

**A Review
Of Traffic Collisions
In
Washington
1983**

WASHINGTON TRAFFIC SAFETY COMMISSION

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A REVIEW OF
TRAFFIC COLLISIONS
IN
WASHINGTON
1983

Prepared by Washington Traffic Safety Commission

Source: Collision Data - Traffic Records Unit, Washington State Patrol
Roadway Data - Planning Division, Department of Transportation
License Data - Department of Licensing

A REVIEW OF TRAFFIC COLLISIONS IN WASHINGTON - 1983

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WASHINGTON 1983
A RECAP OF TRAFFIC COLLISIONS

<u>CATEGORY</u>	<u>1983</u>	<u>CHANGE FROM 1982</u>
PERSONS KILLED	705	- 6.9%
DEATH RATE PER 100 MILLION MILES	2.18	-12.4%
FATAL COLLISIONS	635	- 6.5%
PERSONS INJURED	58,317	+ 6.4%
TOTAL REPORTED COLLISIONS	106,597	+ 5.9%
ESTIMATED ECONOMIC LOSS	\$506,000,000	+ 1.2%
MILES TRAVELLED (IN MILLIONS)	32,275.0	+ 6.3%
LICENSED DRIVERS	2,867,032	+ 3.3%
REGISTERED VEHICLES	3,445,000*	+ 4.0%
POPULATION	4,285,100	+ 0.5%

* Estimated based on Dept. of Licensing
data for first 10 months.

HIGHLIGHTS FOR 1983

DRINKING DRIVER COLLISIONS

DWI Drivers Involved in Total Collisions	9,267	-10.7%
Ratio - DWI Per 100 Involved	7.5	1982 = 9.0
DWI Drivers Involved in Fatal Collisions	260	-21.9%
Ratio - DWI Drivers Per 100	31.3	1982 = 36.5
Had Been Drinking (In Total Collisions)	17,309	-11.6%
Ratio - HBD Drivers Per 100	13.9	1982 = 16.9
Had Been Drinking (In Fatal Collisions)	328	-22.5%
Ratio - HBD Drivers Per 100	39.4	1982 = 46.4

HIGHLIGHTS FOR 1983

COLLISIONS BY LOCATION

	1983	CHANGE FROM 1982
Interstate & Other Full Control - All	10,128	+ 4.0%
Interstate & Other Full Control - Fatal	88	+ 2.3%
Other State Routes - All Collisions	18,856	- 9.7%
Other State Routes - Fatal Collisions	201	-22.9%
County Roads - All Collisions	24,168	+ 5.5%
County Roads - Fatal Collisions	220	+ 2.3%
City Streets - All Collisions	52,684	+13.5%
City Streets - Fatal Collisions	114	- 1.7%

