



*Review of  
1988 Traffic  
Collisions in  
Washington*

*Prepared in 1989 by:*  
The Washington Traffic  
Safety Commission

*Sources:*

*Collision Data -*  
Records Section,  
Washington State Patrol.

*Roadway Data -*  
Planning, Research and Public  
Transportation Division,  
Department of Transportation.

*License Data -*  
Department of Licensing.

Washington Traffic  
Safety Commission  
1000 South Cherry Street  
MS:PD-11  
Olympia, WA 98504  
(206) 753-6197

# A Review of 1988 Traffic Collisions

Table of Contents	Page
Recap of Traffic Collisions - 1988 .....	.1
Drinking Driver Collisions .....	.1
Collisions By Location, By Type, & By Type of Vehicle .....	.2
Traffic Fatalities in 1988 & Percentage of Change from 1987 .....	.3
Traffic Fatalities By Age & Sex .....	.3
Persons Killed & Injured By Age By Status .....	.4
Comparison of Traffic Deaths By Months - '86, '87, '88 .....	.4
Traffic Safety Statistics 1972 - 1988 .....	.5
Comparison of Severity of Injury By Year - 1961-1988 .....	.6
Collisions By Time .....	.7
Traffic Deaths, Miles Traveled, Death Rate, Reported Collisions & Injuries .....	.8
Multiple Vehicle, Single Vehicle, Pedestrian, & Pedalcyclist Collisions .....	10
Summary of Motor Vehicle Traffic Accidents 1988 - Incorporated - Unincorporated Areas & By Type .....	12
Traffic Collisions By Severity By Month. ....	13
Percentage Change of Traffic Deaths & Travel By Month - 1988 vs 1987 .....	14
Statewide Accident Contributing Circumstances By County .....	15
Motor Vehicle Collisions By Age & Violation .....	16
Traffic Collisions By Investigating Agency .....	17
Driver Age Distribution - Collisions By Number Licensed .....	18
Senior Driver Collisions .....	19
Teenage Driver Collisions .....	20
Collision Rate By City Population .....	21
Collision Rate By County Population .....	22
Motorcycle Collisions - 1984-1988 .....	23
Alcohol-Related Collision Data .....	23
Occupant Restraint Data .....	28
Pedestrian/Vehicle Collisions .....	31

RT-1

RECAP OF TRAFFIC COLLISIONS Two Year Comparison			
Category	1988	1987	% Change From 1987
Persons Killed	785	790	-0.6%
Death Rate Per 100 Million Miles	1.95	2.05	-4.8%
Fatal Collisions	706	699	1.0%
Persons Injured	72,449	67,665	7.1%
Total Reported Collisions	125,920	126,807	-0.7%
Estimated Economic Loss*	855,000,000	820,000,000	3.7%
Miles Traveled (in Millions)**	40,215.9	38,520.0	4.4%
Licensed Drivers	3,264,065	3,156,600	3.4%
Registered Vehicles	3,896,828	3,833,058	1.7%
Population	4,565,000	4,481,100	1.9%

\* Loss estimated for 1988 based on:  
 \$282,000 for each death  
 29,900 for each incapacitating injury  
 7,400 for each non-incapacitating evident injury  
 1,800 for each possible injury  
 1,600 for each property damage collision

\*\* Estimated for 1988

RT-2

DRINKING DRIVER COLLISIONS Two Year Comparison			
Collisions	1988	1987	% Change From 1987
DWI Drivers Involved in Total Collisions	9,532	9,455	0.8%
Ratio - DWI Per 100 Involved	6.1	6.2	-1.3%
DWI Drivers Involved in Fatal Collisions	340	296	14.9%
Ratio - DWI Drivers Per 100	34.5	29.9	15.3%
Had Been Drinking in Total Collisions	18,049	18,292	-1.3%
Ratio - HBD Drivers Per 100	11.6	12.0	-3.4%
Had Been Drinking in Fatal Collisions	400	360	11.1%
Ratio - HBD Drivers Per 100	40.6	36.4	11.6%

COLLISIONS BY LOCATION Two Year Comparison			
Location	1988	1987	% Change From 1987
Interstate & Other Full Control - All	15,330	13,984	9.6%
Interstate & Other Full Control - Fatal	99	72	37.5%
Other State Routes - All Collisions - Rural Areas	15,647	14,945	4.7%
Other State Routes - Fatal Collisions - Rural Areas	214	222	-3.6%
County Roads - All Collisions	27,777	28,372	-2.1%
County Roads - Fatal Collisions	226	239	-5.4%
City Streets - All Collisions	66,227	68,598	-3.5%
City Streets - Fatal Collisions	151	159	-5.0%
Other Traffic Ways - All Collisions	939	908	3.4%
Other Traffic Ways - Fatal Collisions	16	7	128.6%

RT-3a

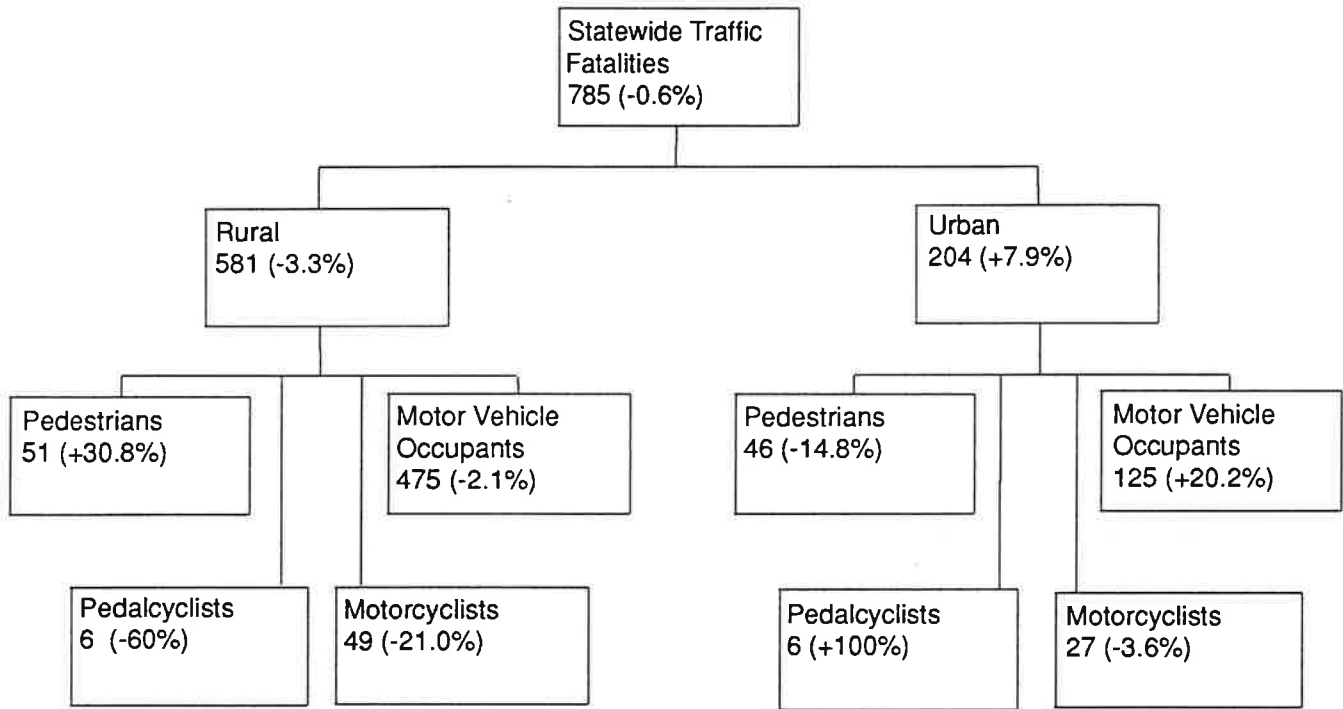
COLLISIONS BY TYPE Two Year Comparison			
Type	1988	1987	% Change From 1987
Collisions with Other Motor Vehicles - All	94,304	94,433	-0.1%
Collisions with Other Motor Vehicles - Fatal	273	274	-0.4%
One Car (Fixed Object-Overtuned, Etc.) - All	27,090	27,483	-1.4%
One Car (Fixed Object-Overtuned, Etc.) - Fatal	319	308	3.6%
Collisions with Pedestrians - All Collisions	1,729	1,746	-1.0%
Collisions with Pedestrians - Fatal Collisions	94	89	5.6%
Collisions with Pedalcyclists - All Collisions	1,348	1,575	-14.4%
Collisions with Pedalcyclists - Fatal Collisions	12	18	-33.3%
Collisions with RR Train - All Collisions	94	102	-7.8%
Collisions with RR Train - Fatal Collisions	6	7	-14.3%
Collisions with Animal - All Collisions	1,355	1,468	-7.7%
Collisions with Animal - Fatal Collisions	2	3	-33.3%

RT-3b

COLLISION BY TYPE OF VEHICLE Two Year Comparison			
Type	1988	1987	% Change From 1987
Passenger Cars Involved in All Collisions	156,354	158,321	-1.2%
Passenger Cars Involved in Fatal Collisions	603	600	0.5%
Lightweight Trucks Involved in All Collisions	56,405	53,714	5.0%
Lightweight Trucks Involved in Fatal Collisions	283	274	3.3%
Heavy Trucks Involved in All Collisions	6,149	6,447	-4.6%
Heavy Trucks Involved in Fatal Collisions	79	57	38.6%
Motorcycles Involved in All Collisions	2,813	3,443	-18.3%
Motorcycles Involved in Fatal Collisions	73	91	-19.8%

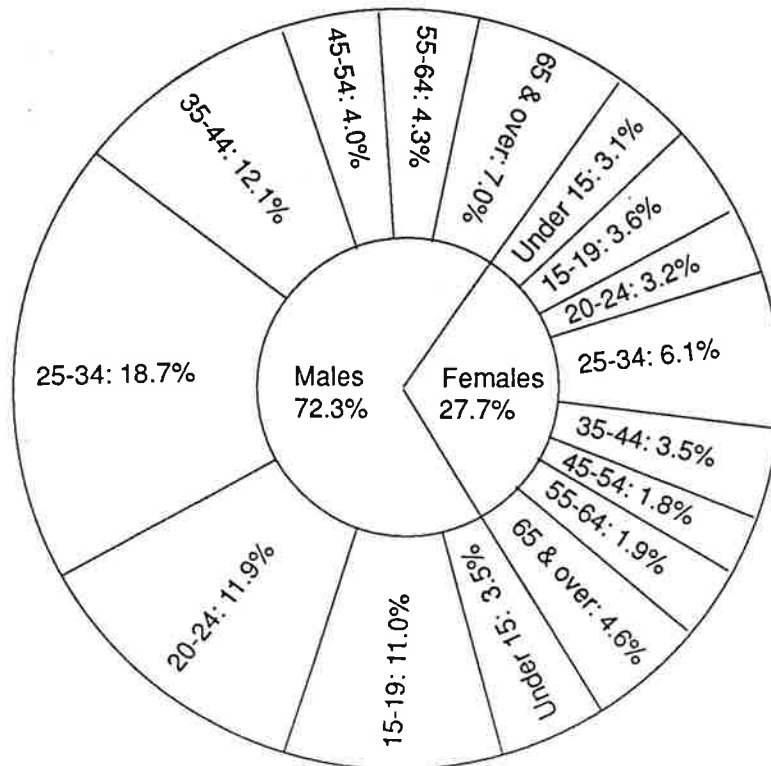
# Traffic Fatalities

In 1988 and Percent of Change from 1987



## Traffic Fatalities by Age and Sex

1988



PERSONS KILLED AND INJURED By Age By Status								
Age	Total		Occupants		Pedestrians		Pedalcyclists	
	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
0 - 4	20	1,292	9	1,172	10	97	0	0
5 - 9	17	1,990	8	1,545	4	234	5	4
10 - 14	14	2,291	9	1,706	3	197	2	1
15 - 19	113	12,175	103	11,732	10	190	0	0
20 - 24	117	11,477	114	12,169	3	149	0	0
25 - 34	192	17,031	175	16,577	15	295	2	2
35 - 44	120	11,124	106	10,831	12	210	2	2
45 - 54	45	5,257	38	5,122	7	95	0	0
55 - 64	48	3,554	41	3,436	7	96	0	0
65 - 74	40	2,432	31	2,348	8	74	1	1
75/Older	50	1,445	35	1,349	15	91	0	0
Not Stated	9	2,381	6	2,230	3	92	0	0
TOTAL*	785	72,449	675	70,217	97	1,820	12	10

\*Total Injured includes 402 injured where the status of the injured was unknown.  
There was 1 person killed where the status of the fatality was unknown.

COMPARISON OF TRAFFIC DEATHS BY MONTH Three Year Comparison								
Month	1988		1987		1986		% Change 87 to 88	
	Month Total	Year To Date	Month Total	Year To Date	Month Total	Year To Date	Month Total	Year To Date
January	40	40	54	54	42	42	-25.9%	-25.9%
February	42	82	52	106	28	70	-19.2%	-22.6%
March	70	152	62	168	56	126	12.9%	-9.5%
April	55	207	55	223	60	186	0.0%	-7.2%
May	69	276	50	273	73	259	38.0%	1.1%
June	82	358	77	350	73	332	6.5%	2.3%
July	86	444	73	423	70	402	17.8%	5.0%
August	79	523	84	507	69	471	-6.0%	3.2%
September	70	593	90	597	51	522	-22.2%	-0.7%
October	66	659	69	666	67	589	-4.3%	-1.1%
November	66	725	73	739	64	653	-9.6%	-1.9%
December	60	785	51	790	61	714	17.6%	-0.6%

TRAFFIC SAFETY STATISTICS 1972-1988								
Year	Licensed Drivers	Population	Vehicle		Traffic			
			Registration	Miles (Millions)	Collisions	Injuries	Deaths	Fatality Rate**
1972	2,011,893	3,418,800	2,315,310	22,363.0	101,002	55,454	855	3.82
1973	2,113,460	3,424,300	2,453,880	23,457.0	105,515	58,039	776	3.31
1974	2,122,131	3,448,100	2,545,975	22,585.0	106,242	57,716	761	3.37
1975	2,176,505	3,493,990	2,640,944	24,023.0	120,635	64,145	771	3.21
1976	2,324,697	3,571,591	2,785,500	25,932.0	120,864	66,309	825	3.18
1977*	2,339,215	3,661,975	2,952,383	27,449.0	119,058	71,356	927	3.38
1978	2,485,248	3,774,300	3,042,265	29,378.0	116,923	64,669	1,006	3.42
1979	2,579,368	3,911,200	3,186,898	29,122.0	118,686	65,399	1,034	3.55
1980	2,662,659	4,109,853	3,293,065	28,696.0	113,751	61,532	985	3.43
1981	2,732,722	4,248,100	3,408,871	30,346.0	111,993	61,083	872	2.87
1982	2,774,212	4,264,000	3,313,348	30,353.0	100,644	54,789	757	2.49
1983	2,867,032	4,285,100	3,372,966	32,275.0	106,597	58,317	705	2.18
1984	2,973,468	4,328,100	3,459,772	33,344.0	111,655	61,366	761	2.28
1985	2,980,717	4,384,100	3,546,152	33,978.0	120,056	63,806	756	2.22
1986	3,029,375	4,419,700	3,651,102	36,416.0	122,918	66,707	714	1.96
1987*	3,156,600	4,481,100	3,833,058	38,520.0	126,807	67,665	790	2.05
1988	3,264,065	4,565,000	3,896,828	40,215.9	125,920	72,449	785	1.95

\*Minimum damage for a reportable collision was increased from \$100 to \$300 to the property of one person on 7-1-77 and to \$500 on 10-1-87.

