involved in Crashes	312	405	395	397	462	421	539	708	599	724
Number of School Buses Involved in Personal Injury Crashes	83	78	89	95	103	116	148	154	119	162
Number of School Buses Involved in Fatal Crashes	3	2	2	2	3	4	6	2	9	1

# PART VIII

## HOLIDAY INFORMATION

TABLE 1

### HOLIDAY ACCIDENT SUMMARY, 1972-1977

	Year	Hours	Total	Fatal	Personal Injury	Property Damage	Killed	Injured
MEMORIAL DAY	1972	78	876	11	280	585	16	489
	1973	78	840	11	264	565	11	439
	1974	78	702	6	239	457	9	374
	1975	78	871	11	286	574	13	503
	1976	78	875	7	281	587	7	471
	1977	78	846	8	258	588	8	406
JULY 4TH	1972	102	1,206	17	361	828	18	568
	1973	30	356	7	130	219	7	220
	1974	102	1,000	11	311	678	11	474
	1975	78	791	14	246	531	19	441
	1976	78	942	11	293	638	11	505
	1977	78	923	18	274	649	19	453
LABOR DAY	1972	78	914	19	295	600	23	481
	1973	78	941	8	301	632	9	517
	1974	78	769	15	248	506	17	426
	1975	78	807	9	227	571	9	363
	1976	78	899	9	285	605	10	480
	1977	78	758	7	293	465	10	496
THANKSGIVING	1972	102	1,191	11	318	862	13	519
	1973	102	1,195	14	314	867	20	518
	1974	102	1,255	9	275	971	10	434
	1975	102	1,931	3	326	1,602	3	513
	1976	102	1,508	9	342	1,157	11	545
	1977	102	2,010	7	370	1,640	7	598
CHRISTMAS	1972	78	1,223	8	301	914	8	494
	1973	102	1,764	15	380	1,369	15	593
	1974	30	261	1	48	212	1	72
	1975	30	481	1	86	394	1	130
	1976	78	619	5	136	478	6	232
	1977	78	879	3	212	667	3	373
NEW YEAR'S	1972	78	984	6	178	800	6	291
	1973	102	1,507	8	323	1,176	9	487
	1974	30	391	2	100	289	2	182
	1975	30	506	5	120	381	6	201
	1976	78	932	4	206	722	4	318
	1977	78	1,562	6	312	1,250	6	500

## PART IX

### TEENAGE DRIVER INFORMATION

TABLE 1  
LICENSED DRIVERS BY AGE, 1972-1977

	15-19	OVER 19	PERCENT OF DRIVERS 15-19
1972	290,750	2,324,171	12.5
1973	288,506	2,166,773	13.3
1974	290,620	2,219,757	13.1
1975	300,906	2,251,699	13.4
1976	307,481	2,334,543	13.2
1977	315,138	2,381,533	13.2

TABLE 2  
CRASHES INVOLVING TEENAGE DRIVERS

	NUMBER OF ACCIDENTS				NUMBER OF PERSONS INJURED	
	All Accidents	Fatal	Personal Injury	Property Damage	Total Killed	Total Injured
Teenage Involved Accidents	33,149	202	8,955	23,992	246	14,182
All Accidents	119,754	742	29,800	89,212	856	45,200



## PART X

### DRINKING DRIVERS AND PEDESTRIANS

Minnesota Statute 169.09, subdivision 11, requires that all drivers who die within four hours of a motor vehicle accident be tested to determine the percentage concentration of alcohol in their blood. In addition, the law requires that all pedestrians 16 years of age or older be tested to determine their blood alcohol concentration if they die within four hours of a traffic accident.

