

John Nallan

MINNESOTA
1978

MOTOR VEHICLE CRASH FACTS

MINNESOTA DEPARTMENT
OF PUBLIC SAFETY



AN EQUAL OPPORTUNITY EMPLOYER

SAINT PAUL • 55155

MINNESOTA
MOTOR VEHICLE
CRASH FACTS
1978

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

TABLE OF CONTENTS

INTRODUCTION	1
PART I SUMMARY INFORMATION	
Table 1.1: Crash, Fatality and Injury Rates, 1969-1978.....	4
Table 1.2: 1978 Traffic Toll Compared With 1973-1977 Average.....	5
Table 1.3: Fatal Crashes, Fatalities, All Crashes by Month...	5
Table 1.4: Fatal Crashes, All Crashes by Day of Week.....	6
Figure 1.1: Fatal Crashes by Hour of Day.....	6
Figure 1.2: Crashes by Hour of Day.....	7
Table 1.5: Crashes, Fatal Crashes by Time of Day by Day of Week.....	8
Table 1.6: Fatalities and Injuries by Type of Crash.....	9
Table 1.7: Crashes, Killed and Injured by County for 1978 Compared With 1973-1977 Average.....	10
Table 1.8: County Crash Report.....	12
Table 1.9: Location of Crashes by Population.....	14
Table 1.10: Location of Crashes by Urban or Rural Area.....	14
Table 1.11: Crashes by City Groups.....	15
Table 1.12: Crashes by Weather Conditions.....	18
Table 1.13: Crashes by Light Conditions.....	18
Table 1.14: Crashes by Road Surface Conditions.....	19
Table 1.15: Road Mileage Summary.....	19
Table 1.16: Crashes by Type of Road Classification.....	20
Table 1.17: Mileage and Crash Distribution by Type of Roadway.....	20
Table 1.18: Age and Sex of Fatalities.....	21
Table 1.19: Age and Sex of Persons Injured.....	22

Table 1.20:	Age Distribution of Licensed Drivers and Their Involvement in Crashes.....	23
Table 1.21:	Age and Sex of Drivers in Fatal Crashes.....	24
Table 1.22:	Driver License Summary by Age and Sex, 1972-1978.....	24
Table 1.23:	Apparent Contributing Factors in Crashes, Fatal Crashes.....	25
Table 1.24:	Vehicle Movement in Multi-Vehicle Intersection Crashes.....	26
Table 1.25:	Vehicle Movement in Multi-Vehicle Non-Intersection Crashes.....	27
Table 1.26:	Motor Vehicle Registrations.....	28
Table 1.27:	Types of Vehicles in Crashes.....	29

PART II PEDESTRIAN INFORMATION

Table 2.1:	Pedestrian Crashes, Injuries, Fatalities, 1969-1978.....	30
Table 2.2:	Pedestrian Fatalities by Age and Sex.....	31
Table 2.3:	Vehicle Movement in Pedestrian Accidents.....	32
Figure 2.1:	Fatal Pedestrian Crashes by Hour of Day.....	32
Table 2.4:	Prior Action of Pedestrian Fatalities by Age.....	33

PART III BICYCLIST INFORMATION

Table 3.1:	Bicycle-Involved Crashes, Injuries, Fatalities, 1969-1978.....	34
Table 3.2:	Bicyclist Fatalities by Age and Sex.....	35
Table 3.3	Prior Action of Bicyclist Fatalities.....	35
Table 3.4:	Contributing Factors in Bicycle-Involved Fatal Accidents.....	36

PART IV MOTORCYCLE INFORMATION

Table 4.1: Motorcycle-Involved Accidents by Type.....	37
Table 4.2: Motorcycle Accident Summary, 1970-1978.....	38

PART V RAILROAD INFORMATION

Table 5.1: Railroad Crossing Fatal Crashes, Fatalities, 1969-1978.....	39
---	----

PART VI SCHOOL BUS INFORMATION

Table 6.1: School Buses Involved in Crashes, 1969-1978.....	40
Table 6.2: School Bus-Involved Accidents by Type.....	41

PART VII HOLIDAY INFORMATION

Table 7.1: Holiday Accident Summary, 1973-1978.....	42
Table 7.2: 1978 Holiday Accidents Compared With Non-Holiday Periods.....	43

PART VIII TEENAGE DRIVER INFORMATION

Table 8.1: Number and Percent of Licensed Teenage Drivers, 1974-1978.....	44
Table 8.2: Comparison of Drivers 19 or Younger With Drivers 20 or Older by Accident Type.....	45

PART IX HIT-AND-RUN ACCIDENTS

Table 9.1: Hit-and-Run Accidents by Type.....	46
---	----

PART X DRINKING DRIVERS AND PEDESTRIANS

Table 10.1: Drinking Driver Fatality Summary, 1969-1978.....	48
Table 10.2: Accident Types of All Accidents Compared With Fatal Accidents Involving an Alcohol-Positive Driver Fatality.....	49
Table 10.3: Driver Fatalities' Level of Intoxication by Age.....	50
Table 10.4: Driver Fatalities' Level of Intoxication by Month.....	51
Table 10.5: Driver Fatalities' Level of Intoxication by Road Class.....	51
Table 10.6: Driver Fatalities' Level of Intoxication by Time of Day.....	52
Table 10.7: Drinking Pedestrian Fatality Summary, 1970-1978.....	53
Table 10.8: Pedestrian Fatalities' Level of Intoxication by Age.....	54
Table 10.9: Pedestrian Fatalities' Level of Intoxication by Month.....	55
Table 10.10: Pedestrian Fatalities' Level of Intoxication by Road Class.....	55
Table 10.11: Pedestrian Fatalities' Level of Intoxication by Time of Day.....	56

INTRODUCTION

The 1978 edition of Minnesota Motor Vehicle Crash Facts has been produced by the Office of Traffic Safety, Minnesota Department of Public Safety, in accordance with Minnesota Statutes, Section 169.10. The 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.

In 1978, 980 people were killed and 50,332 were injured in 118,833 crashes throughout the state. Over 2.9 million vehicles traveled 28.8 billion miles on 127,918 miles of roadways. During 1978, 2,696,620 people held Minnesota driving licenses.

The total economic loss resulting from motor vehicle accidents in Minnesota was in excess of three hundred ninety-three million dollars. This figure is calculated from costs estimated for 1977 by the National Safety Council for fatalities, injuries, and damage resulting from fatal, personal injury and property damage crashes. The total dollar value is determined as follows:

980 Deaths	@	\$135,000	=	\$132,300,000
8,965 Incapacitating Injuries	@	11,900	=	106,683,500
19,474 Non-incapacitating Injuries	@	3,500	=	68,159,000
21,893 Possible Injuries	@	880	=	19,265,840
84,300 Property Damage Accidents	@	800	=	<u>67,440,000</u>
	TOTAL		=	\$393,848,340

This estimate is based on the calculable costs of wage loss, medical expenses, insurance costs, and property damage.

Examination of the 1978 crash data shows that:

- * Three people were killed each day.
- * 138 people were injured each day.
- * 326 accidents occurred each day.
- * One pedestrian was killed every three days.
- * One motorcyclist was killed every two days (April-November).
- * One bicyclist was killed every 11 days (April-November).
- * The economic loss due to traffic accidents amounted to \$1,079,036.55 each day.

This report is divided into ten parts. The first examines the crashes, vehicles, and drivers; the others review pedestrians, motorcyclists, holidays, and other selected types of motor vehicle crashes.

PART I

SUMMARY INFORMATION

MINNESOTA MOTOR VEHICLE CRASH FACTS

1978

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

TABLE 1.1
CRASH, FATALITY AND INJURY RATES, 1969-1978

	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978
Traffic Crashes	105,235	99,404	104,030	111,180	107,956	102,964	123,206	116,390	119,754	118,833
Traffic Fatalities	988	987	1,024	1,031	1,024	852	777	809	856	980
Traffic Injuries	35,760	38,538	39,242	42,009	42,772	39,537	41,931	41,580	45,200	50,332
Registered Motor Vehicles (Millions of Vehicles)	2.19	2.26	2.36	2.41	2.51	2.67	2.69	2.92	2.77	2.90
Licensed Drivers (Millions of Drivers)	2.03	2.26	2.33	2.50	2.38	2.44	2.51	2.57	2.63	2.64
Vehicular Miles Traveled (Billions of Miles)	20.8	22.4	23.4	24.9	25.2	24.6	25.6	27.0	28.1	28.8
Fatality Rate Per Hundred Million Vehicle Miles Traveled	4.75	4.41	4.38	4.14	4.07	3.47	3.03	3.00	3.05	3.4
Fatality Rate Per 100,000 Registered Vehicles	45.2	43.7	43.5	42.7	40.5	32.0	28.9	27.7	30.9	33.8
Fatality Rate Per 100,000 Population	26.3	25.9	26.5	26.5	26.3	21.8	19.8	20.4	21.6	24.5
Injury Rate Per Hundred Million Vehicle Miles Traveled	172	172	168	169	170	161	164	154	161	175
Injury Rate Per 100,000 Registered Vehicles	1,633	1,705	1,663	1,743	1,691	1,481	1,559	1,424	1,632	1,737
Injury Rate Per 100,000 Population	952	1,013	1,017	1,078	1,098	1,009	1,068	1,049	1,144	1,256
Crash Rate Per Hundred Million Vehicle Miles Traveled	506	444	445	447	429	419	481	432	426	412
Crash Rate Per 100,000 Registered Vehicles	4,870	4,446	4,464	4,613	4,265	3,862	4,580	3,980	4,323	4,100
Crash Rate Per 100,000 Population	2,800	2,612	2,695	2,858	2,770	2,628	3,143	2,936	3,032	2,965

TABLE 1.2
1978 TRAFFIC TOLL COMPARED WITH 1973-1977 AVERAGE

	1973-1977 AVERAGE	1978
Deaths	864	980
Injuries	42,204	50,332
Crashes	114,034	118,833
Registered Motor Vehicles	2,711,950	2,898,029
Licensed Drivers	2,576,771	2,696,620
Vehicle Miles Traveled (Billions)	26.1	28.8
Fatality Rate Per 100 Million Vehicle Miles Traveled	3.32	3.40