\*\*Traffic deaths per 100 million vehicle miles of travel.

COMPARISON OF SEVERITY OF INJURY BY YEAR  
1961-1988

Year	Traffic Deaths	Injuries			
		A Disabling Injury	B Non-Disabling Injury	C Possible Injury	Total Injuries
1961	580	9,566	10,568	12,772	32,906
1962	611	10,810	10,669	13,090	34,569
1963	633	10,700	11,149	13,090	34,939
1964	731	11,801	11,971	14,026	37,798
1965	729	11,207	12,417	13,279	36,903
1966	828	10,114	16,521	14,692	41,327
1967	876	10,405	18,826	16,490	45,721
1968	931	10,639	20,157	18,650	49,446
1969	834	10,406	18,855	18,093	47,354
1970*	875	7,075	24,241	22,149	53,465
1971	876	7,294	23,462	24,343	55,099
1972	855	6,937	23,459	25,058	55,454
1973	776	7,650	23,907	26,482	58,039
1974	761	7,668	23,503	26,545	57,716
1975	771	8,136	26,083	29,926	64,145
1976	825	8,991	27,186	30,132	66,309
1977	927	9,634	28,308	33,414	71,356
1978**	1,006	10,309	26,618	27,742	64,669
1979	1,034	10,579	27,298	27,522	65,399
1980	985	9,945	25,898	25,689	61,532
1981	872	9,177	25,732	26,174	61,083
1982	757	8,276	22,340	24,173	54,789
1983	705	8,400	23,938	25,979	58,317
1984	761	8,254	24,833	28,279	61,366
1985	756	8,212	25,566	30,028	63,806
1986	714	8,348	26,403	31,956	66,707
1987	790	8,506	26,328	32,831	67,665
1988	785	8,318	26,496	37,635	72,449

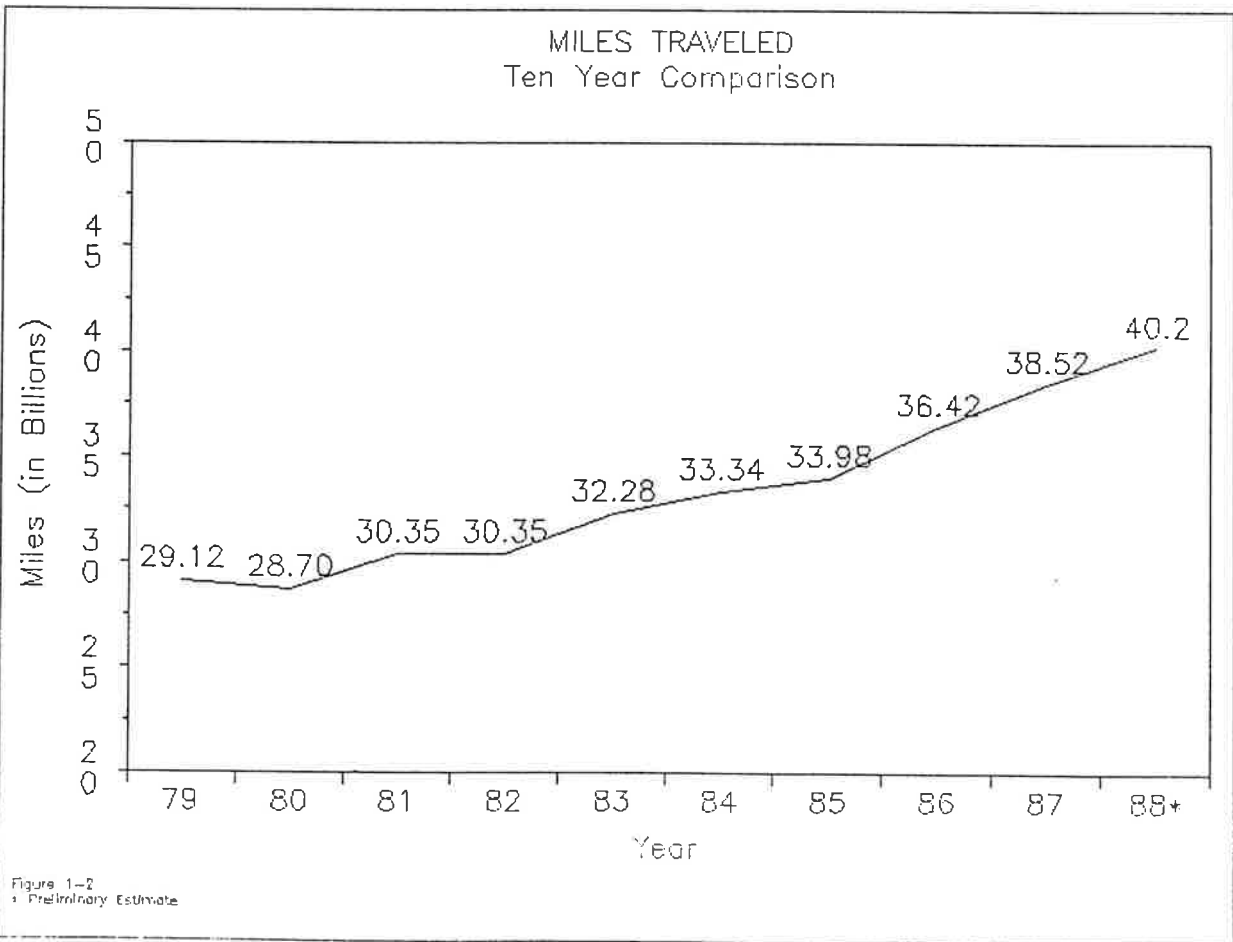
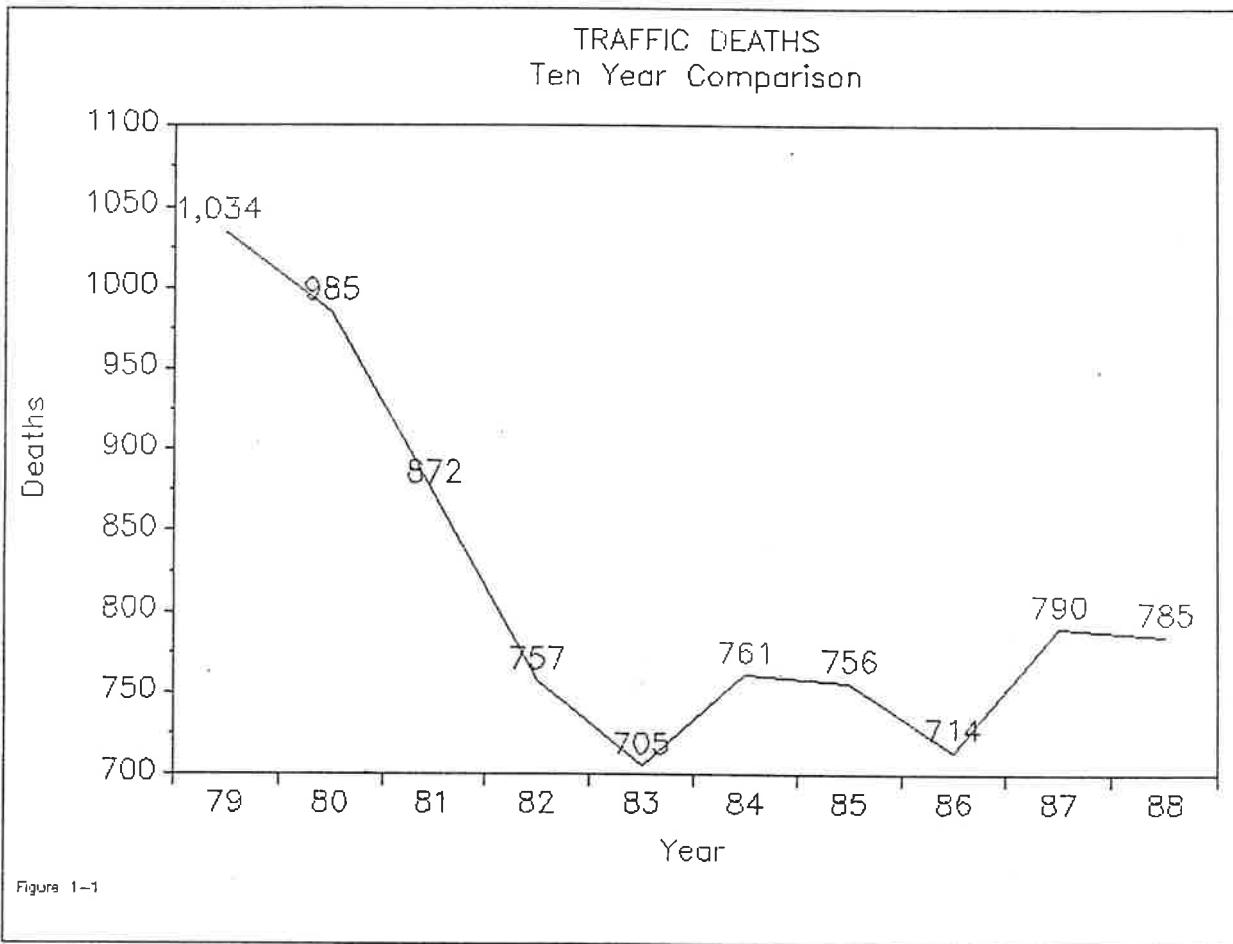
\*New statewide investigator's report adopted with all police agencies reporting.

\*\*WSP policy change using only information on the investigator's report in reporting severity of injury--drivers' reports not used when collision investigated.



COLLISIONS By Time									
Time Hour Reporting	Total			Monday - Thursday			Friday - Sunday		
	All	Injury	Fatal	All	Injury	Fatal	All	Injury	Fatal
Midnight	3,039	1,236	45	1,079	425	21	1,960	811	24
1:00	2,995	1,270	43	968	393	14	2,027	877	29
2:00	2,842	1,254	50	892	367	18	1,950	887	32
3:00	1,415	559	24	430	158	8	985	401	16
4:00	1,011	392	13	385	131	1	626	261	12
5:00	1,262	468	10	625	229	3	637	239	7
6:00	2,769	1,065	13	1,816	699	6	953	366	7
7:00	5,460	2,103	15	3,942	1,536	9	1,518	567	6
8:00	4,689	1,698	13	3,075	1,141	8	1,614	557	5
9:00	4,177	1,503	19	2,515	912	10	1,662	591	9
10:00	4,846	1,725	13	2,854	999	7	1,992	726	6
11:00	6,300	2,293	21	3,673	1,309	11	2,627	984	10
Noon	7,264	2,786	22	4,024	1,494	13	3,240	1,292	9
1:00	7,247	2,767	23	4,094	1,550	16	3,153	1,217	7
2:00	8,486	3,242	27	4,885	1,863	10	3,601	1,379	17
3:00	10,078	3,941	43	5,962	2,292	24	4,116	1,649	19
4:00	10,932	4,400	36	6,615	2,659	20	4,317	1,741	16
5:00	10,803	4,445	45	6,568	2,681	17	4,235	1,764	28
6:00	7,578	3,113	45	4,265	1,727	23	3,313	1,386	22
7:00	5,895	2,422	38	3,090	1,245	16	2,805	1,177	22
8:00	4,577	1,842	33	2,338	938	17	2,239	904	16
9:00	4,428	1,781	39	2,198	883	22	2,230	898	17
10:00	3,976	1,603	30	1,848	748	14	2,128	855	16
11:00	3,851	1,574	46	1,560	655	15	2,291	919	31
TOTAL	125,920	49,482	706	69,701	27,034	323	56,219	22,448	383

Traffic Deaths, Miles Traveled, Death Rate, Reported Collisions & Injuries



DEATH RATE  
(Per 100 Million Vehicle Miles)