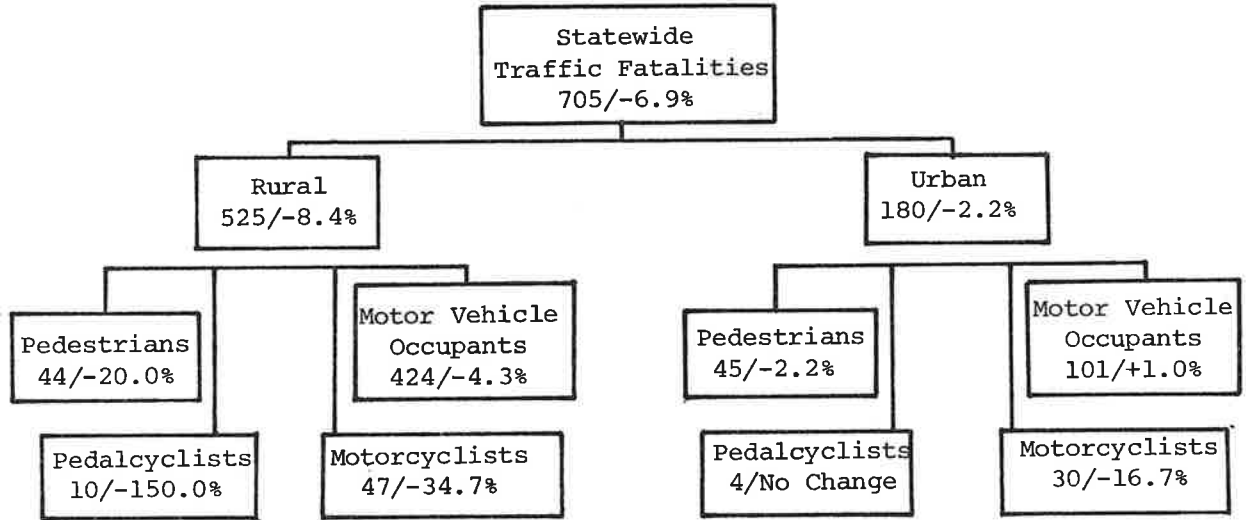
COLLISIONS BY TYPE

Collisions With Other Motor Vehicles - All	78,231	+ 7.8%
Collisions With Other Motor Vehicles - Fatal	220	-10.9%
One Car (Fixed Object-Overtuned, Etc.) - All	24,235	- 0.1%
One Car (Fixed Object-Overtuned, Etc.) - Fatal	307	- 5.8%
Collision With Pedestrian - All Collisions	1,638	+ 1.2%
Collision With Pedestrian - Fatal Collisions	89	- 5.3%
Collision With Pedalcyclist - All Collisions	1,230	+16.5%
Collision With Pedalcyclist - Fatal Collisions	14	+75.0%
All Others (RR Train, Animal) - All Collisions	1,263	+ 9.6%
All Others (RR Train, Animal) - Fatal Collisions	5	+25.0%