TABLE 1.3
FATAL CRASHES, FATALITIES, ALL CRASHES BY MONTH

MONTH	FATAL CRASHES	FATALITIES	ALL CRASHES
January	46	54	11,853
February	37	40	9,542
March	52	57	8,580
April	64	73	7,821
May	84	99	8,914
June	90	98	9,410
July	98	115	9,186
August	97	109	9,752
September	88	97	9,040
October	66	87	9,162
November	63	76	11,474
December	61	75	14,099
TOTAL	846	980	118,833

TABLE 1.4
FATAL CRASHES, ALL CRASHES BY DAY OF WEEK

DAY	FATAL CRASHES	ALL CRASHES
Sunday	160	14,642
Monday	84	15,230
Tuesday	89	14,617
Wednesday	93	15,945
Thursday	108	16,934
Friday	131	22,840
<u>Saturday</u>	<u>181</u>	<u>18,625</u>
TOTAL	846	118,833

FIGURE 1.1
FATAL CRASHES BY HOUR OF DAY

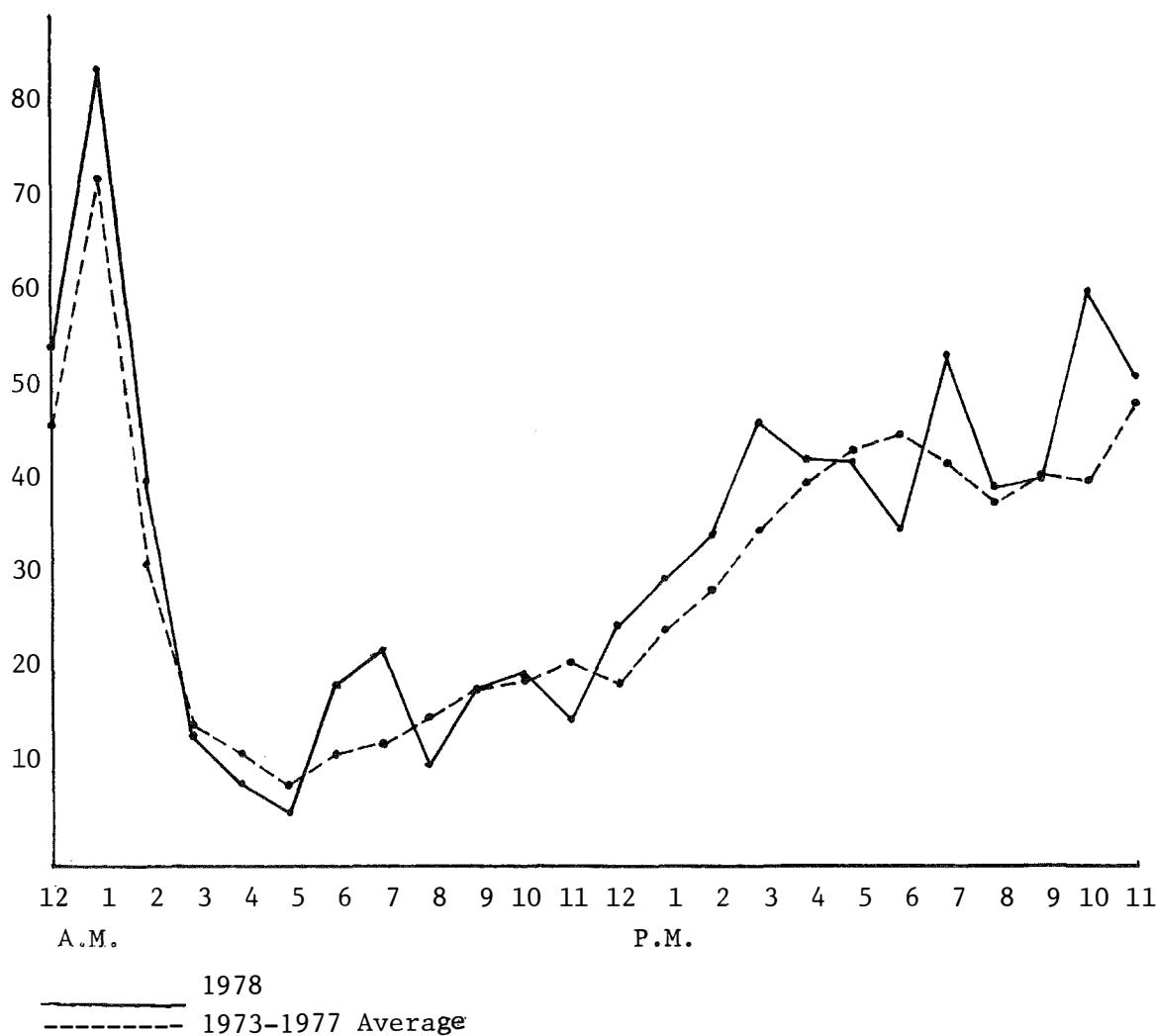


FIGURE 1.2
ALL CRASHES BY HOUR OF DAY

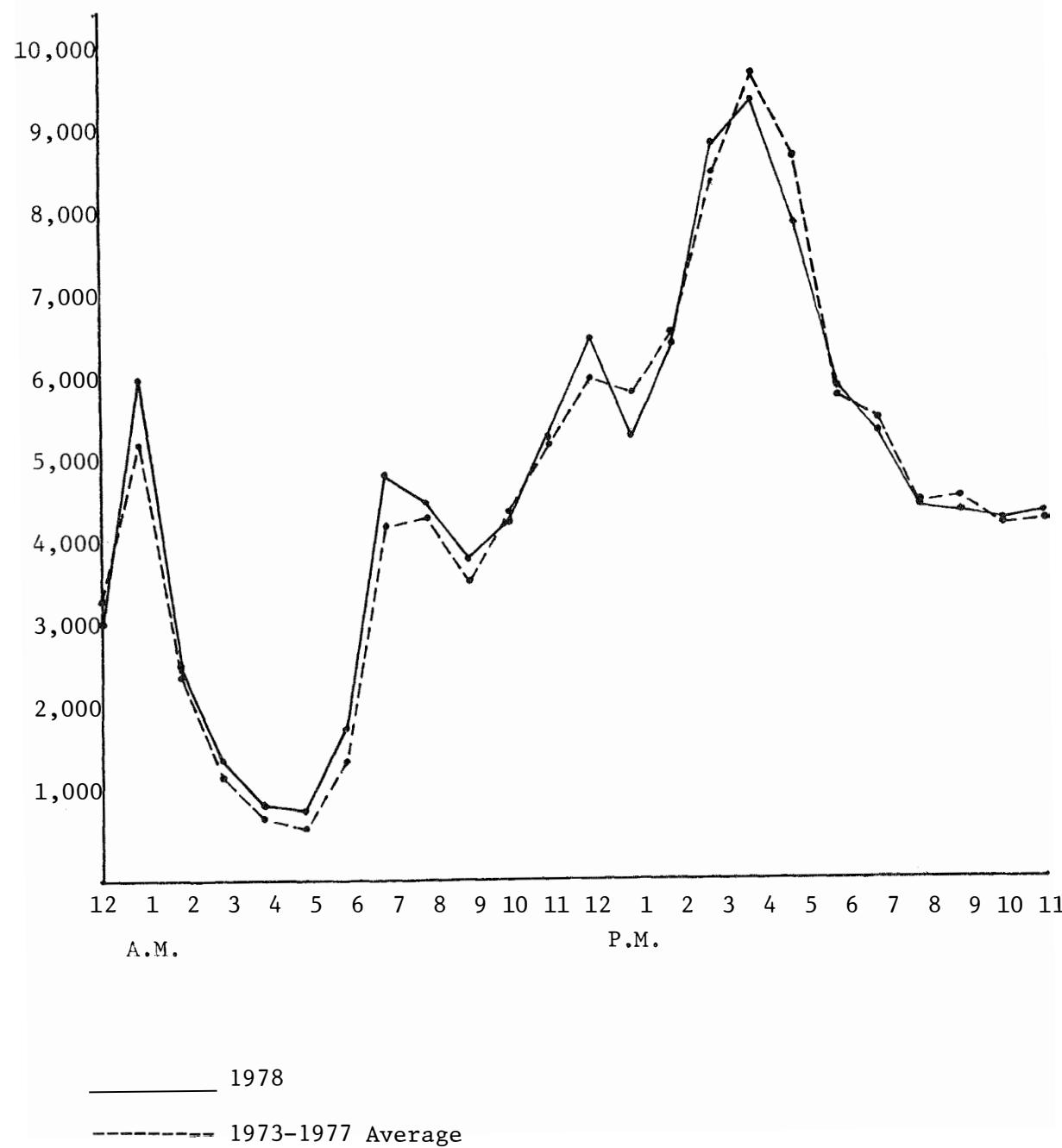


TABLE 1.5

CRASHES, FATAL 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	3,147	55	290	5	226	2	281	1	334	5	380	8	848	21	788	13
1:00	6,035	84	246	1	411	4	509	6	615	6	823	8	1,689	21	1,742	38
2:00	2,550	41	120	1	155	4	153	0	210	3	302	7	808	9	802	17
3:00	1,437	14	68	1	87	0	98	0	126	1	134	1	429	5	495	6
4:00	875	8	56	1	70	2	54	0	79	0	93	2	258	1	265	2
5:00	745	6	66	0	74	0	65	2	72	1	102	0	189	3	177	0
6:00	1,778	19	266	3	303	1	255	2	277	5	348	3	165	4	164	1
7:00	4,825	23	892	3	880	5	820	2	916	6	996	2	182	4	139	1
8:00	4,580	11	815	2	795	1	747	1	777	3	953	2	322	2	171	0
9:00	3,809	18	597	1	563	2	533	2	558	5	707	2	489	4	362	2
10:00	4,407	20	596	3	561	1	612	6	610	2	779	2	779	1	470	5
11:00	5,318	16	665	3	635	2	750	3	816	1	973	3	910	3	569	1
Noon	6,530	26	834	2	805	6	886	4	943	1	1,132	3	1,127	3	803	7
1:00	5,303	31	684	5	626	4	709	3	729	3	970	5	871	5	714	6
2:00	6,499	35	879	3	835	3	910	6	872	3	1,241	8	955	8	807	4
3:00	8,762	47	1,243	7	1,215	2	1,352	6	1,386	12	1,802	4	950	9	814	7
4:00	9,444	43	1,458	4	1,375	12	1,478	6	1,463	7	2,054	8	898	2	718	4
5:00	7,915	43	1,277	5	1,109	6	1,202	3	1,220	7	1,640	11	782	7	685	4
6:00	5,877	36	860	6	726	2	773	3	814	8	1,209	6	835	6	660	5
7:00	5,485	54	719	10	626	3	804	10	778	5	1,095	9	852	14	611	3
8:00	4,516	40	508	3	500	5	618	5	639	4	960	8	769	7	522	8
9:00	4,454	41	528	3	512	4	599	4	618	3	939	11	744	6	514	10
10:00	4,363	61	452	5	504	15	537	8	642	7	971	1	796	18	461	7
11:00	4,437	52	413	4	408	3	472	8	588	6	1,141	15	1,000	13	415	3
Not Stated	5,742	22	697	3	617	0	728	2	852	4	1,096	2	978	5	774	6
TOTAL ACCIDENTS	118,833	846	15,229	84	14,618	89	15,945	93	16,934	108	22,840	131	18,625	181	14,642	160