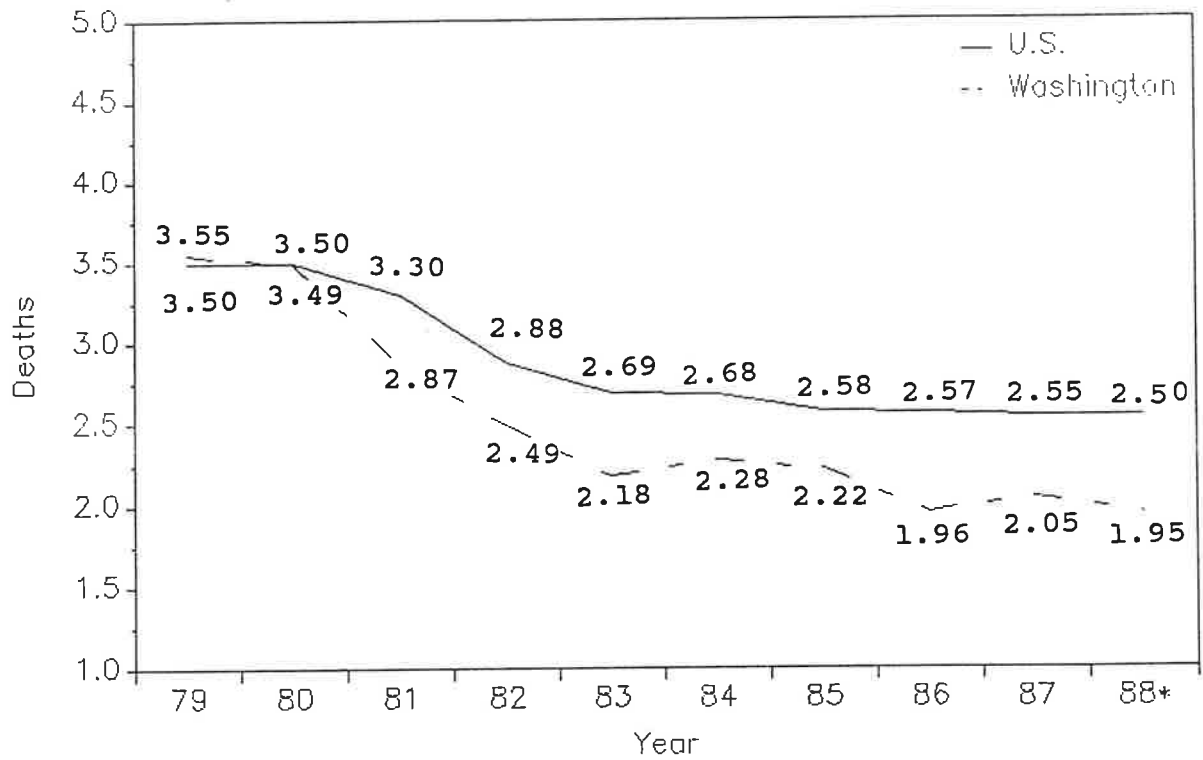


Figure 1-3  
• Preliminary Estimate

TOTAL REPORTED COLLISIONS & INJURIES  
Ten Year Comparison

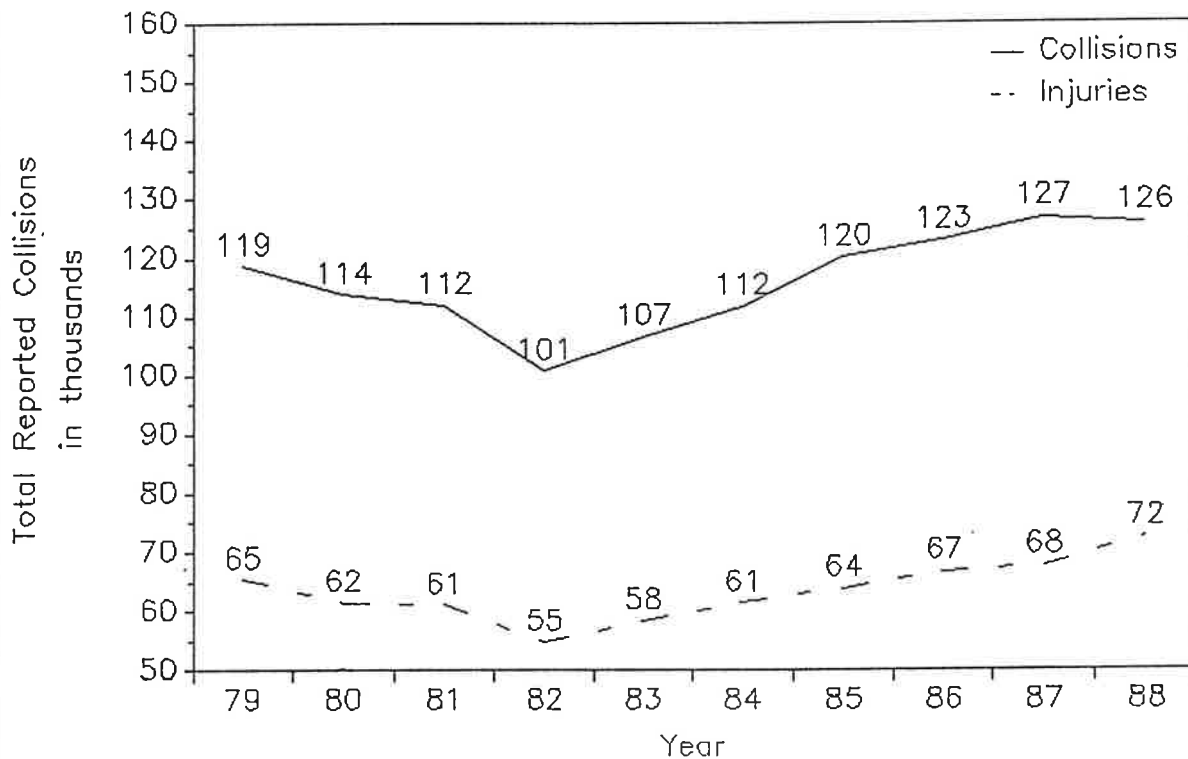
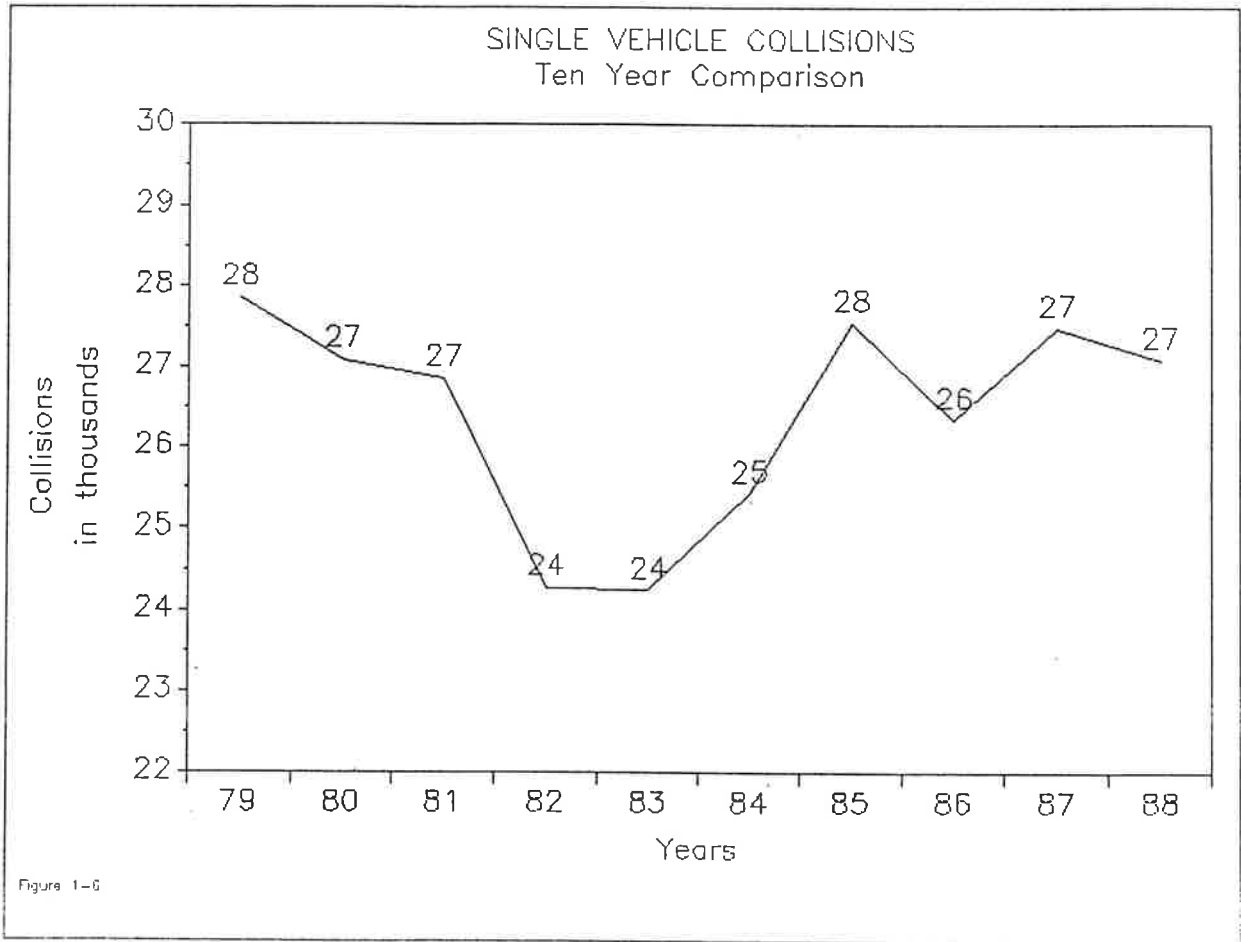
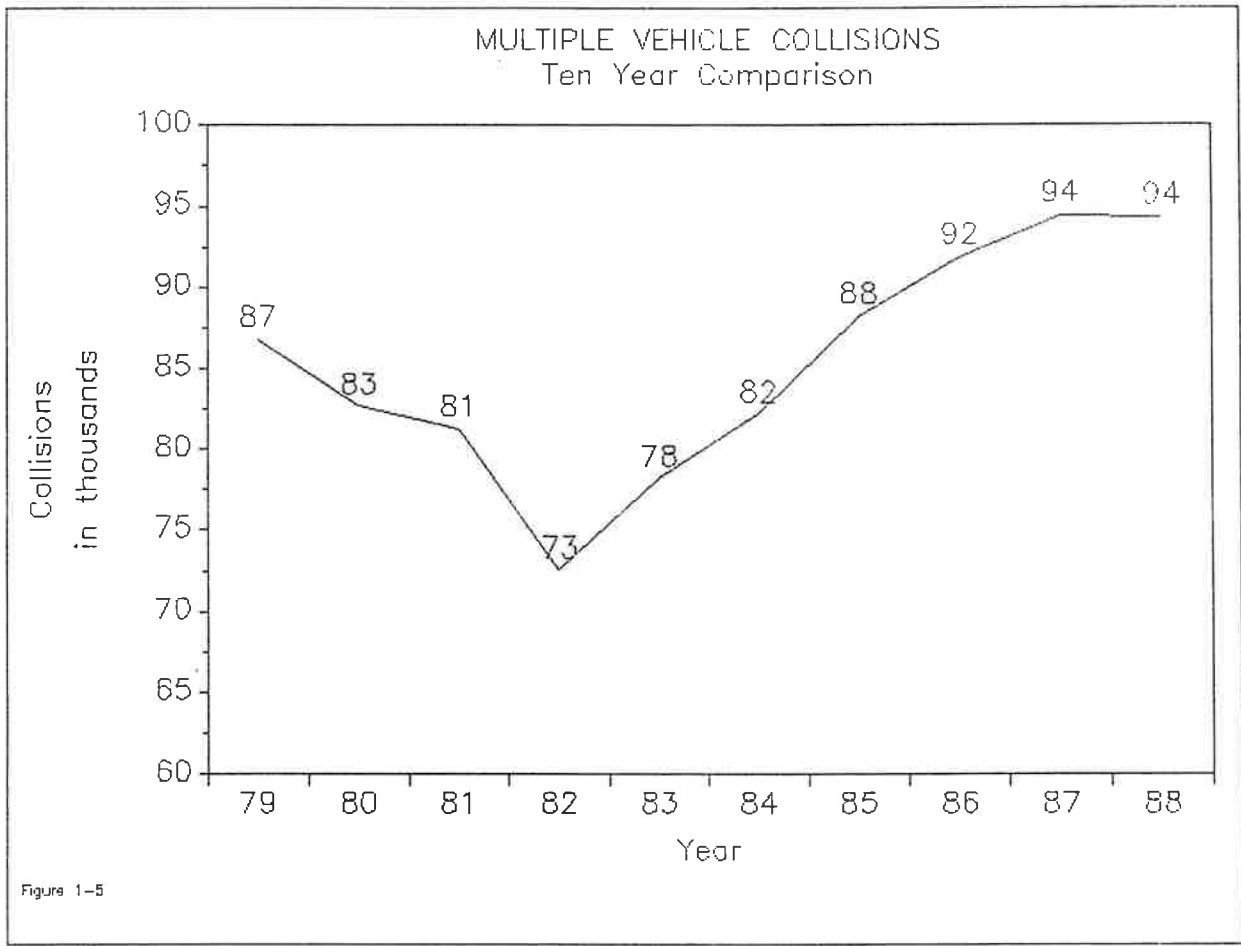