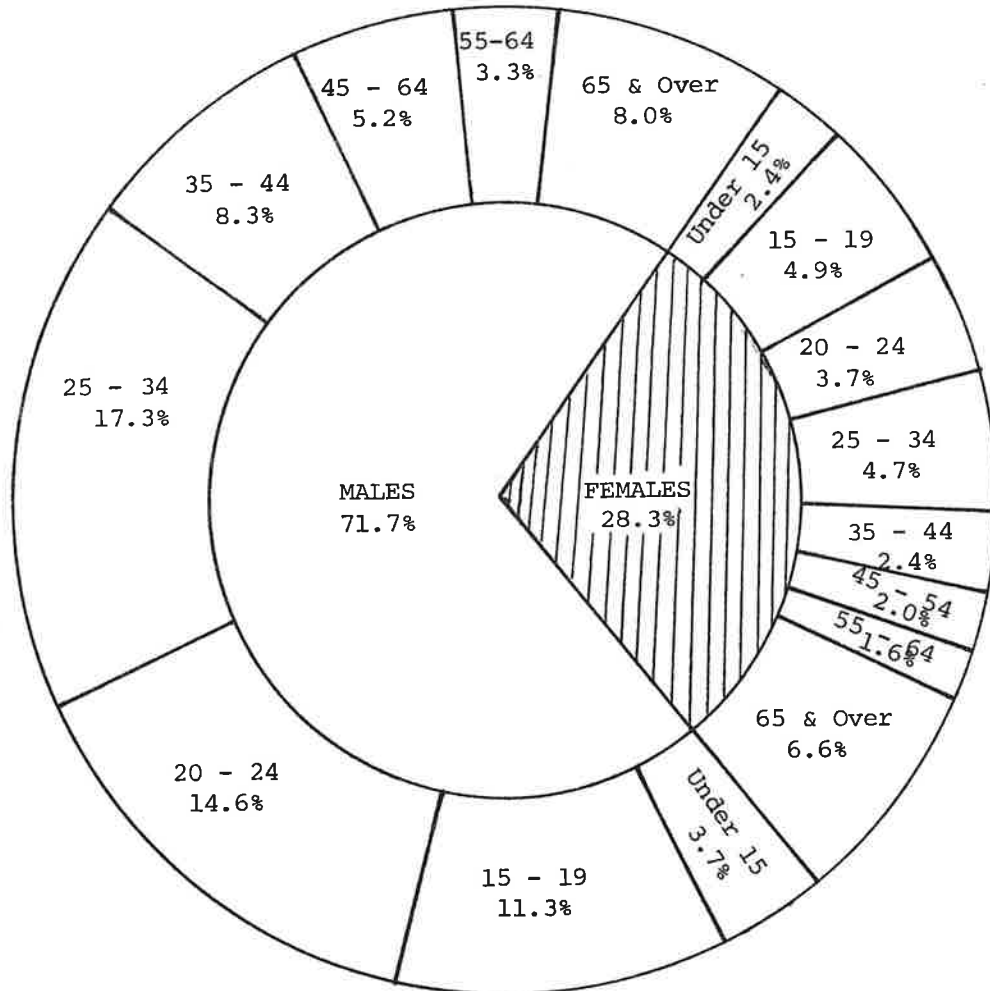
COLLISIONS BY TYPE OF VEHICLE

Passenger Cars Involved in All Collisions	138,619	+ 7.0%
Passenger Cars Involved in Fatal Collisions	538	- 8.9%
Lightweight Trucks Involved in All Collisions	37,100	+ 7.4%
Lightweight Trucks Involved in Fatal Collisions	206	- 6.8%
Heavy Trucks (Over 10,000) in All Collisions	6,525	+12.1%
Heavy Trucks (Over 10,000) in Fatal Collisions	65	+ 3.2%
Motorcycles Involved in All Collisions	3,362	- 1.8%
Motorcycles Involved in Fatal Collisions	77	-26.0%