TABLE 1.6
FATALITIES AND INJURIES BY TYPE OF CRASH

TYPE OF CRASH	NUMBER OF CRASHES				NUMBER OF PERSONS		FATALITY RATE PER 1,000 CRASHES
	ALL	FATAL	PERSONAL INJURY	PROPERTY DAMAGE	KILLED	INJURED	
Collision With Other Motor Vehicle	77,755	378	20,504	56,873	460	33,308	5.9
Collision With Motor Vehicle In Other Roadway	300		76	224		129	
Collision With Parked Motor Vehicle	13,254	19	1,679	11,556	19	2,155	1.4
Collision With Railroad Train	315	25	117	173	34	173	107.9
Collision With Bicyclist	1,154	22	1,083	49	22	1,139	19.1
Collision With Pedestrian	1,796	107	1,672	17	110	1,784	61.2
Collision With Animal	1,887	2	135	1,750	3	160	1.6
Collision With Fixed Object	14,776	165	4,827	9,784	194	6,476	13.1
Collision With Other Object	604	2	172	430	3	232	5.0
OverturN	5,470	100	2,785	2,585	104	3,994	19.0
Fire/Explosion	71		7	64		10	
Submersion	49	4	17	28	8	23	163.2
Other	1,402	22	612	768	23	749	16.4
TOTAL	118,833	846	33,686	84,301	980	50,332	8.2

TABLE 1.7

CRASHES, KILLED AND INJURED BY COUNTY
FOR 1978 COMPARED WITH 1973-1977 AVERAGE

COUNTY	ALL CRASHES		KILLED		INJURED	
	Average 1973-1977	1978	Average 1973-1977	1978	Average 1973-1977	1978
Aitkin	260	302	5	7	120	158
Anoka	4,348	4,906	25	31	1,996	2,348
Becker	620	658	11	12	244	341
Beltrami	693	731	9	13	233	314
Benton	560	656	7	13	287	341
Big Stone	178	182	1	7	51	66
Blue Earth	1,947	1,844	12	11	632	668
Brown	825	821	8	6	295	383
Carlton	603	627	7	16	239	282
Carver	822	952	13	21	398	542
Cass	370	406	8	9	161	210
Chippewa	338	321	6	5	102	142
Chisago	495	568	8	4	208	287
Clay	1,646	1,689	14	11	434	554
Clearwater	133	125	4	1	52	64
Cook	117	128	3	0	65	64
Cottonwood	299	293	5	6	98	85
Crow Wing	1,217	1,206	13	30	427	513
Dakota	4,440	5,089	31	25	1,847	2,387
Dodge	247	326	5	3	116	178
Douglas	693	733	5	10	236	345
Faribault	377	439	7	8	155	189
Fillmore	388	406	10	8	145	158
Freeborn	1,011	1,009	10	13	351	395
Goodhue	972	1,032	10	13	386	483
Grant	110	127	2	4	51	64
Hennepin	33,460	35,112	100	132	12,049	15,464
Houston	379	389	8	5	149	187
Hubbard	276	270	6	7	128	163
Isanti	340	399	4	12	175	232
Itasca	930	996	13	21	385	468
Jackson	326	323	3	4	125	120
Kanabec	197	231	4	8	94	135
Kandiyohi	1,088	1,008	12	7	326	317
Kittson	106	86	2	1	44	52
Koochiching	439	414	5	4	192	208
Lac Qui Parle	205	208	4	4	77	72
Lake	338	393	5	6	131	185
Lake of the Woods	69	78	1	0	27	30
Le Sueur	492	551	9	4	203	235
Lincoln	133	121	2	4	53	54
Lyon	594	554	8	10	203	205
McLeod	702	659	6	2	250	288
Mahnomen	92	99	2	3	39	43

TABLE 1.7 (continued)

CRASHES, KILLED AND INJURED BY COUNTY
FOR 1978 COMPARED WITH 1973-1977 AVERAGE

COUNTY	ALL CRASHES		KILLED		INJURED	
	Average 1973-1977	1978	Average 1973-1977	1978	Average 1973-1977	1978
Marshall	293	212	7	6	89	86
Martin	620	530	5	6	241	204
Meeker	448	435	6	6	155	186
Mille Lacs	375	480	6	9	162	229
Morrison	717	699	10	16	318	378
Mower	1,079	1,035	9	10	380	405
Murray	189	164	6	3	70	75
Nicollet	610	627	4	10	218	272
Nobles	574	564	5	3	177	214
Norman	128	157	4	7	49	56
Olmsted	2,768	2,832	16	20	1,038	1,096
Otter Tail	979	1,011	14	14	367	449
Pennington	446	390	3	3	136	204
Pine	359	467	10	13	145	199
Pipestone	325	236	5	5	85	79
Polk	969	961	14	9	335	419
Pope	187	169	6	1	61	72
Ramsey	17,565	18,510	55	56	5,863	6,488
Red Lake	97	93	1	0	39	34
Redwood	376	362	5	1	158	172
Renville	409	398	9	11	165	173
Rice	1,161	1,176	14	20	451	525
Rock	246	226	3	5	72	60
Roseau	189	174	3	3	47	48
St. Louis	5,921	5,481	59	53	1,974	2,119
Scott	941	1,096	13	9	432	518
Sherburne	533	591	10	9	252	295
Sibley	284	284	5	0	120	128
Stearns	3,086	3,213	23	28	1,171	1,333
Steele	823	841	8	3	286	329
Stevens	237	241	2	6	80	101
Swift	267	241	5	2	95	84
Todd	416	409	5	10	204	210
Traverse	92	95	2	4	36	44
Wabasha	437	441	9	6	171	197
Wadena	273	263	3	3	86	131
Waseca	420	422	6	5	162	149
Washington	2,142	2,524	23	33	776	1,129
Watonwan	350	298	4	10	123	106
Wilkin	261	214	3	1	87	93
Winona	1,277	1,328	12	15	406	516
Wright	1,004	1,257	16	18	394	600
Yellow Medicine	252	218	3	7	89	107

TABLE 1.8
COUNTY CRASH REPORT

COUNTY	ALL CRASHES	FATAL CRASHES	NUMBER KILLED	PERSONAL INJURY CRASHES	INJURED	PROPERTY DAMAGE CRASHES
Aitkin	302	7	7	102	158	193
Anoka	4,906	27	31	1,543	2,348	3,336
Becker	658	7	12	211	341	440
Beltrami	731	13	13	199	314	519
Benton	656	10	13	206	341	440
Big Stone	182	5	7	39	66	138
Blue Earth	1,844	11	11	461	668	1,372
Brown	821	6	6	242	383	573
Carlton	627	11	16	191	282	425
Carver	952	15	21	325	542	612
Cass	406	7	9	135	210	264
Chippewa	321	4	5	89	142	228
Chisago	568	2	4	169	287	397
Clay	1,689	9	11	361	554	1,319
Clearwater	125	1	1	44	64	80
Cook	128	0	0	41	64	87
Cottonwood	293	5	6	60	85	228
Crow Wing	1,206	26	30	326	513	854
Dakota	5,089	24	25	1,585	2,387	3,480
Dodge	326	2	3	109	178	215
Douglas	733	8	10	213	345	512
Faribault	439	8	8	125	189	306
Fillmore	406	6	8	102	158	298
Freeborn	1,009	11	13	267	395	731
Goodhue	1,032	11	13	316	483	705
Grant	127	4	4	45	64	78
Hennepin	35,112	121	132	10,394	15,464	24,597
Houston	389	4	5	129	187	256
Hubbard	270	5	7	83	163	182
Isanti	399	11	12	138	232	250
Itasca	996	18	21	307	468	671
Jackson	323	3	4	87	120	233
Kanabec	231	7	8	77	135	147
Kandiyohi	1,008	7	7	216	317	785
Kittson	86	1	1	31	52	54
Koochiching	414	4	4	140	208	270
Lac Qui Parle	208	3	4	46	72	159
Lake	393	4	6	119	185	270
Lake of the Woods	78	0	0	18	30	60
Le Sueur	551	3	4	153	235	395
Lincoln	121	3	4	27	54	91
Lyon	554	7	10	150	205	397
McLeod	659	2	2	197	288	460
Mahnomen	99	2	3	29	43	68

TABLE 1.8 (continued)

COUNTY CRASH REPORT

COUNTY	ALL	FATAL	NUMBER	PERSONAL		PROPERTY
	CRASHES	CRASHES	KILLED	INJURY CRASHES	INJURED	DAMAGE CRASHES
Marshall	212	3	6	60	86	149
Martin	530	6	6	133	204	391
Meeker	435	5	6	120	186	310
Mille Lacs	480	8	9	146	229	326
Morrison	699	15	16	243	378	441
Mower	1,035	6	10	279	405	750
Murray	164	3	3	45	75	116
Nicollet	627	10	10	179	272	438
Nobles	564	3	3	148	214	413
Norman	157	5	7	40	56	112
Olmsted	2,832	19	20	765	1,096	2,048
Otter Tail	1,011	14	14	295	449	702
Pennington	390	3	3	142	204	245
Pine	467	9	13	125	199	333
Pipestone	236	4	5	56	79	176
Polk	961	9	9	267	419	685
Pope	169	1	1	48	72	120
Ramsey	18,510	54	56	4,565	6,488	13,891
Red Lake	93	0	0	24	34	69
Redwood	362	1	1	121	172	240
Renville	398	11	11	109	173	278
Rice	1,176	17	20	358	525	801
Rock	226	3	5	40	60	183
Roseau	174	3	3	34	48	137
St. Louis	5,481	46	53	1,455	2,119	3,980
Scott	1,096	8	9	342	518	746
Sherburne	591	7	9	182	295	402
Sibley	284	0	0	85	128	199
Stearns	3,213	24	28	897	1,333	2,292
Steele	841	3	3	228	329	610
Stevens	241	5	6	68	101	168
Swift	241	2	2	54	84	185
Todd	409	8	10	117	210	284
Traverse	95	3	4	23	44	69
Wabasha	441	6	6	133	197	302
Wadena	263	3	3	74	131	186
Waseca	422	5	5	106	149	311
Washington	2,524	29	33	755	1,129	1,740
Watonwan	298	5	10	72	106	221
Wilkin	214	1	1	60	93	153
Winona	1,328	14	15	386	516	928
Wright	1,257	15	18	397	600	845
Yellow Medicine	218	5	7	62	107	151
TOTAL	118,833	856	980	33,686	50,332	84,301