Figure 1-4



VEHICLE-PEDESTRIAN COLLISIONS  
Ten Year Comparison

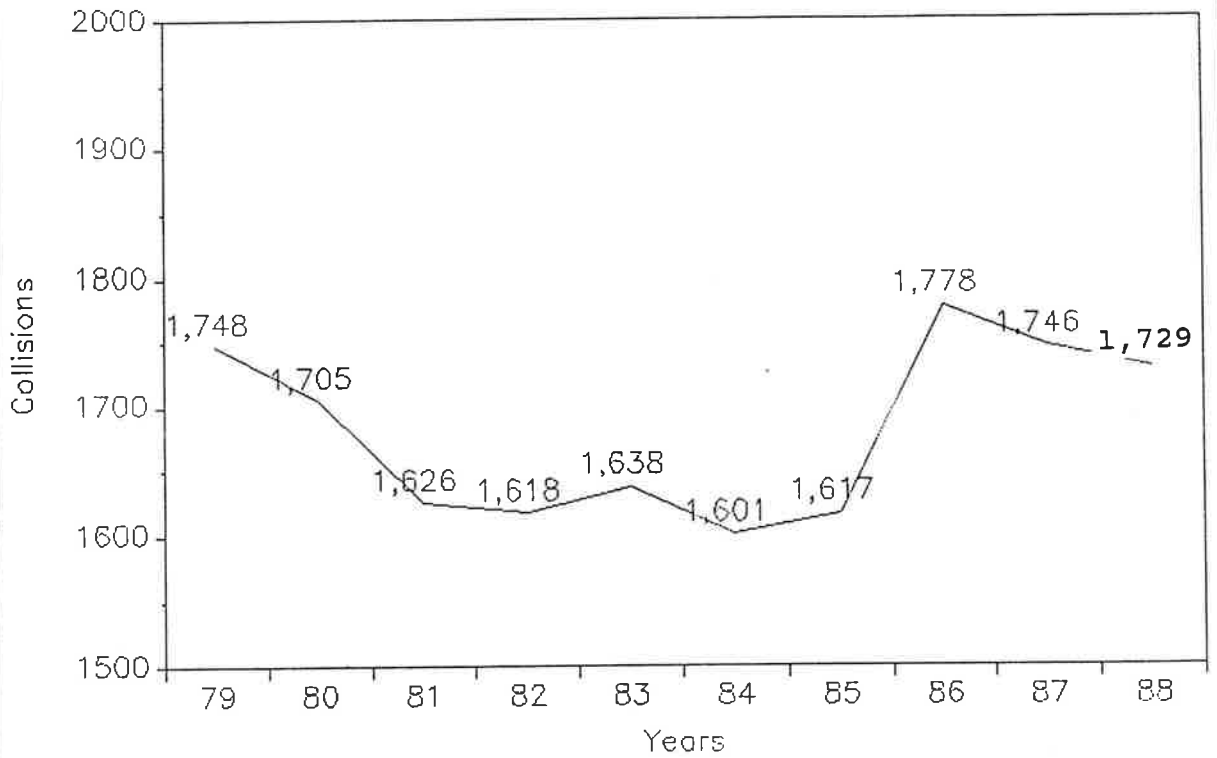


Figure 1-7

VEHICLE-PEDALCYCLIST COLLISIONS  
Ten Year Comparison

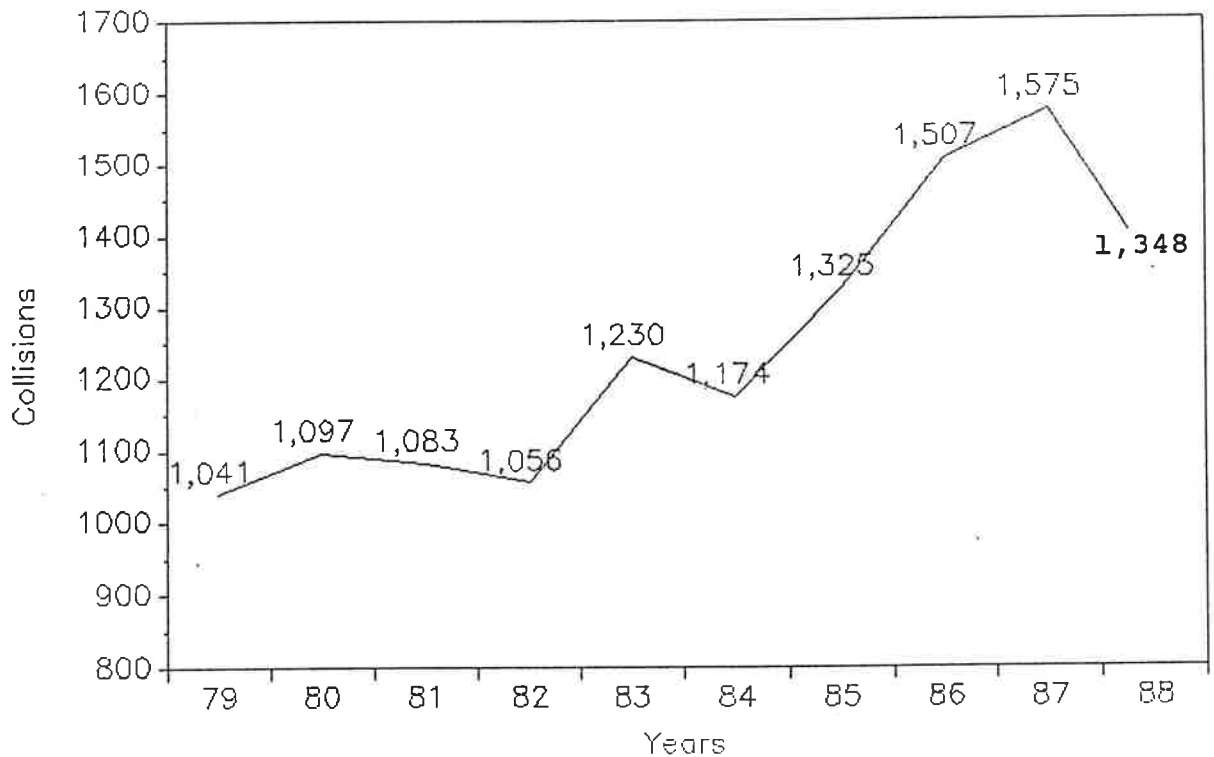


Figure 1-8

SUMMARY OF MOTOR VEHICLE TRAFFIC COLLISIONS  
Statewide

Description	Incorporated Areas*	Other Areas*	Statewide Totals
Total Number of Collisions	74,407	51,513	125,920
Total Number of Drivers	139,422	83,740	223,162
Total Number of Vehicles	147,415	85,774	233,189
Number of Fatal Collisions	187	519	706
Number of Injury Collisions	27,180	22,302	49,482
Number of Property Damage Collisions	47,040	28,692	75,732
Number of Persons Killed	204	581	785
Number of Disabling Injury	3,439	4,879	8,318
Number of Non-disabling Injury	12,629	13,867	26,496
Number of Possible Injury	22,525	15,110	37,635
Total Number of Persons Injured	38,593	33,856	72,449
Number of Collisions Investigated by W.S.P.	6,979	30,024	37,003
Number of Collisions Investigated by Other Law Enforcement	49,402	12,683	62,085
Total Number of Investigated Collisions	56,381	42,707	99,088
Percent of Collisions Investigated	75.8%	82.9%	78.7%
Total Number of Drivers-Investigated Collisions	103,787	67,530	171,317
Total Number of Vehicles-Investigated Collisions	110,764	69,232	179,996
Number of Arrests Investigated Collisions	38,496	27,391	65,887

\*2,500 population &amp; over

\*\*Under 2,500 population &amp; unincorporated areas

WSP-2

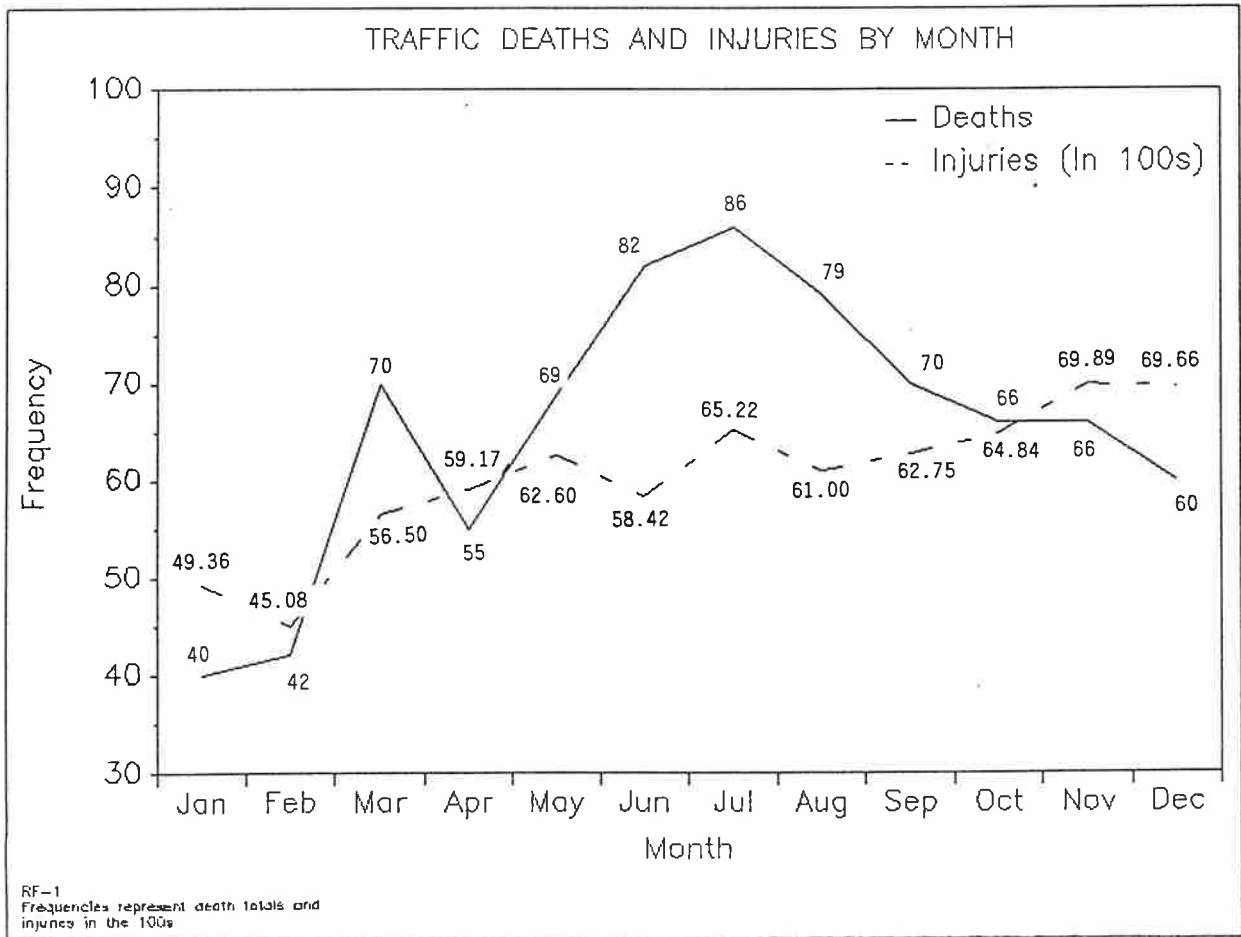
SUMMARY OF MOTOR VEHICLE TRAFFIC COLLISIONS  
By Type of Collision

Type of Accident	Number of Collisions				Number of Persons					
	Total	Fatal	Non Fatal	Property Damage	Total Killed	Total Injured	A.	B.	C.	No Injury
Overturning	5,838	93	3,153	2,592	97	4,411	849	2,336	1,226	4,341
Other Non-collision	455	8	187	260	8	238	70	97	71	522
Pedestrian	1,729	94	1,630	5	95	1,740	502	812	426	2,144
Motor Vehicle Transport	86,566	253	33,310	53,003	305	51,421	4,409	15,503	31,509	86,339
Motor Vehicle On Other Roadway	16	5	6	5	5	14	2	6	6	35
Parked Motor Vehicle	7,722	15	1,207	6,500	16	1,565	190	781	594	8,429
Railway Train	94	6	33	55	7	40	10	18	12	73
Pedalcyclist	1,348	12	1,318	18	12	1,375	287	815	273	1,687
Animal	1,355	2	209	1,144	2	253	48	112	93	1,548
Fixed Object	19,943	207	8,106	11,630	225	10,908	1,868	5,808	3,232	17,035
Other Object	854	11	323	520	13	484	83	208	193	1,219
<b>TOTAL</b>	<b>125,920</b>	<b>706</b>	<b>49,482</b>	<b>75,732</b>	<b>785</b>	<b>72,449</b>	<b>8,318</b>	<b>26,496</b>	<b>37,635</b>	<b>123,372</b>

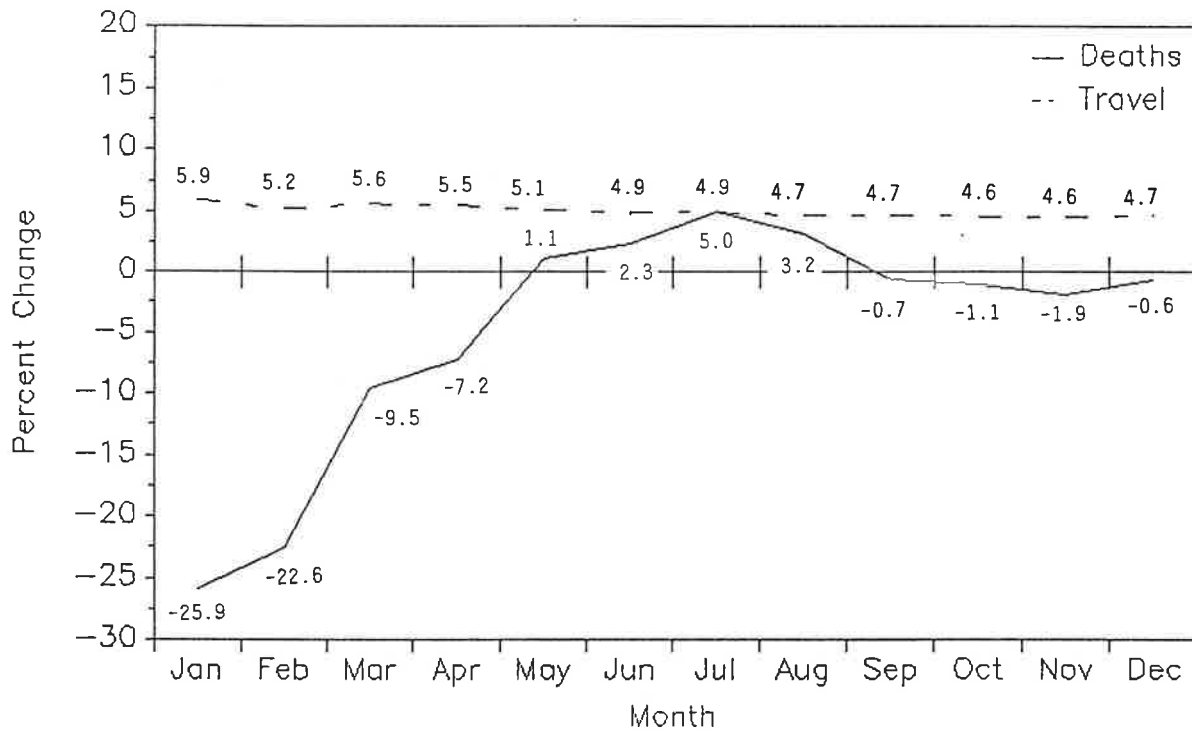
NOTE: The three categories of injuries follow the manual on classification of motor vehicle accidents (3rd edition)

- A. Disabling injury, an injury other than fatal that prevents the injured person from continuing normal activities.  
 B. Non-disabling injury, an injury other than incapacitating that is evident to anyone viewing the injured party.  
 C. Possible injury, an injury that is reported or claimed but is not an incapacitating or evident injury.