TABLE 1

DRINKING DRIVER FATALITY SUMMARY, 1969-1977

1969	%	1970	%	1971	%	1972	%	1973	%	1974	%	1975	%	1976	%	1977	%	
988		987		1024		1031		1024		852		777		809		856		People were killed in motor vehicle crashes.
504	51.0	488	49.5	510	49.9	567	54.9	561	54.8	501	58.8	431	55.5	478	59.1	471	55.0	Drivers were killed
270	53.5	241	49.4	259	50.8	398	70.2	406	72.4	337	67.3	230	53.4	289	60.5	272	57.6	Fatally injured drivers were tested for alcohol.
147	54.5	142	59.0	155	59.8	229	57.5	240	59.1	202	60.0	142	61.7	185	64.0	164	60.5	Of those tested had alcohol in their systems (called positive cases)
122	45.2	122	50.6	126	48.7	177	44.5	206	50.7	171	52.5	114	49.6	154	53.3	144	53.1	Of those tested were at or above the 0.10% level of intoxication.
122	82.9	122	85.9	126	81.3	177	77.3	206	85.8	171	85.2	114	80.3	154	83.2	144	87.8	Of the positive cases were at or above the 0.10% level of intoxication.
137	93.1	136	95.8	141	91.0	210	91.7	227	94.6	187	92.6	124	87.3	173	93.5	146	89.0	Of the positive cases were male
10	6.9	6	4.2	14	9.0	19	8.3	13	5.4	15	7.4	18	12.7	12	6.5	18	11.0	Of the positive cases were female
46	31.3	42	29.5	48	31.0	56	31.6	85	41.3	68	33.6	41	35.1	56	36.4	48	34.3	Of the positive cases which tested 0.10% or higher occurred between midnight and 3 a.m.
63	42.9	58	40.8	75	48.4	100	43.7	105	43.8	93	46.0	81	57.0	90	48.6	84	51.2	Of the positive cases were between the ages of 16 and 24
62	98.4	49	84.5	60	80.0	68	68.0	85	80.9	79	84.9	63	77.8	72	80.0	73	86.9	Of the 16 to 24 year olds testing positive were at or above 0.10%
33	22.4	22	15.5	34	21.9	38	16.6	21 <sup>1</sup>	8.8	9 <sup>1</sup>	4.5	9 <sup>1</sup>	6.3	26 <sup>2</sup>	14.1	14 <sup>2</sup>	8.5	Of the positive cases were under the legal drinking age

<sup>1</sup> The age of majority was legally lowered to 18 years of age on June 1, 1973.

<sup>2</sup> The legal drinking age was raised to 19 years of age on September 1, 1976.

TABLE 2  
DRIVER FATALITIES' LEVEL OF INTOXICATION BY AGE

Age	Total Killed	Total Tested	Positive	Blood Alcohol Concentration(%)					Percent Positive of Total Tested in Age Group	Percent of All Positive
				.010- .049	.050- .099	.100- .149	.150- .249	.250- over		
15 and below	7	0								
16	10	4	2		1	1			50.0	1.2
17	23	12	6		2	3	1		50.0	3.7
18	29	19	11	3		4	3	1	57.9	6.7
19	40	22	14	1		5	5	3	63.6	8.5
20	23	12	11			3	7	1	91.7	6.7
21 - 25	100	62	47	2	2	6	28	9	75.8	28.7
26 - 30	54	33	28	1	1	3	15	8	84.9	17.1
31 - 35	38	23	13		1	3	5	4	56.5	7.9
36 - 40	24	15	6			1	2	3	40.0	3.7
41 - 45	18	11	6		1		5		54.6	3.7
46 - 50	13	8	4			1	2	1	50.0	2.4
51 - 55	14	10	3		1		1	1	30.0	1.8
56 - 60	17	10	5		2		2	1	50.0	3.1
61 - 65	14	10	4		1		2	1	40.0	2.4
66 and above	46	21	4	1		1	2		19.1	2.4
UNKNOWN	1	0								
TOTALS	471	272	164	8	12	31	80	33	60.3	