TABLE 1.9
LOCATION OF CRASHES BY POPULATION

POPULATION	ALL CRASHES	FATAL CRASHES	PERSONAL INJURY CRASHES	PROPERTY DAMAGE CRASHES	NUMBER KILLED	NUMBER INJURED
250,000 & Over	31,756	87	8,429	23,240	90	12,414
100,000 - 249,999	2,359	10	633	1,716	10	882
50,000 - 99,999	4,900	9	1,358	3,533	13	1,938
25,000 - 49,999	17,764	49	4,979	12,736	57	7,165
10,000 - 24,999	18,067	66	4,966	13,035	71	7,216
5,000 - 9,999	9,004	28	2,415	6,561	29	3,548
2,500 - 4,999	5,757	36	1,418	4,303	43	2,034
1,000 - 2,499	4,611	39	1,064	3,508	42	1,566
Under 1,000	24,615	522	8,424	15,669	622	13,570
TOTAL	118,833	846	33,686	84,301	980	50,332

TABLE 1.10
LOCATION OF CRASHES BY URBAN OR RURAL AREA*

	ALL CRASHES		FATAL CRASHES	
	NUMBER	PERCENT	NUMBER	PERCENT
URBAN	83,850	70.6	249	29.4
RURAL	34,983	29.4	597	70.6

*An urban area is any place with a population of 5,000 or more.

TABLE 1.11

CRASHES BY CITY GROUPS

GROUP	CITY	ALL CRASHES	FATAL CRASHES	NUMBER KILLED	PERSONAL INJURY CRASHES	NUMBER INJURED	PROPERTY DAMAGE CRASHES
A. Pop. 100,000 or more	Minneapolis	18,458	61	63	5,349	8,096	13,048
	St. Paul	13,222	26	26	3,065	4,301	10,131
	Duluth	2,349	11	12	629	878	1,709
B. Pop. 20,000-99,999	Austin	674	1	1	165	230	508
	Bloomington	2,922	6	10	879	1,289	2,037
	Brooklyn Center	1,002	2	2	308	449	692
	Brooklyn Park	856	3	3	253	377	600
	Columbia Hgts.	537	1	1	149	198	387
	Coon Rapids	853	5	7	295	435	553
	Crystal	535	1	1	185	255	349
	Edina	1,013	3	5	320	453	690
	Fridley	1,077	1	1	318	471	758
	Golden Valley	1,158	4	4	357	503	797
	Mankato	1,326	3	3	303	440	1,020
	Maplewood	979	5	5	341	506	633
	Minnetonka	1,113	4	4	332	493	777
	Moorhead	1,295	1	1	265	395	1,029
	Richfield	1,219	4	5	342	481	873
	Rochester	1,974	3	3	477	647	1,494
	Roseville	1,084	2	2	281	396	801
	St. Cloud	1,943	4	7	483	694	1,456
	St. Louis Park	1,331	4	4	407	589	920
	So. St. Paul	563	1	1	157	209	405
	White Bear Lake	612	2	2	181	274	429
	Winona	870	4	5	216	280	650

GROUP	CITY	ALL CRASHES	FATAL CRASHES	NUMBER KILLED	PERSONAL INJURY CRASHES	NUMBER INJURED	PROPERTY DAMAGE CRASHES
C. Pop. 10,000-19,999	Albert Lea	658	2	3	159	221	497
	Anoka	567	1	1	173	246	393
	Bemidji	486	2	2	111	160	373
	Blaine	833	4	5	265	455	564
	Brainerd	564	2	5	132	184	430
	Burnsville	906	3	3	313	470	590
	Cottage Grove	325	4	4	73	114	248
	Eagan	517	3	4	174	250	340
	Fairmont	320	1	1	78	104	241
	Faribault	544	3	3	162	234	379
	Fergus-Falls	323	1	1	71	95	253
	Hastings	340	3	3	90	135	247
	Hibbing	504	-	-	121	171	383
	Hopkins	658	3	3	198	278	457
	Inver Grove Hgts.	449	3	3	146	235	300
	New Brighton	369	1	1	92	118	276
	New Hope	455	1	1	124	180	330
	New Ulm	457	3	3	118	180	336
	Northfield	224	1	1	45	61	178
	No. St. Paul	280	-	-	84	131	196
	Owatonna	507	-	-	118	156	389
	Plymouth	658	6	7	191	266	461
	Red Wing	438	3	3	107	151	328
	Robbinsdale	441	3	3	151	230	287
	Shoreview	264	5	5	62	88	197
	Stillwater	284	-	-	83	108	201
	Virginia	438	-	-	78	108	360
	W. St. Paul	567	1	1	166	257	400
	Willmar	616	-	-	113	152	503
D. Pop. 5,000-9,000	Alexandria	409	2	2	103	161	304
	Apple Valley	324	-	-	89	129	235
	Chisholm	131	-	-	16	17	115
	Cloquet	272	3	3	73	116	196

CITY	ALL CRASHES	FATAL CRASHES	NUMBER KILLED	PERSONAL INJURY CRASHES	NUMBER INJURED	PROPERTY DAMAGE CRASHES
Crookston	295	-	-	53	72	242
Detroit Lakes	238	1	1	60	75	177
E. Grand Forks	300	1	1	79	112	220
Eden Prairie	437	2	2	134	197	301
Ely	94	-	-	13	19	81
Eveleth	141	2	3	27	39	112
Falcon Heights	148	1	1	38	87	109
Grand Rapids	350	-	-	79	99	271
Ham Lake	149	1	1	61	100	87
Hutchinson	254	-	-	47	62	207
Int'l Falls	220	1	1	67	93	152
Litchfield	145	1	1	28	40	116
Little Falls	235	1	1	66	85	168
Maple Grove	242	2	2	83	119	157
Marshall	278	1	1	62	85	215
Mendota Hgts.	297	-	-	85	128	212
Montevideo	154	-	-	41	64	113
Mound	199	-	-	48	70	151
Mounds View	273	2	2	80	127	191
New Prague	84	1	1	10	12	73
No. Mankato	137	1	1	36	49	100
Orono	216	-	-	68	105	148
Pipestone	109	-	-	17	22	92
St. Paul Park	69	1	1	18	25	50
St. Peter	209	1	1	56	84	152
Sauk Rapids	122	-	-	37	47	85
Shakopee	345	1	1	95	133	249
Spring Lk. Park	146	-	-	41	71	105
Thief River Falls	277	-	-	81	113	196
Waseca	219	-	-	47	55	172
Worthington	348	-	-	82	111	266

TABLE 1.12
CRASHES BY WEATHER CONDITIONS

WEATHER CONDITIONS	ALL CRASHES	FATAL CRASHES	PERSONAL INJURY CRASHES	PROPERTY DAMAGE CRASHES
Clear	66,147	509	20,016	45,622
Cloudy	26,143	229	8,056	17,858
Rain	7,903	51	2,453	5,399
Snow/Sleet	10,213	25	2,081	8,107
Fog	693	12	249	432
Other	627	10	145	472
Not Stated/Unknown	7,107	10	686	6,411
TOTAL	118,833	846	33,686	84,301

TABLE 1.13
CRASHES BY LIGHT CONDITIONS

LIGHT CONDITIONS	ALL CRASHES	FATAL CRASHES	PERSONAL INJURY CRASHES	PROPERTY DAMAGE CRASHES	NUMBER KILLED	NUMBER INJURED
Daylight	63,727	341	18,758	44,628	381	27,922
Dawn/Dusk	7,409	45	1,948	5,416	53	2,797
Darkness	38,366	448	12,136	25,782	533	18,481
Other/ Unknown	9,331	12	844	8,475	13	1,133
TOTAL	118,833	846	33,686	84,301	980	50,333

TABLE 1.14
CRASHES BY ROAD SURFACE CONDITIONS

<u>ROAD SURFACE CONDITIONS</u>	<u>ALL CRASHES</u>	<u>FATAL CRASHES</u>	<u>PERSONAL INJURY CRASHES</u>	<u>PROPERTY DAMAGE CRASHES</u>
Dry	65,971	632	21,501	43,838
Wet	17,890	99	5,530	12,261
Snow/Slush	8,254	26	1,877	6,351
Ice/Packed Snow	19,111	67	3,707	15,337
Other	1,070	12	376	682
Not Stated/Unknown	6,537	10	695	5,832
TOTAL	118,833	846	33,686	84,301

TABLE 1.15
ROAD MILEAGE SUMMARY

<u>TYPE OF ROADWAY</u>	<u>MILES OF ROADWAY</u>	<u>PERCENT</u>
Interstates	860	.7
Trunk Highways	11,311	8.8
County State Aid Highways	29,898	23.4
County Roads	15,001	11.7
Township Roads	54,696	42.8
Local Streets	13,443	10.5
<u>Other Roads</u>	<u>2,709</u>	<u>2.1</u>
TOTAL	127,918	100.0

TABLE 1.16

CRASHES BY TYPE OF ROAD CLASSIFICATION

ROAD CLASSIFICATION	ALL CRASHES	FATAL CRASHES	PERSONAL INJURY CRASHES	PROPERTY DAMAGE CRASHES	NUMBER OF PEOPLE KILLED	NUMBER OF PEOPLE INJURED
Urban Interstate	5,584	20	1,354	4,210	21	1,878
Rural Interstate	1,303	13	345	945	16	538
Urban Trunk Highway	27,230	102	8,169	18,959	113	12,558
Rural Trunk Highway	15,877	298	4,860	10,719	365	7,847
County State Aid Highway	24,011	253	8,053	15,705	289	12,105
County Road	2,399	31	863	1,505	34	1,331
Township Road	2,322	41	821	1,460	46	1,368
Local Street	38,499	78	8,975	29,446	83	12,397
Other Road	1,608	10	246	1,352	13	310
TOTAL	118,833	846	33,686	84,301	980	50,332

TABLE 1.17

MILEAGE AND CRASH DISTRIBUTION BY TYPE OF ROADWAY

TYPE OF ROADWAY	PERCENT OF VEHICLE MILEAGE	PERCENT OF ROAD MILEAGE	PERCENT OF ALL CRASHES	PERCENT OF FATAL CRASHES
Interstates	16.9	.7	5.8	4.0
Trunk Highways	42.5	8.8	36.3	47.3
County State Aid Highways	19.1	23.4	20.2	30.3
County Roads	2.2	11.7	2.0	3.7
Township Roads	2.3	42.8	2.0	5.0
Local Streets	16.9	10.5	32.4	9.0
Other Roads	.1	2.1	1.4	.9

TABLE 1.18
AGE AND SEX OF FATALITIES.