SUMMARY OF MOTOR VEHICLE COLLISIONS Statewide - By Month						
Month	Collisions				Persons	
	Total	Fatal	Injury	Property Damage	Number Killed	Number Injured
January	9,684	38	3,364	6,282	40	4,936
February	8,064	38	3,129	4,897	42	4,508
March	10,063	60	3,896	6,107	70	5,650
April	10,252	54	4,009	6,189	55	5,917
May	10,316	55	4,253	6,008	69	6,260
June	9,758	74	3,972	5,712	82	5,842
July	10,449	73	4,436	5,940	86	6,522
August	9,818	76	4,090	5,652	79	6,100
September	10,606	66	4,274	6,266	70	6,275
October	11,228	61	4,454	6,713	66	6,484
November	12,601	57	4,829	7,715	66	6,989
December	13,081	54	4,776	8,251	60	6,966
<b>TOTAL</b>	<b>125,920</b>	<b>706</b>	<b>49,482</b>	<b>75,732</b>	<b>785</b>	<b>72,449</b>



PERCENTAGE CHANGE OF ACCUMULATED  
TRAFFIC DEATHS AND TRAVEL BY MONTH  
1987 vs 1988



Deaths: Accumulated Fatal % Change  
Travel: Accumulated Travel % Change  
RF-2



STATEWIDE COLLISION CONTRIBUTING CIRCUMSTANCES - BY COUNTY Top Ten Driver Violations*												
County	FTYROW**	Speed Condition	DWI	Following To Close	Disregard Sign/Sig.	Defective Equipment	Speed Legal	Over Center	Inattention	Improper Turn	Total Top Ten	All Others
Adams	58	82	23	3	8	25	8	8	50	8	273	64
Asotin	48	33	24	19	17	3	22	1	37	6	210	23
Benton	435	376	198	207	167	55	85	29	192	63	1,807	130
Chelan	226	321	121	147	86	67	53	51	120	50	1,242	96
Clallam	237	204	128	115	53	44	72	32	96	34	1,015	101
Clark	933	618	343	338	375	147	178	86	499	126	3,643	260
Columbia	4	26	6	4	3	6	7	2	10	0	68	16
Cowlitz	369	367	174	119	165	114	93	30	217	47	1,695	101
Douglas	83	115	35	47	28	24	15	18	63	8	436	49
Ferry	2	51	26	1	2	10	10	9	11	2	124	17
Franklin	223	144	101	67	68	40	47	26	110	19	845	67
Garfield	2	15	3	1	0	1	4	0	3	1	30	8
Grant	175	177	96	71	45	50	40	19	122	47	842	134
Grays Harbor	338	388	198	132	116	65	104	50	265	81	1,737	118
Island	139	189	56	73	51	28	68	25	98	12	739	80
Jefferson	45	136	62	20	15	16	24	9	53	4	384	42
King	10,130	7,161	2,667	4,564	2,768	1,124	1,426	794	8,413	1,356	40,403	2,121
Kitsap	729	839	433	276	235	114	272	73	291	73	3,335	283
Kittitas	92	524	73	41	39	68	48	16	135	11	1,047	164
Klickitat	21	114	28	13	5	20	9	13	31	6	260	36
Lewis	244	392	140	80	71	71	67	42	189	37	1,333	141
Lincoln	10	55	14	7	6	12	10	2	29	2	147	33
Mason	112	294	114	60	24	46	54	44	76	10	834	81
Okanogan	56	228	100	22	13	29	38	23	75	13	597	94
Pacific	57	98	47	16	21	20	25	15	47	9	355	53
Pend Orielle	15	54	18	8	8	13	6	10	22	5	159	19
Pierce	3,663	3,106	1,347	1,768	1,361	426	647	273	1,537	475	14,603	888
San Juan	11	31	28	4	7	11	24	4	16	1	137	9
Skagit	358	426	211	145	83	78	104	46	252	35	1,738	175
Skamania	12	65	27	6	2	20	7	17	26	1	183	22
Snohomish	2,271	2,281	1,089	1,085	668	314	462	292	914	350	9,726	638
Spokane	1,852	1,189	577	731	949	173	302	124	812	300	7,009	378
Stevens	45	156	56	12	10	29	28	22	41	7	406	53
Thurston	830	829	289	345	225	143	146	75	381	118	3,381	261
Wahkiakum	5	18	14	2	2	9	8	5	13	2	78	12
Walla Walla	191	147	76	60	83	26	43	22	149	20	817	72
Whatcom	613	592	298	222	207	106	129	72	356	98	2,693	243
Whitman	100	187	58	39	30	26	25	27	89	19	600	77
Yakima	933	632	504	271	334	121	162	70	512	127	3,666	315
Statewide	25,667	22,660	9,802	11,141	8,350	3,694	4,872	2,476	16,352	3,583	108,597	7,474

\*Investigated Collisions Only  
 \*\*Failure to Yield Right of Way

SUMMARY OF MOTOR VEHICLE COLLISIONS*											
By Age & Violation											
Driver Age	FTYROW**	Speed Condition	DWI	Following To Close	Disregard Sign/Sig.	Defective Equipment	Speed Legal	Over Center	Improper Pass	Other Circum.	Total
15 & Under	75	124	27	20	17	14	59	9	7	113	465
16	779	802	77	287	222	107	237	99	62	647	3,319
17	1,102	1,151	150	493	332	197	371	128	103	973	5,000
18	1,177	1,357	253	607	402	226	383	134	127	1,063	5,729
19	962	1,233	331	553	404	222	359	124	108	940	5,236
20	830	1,039	348	477	333	156	266	86	90	767	4,392
21	735	977	401	421	291	176	274	119	68	849	4,311
22	697	860	424	432	270	145	234	96	71	677	3,906
23	673	776	435	384	253	154	190	70	77	616	3,628
24	693	771	422	353	261	133	177	63	77	630	3,580
25	725	742	413	377	249	118	170	89	65	610	3,558
26	606	701	413	369	224	117	160	81	57	650	3,378
27	595	655	415	344	222	120	139	64	62	558	3,174
28	587	647	429	296	204	112	135	67	49	568	3,094
29	557	524	348	317	204	98	94	60	47	524	2,773
30-34	2,586	2,447	1,565	1,307	851	397	414	290	221	2,446	12,524
35-39	2,198	1,695	987	975	658	332	250	196	146	1,968	9,405
40-44	1,654	1,213	647	701	456	221	177	152	120	1,398	6,739
45-49	1,123	811	356	447	305	144	87	65	76	877	4,291
50-54	911	543	253	321	258	71	47	55	48	683	3,190
55-59	877	446	198	290	237	70	33	44	52	581	2,828
60-64	923	336	150	251	228	52	19	36	37	531	2,563
65-69	879	249	104	208	228	49	11	29	37	523	2,317
70-74	911	186	59	166	229	36	14	26	20	408	2,055
75 & Over	1,494	209	33	189	344	38	24	38	25	630	3,024
Not Stated	1,318	2,166	564	556	668	189	548	256	184	5,145	11,594
TOTAL	25,667	22,660	9,802	11,141	8,350	3,694	4,872	2,476	2,036	25,375	116,073

\*Investigated Collisions Only

\*\*Failure to Yield Right of Way

SUMMARY OF MOTOR VEHICLE TRAFFIC COLLISIONS Statewide - By Investigating Agency					
Statewide	Investigating Agency				Total
	Washington State Patrol	Sheriff	Other Law Enforcement	Not Investigated	
<b>Collision Totals</b>					
Total	37,003	11,268	50,817	26,832	125,920
Fatal	491	69	146	0	706
Injury	17,204	5,089	19,443	7,746	49,482
Property Damage	19,308	6,110	31,228	19,086	75,732
Freeway	10,794	174	1,068	3,294	15,330
Rural-State Route	12,237	506	661	2,243	15,647
County Road	12,538	10,014	199	5,026	27,777
Other Routes	1,434	574	48,889	16,269	67,166
Single Vehicle - All	15,201	3,525	5,720	1,335	25,781
Single Vehicle - Fatal	232	27	41	0	300
Multiple Vehicle - All	19,188	6,622	37,401	23,371	86,582
Multiple Vehicle - Fatal	178	30	50	0	258
<b>All Collisions - Main Causes</b>					
Exceeding Legal or Safe Speed	16,701	3,418	7,413	*NA	27,532
Failure to Yield Right of Way	5,401	2,776	17,490		25,667
Driving While Intoxicated	4,942	1,189	3,671		9,802
Falling Asleep or Inattention	4,719	1,578	11,976		18,273
Following Too Close	4,448	1,077	5,616		11,141
Disregarding Signs or Signals	1,584	869	5,897		8,350
<b>Fatal Collisions - Main Causes</b>					
Driving While Intoxicated	257	33	63	*NA	353
Exceeding Legal or Safe Speed	231	37	61		329
Failure to Yield Right of Way	27	10	26		63
Crossing Over Center Line	88	11	15		114
Disregarding Signs or Signals	32	9	11		52
Falling Asleep or Inattention	53	3	18		74

\*Driver violations come from investigated collisions only

DRIVER DISTRIBUTION By Age Group & Sex								
Age Group	Involved in Collisions				Licensed Drivers		Over/Under Ratio	
	Total		Fatal					
	Number	%	Number	%	Number	%	Total	Fatal
Under 16	585	0.30%	2	0.21%	0	0.00%	0.00	0.00
16	4,725	2.41%	15	1.54%	26,719	0.82%	2.94	1.89
17	7,516	3.83%	29	2.99%	45,012	1.38%	2.78	2.17
18	8,648	4.40%	43	4.43%	57,474	1.76%	2.50	2.51
19	7,994	4.07%	41	4.22%	61,405	1.88%	2.16	2.24
20	6,933	3.53%	33	3.40%	56,430	1.73%	2.04	1.97
21	6,559	3.34%	28	2.88%	58,144	1.78%	1.88	1.62
22	6,220	3.17%	35	3.60%	59,389	1.82%	1.74	1.98
23	6,027	3.07%	36	3.71%	64,653	1.98%	1.55	1.87
24	6,073	3.09%	31	3.19%	68,301	2.09%	1.48	1.53
25-29	28,546	14.54%	158	16.27%	387,057	11.86%	1.23	1.37
30-34	24,743	12.60%	121	12.46%	418,138	12.81%	0.98	0.97
35-39	20,747	10.57%	125	12.87%	398,802	12.22%	0.86	1.05
40-44	15,917	8.11%	83	8.55%	344,830	10.56%	0.77	0.81
45-49	10,634	5.42%	44	4.53%	256,806	7.87%	0.69	0.58
50-54	7,912	4.03%	40	4.12%	197,826	6.06%	0.66	0.68
55-59	6,805	3.47%	36	3.71%	176,368	5.40%	0.64	0.69
60-64	5,982	3.05%	32	3.30%	172,487	5.28%	0.58	0.62
65-69	5,097	2.60%	23	2.37%	159,989	4.90%	0.53	0.48
70 & Over	8,700	4.43%	16	1.65%	254,235	7.79%	0.57	0.21
TOTAL	196,363	100.00%	971	100.00%	3,264,065	100.00%		
Male	129,698	62.36%	796	78.42%	1,698,435	52.03%	1.20	1.51
Female	78,295	37.64%	219	21.58%	1,565,630	47.97%	0.78	0.45
TOTAL	207,993	100.00%	1,015	100.00%	3,264,065	100.00%		

Total does not include 26,802 drivers whose age was not stated.

There were 15,172 cases where the sex of the driver was not stated.

### Senior Driver Collisions

RT-8a

SENIOR DRIVER COLLISIONS - 55 YEARS & OLDER Five Year Comparison							
Collisions & Rates	Years					Previous 4 Year Average	% of Change 88 - 4 Year Average
	1988	1987	1986	1985	1984		
Total Collisions	24,540	24,473	25,842	24,978	23,630	24,731	-0.8%
Fatal Collisions	137	149	140	144	149	146	-5.8%
Injury Collisions	9,385	8,896	9,560	9,264	8,855	9,144	2.6%
Licensed Drivers	763,079	741,653	719,784	706,719	686,985	713,785	6.9%
Fatal Collision Ratio*	5.58	6.09	5.42	5.77	6.31	5.89	-5.3%
Fatal Rate**	0.18	0.20	0.19	0.20	0.22	0.20	-11.8%
Total Collision Rate***	3.21	3.30	3.59	3.53	3.44	3.47	-7.4%

\* Fatal Collisions per 1,000 total collisions  
 \*\* Fatal Collisions per 1,000 licensed drivers  
 \*\*\* Senior drivers involved per 100 licensed

RT-8b

SENIOR DRIVER COLLISIONS - 55 YEARS & OLDER Percent of Total Circumstances by Age Group										
Contributing Circumstances*	55-59		60-64		65-69		70-74		75 & Older	
	Number	%	Number	%	Number	%	Number	%	Number	%
Failure to Yield Right of Way	877	31.0%	923	36.0%	879	37.9%	911	44.3%	1,494	49.4%
Speed--Too Fast For Conditions	446	15.8%	336	13.1%	249	10.7%	186	9.1%	209	6.9%
Disregarding Traffic Signal/Signs	237	8.4%	228	8.9%	228	9.8%	229	11.1%	344	11.4%
Following Too Closely	290	10.3%	251	9.8%	208	9.0%	166	8.1%	189	6.3%
Driving While Under the Influence	198	7.0%	150	5.9%	104	4.5%	59	2.9%	33	1.1%
Operating Defective Equipment	70	2.5%	52	2.0%	49	2.1%	36	1.8%	38	1.3%
Crossing Over the Centerline	44	1.6%	36	1.4%	29	1.3%	26	1.3%	38	1.3%
Exceeding Legal Speed	33	1.2%	19	0.7%	11	0.5%	14	0.7%	24	0.8%
All Other Circumstances including Driver Inattention	633	22.4%	568	22.2%	560	24.2%	428	20.8%	655	21.7%
<b>TOTAL</b>	<b>2,828</b>	<b>100.0%</b>	<b>2,563</b>	<b>100.0%</b>	<b>2,317</b>	<b>100.0%</b>	<b>2,055</b>	<b>100.0%</b>	<b>3,024</b>	<b>100.0%</b>