TABLE 3  
DRIVER FATALITIES' LEVEL OF INTOXICATION BY MONTH

MONTH	Total Killed	Total Tested	Total Positive	BLOOD ALCOHOL CONCENTRATION					Percent of All Positive
				.010- .049	.050- .099	.100- .149	.150- .249	.250- Over	
January	18	15	9			1	4	4	5.5
February	22	13	8		1	1	5	1	4.9
March	15	10	4				3	1	2.4
April	33	22	16	1	2	2	8	3	9.8
May	51	28	17	1	1	7	5	3	10.4
June	51	28	18		2	2	10	4	11.0
July	69	27	17			6	7	4	10.4
August	46	22	11		1	2	6	2	6.7
September	39	14	11	1		2	7	1	6.7
October	56	45	27	3	3	4	11	6	16.5
November	44	30	17	1	2	2	9	3	10.4
December	27	18	9	1		2	5	1	5.5
Total	471	272	164	8	12	31	80	33	

TABLE 4  
DRIVER FATALITIES' LEVEL OF INTOXICATION BY ROAD CLASS

Road Class	Total Killed	Total Tested	Total Positive	BLOOD ALCOHOL CONCENTRATION					Percent of All Positive
				.010- .049	.050- .099	.100- .149	.150- .249	.250- Over	
Interstate Rural	6	1	0						
Interstate Urban	11	8	7				5	2	4.3
Trunk Hwy. Rural	183	111	68	5	6	10	29	18	41.5
Trunk Hwy. Urban	59	39	20			5	10	5	12.2
County Road	160	82	48	1	4	9	29	5	29.3
City Street	30	20	12	1	1	3	4	3	7.3
Township Roads	22	11	9	1	1	4	3		5.5
Total	471	272	164	8	12	31	80	33	

TABLE 5

DRIVER FATALITIES' LEVEL OF INTOXICATION BY TIME OF DAY

Time	Total Killed	Total Tested	Total Positive	BLOOD ALCOHOL CONCENTRATION					Percent Of All Positive
				.010- .049	.050- .099	.100- .149	.150- .249	.250- Over	
Midnight-									
3 A.M.	95	62	50		2	15	28	5	30.5
3 A.M.-									
6 A.M.	24	12	8				8		4.9
6 A.M.-									
9 A.M.	33	19	4			1	3		2.4
9 A.M.-									
Noon	28	12	1				1		.6
Noon-									
3 P.M.	41	22	9	3	2		2	2	5.5
3 P.M.-									
6 P.M.	84	43	14		1	5	7	1	8.5
6 P.M.-									
9 P.M.	74	42	29	4	4		11	10	17.7
9 P.M.-									
Midnight	84	53	44	1	3	8	17	15	26.8
Unknown	8	7	5			2	3		3.1
TOTAL	471	272	164	8	12	31	80	33	

TABLE 6  
DRINKING PEDESTRIAN FATALITY SUMMARY

1970	%	1971	%	1972	%	1973	%	1974	%	1975	%	1976	%	1977	%	
149		157		132		149		106		121		120		140		Pedestrians were killed in motor vehicle crashes.
41	27.5	44	28.0	67	50.8	73	49.0	46	43.4	45	37.2	58	48.3	62	44.3	Fatally injured pedestrians were tested for alcohol. <sup>3</sup>
20	48.8	30	68.2	31	46.3	30	41.1	28	60.8	26	57.8	25	43.1	32	51.6	Of those tested had alcohol in their systems (called positive cases)
14	34.2	23	52.3	26	38.8	23	31.5	25	54.4	22	48.9	22	37.9	32	51.6	Of those tested were at or above the 0.10 level of intoxication
14	70.0	23	76.7	26	83.9	23	76.7	25	89.2	22	84.6	22	88.0	32	100.0	Of the positive cases were at or above the 0.10% level of intoxication
3	15.0	10	33.3	4	12.9	4	3.3	5	17.8	2	7.7	4	16.0	6	18.8	Of the positive cases were 65 or older
3	15.0	5	16.7	9	29.0	3 <sup>1</sup>	10.0	3 <sup>1</sup>	10.7	1 <sup>1</sup>	3.8	7 <sup>2</sup>	28.0	15 <sup>2</sup>	46.9	Of the positive cases were under the legal drinking age.

1 The age of majority was legally lowered to 18 years of age on June 1, 1973.

2 The legal drinking age was raised to 19 years of age on September 1, 1976.

3 Only pedestrians 16 years of age or older are required to be tested for alcohol. Thus, although the percentage given reflects the total number of pedestrians killed, those under age 16 would not have been tested in any case.