<u>AGE GROUP</u>	<u>MALE</u>	<u>FEMALE</u>	<u>TOTAL</u>
0 - 4	13	10	23
5 - 9	8	5	13
10 - 14	17	13	30
15 - 19	142	58	200
20 - 24	145	41	186
25 - 34	155	39	194
35 - 44	57	17	74
45 - 54	53	24	77
55 - 64	32	23	55
65 - 74	34	24	58
75 & Above	47	18	65
Not Stated	2	3	5
TOTAL	705	275	980

TABLE 1.19
AGE AND SEX OF PERSONS INJURED

AGE GROUP	TOTAL INJURED	MALE	FEMALE	NOT STATED
0 - 4	1,278	672	604	2
5 - 9	1,697	903	787	7
10 - 14	1,972	1,031	936	5
15 - 19	11,076	6,267	4,797	12
20 - 24	9,515	5,577	3,931	7
25 - 34	9,433	5,351	4,078	4
35 - 44	4,201	2,133	2,063	5
45 - 54	3,139	1,530	1,607	2
55 - 64	2,672	1,315	1,357	0
65 - 74	1,643	717	924	2
75 & Above	1,058	506	550	2
Not Stated	2,648	779	1,084	785
 TOTAL	50,332	26,781	22,718	833

TABLE 1.20
AGE DISTRIBUTION OF LICENSED DRIVERS AND THEIR INVOLVEMENT IN CRASHES

<u>AGE</u>	<u>PERCENT OF LICENSED DRIVERS</u>	<u>PERCENT OF DRIVERS IN FATAL CRASHES</u>	<u>PERCENT OF DRIVERS IN ALL CRASHES</u>
14 and Under		.6	
15 - 19	11.3	20.3	18.2
20 - 24	14.1	21.8	17.7
25 - 34	23.2	23.1	19.8
35 - 44	15.4	11.7	9.8
45 - 54	13.1	7.7	7.4
55 - 64	11.6	5.4	5.8
65 - 74	7.7	3.7	3.2
75 and Over	3.6	4.7	18.2

TABLE 1.21
AGE AND SEX OF DRIVERS IN FATAL CRASHES

<u>AGE</u>	<u>MALE</u>	<u>FEMALE</u>	<u>NOT STATED</u>	<u>TOTAL</u>
14 and Under	6	1		7
15 - 19	189	54		243
20 - 24	228	39		267
25 - 34	241	42		283
35 - 44	115	30		145
45 - 54	73	24		97
55 - 64	52	11		63
65 - 74	33	8		41
75 and Over	52	6		58
Not Stated	4	1	23	28
TOTAL	993	216	23	1,232

TABLE 1.22

DRIVER LICENSE SUMMARY BY AGE AND SEX, 1972-1978

AGE	1972		1973		1974		1975		1976		1977		1978	
	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	159,991	144,030
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	198,369	183,008
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	177,375	165,737
30-34	130,102	120,223	124,286	111,828	127,908	116,017	130,385	118,637	137,242	125,838	144,912	133,710	147,567	137,828
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	119,029	110,218
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	97,727	89,066
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	92,211	81,607
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	94,571	82,351
55-59	92,554	73,578	89,148	71,590	88,006	72,326	88,264	73,352	80,466	75,281	90,356	76,415	89,136	76,152
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	80,058	67,370
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	66,040	52,859
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	50,448	37,385
75 & 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	63,662	32,825
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	1,436,184	1,260,436
GRAND TOTAL	2,614,921		2,455,279		2,510,277		2,579,605		2,642,024		2,696,671		2,696,620	

TABLE 1.23
APPARENT CONTRIBUTING FACTORS IN CRASHES, FATAL CRASHES

APPARENT CONTRIBUTING FACTOR	ALL CRASHES	FATAL CRASHES
Failure to Yield Right of Way	17,825	113
Illegal/Unsafe Speed	17,523	276
Following Too Closely	5,961	6
Disregard for Traffic Control Device	4,489	60
Driving Left of Roadway Center - Not Passing	3,373	118
Improper Passing/ Overtaking	2,703	31
Improper/Unsafe Lane Use	5,297	40
Improper Parking/Start/ Stop	2,101	13
Improper Turn	4,071	21
Unsafe Backing	1,947	3
No/Improper Signal	585	2
Impeding Traffic	639	1
Driver Inattention/ Distraction	33,972	231
Driver Inexperience	6,482	41
Physical Impairment	7,047	160
Vision Obscured	12,665	42
Defective Equipment	3,184	25
Pedestrian Violation/ Error	826	42

TABLE 1.24

VEHICLE MOVEMENT IN MULTI-VEHICLE INTERSECTION CRASHES

VEHICLE MOVEMENT	ALL CRASHES	FATAL CRASHES	PERSONAL INJURY CRASHES	PROPERTY DAMAGE CRASHES
Entering at Angle	17,830	128	6,528	11,174
Same Direction/ Both Going Straight	2,789	3	924	1,862
Sideswipe/Passing	920	0	167	753
Same Direction/One Turning, One Straight	2,673	10	726	1,937
Same Direction/One Stopped	5,314	8	2,106	3,200
Same Direction/ All Others	1,530	1	253	1,276
Head On	528	11	270	247
Sideswipe/Meeting	361	3	68	290
Opposite Direction/ One Left Turn, One Straight	5,299	15	1,950	3,334
Opposite Direction/ All Others	429	2	121	306
Backed Into	297	0	23	274
Not Stated	50	0	15	35
TOTAL	38,020	181	13,151	24,688

TABLE 1.25

VEHICLE MOVEMENT IN MULTI-VEHICLE NON-INTERSECTION CRASHES

VEHICLE MOVEMENT	ALL CRASHES	FATAL CRASHES	PERSONAL INJURY CRASHES	PROPERTY DAMAGE CRASHES
Head On	1,350	119	757	474
Same Direction - Both Going Straight	4,078	12	1,269	2,797
Sideswipe/Passing	3,027	20	700	2,307
One Car Parked	10,934	22	1,604	9,308
One Car Stopped In Traffic	2,445	4	964	1,477
One Car Entering Parked Position	121	0	22	99
One Car Leaving Parked Position	823	0	78	745
One Car Entering Driveway Access	2,000	14	560	1,426
One Car Leaving Driveway Access	1,686	1	381	1,304
Backed Into	684	0	66	618
All Others	905	24	283	598
Not Stated	52	2	11	39
TOTAL	28,105	218	6,695	21,192

TABLE 1.26

MOTOR VEHICLE REGISTRATIONS

TYPE OF VEHICLE	1970	1971	1972	1973	1974	1975	1976	1977	1978
PASSENGER CARS ¹	1,732,607	1,782,734	1,086,394	1,866,756	1,931,493	1,943,956	2,125,167	1,911,108	1,976,349
TRUCKS									
GROSS WEIGHT	310,150	334,414	355,100	385,826	425,743	442,904	476,351	513,562	561,250
FARM	105,212	105,202	103,346	104,200	108,714	101,976	114,643	118,303	121,311
URBAN	4,402	4,731	4,645	4,410	4,605	4,571	4,464	5,845	6,615
SUBTOTAL, TRUCKS	419,764	444,347	463,091	494,436	539,062	549,451	592,458	637,710	689,176
TAX EXEMPT	24,438	26,296	24,443	31,740	35,848	33,273	36,486	38,863	41,408
BUSES	1,799	1,300	2,956	3,019	3,165	2,352	2,432	2,445	2,642
SCHOOL BUSES	4,740	5,093	3,604	3,491	3,665	3,797	3,982	4,232	4,192
MOTORCYCLES	71,914	90,150	103,286	119,227	138,193	136,256	143,237	151,763	151,016
MOPEDS ²									2,385
RECREATIONAL ³	4,834	6,592	9,233	12,318	14,328	16,200	20,619	25,172	30,861
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	2,898,029
TRAILERS	336,686	378,939	398,718	451,539	459,049	497,071	490,585	507,525	526,424
COLLECTOR'S ITEMS ⁴		7,779	8,504	9,427	10,120	10,806	13,174	15,662	17,978
GRAND TOTAL ⁵	2,596,782	2,743,230	2,820,229	2,974,003	3,134,923	3,193,162	3,428,140	3,294,480	3,442,431

1. Beginning in 1977, only those vehicles currently registered on December 31 are included in the totals. Any vehicle not registered (junked, abandoned, moved out of state, etc.) would not be included.
2. Mopeds were not registered separately from motorcycles until 1978.
3. Motor-powered vehicles used for human habitation during recreational activities.
4. The number of vehicles registered as collector's items is unknown prior to 1971.
5. Does not include foreign-based prorate vehicles.