\*Investigated collisions only

## Teenage Driver Collisions

RT-8c

TEENAGE DRIVER COLLISIONS - 19 YEARS & YOUNGER Five Year Comparison							
Collisions & Rates	Years					Previous 4 Year Average	% of Change 88 - 4 Year Average
	1988	1987	1986	1985	1984		
Total Collisions	27,017	28,575	27,110	24,860	24,210	26,189	3.2%
Teenage Drivers Involved	29,348	31,084	29,346	26,820	26,115	28,341	3.6%
Fatal Collisions	125	131	148	132	136	137	-8.6%
Injury Collisions	11,254	11,379	11,013	9,947	9,716	10,514	7.0%
Licensed Drivers	190,610	186,587	181,922	177,153	176,061	180,431	5.6%
Fatal Collision Ratio*	4.63	4.58	5.46	5.31	5.62	5.24	-11.7%
Fatal Rate**	0.66	0.70	0.81	0.75	0.77	0.76	-13.5%
Total Collision Rate***	15.40	16.66	16.13	15.14	14.83	15.69	-1.9%

\* Fatal Collisions per 1,000 total collisions

\*\* Fatal Collisions per 1,000 licensed drivers

\*\*\* Teenage drivers involved per 100 licensed

RT-8d

TEENAGE DRIVER COLLISIONS - 19 YEARS & YOUNGER Percent of Total Circumstances by Age Group										
Contributing Circumstances*	16 & Younger		17		18		19		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%
Speed--Too Fast For Conditions	926	24.5%	1,151	23.0%	1,357	23.7%	1,233	23.5%	4,667	23.6%
Failure to Yield Right of Way	854	22.6%	1,102	22.0%	1,177	20.5%	962	18.4%	4,095	20.7%
Following Too Closely	307	8.1%	493	9.9%	607	10.6%	553	10.6%	1,960	9.9%
Exceeding Legal Speed	296	7.8%	371	7.4%	383	6.7%	359	6.9%	1,409	7.1%
Disregarding Traffic Sig./Signs	239	6.3%	332	6.6%	402	7.0%	404	7.7%	1,377	7.0%
Driving Under the Influence	104	2.7%	150	3.0%	253	4.4%	331	6.3%	838	4.2%
Operating Defective Equipment	121	3.2%	197	3.9%	226	3.9%	222	4.2%	766	3.9%
Crossing Over the Center Line	108	2.9%	128	2.6%	134	2.3%	124	2.4%	494	2.5%
Improper Passing	69	1.8%	103	2.1%	127	2.2%	108	2.1%	407	2.1%
All Other Circumstances including Driver Inattention	760	20.1%	973	19.5%	1,063	18.6%	940	18.0%	3,736	18.9%
<b>TOTAL</b>	<b>3,784</b>	<b>100.0%</b>	<b>5,000</b>	<b>100.0%</b>	<b>5,729</b>	<b>100.0%</b>	<b>5,236</b>	<b>100.0%</b>	<b>19,749</b>	<b>100.0%</b>

\*Investigated collisions only

COLLISION RATES BY CITY POPULATION  
1988

City	1988 Population	Traffic Deaths		Traffic Injuries		Total Collisions	
		Number	Rate**	Number	Rate***	Number	Rate**
250,000 and Over							
1. Seattle	495,900	46	9.28	9,285	18.72	18,511	37.33
100,000 to 250,000							
1. Spokane	170,200	14	8.23	3,166	18.60	5,716	33.58
2. Tacoma	161,400	23	14.25	3,765	23.33	6,176	38.27
50,000 to 100,000							
1. Bellevue	85,180	4	4.70	1,045	12.27	2,223	26.10
2. Everett	60,920	2	3.28	1,199	19.68	2,156	35.39
25,000 to 50,000							
1. Yakima	49,470	5	10.11	748	15.12	1,797	36.33
2. Bellingham	46,610	0	0.00	617	13.24	1,323	28.38
3. Vancouver	43,290	4	9.24	730	16.86	1,578	36.45
4. Kennewick	37,180	2	5.38	363	9.76	837	22.51
5. Bremerton	37,050	1	2.70	563	15.20	1,064	28.72
6. Renton	36,940	3	8.12	716	19.38	1,590	43.04
7. Kirkland	35,820	1	2.79	424	11.84	927	25.88
8. Kent	32,350	5	15.46	940	29.06	584	18.05
9. Redmond	31,710	1	3.15	469	14.79	889	28.04
10. Auburn	30,790	4	12.99	629	20.43	1,114	36.18
11. Olympia	30,270	5	16.52	570	18.83	1,266	41.82
12. Richland	30,140	1	3.32	278	9.22	571	18.94
13. Longview	29,560	2	6.77	511	17.29	880	29.77
14. Edmonds	28,500	0	0.00	311	10.91	540	18.95
15. Walla Walla	25,440	3	11.79	241	9.47	550	21.62
15,000 to 25,000							
1. Lynnwood	22,641	0	0.00	693	30.61	1,319	58.26
2. Pullman	23,579	1	4.24	111	4.71	277	11.75
3. Puyallup	20,840	1	4.80	350	16.79	698	33.49
4. Mercer Island	20,690	0	0.00	85	4.11	214	10.34
5. Wenatchee	18,860	1	5.30	254	13.47	574	30.43
6. Pasco	18,430	1	5.43	240	13.02	560	30.39
7. Port Angeles	17,350	3	17.29	190	10.95	450	25.94
8. Aberdeen	17,130	3	17.51	217	12.67	654	38.18
9. Lacey	16,380	0	0.00	234	12.45	483	23.87
10. Mountlake Terrace	16,290	0	0.00	124	7.61	254	15.59
10,000 to 15,000							
1. Mount Vernon	14,590	0	0.00	204	11.65	391	23.17
2. Oak Harbor	14,410	0	0.00	84	12.42	218	26.51
3. Des Moines	14,120	0	0.00	170	5.95	338	15.44
4. Centralia	11,850	1	0.00	179	5.57	382	14.68
5. Ellensburg	11,500	0	0.00	66	14.61	174	31.22
6. Kelso	10,880	0	0.00	168	11.40	359	25.64
7. Moses Lake	10,650	1	0.00	124	11.64	279	26.20
8. Anacortes	10,320	0	0.00	53	5.14	141	13.66
9. Bothell	10,205	0	0.00	94	9.21	215	21.07
<b>TOTAL</b>	<b>1,799,435</b>	<b>138</b>	<b>7.67</b>	<b>30,210</b>	<b>16.79</b>	<b>58,272</b>	<b>32.38</b>

\*Does not include collisions on limited access roads or freeways

\*\*Frequency per 100,000 population

\*\*\*Frequency per 1,000 population

COLLISION RATES BY COUNTY POPULATION  
1988

County	1988 Population	Traffic Deaths		Traffic Injuries		Total Collisions	
		Number	Rate*	Number	Rate**	Number	Rate**
Over 1,000,000							
1. King	1,413,900	174	12.31	26,255	18.57	47,484	33.58
250,000 to 500,000							
1. Pierce	547,700	93	16.98	10,585	19.33	16,149	29.49
2. Snohomish	409,500	57	13.92	6,494	15.86	10,813	26.41
3. Spokane	354,100	47	13.27	5,354	15.12	8,969	25.33
100,000 to 250,000							
1. Clark	214,500	27	12.59	2,925	13.64	4,882	22.76
2. Yakima	186,300	48	25.76	2,098	11.26	4,253	22.83
3. Kitsap	177,300	19	10.72	2,259	12.74	3,614	20.38
4. Thurston	149,300	24	16.08	2,087	13.98	3,857	25.83
5. Whatcom	119,100	18	15.11	1,720	14.44	3,003	25.21
6. Benton	104,100	8	7.68	987	9.48	2,049	19.68
50,000 to 100,000							
1. Cowlitz	80,500	16	19.88	1,083	13.45	1,958	24.32
2. Skagit	70,800	28	39.55	1,097	15.49	1,893	26.74
3. Grays Harbor	63,400	20	31.55	951	15.00	1,838	28.99
4. Lewis	57,400	16	27.87	909	15.84	1,540	26.83
5. Clallam	54,400	12	22.06	574	10.55	1,165	21.42
6. Island	53,400	10	18.73	459	8.60	823	15.41
7. Grant	52,600	16	30.42	567	10.78	995	18.92
25,000 to 50,000							
1. Chelan	49,700	7	14.08	689	13.86	1,404	28.25
2. Walla Walla	48,300	14	28.99	493	10.21	937	19.40
3. Whitman	39,000	7	17.95	378	9.69	668	17.13
4. Mason	36,800	16	43.48	518	14.08	884	24.02
5. Franklin	35,500	10	28.17	446	12.56	863	24.31
6. Okanogan	31,700	16	50.47	419	13.22	708	22.33
7. Stevens	30,200	7	23.18	326	10.79	473	15.66
8. Kittitas	25,000	17	68.00	679	27.16	1,323	52.92
10,000 to 25,000							
1. Douglas	24,100	5	20.75	264	10.95	464	19.25
2. Jefferson	18,600	7	37.63	263	14.14	442	23.76
3. Pacific	17,600	3	17.05	274	15.57	427	24.26
4. Asotin	17,400	1	5.75	113	6.49	231	13.28
5. Klickitat	16,600	9	54.22	198	11.93	331	19.94
6. Adams	14,000	11	78.57	211	15.07	346	24.71
Under 10,000							
1. Lincoln	9,700	3	30.93	130	13.40	176	18.14
2. San Juan	9,600	2	20.83	88	9.17	136	14.17
3. Pend Oreille	8,800	5	56.82	140	15.91	201	22.84
4. Skamania	8,000	3	37.50	150	18.75	209	26.13
5. Ferry	6,100	7	114.75	97	15.90	151	24.75
6. Columbia	4,100	1	24.39	49	11.95	103	25.12
7. Wahkiakum	3,500	0	0.00	83	23.71	103	29.43
8. Garfield	2,400	1	41.67	37	15.42	55	22.92
<b>TOTAL</b>	<b>4,565,000</b>	<b>785</b>	<b>17.20</b>	<b>72,449</b>	<b>15.87</b>	<b>125,920</b>	<b>27.58</b>

\*Frequency per 100,000 population

\*\*Frequency per 1,000 population



## Motorcycle Collisions

RT-11

MOTORCYCLE COLLISIONS SUMMARY Five Year Comparison							
Collision Severity/Exposure & Rates	Years					Previous 4 Year Average	% of Change 88 - 4 Year Average
	1988	1987	1986	1985	1984		
Total Collisions	2,773	3,379	3,508	3,699	3,477	3,516	-21.13%
Fatal Collisions	72	88	80	82	69	80	-9.72%
Fatal Collision Ratio*	26.0	26.0	22.8	22.2	19.8	22.7	14.30%
Motorcycle Registration	117,155	124,215	122,751	125,224	126,703	124,723	-6.07%
Total Collision Registration Rate**	2.37	2.72	2.86	2.95	2.74	2.82	-16.04%
Fatal Registration Rate***	0.615	0.708	0.652	0.655	0.545	0.640	-3.96%
Total Persons Killed	77	90	81	85	75	83	-6.95%
Total Persons Injured	2,896	3,497	3,673	3,884	3,656	3,678	-21.25%
Motorcyclist Killed	76	90	80	82	72	81	-6.17%
Motorcyclist Injured	2,703	3,288	3,469	3,631	3,434	3,456	-21.78%

\*Fatal Collisions per 1,000 motorcycle collisions

\*\*Motorcycle involved per 100 registered

\*\*\*Fatal Collisions per 1,000 motorcycles registered

## Alcohol-Related Collision Data

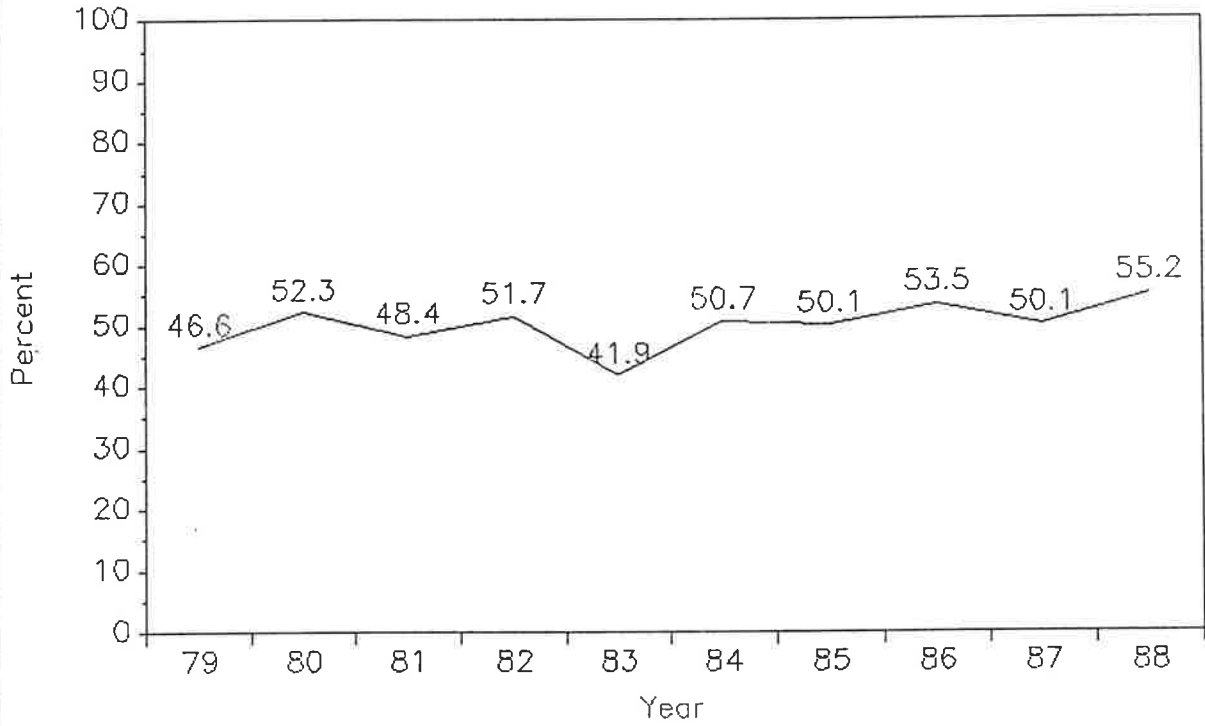
RT-12

SOBRIETY OF DRIVERS INVOLVED IN FATAL COLLISIONS Statewide Comparison					
Condition of Driver (Sobriety)	Years		Previous 3 Year Average	% of Change	
	1988	1987		88-87	88 - 3 Year Average
Had been drinking - ability impaired	340	296	298	14.9%	14.1%
Had been drinking - ability not impaired	45	40	45	12.5%	0.7%
Had been drinking - sobriety unknown	15	24	16	-37.5%	-6.3%
Had not been drinking	586	630	584	-7.0%	0.3%
Not stated	41	46	42	-10.9%	-2.4%
Total drivers drinking	400	360	359	11.1%	11.5%
Total drivers - excluding not stated	986	990	943	-0.4%	4.6%
Total drivers	1,027	1,036	985	-0.9%	4.3%
No. drinking drivers per 100 involved	40.6	36.4	38.1	11.6%	6.5%
No. drunk drivers per 100 involved	34.5	29.9	31.6	15.3%	9.0%