TABLE 7

PEDESTRIAN FATALITIES' LEVEL OF INTOXICATION BY AGE

Age	Total Killed	Total Tested	Positive	Blood Alcohol Concentration(%)					Percent Positive of Total Tested in Age Group	Percent of All Positive
				.010-.049	.050-.099	.100-.149	.150-.249	.250-over		
15 and below	33	3	0			2			100.0	6.1
16	2	2	2				2		100.0	6.1
17	3	2	2						100.0	3.0
18	2	1	1	1					50.0	3.0
19	4	2	1					1	100.0	3.0
20	6	1	1			1			100.0	18.2
21 - 25	9	6	6	1		1	1	3	75.0	9.1
26 - 30	6	4	3				2	1	100.0	6.1
31 - 35	4	2	2				1	1	33.3	6.1
36 - 40	4	3	1				1		40.0	6.1
41 - 45	6	5	2		1			1		
46 - 50	2	1	0							
51 - 55	2	1	1					1	100.0	3.0
56 - 60	7	6	2					2	33.3	6.1
61 - 65	8	4	2		1			1	50.0	6.1
66 and above	38	19	6	1		2	3		31.6	18.2
UNKNOWN	4	3	1		1				33.3	3.0
TOTALS	140	65	33	3	3	6	10	11	50.8	

TABLE 8  
PEDESTRIAN FATALITIES' LEVEL OF INTOXICATION BY MONTH

MONTH	Total Killed	Total Tested	Total Positive	BLOOD ALCOHOL CONCENTRATION					Percent of All Positive
				.010- .049	.050- .099	.100- .149	.150- .249	.250- Over	
January	17	7	3			1	1	1	9.1
February	11	6	3				1	2	9.1
March	5	4	2				2		6.1
April	5	2	2			2			6.1
May	12	5	2	1			1		6.1
June	16	6	4	2	1		1		12.1
July	11	7	4					4	12.1
August	9	5	3				1	2	9.1
September	15	3	2				1	1	6.1
October	13	5	4			3	1		12.1
November	12	7	1				1		3.0
December	14	8	3		2			1	9.1
Total	140	65	33	3	3	6	10	11	

TABLE 9  
PEDESTRIAN FATALITIES' LEVEL OF INTOXICATION BY ROAD CLASS

Road Class	Total Killed	Total Tested	Total Positive	BLOOD ALCOHOL CONCENTRATION					Percent of All Positive
				.010- .049	.050- .099	.100- .149	.150- .249	.250- Over	
Interstate Rural	1	1	1				1		3.0
Interstate Urban	6	5	2					2	6.1
Trunk Hwy. Rural	22	11	9	2		1	4	2	27.3
Trunk Hwy. Urban	36	18	8	1	2	1	1	3	24.2
County Road	48	22	8			4	2	2	24.2
City Street	25	8	5		1		2	2	15.2
Township Roads	2	0							
Total	140	65	33	3	3	6	10	11	



TABLE 10

PEDESTRIAN FATALITIES' LEVEL OF INTOXICATION BY TIME OF DAY

Time	Total Killed	Total Tested	Total Positive	BLOOD ALCOHOL CONCENTRATION					Percent Of All Positive
				.010- .049	.050- .099	.100- .149	.150- .249	.250- Over	
Midnight									
3 A.M.	17	14	12			1	5	6	36.4
3 A.M.									
6 A.M.	8	5	4	1		2	1		12.1
6 A.M.									
9 A.M.	7	1	0						
9 A.M.									
Noon	14	7	1	1					3.0
Noon									
3 P.M.	11	4	0						
3 P.M.									
6 P.M.	23	5	1			1			3.0
6 P.M.									
9 P.M.	34	15	7	1	2	1		3	21.2
9 P.M.									
Midnight	23	14	8		1	1	4	2	24.3
Unknown	3	0							
TOTAL	140	65	33	3	3	6	10	11	