TABLE 1.27
TYPES OF VEHICLES IN CRASHES

MOTOR VEHICLE TYPE	ALL CRASHES	FATAL CRASHES
Passenger Cars	166,688	744
Passenger Car & Trailer	187	1
Truck or Truck Tractor	30,637	240
Truck Tractor & Semi-Trailer	3,453	69
Truck Tractor & Twin Trailer	6	0
Truck with Other Trailer	203	11
Motorcycle	2,903	103
Motorscooter/Motorbike	24	2
Motorized Bike/Moped	25	0
School Bus	708	2
Bus	830	5
Motorhome/Camper	322	3
Snowmobile	165	13
Farm Tractor or Equipment	316	9
Taxicab	472	1
Police Vehicle	360	1
Fire Department Vehicle	36	0
Ambulance	41	1
Military Vehicle	23	0
Road Maintenance Vehicle	213	2
Hit-and-Run Vehicle	10,822	27
Other	1,119	5
Not Stated	29	0
TOTAL	219,582	1,239

PART II

PEDESTRIAN INFORMATION

TABLE 2.1

PEDESTRIAN CRASHES, INJURIES, FATALITIES, 1969 - 1978

	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978
Pedestrian Crashes*	1,944	1,923	1,960	1,941	1,940	1,750	1,925	1,723	**	1,731
Pedestrians Injured	1,735	1,797	2,000	1,930	1,940	1,753	1,918	1,726	**	1,723
Pedestrians Killed	114	149	157	132	149	106	121	120	140	115

* 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 2.2
PEDESTRIAN FATALITIES BY AGE AND SEX

AGE GROUP	TOTAL PEDESTRIANS KILLED, 1978			AVERAGE NUMBER OF PEDESTRIANS KILLED 1973 - 1977
	MALE	FEMALE	TOTAL	
0 - 4	5	2	7	9
5 - 9	3	1	4	15
10 - 14	2	1	3	8
15 - 19	8	3	11	15
20 - 24	7	4	11	8
25 - 34	7	7	14	11
35 - 44	5	0	5	6
45 - 54	14	4	18	8
55 - 64	5	5	10	13
65 - 74	5	9	14	11
75 and Over	10	6	16	23
Not Stated	0	2	2	0
TOTAL	71	44	115	127

TABLE 2.3

VEHICLE MOVEMENT IN PEDESTRIAN ACCIDENTS

VEHICLE MOVEMENT	ALL CRASHES	FATAL CRASHES	PERSONAL INJURY CRASHES	PROPERTY DAMAGE CRASHES
Car Going Straight	1,296	91	1,193	12
Car Turning Left	184	4	179	1
Car Turning Right	100	1	99	0
Car Backing	44	4	40	0
All Others	107	2	101	4
Not Stated	11	3	8	0
TOTAL	1,742	105	1,620	17

FIGURE 2.1

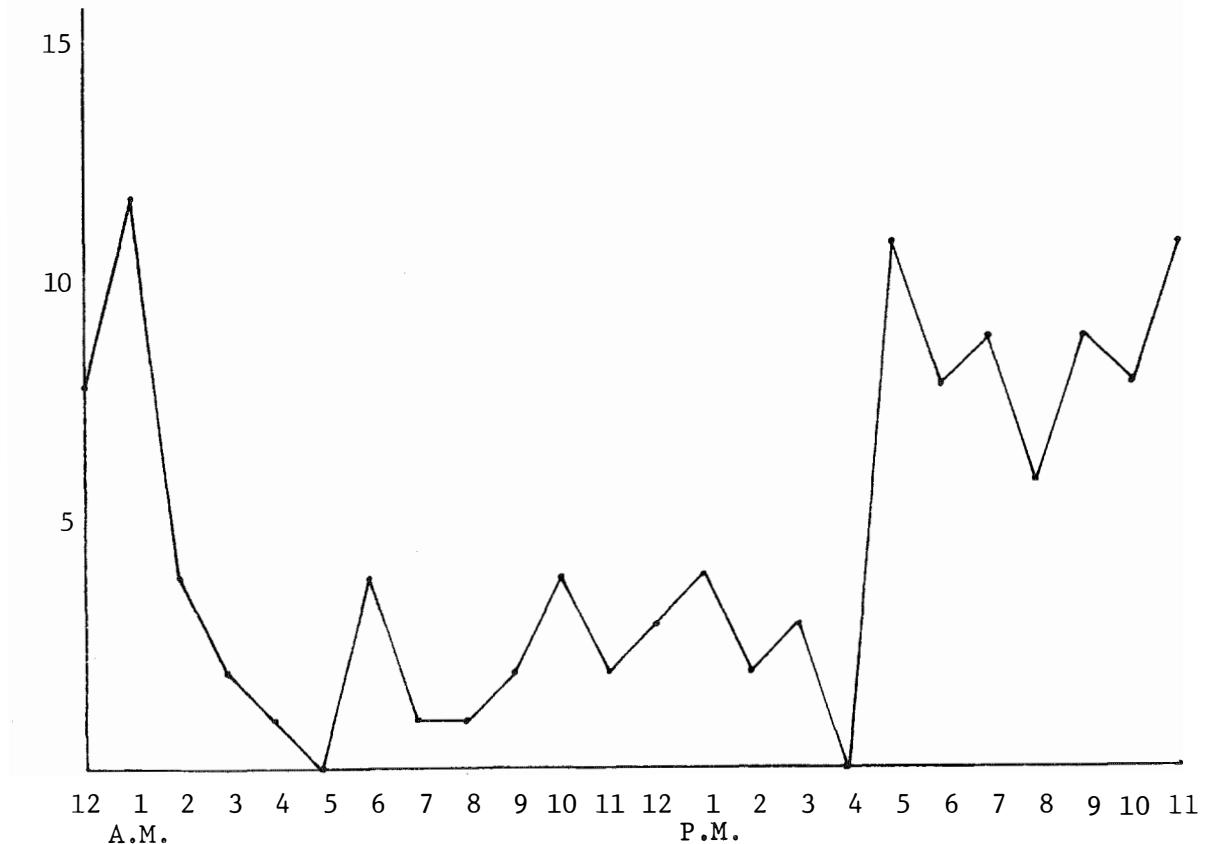
FATAL PEDESTRIAN CRASHES BY HOUR OF DAY

TABLE 2.4
PRIOR ACTION OF PEDESTRIAN FATALITIES BY AGE

<u>ACTION</u>	<u>TOTAL KILLED</u>	<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>	<u>NOT STATED</u>
Crossing With Signal	6	0	0	0	0	0	1	2	3	0
Crossing Against Signal	4	1	0	0	0	0	1	1	1	0
Crossing In Marked Crosswalk, No Signal	4	0	0	0	0	0	0	1	3	0
Crossing, No Signal Or Marked Crosswalk	29	2	1	1	1	2	3	7	12	0
Walking In Road With Traffic	8	0	0	1	2	0	1	2	2	0
Walking In Road Against Traffic	4	0	1	0	0	1	1	1	0	0
Standing In Road	12	0	0	0	3	1	3	5	0	0
Emerging From Front or Behind Parked Vehicle	2	0	0	1	0	0	0	0	1	0
Child Getting On Or Off School Bus	0	0	0	0	0	0	0	0	0	0
Getting On Or Off Vehicle	2	0	0	0	0	1	0	0	1	0
Pushing Or Working On Vehicle	5	0	0	0	0	1	3	1	0	0
Working In Road	1	0	0	0	0	0	0	1	0	0
Playing In Road	0	0	0	0	0	0	0	0	0	0
Not In Road	4	0	0	0	2	0	1	0	1	0
Other	17	1	1	0	3	3	2	2	4	1
<u>Not Stated</u>	<u>17</u>	<u>3</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>2</u>	<u>3</u>	<u>5</u>	<u>2</u>	<u>1</u>
TOTAL	115	7	4	3	11	11	19	28	30	2

PART III

BICYCLIST INFORMATION

TABLE 3.1

BICYCLE-INVOLVED CRASHES, INJURIES, FATALITIES, 1969-1978

	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978
Bicycle Crashes*	662	807	912	1,044	1,301	1,350	1,302	1,217	**	1,154
Bicyclists Injured	607	770	844	949	1,197	1,246	1,202	1,114	**	1,105
Bicyclists Killed	21	19	19	27	17	16	23	21	24	23

*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 3.2
BICYCLIST FATALITIES BY AGE AND SEX

AGE	MALE	FEMALE	TOTAL
0- 4	1	1	2
5- 9	2	0	2
10-14	4	4	8
15-19	5	2	7
20-24	1	0	1
25-34	2	0	2
35-44	0	0	0
45-54	0	1	1
55-64	0	0	0
65-74	0	0	0
75 and over	0	0	0
Not Stated	0	0	0
TOTAL	15	8	23

TABLE 3.3
PRIOR ACTION OF BICYCLIST FATALITIES

ACTION	BICYCLISTS KILLED
Riding with Traffic	10
Riding Against Traffic	2
Making Right Turn	1
Making Left Turn	2
Making U-Turn	1
Riding Across Road	3
Slowing, Stopping, or Starting in Road	
Other	4
TOTAL	23

TABLE 3.4
CONTRIBUTING FACTORS IN BICYCLE-INVOLVED FATAL ACCIDENTS

<u>CONTRIBUTING FACTOR</u>	<u>BICYCLIST</u>	<u>OTHER DRIVER</u>
Failure to Yield Right of Way	3	
Illegal/Unsafe Speed	2	3
Disregard Traffic Control Device	2	
Driving Left of Center		1
Improper Passing/Overtaking		3
Improper/Unsafe Lane Use	3	
Improper Turn	2	1
Unsafe Backing		1
No/Improper Signal	1	
Driver Inattention/Distraction	7	3
Driver Inexperience	1	1
Physical Impairment		2
Defective Brakes		1
Other	3	1
Unknown/Not Stated	3	2

PART IV

MOTORCYCLE INFORMATION

TABLE 4.1

MOTORCYCLE-INVOLVED ACCIDENTS BY TYPE

ACCIDENT TYPE	ALL ACCIDENTS	FATAL ACCIDENTS	PERSONAL INJURY ACCIDENTS	PROPERTY DAMAGE ACCIDENTS
Collision with Other Motor Vehicle	1,666	69	1,336	261
Collision with Motor Vehicle in Other Roadway	10	0	8	2
Collision with Parked Motor Vehicle	99	2	49	48
Collision with Railroad Train	4	0	3	1
Collision with Bicyclist	31	1	30	0
Collision with Pedestrian	17	0	17	0
Collision with Animal	40	1	35	4
Collision with Fixed Object	262	22	221	19
Collision with Other Object	28	0	25	3
Overtur	551	7	511	33
Fire/Explosion	2	0	1	1
Submersion	2	0	2	0
Other	115	1	107	7
TOTAL	2,827	103	2,345	379