SOBRIETY OF DRIVERS INVOLVED IN INJURY COLLISIONS Statewide Comparison					
Condition of Driver (Sobriety)	Years		Previous 3 Year Average	% of Change	
	1988	1987		88-87	88 - 3 Year Average
Had been drinking - ability impaired	5,306	5,109	4,934	3.9%	7.5%
Had been drinking - ability not impaired	1,657	1,718	1,755	-3.6%	-5.6%
Had been drinking - sobriety unknown	2,198	2,268	2,207	-3.1%	-0.4%
Had not been drinking	59,644	54,901	53,533	8.6%	11.4%
Not stated	4,992	5,262	4,941	-5.1%	1.0%
Total drivers drinking	9,161	9,095	8,897	0.7%	3.0%
Total drivers - excluding not stated	68,805	63,996	62,429	7.5%	10.2%
Total drivers	73,797	69,258	67,371	6.6%	9.5%
No. drinking drivers per 100 involved	13.3	14.2	14.2	-6.3%	-6.6%
No. drunk drivers per 100 involved	7.7	8.0	7.9	-3.4%	-2.4%

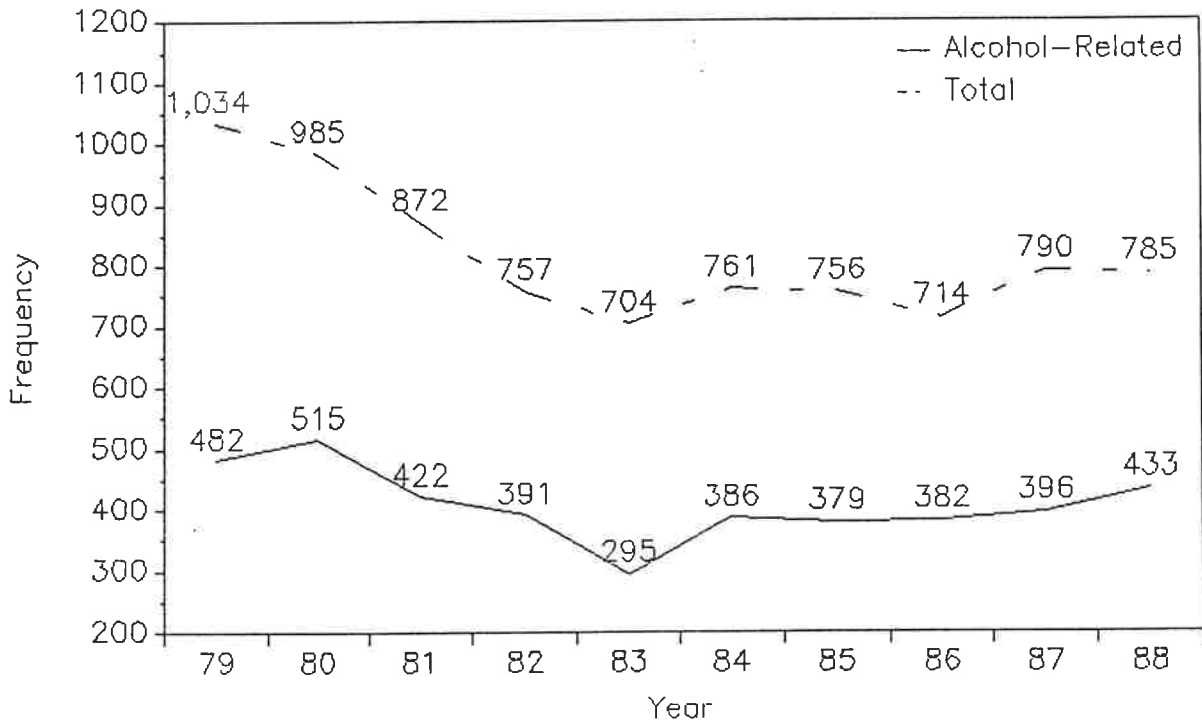
SOBRIETY OF DRIVERS INVOLVED IN ALL INVESTIGATED COLLISIONS Statewide Comparison					
Condition of Driver (Sobriety)	Years		Previous 3 Year Average	% of Change	
	1988	1987		88-87	88 - 3 Year Average
Had been drinking - ability impaired	9,532	9,455	9,160	0.8%	4.1%
Had been drinking - ability not impaired	3,368	3,548	3,558	-5.1%	-5.3%
Had been drinking - sobriety unknown	5,149	5,289	5,003	-2.6%	2.9%
Had not been drinking	137,183	133,686	128,434	2.6%	6.8%
Not stated	16,083	17,475	16,837	-8.0%	-4.5%
Total drivers drinking	18,049	18,292	17,720	-1.3%	1.9%
Total drivers - excluding not stated	155,232	151,978	146,154	2.1%	6.2%
Total drivers	171,315	169,453	162,992	1.1%	5.1%
No. drinking drivers per 100 involved	11.6	12.0	12.1	-3.4%	-4.1%
No. drunk drivers per 100 involved	6.1	6.2	6.3	-1.3%	-2.0%

PERCENT OF ALCOHOL-RELATED FATALITIES  
TO TOTAL FATALITIES  
Ten Year Comparison