TABLE 4.2

MOTORCYCLE ACCIDENT SUMMARY, 1970-1978

	1970	1971	1972	1973	1974	1975	1976	1977	1978
Total Motorcycle-Involved Accidents	1,269	1,689	2,013	2,411	2,400	2,400	2,460	2,718	2,827
Fatal Motorcycle-Involved Accidents	40	48	52	63	51	62	61	88	103
Personal Injury Motorcycle-Involved Accidents	1,005	1,318	1,583	1,890	1,865	1,818	1,862	2,120	2,345
Persons Killed in Motorcycle-Involved Accidents	43	51	55	65	54	72	62	94	107
Killed on Motorcycles:									
Drivers	34	43	50	56	43	61	55	85	89
Passengers	6	5	4	7	8	2	2	9	17
Pedestrians Killed in Motorcycle-Involved Accidents	1	1	1	1	2	1	2	0	0
Bicyclists Killed in Motorcycle-Involved Accidents	0	1	0	1	0	0	1	0	1
Others Killed in Motorcycle-Involved Accidents:									
Drivers	2	0	0	0	1	2	1	0	0
Passengers	0	1	0	0	0	6	1	0	0
Persons Injured in Motorcycle-Involved Accidents	1,220	1,628	1,972	2,334	2,245	2,247	2,266	2,564	2,907
Pedestrians Injured In Motorcycle Accidents	22	38	25	31	25	18	28	20	17
Bicyclists Injured in Motorcycle-Involved Accidents	15	27	27	36	36	24	15	22	30
Number of Licensed Operators	N.A.	N.A.	N.A.	55,377	91,024	127,081	152,138	172,223	184,545
Number of Registered Motorcycles	71,914	90,150	103,286	119,227	138,193	136,256	143,237	151,763	151,016
Rates:									
Motorcyclist Injuries/Motorcyclist Fatalities	29.6	32.6	35.6	36.0	42.8	35.0	39.0	27.8	30.0
All Injuries/All Fatalities	39.0	38.3	40.7	41.8	46.4	54.0	51.3	52.8	51.4
All Motorcycle Crashes/Fatal Motorcycle Crashes	31.7	35.2	38.7	38.3	47.1	38.7	40.3	30.9	27.4
All Crashes/Fatal Crashes	121.8	123.4	128.6	123.0	140.5	181.8	161.7	161.4	140.4
Fatalities Per 10,000 Motorcycle Registrations	5.6	5.3	5.2	5.3	3.7	4.6	4.0	6.2	7.0
Injuries Per 10,000 Motorcycle Registrations	164.5	173.3	185.9	190.2	158.0	161.8	146.2	166.2	189.4

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

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

PART V

RAILROAD INFORMATION

TABLE 5.1

RAILROAD CROSSING FATAL CRASHES, FATALITIES, 1969 - 1978

	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978
Fatal Crashes	40	34	30	31	22	26	19	12	22	25
Fatalities	51	54	41	36	29	29	21	14	26	34

PART VI
SCHOOL BUS INFORMATION

TABLE 6.1

SCHOOL BUSES INVOLVED IN CRASHES, 1969-1978

	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978
Total Number of School Buses Involved in Crashes	405	395	397	462	421	539	708	599	724	698
Number of School Buses Involved in Personal Injury Crashes	78	89	95	103	116	148	154	119	162	166
Number of School Buses Involved in Fatal Crashes	2	2	2	3	4	6	2	9	1	2

TABLE 6.2
SCHOOL BUS-INVOLVED ACCIDENTS BY TYPE

ACCIDENT TYPE	TOTAL ACCIDENTS	FATAL ACCIDENTS	PERSONAL INJURY ACCIDENTS	PROPERTY DAMAGE ACCIDENTS
Collision With Other Motor Vehicle	600	1	145	454
Collision With Motor Vehicle In Other Road-way	3			3
Collision With Parked Motor Vehicle	51		4	47
Collision With Bicyclist	2		1	1
Collision With Pedestrian	10		10	
Collision With Animal	3		1	2
Collision With Fixed Object	17		1	16
OverturN	5		2	3
Other	7	1	2	4
TOTAL	698	2	166	530

PART VII
HOLIDAY INFORMATION

TABLE 7.1

HOLIDAY ACCIDENT SUMMARY, 1973 - 1978

	YEAR	HOURS	TOTAL	FATAL	PERSONAL INJURY	PROPERTY DAMAGE	KILLED	INJURED
MEMORIAL DAY	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
	1978	78	1,030	13	343	674	14	616
JULY 4TH	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
	1978	30	348	7	154	187	7	258
LABOR DAY	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	469
	1978	78	906	9	335	562	11	511
THANKSGIVING	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
	1978	102	1,746	7	407	1,332	8	653
CHRISTMAS	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
	1978	78	982	6	225	751	7	371
NEW YEAR'S	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
	1978	78	1,946	5	292	899	5	433

TABLE 7.2
1978 HOLIDAY ACCIDENTS COMPARED WITH NON-HOLIDAY PERIODS

<u>Holiday</u>	<u>Hours</u>	<u>TOTAL ACCIDENTS</u>		<u>FATAL ACCIDENTS</u>		<u>PERSONAL INJURY ACCIDENTS</u>	<u>INJURIES</u>		<u>FATALITIES</u>	
		<u>Holiday</u>	<u>Average*</u>	<u>Holiday</u>	<u>Average*</u>		<u>Holiday</u>	<u>Average*</u>	<u>Holiday</u>	<u>Average*</u>
MEMORIAL DAY										
6 pm, May 26 - Mid. Mon., May 29	78	1,030	1,041	13	10	343	616	488	14	11
JULY 4										
6 pm, July 3 - Mid. Tues., July 4	30	348	348	7	2	154	258	142	7	2
LABOR DAY										
6 pm, Sept. 1 - Mid. Mon., Sept. 4	78	906	1,041	9	10	335	511	488	11	11
THANKSGIVING										
6 pm, November 22 - Mid. Sun., Nov. 26	102	1,746	1,473	7	14	407	653	648	8	14
CHRISTMAS										
6 pm, December 22 - Mid. Mon., Dec. 25	78	982	1,041	6	10	225	371	488	7	11
NEW YEAR'S										
6 pm, Dec. 29, 1977 - Mid. Mon., Jan 1, 1978	78	1,946	1,041	5	10	292	453	488	5	11

*Average number of accidents occurring during non-holiday periods of equal length on the same days of the week.

PART VIII
TEENAGE DRIVER INFORMATION

TABLE 8.1
NUMBER AND PERCENT OF LICENSED TEENAGE DRIVERS, 1974-1978

YEAR	DRIVERS 15 - 19	DRIVERS OVER 19	PERCENT OF DRIVERS WHO ARE 15 - 19
1974	290,620	2,219,757	11.6
1975	300,906	2,251,699	11.9
1976	307,481	2,334,543	11.6
1977	315,138	2,381,533	11.9
1978	304,021	2,392,599	11.3

TABLE 8.2
COMPARISON OF DRIVERS 19 OR YOUNGER
WITH DRIVERS 20 OR OLDER BY ACCIDENT TYPE

TYPE OF ACCIDENT	PERCENT OF ALL ACCIDENTS		PERCENT OF ACCIDENTS WITH ALL DRIVERS 19 OR YOUNGER		PERCENT OF ACCIDENTS WITH ALL DRIVERS 20 OR OLDER		PERCENT OF FATAL WITH ACCIDENTS		PERCENT OF FATAL ACCIDENTS WITH ALL DRIVERS 19 OR YOUNGER		PERCENT OF FATAL ACCIDENTS WITH ALL DRIVERS 20 OR OLDER	
Collision With Other Motor Vehicle	65.4	(77,755)	34.0	(3,401)	62.4	(51,433)	44.7	(378)	19.3	(16)	40.3	(251)
Collision With Motor Vehicle Vehicle In Other Roadway	.2	(300)	.1	(7)	.2	(204)		(0)		(0)		(0)
Collision With Parked Motor Vehicle	11.2	(13,254)	.4	(40)	13.0	(10,718)	2.3	(19)		(0)	2.2	(14)
Collision With Railroad Train	.3	(315)	.6	(57)	.3	(259)	3.0	(25)	1.2	(1)	3.9	(24)
Collision With Bicyclist	1.0	(1,154)	.2	(24)	1.0	(828)	2.6	(22)	1.2	(1)	2.4	(15)
Collision With Pedestrian	1.5	(1,796)	.5	(49)	1.7	(1,399)	12.6	(107)	1.2	(1)	14.3	(89)
Collision With Animal	1.6	(1,887)	3.0	(297)	1.9	(1,585)	.2	(2)		(0)	.3	(2)
Collision With Fixed Object	12.4	(14,776)	39.7	(3,976)	13.0	(10,673)	19.5	(165)	37.4	(31)	21.3	(133)
Collision With Other Object	.5	(604)	1.3	(128)	.5	(442)	.2	(2)	1.2	(1)	.2	(1)
Overtur	4.6	(5,470)	16.9	(1,696)	4.5	(3,747)	11.8	(100)	34.9	(29)	11.4	(71)
Fire/Explosion	.1	(71)	.1	(9)	.1	(62)		(0)		(0)		(0)
Submersion		(49)	.1	(9)	.1	(40)	.5	(4)	1.2	(1)	.5	(3)
Other	1.2	(1,402)	3.1	(309)	1.3	(1,064)	2.6	(22)	2.4	(2)	3.2	(20)
TOTAL	100.0	(118,833)	100.0	(10,002)	100.0	(82,454)	100.0	(846)	100.0	(83)	100.0	(623)

PART IX
HIT-AND-RUN ACCIDENTS

TABLE 9.1

HIT-AND-RUN ACCIDENTS BY TYPE

ACCIDENT TYPE	TOTAL ACCIDENTS	FATAL ACCIDENTS	PERSONAL INJURY ACCIDENTS	PROPERTY DAMAGE ACCIDENTS	NUMBER KILLED	NUMBER INJURED
Collision with Other Motor Vehicle	4,126	2	730	3,394	2	1,008
Collision with Motor Vehicle in Other Roadway	8	0	3	5	0	4
Collision with Parked Motor Vehicle	5,452	1	112	5,339	1	130
Collision with Railroad Train	2	0	0	2	0	0
Collision with Bicyclist	130	2	112	16	2	115
Collision with Pedestrian	220	22	195	3	22	209
Collision with Animal	3	0	1	2	0	2
Collision with Fixed Object	1,318	0	74	1,244	0	96
Collision with Other Object	39	0	4	35	0	4
Other/Unknown	100	0	23	77	0	27
TOTAL	11,398	27	1,254	10,117	27	1,595

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. The following tables include only drivers and pedestrians who were fatally injured in motor vehicle accidents in Minnesota.

TABLE 10.1
DRINKING DRIVER FATALITY SUMMARY, 1969-1978.

1969	%	1970	%	1971	%	1972	%	1973	%	1974	%	1975	%	1976	%	1977	%	1978	%	
988		987		1,024		1,031		1,024		852		777		809		856		980		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	542	55.3	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	372	68.6	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	238	64.0	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	193	51.9	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	193	81.1	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	219	92.0	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	19	8.0	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	78	32.8	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	113	47.5	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	87	77.0	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 ¹	8.8	9 ¹	4.5	9 ¹	6.3	26 ²	14.1	14 ²	8.5	32	13.4	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.

TABLE 10.2

ACCIDENT TYPES OF ALL ACCIDENTS COMPARED WITH
FATAL ACCIDENTS INVOLVING AN ALCOHOL-POSITIVE DRIVER FATALITY

TYPE OF ACCIDENT	TOTAL ACCIDENTS	PERCENT OF ACCIDENTS	FATAL ACCIDENTS WITH AN ALCOHOL-POSITIVE DRIVER FATALITY	PERCENT OF FATAL ACCIDENTS WITH AN ALCOHOL-POSITIVE DRIVER FATALITY
Collision with Other Motor Vehicle	77,755	65.4	87	36.6
Collision with Motor Vehicle in Other Roadway	300	.3		
Collision with Parked Motor Vehicle	13,254	11.1	6	2.5
Collision with Railroad Train	315	.3	2	.8
Collision with Bicyclist	1,154	1.0		
Collision with Pedestrian	1,796	1.5		
Collision with Animal	1,887	1.6	2	.8
Collision with Fixed Object	14,776	12.4	86	36.2
Collision with Other Object	604	.5		
Overtur	5,470	4.6	48	20.2
Fire/Explosion	71	.1		
Submersion	49	.0	1	.4
Other	1,402	1.2	6	2.5
TOTAL	118,833	100.0	238	100.0

TABLE 10.3
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 Intoxicated of Total Tested in Age Group	Percent of Total Positive By Age Group
				.010-.049	.050-.099	.100-.149	.150-.249	.250-over			
15 and below	11	6	3	1	2				50.00	00.00	1.26
16	32	26	14	1	4	3	6		53.85	34.62	5.88
17	0								00.00	00.00	00.00
18	28	23	15	1	2	5	6	1	65.22	52.17	6.30
19	42	27	17		3	3	10	1	62.96	51.85	7.14
20	31	18	12	3		3	5	1	66.67	50.00	5.04
21 - 25	114	75	62	7	5	12	28	10	82.67	66.67	26.05
26 - 30	83	63	49	1	3	11	28	6	77.78	71.43	20.59
31 - 35	30	21	13	1	2	3	5	2	61.90	47.62	5.46
36 - 40	35	21	14	2	1	3	7	1	66.67	52.38	5.88
41 - 45	16	14	10		1	2	5	2	71.43	64.28	4.21
46 - 50	24	19	10		1	1	5	3	52.63	47.37	4.21
51 - 55	19	14	5				2	3	35.71	35.71	2.10
56 - 60	10	4	2	1			1		50.00	25.00	.84
61 - 65	13	9	4			1	3		44.44	44.44	1.68
66 and above	54	32	8	2	1	1	3	1	25.00	12.50	3.36
UNKNOWN											
TOTALS	542	372	238	20	25	48	114	31	63.98	51.88	100.00

This table excludes drivers who died more than four hours after the accident and would not have been tested for blood-alcohol concentration.

A person is considered to be legally intoxicated if the blood alcohol concentration is .100 or higher.

TABLE 10.4
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	24	16	8	1	1	1	2	3	3.36
February	21	14	8			1	5	2	3.36
March	30	25	17	3	1	3	7	3	7.14
April	38	32	25	4	2	6	12	1	10.50
May	49	34	21	2	2	6	6	5	8.82
June	61	41	29	4	5	4	14	2	12.19
July	60	45	27	2	3	7	13	2	11.35
August	68	58	34	1		7	22	4	14.29
September	58	35	26	1	5	4	11	5	10.93
October	52	33	22	1	3	6	11	1	9.24
November	40	20	14		2	3	6	3	5.88
December	41	19	7	1	1		5		2.94
Total	542	372	238	20	25	48	114	31	100.00

TABLE 10.5
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	6	2			1	1		.9
Interstate Urban	13	9	6	1		2	3		2.5
Trunk Hwy. Rural	196	143	80	7	9	16	33	15	33.6
Trunk Hwy. Urban	77	51	36	4	6	5	15	6	15.1
County Road	186	129	89	7	9	17	48	8	37.4
City Street	32	10	9			3	5	1	3.8
Township Roads	27	22	16	1	1	4	9	1	6.7
Other Roads	5	2	0						0.0
TOTAL	542	327	238	20	25	48	114	31	100.0

TABLE 10.6
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 - 2:59 A.M.	121	90	86	6	5	16	46	13	36.13
3:00 A.M. - 5:59 P.M.	20	13	11	1	1	3	6		4.62
6:00 A.M. - 8:59 A.M.	31	24	7	1	1	2	1	2	2.94
9:00 A.M. - 11:59 A.M.	35	20	2		1			1	.84
Noon - 2:59 P.M.	61	35	6	1	1	1	2	1	2.52
3:00 P.M. - 5:59 P.M.	78	51	24	3	2	3	14	2	10.09
6:00 P.M. - 8:59 P.M.	75	50	29	4	6	6	10	3	12.19
9:00 P.M. - 11:59 P.M.	101	75	62	4	6	15	29	8	26.05
Unknown	20	14	11		2	2	6	1	4.62
TOTAL	542	372	238	20	25	48	114	31	100.00

TABLE 10.7
DRINKING PEDESTRIAN FATALITY SUMMARY, 1970-1978

1970	%	1971	%	1972	%	1973	%	1974	%	1975	%	1976	%	1977	%	1978	%	Pedestrians were killed in motor vehicle crashes
149		157		132		149		105		121		120		140		115		Fatally injured pedestrians were tested for alcohol. ³
41 27.5	44 28.0	67 50.8	73 49.0	46 43.4	45 37.2	58 48.3	62 44.3	54 47.0										Of those tested had alcohol in their systems (called positive cases)
20 48.8	30 68.2	31 46.3	30 41.1	28 60.8	26 57.8	25 43.1	32 51.6	33 61.1										Of those tested were at or above the 0.10 level of intoxication
14 34.2	23 52.3	26 38.8	23 31.5	25 54.4	22 48.9	22 37.9	32 51.6	22 40.7										Of the positive cases were at or above 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	22 66.7										Of the positive cases were 66 or older
3 15.0	10 33.3	4 12.9	4 3.3	5 17.8	2 7.7	4 16.0	6 18.8	3 9.1										Of the positive cases were under the legal drinking age.
3 15.0	5 16.7	9 29.0	3 ¹ 10.0	3 ¹ 10.7	1 ¹ 3.8	7 ² 28.0	15 ² 46.9	3 9.1										

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 10.8
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 Intoxicated of Total Tested in Age Group	Percent of Total Positive By Age Group
				.010-.049	.050-.099	.100-.149	.150-.249	.250-over			
15 and below	13	4	2		1		1		50.00	25.00	6.06
16	3	2	1			1			50.00	50.00	3.03
17	0								0.00	0.00	0.00
18	2	1	0						0.00	0.00	0.00
19	3	2	1		1				50.00	0.00	3.03
20	1	1	1		1				100.00	0.00	3.03
21 - 25	15	10	8	2	3	1		2	80.00	30.00	24.25
26 - 30	6	4	4			2		2	100.00	100.00	12.12
31 - 35	1	1	0						0.00	0.00	0.00
36 - 40	2	2	2					2	100.00	100.00	6.06
41 - 45	5	3	2	1				1	66.67	33.33	6.06
46 - 50	6	5	4	1		1	2		80.00	60.00	12.12
51 - 55	8	3	3			1	2		100.00	100.00	9.09
56 - 60	3	1	1				1		100.00	100.00	3.03
61 - 65	6	1	1					1	100.00	100.00	3.03
66 and above	22	14	3		1		1	1	21.43	14.29	9.09
UNKNOWN	2	0							0.00	0.00	0.00
TOTALS	98	54	33	4	7	6	7	9	61.11	40.74	100.00

This table excludes pedestrians who died more than four hours after the accident and would not have been tested for blood-alcohol concentration.

A person is considered to be legally intoxicated if the blood alcohol concentration is .100 or higher.

TABLE 10.9
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	6	5	3			1	2		9.09
February	6	5	2	1				1	6.06
March	3	3	1					1	3.03
April	6	6	6	1	2	1	2		18.19
May	11	3	3	1	1	1			9.09
June	8	6	4		1			3	12.12
July	13	6	3		1	1		1	9.09
August	9	6	3		1	1		1	9.09
September	13	7	3				2	1	9.09
October	3	2	1		1				3.03
November	8	3	2			1		1	6.06
December	12	2	2	1			1		6.06
Total	98	54	33	4	7	6	7	9	100.00

TABLE 10.10
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	4	1	0						0.0
Interstate Urban	5	5	3		1	1		1	9.1
Trunk Hwy. Rural	12	5	4	1	1	1		1	12.2
Trunk Hwy. Urban	21	12	10	1	2	1	4	2	30.3
County Road	29	15	11	1	3	2	3	2	33.3
City Street	22	12	3			1		2	9.1
Township Roads	3	2	1	1					3.0
Other Roads	2	2	1					1	3.0
TOTAL	98	54	33	4	7	6	7	9	100.0

TABLE 10.11

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 - 2:59 A.M.	23	16	15	2	4	2	2	5	45.46
3:00 A.M. - 5:59 P.M.	3	3	3		1	2			9.09
6:00 A.M. - 8:59 A.M.	4	3	0						
9:00 A.M. - 11:59 A.M.	6	4	0						
Noon - 2:59 P.M. -	9	4	1					1	3.03
3:00 P.M. - 5:59 P.M.	11	3	1				1		3.03
6:00 P.M. - 8:59 P.M.	16	7	1			1			3.03
9:00 P.M. - 11:59 P.M.	26	14	12	2	2	1	4	3	36.36
Unknown									
TOTAL	98	54	33	4	7	6	7	9	100.00

JUL 19, 1979

Minnesota Department of Public Safety
Office of Public Information
318 Transportation Building
St. Paul, MN 55155

Bulk Rate
U. S. Postage
PAID
Permit No. 17
St. Paul, MN