RF-3

COMPARISON OF ALCOHOL-RELATED FATALITIES  
TO TOTAL TRAFFIC FATALITIES  
Ten Year Comparison



RF-4

RATIO OF DRINKING & DRUNK DRIVERS INVOLVED IN FATAL TRAFFIC COLLISIONS

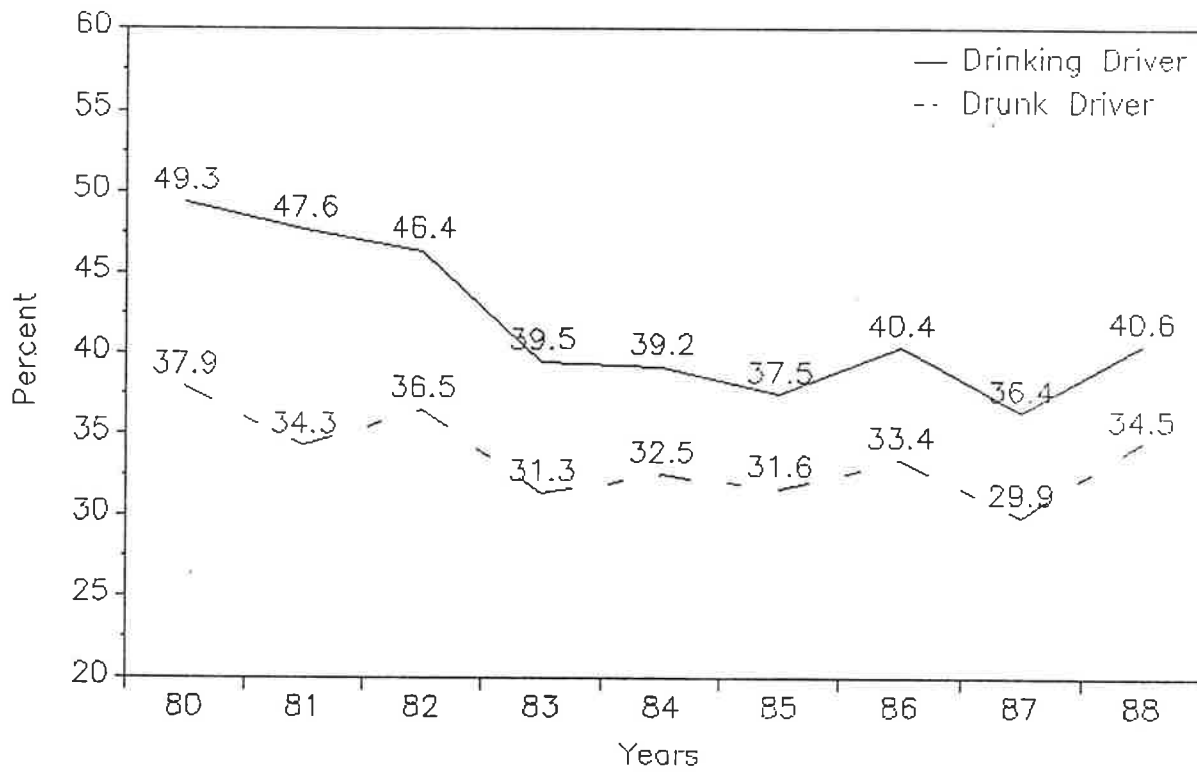


Figure 2-13

RATIO OF DRINKING & DRUNK DRIVERS INVOLVED IN TOTAL TRAFFIC COLLISIONS

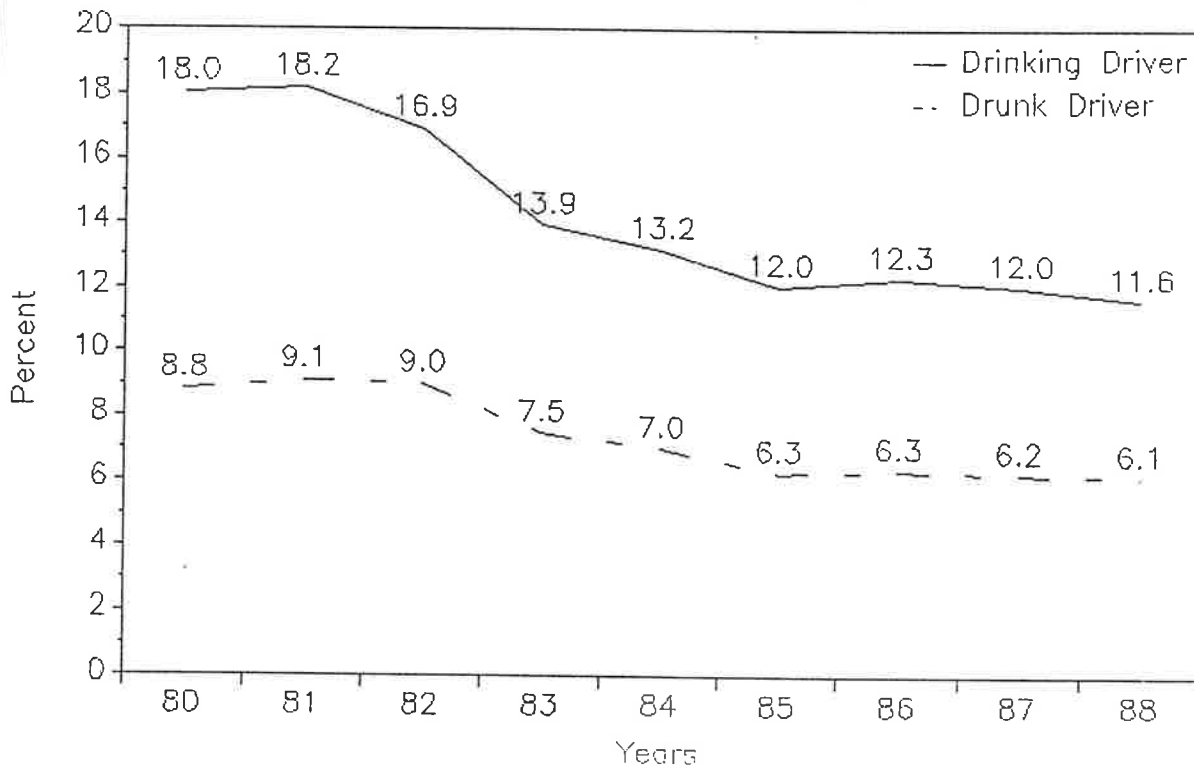


Figure 2-14

TOXICOLOGIST RESULTS OF DRIVERS KILLED IN FATAL COLLISIONS Five Year Comparison																				
Age	Negative Result					Results Less Than .10					Results .10 & Over					Average Test Results*				
	1988	1987	1986	1985	1984	1988	1987	1986	1985	1984	1988	1987	1986	1985	1984	1988	1987	1986	1985	1984
16	5	5	6	6	7	1	0	3	0	0	1	0	3	1	2	0.11	0.00	0.10	0.13	0.22
17	5	8	9	5	3	2	1	2	1	0	1	0	4	4	3	0.06	0.03	0.13	0.13	0.12
18	11	8	10	11	9	4	5	0	2	0	2	3	5	8	5	0.08	0.10	0.18	0.15	0.20
19	6	6	5	4	7	5	2	3	3	3	3	3	11	3	6	0.10	0.13	0.17	0.11	0.12
20	4	5	7	3	3	2	1	1	4	1	7	4	9	3	7	0.14	0.15	0.17	0.10	0.16
21	4	2	3	4	4	1	2	3	0	4	7	14	12	7	5	0.16	0.19	0.16	0.19	0.13
22	5	3	6	10	7	1	4	1	3	3	12	8	6	11	10	0.15	0.18	0.14	0.16	0.16
23	3	5	5	8	4	2	0	2	0	2	7	14	5	10	13	0.17	0.20	0.17	0.19	0.20
24	3	1	3	6	6	0	1	1	0	1	4	9	5	5	9	0.20	0.14	0.17	0.17	0.21
25	4	6	10	0	3	2	4	0	1	0	15	7	10	10	9	0.19	0.13	0.20	0.21	0.22
26	7	5	2	5	4	2	2	1	1	1	4	14	6	6	5	0.14	0.15	0.15	0.20	0.17
27	4	1	2	5	1	1	2	0	5	2	5	9	10	2	6	0.18	0.16	0.23	0.10	0.17
28	2	4	3	7	4	2	0	1	0	0	7	3	6	12	8	0.14	0.20	0.17	0.23	0.23
29	4	6	4	3	3	3	2	0	1	0	6	6	6	10	3	0.15	0.17	0.18	0.19	0.23
30	1	3	2	2	2	1	0	3	0	1	7	3	3	3	3	0.17	0.25	0.15	0.22	0.22
31	4	3	3	2	3	0	0	2	1	0	5	3	8	8	3	0.19	0.21	0.18	0.18	0.18
32	4	3	3	7	4	0	0	3	0	0	12	5	4	2	4	0.19	0.19	0.13	0.19	0.22
33	6	2	1	3	3	0	0	1	0	1	3	5	5	2	5	0.13	0.18	0.19	0.20	0.19
34	3	2	3	3	0	0	0	0	0	0	5	1	1	6	3	0.21	0.11	0.17	0.20	0.20
35	2	4	2	2	0	1	1	1	0	0	6	2	2	7	4	0.17	0.18	0.13	0.22	0.20
36	2	4	3	4	4	0	0	2	1	1	9	9	3	2	6	0.21	0.23	0.13	0.13	0.18
37	5	2	2	1	3	0	1	0	0	1	6	1	5	3	4	0.17	0.07	0.20	0.18	0.21
38	1	1	3	7	2	2	0	0	0	0	5	3	2	1	3	0.15	0.29	0.16	0.24	0.23
39	2	1	0	1	2	0	0	1	0	0	3	4	1	2	2	0.16	0.20	0.11	0.20	0.16
40	2	2	1	1	2	0	0	0	0	1	3	2	6	4	2	0.15	0.28	0.17	0.18	0.18
41-45	11	14	5	14	9	4	2	2	1	2	13	10	8	10	9	0.13	0.18	0.17	0.13	0.16
46-50	4	6	3	6	7	1	0	1	0	3	7	10	6	10	5	0.17	0.18	0.25	0.24	0.17
51-55	4	8	6	6	8	1	0	0	0	3	5	6	3	1	3	0.18	0.25	0.19	0.23	0.15
56-60	7	7	9	5	8	0	0	2	2	1	3	2	3	4	4	0.21	0.24	0.12	0.19	0.19
61-65	4	9	8	11	11	0	0	0	0	0	4	6	4	0	4	0.21	0.18	0.20	0.00	0.20
66 & Over	27	18	23	22	23	1	2	4	2	0	3	2	3	3	3	0.14	0.12	0.15	0.13	0.17
TOTAL	156	154	152	174	156	39	32	40	28	31	180	168	165	160	158	0.17	0.18	0.17	0.18	0.17
% of Tested Drivers	41.5	42.7	41.8	47.5	37.2	10.6	8.9	11.0	7.7	8.9	47.9	46.5	45.3	43.7	45.4					
% of Change 88 - 4 Year Avg				-1.9%					16.2%					5.9%						-2.86%

ALL REPORTED COLLISIONS & ALCOHOL-RELATED COLLISIONS Comparison of Miles Traveled					
Driver Age	% of Vehicle Miles Traveled*	Drivers in All Collisions*		Alcohol-Related Collisions	
		%	Over/Under Ratio	%	Over/Under Ratio
16-17	1.44	6.25%	4.34%	3.40%	2.36%
18-20	5.55	12.04%	2.17%	11.65%	2.10%
21-24	12.58	12.71%	1.01%	19.32%	1.54%
25-34	29.24	27.22%	0.93%	36.92%	1.26%
35-44	21.18	18.73%	0.88%	16.72%	0.79%
45-54	12.97	9.47%	0.73%	6.19%	0.48%
55-64	11.58	6.53%	0.56%	3.63%	0.31%
65 & Over	5.34	7.05%	1.32%	2.17%	0.41%

\* Source - Nationwide Personal Transportation Study - U.S. Dept. of Transportation, 1983-84  
 \*\* Source - Accident Records Unit - Washington State Patrol

COMPARISON OF ALCOHOL-RELATED COLLISIONS By Motor Vehicle Travel by County								
County	Collisions				Alcohol-Related Collisions by Type			
	Total	%	% of Motor Veh Travel	Over/Under Ratio	Cities	State Routes	County Roads	Other Roadways
Adams	43	0.25%	0.99	-0.25%	10	21	12	0
Asotin	45	0.26%	0.30	-0.87%	23	9	13	0
Benton	290	1.68%	2.85	-0.59%	150	70	69	1
Chelan	216	1.25%	1.18	1.06%	75	91	47	3
Clallam	203	1.17%	1.24	-0.95%	53	89	55	6
Clark	675	3.90%	4.35	-0.90%	174	199	301	1
Columbia	16	0.09%	0.16	-0.58%	4	7	4	1
Cowlitz	292	1.69%	2.57	-0.66%	138	85	69	0
Douglas	75	0.43%	0.58	-0.75%	9	43	23	0
Ferry	43	0.25%	0.17	-1.46%	2	23	14	4
Franklin	184	1.06%	1.15	-0.92%	110	35	39	0
Garfield	5	0.03%	0.14	-0.21%	0	4	1	0
Grant	151	0.87%	2.02	-0.43%	33	70	46	2
Grays Harbor	349	2.02%	1.87	-1.08%	96	173	73	7
Island	131	0.76%	0.69	1.10%	16	36	78	1
Jefferson	92	0.53%	0.48	1.11%	9	42	36	5
King	5,174	29.91%	29.15	1.03%	2,414	1,702	1,037	21
Kitsap	680	3.93%	2.69	1.46%	110	170	396	4
Kittitas	137	0.79%	2.04	-0.39%	22	82	28	5
Klickitat	48	0.28%	0.60	-0.46%	6	27	14	1
Lewis	261	1.51%	2.06	-0.73%	61	104	88	8
Lincoln	39	0.23%	0.62	-0.36%	2	25	12	0
Mason	219	1.27%	0.82	1.54%	26	106	83	4
Okanogan	157	0.91%	0.62	1.46%	15	57	74	11
Pacific	82	0.47%	0.53	-0.89%	8	43	27	4
Pend Oreille	43	0.25%	0.27	-0.92%	4	22	17	0
Pierce	2,288	13.23%	19.81	-0.67%	788	735	759	6
San Juan	50	0.29%	0.05	5.78%	8	0	41	1
Skagit	329	1.90%	2.14	-0.89%	72	142	114	1
Skamania	40	0.23%	0.24	-0.96%	2	21	12	5
Snohomish	1,741	10.06%	6.96	1.45%	458	614	667	2
Spokane	1,076	6.22%	8.12	-0.77%	547	271	254	4
Stevens	105	0.61%	0.71	-0.85%	6	56	34	9
Thurston	488	2.82%	3.66	-0.77%	162	117	204	5
Wahkiakum	20	0.12%	0.14	0.83%	0	15	5	0
Walla Walla	124	0.72%	0.83	0.86%	58	40	26	0
Whatcom	487	2.82%	2.30	1.22%	158	126	196	7
Whitman	99	0.57%	1.13	-0.51%	24	43	32	0
Yakima	802	4.64%	3.75	1.24%	295	164	322	21
TOTAL	17,299							

Occupant Restraint Data

RESTRAINT USAGE RATE Five Year Comparison										
Status	1988	%	1987	%	1986	%	1985	%	1984	%
Restraints Used	161,667	80.0%	152,413	77.6%	102,751	54.5%	60,392	35.1%	45,214	28.0%
No Restraints Used	40,387	20.0%	44,081	22.4%	85,669	45.5%	111,885	64.9%	116,299	72.0%
TOTAL	202,054	100.0%	196,494	100.0%	188,420	100.0%	172,277	100.0%	161,513	100.0%

TYPES OF RESTRAINTS USED By Severity of Injury												
Type	Number Used		Deaths		Disabling Inj		Evident Inj		Possible Inj		No Injury	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Lap Belt	33,241	16.5%	34	6.1%	570	10.2%	2,747	14.3%	3,826	14.1%	26,064	17.4%
Shoulder Belt	5,477	2.7%	5	0.9%	96	1.7%	383	2.0%	588	2.2%	4,405	2.9%
Lap & Shoulder Belt	120,158	59.5%	109	19.6%	2,009	36.1%	8,350	43.4%	16,727	61.8%	92,963	62.2%
Child Restraint	2,720	1.3%	4	0.7%	22	0.4%	147	0.8%	172	0.6%	2,375	1.6%
Air Bag (Activated)*	20	0.0%	0	0.0%	1	0.0%	3	0.0%	3	0.0%	13	0.0%
No Restraints	40,365	20.0%	405	72.7%	2,866	51.5%	7,608	39.5%	5,766	21.3%	23,720	15.9%
TOTAL OCCUPANTS	201,981	100.0%	557	100.0%	5,564	100.0%	19,238	100.0%	27,082	100.0%	149,540	100.0%

\*Less than 1/10 of 1 percent

\*\*There were 73 cases where the injury was not stated.

RESTRAINT USAGE & INJURIES SUSTAINED* By Type								
Type	Restraints Used		Child Restraints**		No Restraints		Total Occupants	
	Number	%	Number	%	Number	%	Number	%
Deaths	152	0.1%	4	0.1%	405	1.0%	557	0.3%
Disabling Injuries	2,698	1.7%	22	0.8%	2,866	7.1%	5,564	2.8%
Evident Injuries	11,630	7.2%	147	5.4%	7,608	18.8%	19,238	9.5%
Possible Injuries	21,316	13.2%	172	6.3%	5,766	14.3%	27,082	13.4%
No Injuries	125,820	77.9%	2,375	87.3%	23,720	58.8%	149,540	74.0%
TOTAL	161,616	100.0%	2,720	100.0%	40,365	100.0%	201,981	100.0%

\*Excludes cases where injury severity was not stated or where restraint use was unknown.

\*\*Included with Restraints Used Category.

USAGE RATES BY SEX* Five Year Comparison					
Occupant	Percent Used Restraints				
	1988	1987	1986	1985	1984
Male Driver	80.3	77.8	54.0	34.3	27.3
Female Driver	85.5	83.3	59.6	38.8	31.4
Male Passenger	70.9	69.0	46.7	29.4	26.4
Female Passenger	78.5	75.9	55.0	36.0	28.4

\*Excludes occupants where restraint use was unknown

USAGE RATES BY AGE* Five Year Comparison					
Occupant	Percent Used Restraints				
	1988	1987	1986	1985	1984
Age 0-5	86.6	85.6	81.0	73.1	66.8
Age 6-15	74.2	72.5	51.5	31.3	24.9
Age 16-19	74.5	71.6	44.2	25.4	19.6
Age 20-24	75.8	72.7	47.5	28.5	22.0
Age 25-34	79.5	77.4	55.3	36.6	29.5
Age 35-64	85.0	82.9	60.6	39.7	32.0
Age 65 & Up	84.5	82.6	58.2	34.7	27.6

\*Excludes occupants where restraint use was unknown

### Pedestrian/Vehicle Collisions

PEDESTRIANS KILLED & INJURED IN VEHICLE COLLISIONS Five Year Comparison							
Severity by Area	Years					Previous 4 Year Average	% of Change 88 - 4 Year Average
	1988	1987	1986	1985	1984		
Statewide							
Pedestrians Killed	97	93	94	89	97	93	4.02%
Pedestrians Injured	1,820	1,830	1,843	1,763	1,710	1,787	7.92%
Rural Areas							
Pedestrians Killed	51	39	52	45	51	47	9.09%
Pedestrians Injured	497	468	468	483	449	467	17.99%
Urban Areas*							
Pedestrians Killed	46	54	42	44	46	47	-1.08%
Pedestrians Injured	1,323	1,362	1,375	1,280	1,261	1,320	4.36%

\* 2,500 population and greater



ACTIONS OF PEDESTRIANS KILLED & INJURED Urban & Rural Areas										
Action	Killed		Killed/Injured		Age					Number Not Stated
	Number	%	Number	%	0-4	5-14	15-24	25-64	65+	
Urban:										
Crossing, entering roadway at intersection	18	39.1%	690	50.1%	17	117	119	301	106	30
Not at intersection	20	43.5%	422	30.6%	49	148	60	113	34	18
Walking with traffic	0	0.0%	17	1.2%	0	4	4	5	1	3
Walking against traffic	0	0.0%	13	0.9%	1	1	4	5	1	1
Standing or working in roadway	3	6.5%	72	5.2%	1	0	17	42	4	8
Playing in roadway	1	2.2%	18	1.3%	6	8	2	1	0	1
Lying in roadway	0	0.0%	0	0.0%	0	0	0	0	0	0
Not in roadway	2	4.3%	68	4.9%	4	7	17	30	5	5
Other & Not Stated	2	4.3%	77	5.6%	1	18	21	27	4	6
<b>TOTAL URBAN</b>	<b>46</b>	<b>100.0%</b>	<b>1,377</b>	<b>100.0%</b>	<b>79</b>	<b>303</b>	<b>244</b>	<b>524</b>	<b>155</b>	<b>72</b>
<b>% of Total Killed or Injured</b>					<b>5.7%</b>	<b>22.0%</b>	<b>17.7%</b>	<b>38.1%</b>	<b>11.3%</b>	<b>5.2%</b>
Rural:										
Crossing, entering roadway at intersection	6	11.8%	111	20.1%	4	36	22	36	9	4
Not at intersection	19	37.3%	196	35.6%	15	69	32	55	14	11
Walking with traffic	10	19.6%	29	5.3%	0	6	8	12	2	1
Walking against traffic	1	2.0%	12	2.2%	0	1	3	8	0	0
Standing or working in roadway	3	5.9%	45	8.2%	1	2	9	29	2	2
Playing in roadway	0	0.0%	14	2.5%	3	9	2	0	0	0
Lying in roadway	3	5.9%	5	0.9%	0	0	3	2	0	0
Not in roadway	9	17.6%	93	16.9%	5	9	23	48	5	3
Other & Not Stated	0	0.0%	46	8.3%	1	3	9	29	1	3
<b>TOTAL RURAL</b>	<b>51</b>	<b>100.0%</b>	<b>551</b>	<b>100.0%</b>	<b>29</b>	<b>135</b>	<b>111</b>	<b>219</b>	<b>33</b>	<b>24</b>
<b>% of Total Killed or Injured</b>					<b>5.3%</b>	<b>24.5%</b>	<b>20.1%</b>	<b>39.7%</b>	<b>6.0%</b>	<b>4.4%</b>