TRAFFIC FATALITIES
 In 1983 and
 Percent of Change from 1982



TRAFFIC FATALITIES BY AGE AND SEX
 1983

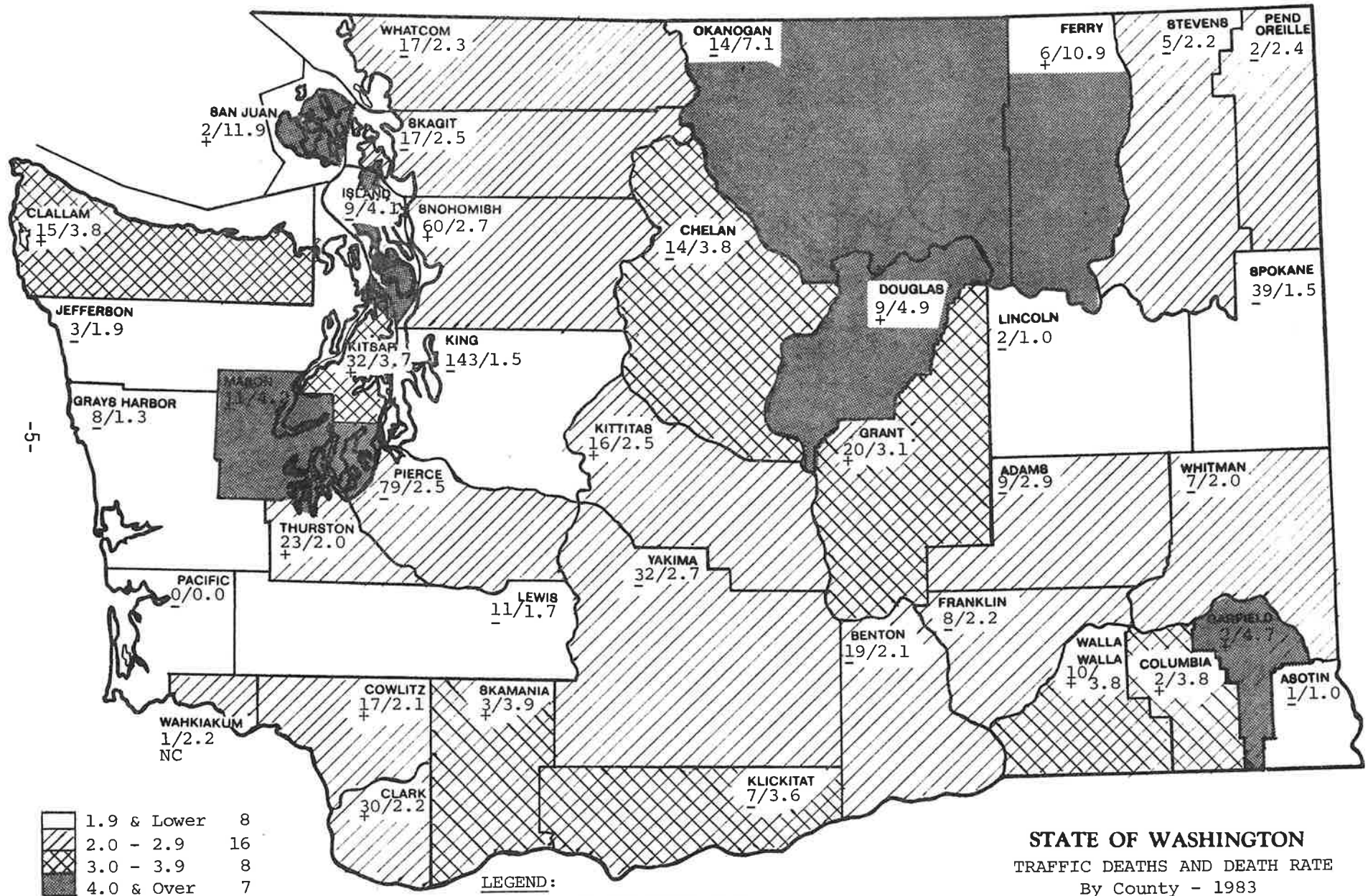


PERSONS KILLED AND INJURED BY AGE BY STATUS

Age	Total		Occupants		Pedestrians		Pedalcyclists	
	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
0 - 4	15	1,193	10	1,087	4	84	1	22
5 - 9	14	1,525	7	1,129	6	216	1	180
10 - 14	14	2,064	5	1,435	4	216	5	405
15 - 19	113	9,705	96	9,249	13	209	4	241
20 - 24	128	10,289	120	10,010	6	163	2	113
25 - 34	154	13,565	142	13,198	12	222	0	140
35 - 44	75	7,407	65	7,230	10	124	0	48
45 - 54	50	4,108	45	3,998	5	97	0	11
55 - 64	34	3,297	26	3,196	8	89	0	11
65 - 74	62	1,977	53	1,883	8	90	1	4
75 & Older	40	1,094	27	1,001	13	89	0	4
Not Stated	6	2,093	6	1,928	0	102	0	63
TOTAL	705	58,317	602	55,342	89	1,701	14	1,242

COMPARISON OF TRAFFIC DEATHS IN WASHINGTON
BY MONTH AND ACCUMULATED TOTALS - 1981, 1982, 1983

Month	1983		1982		1981		Percent of Change 1983 to 1982	
	Month	Year To Date	Month	Year To Date	Month	Year To Date	Month	Year to Date
January	49	49	52	52	54	54	- 5.8%	- 5.8%
February	34	83	36	88	54	108	- 5.6%	- 5.7%
March	46	129	54	142	65	173	-14.8%	- 9.2%
April	76	205	61	203	66	239	+24.6%	+ 1.0%
May	47	252	73	276	68	307	-35.6%	- 8.7%
June	65	317	75	351	94	401	-13.3%	- 9.7%
July	73	390	76	427	80	481	- 3.9%	- 8.7%
August	67	457	75	502	107	588	-10.7%	- 9.0%
September	64	521	92	594	73	661	-30.4%	-12.3%
October	59	580	66	660	59	720	-10.7%	-12.1%
November	67	647	55	715	80	800	-12.8%	- 9.5%
December	58	705	42	757	72	872	+38.1%	- 6.9%



STATE OF WASHINGTON
 TRAFFIC DEATHS AND DEATH RATE
 By County - 1983
 Statewide Death Rate 2.2

LEGEND:
 Traffic Deaths/Death Rate
 705/2.2
 - = Less Than 1982
 + = More Than 1982

Traffic Safety Statistics
1969 - 1983

<u>Year</u>	<u>Licensed Drivers</u>	<u>Population</u>	<u>Vehicle Registration</u>	<u>Veh. Mil. (Millions)</u>	<u>Traffic Collisions</u>	<u>Traffic Injuries</u>	<u>Traffic Deaths</u>	<u>Traffic Fatality Rate*</u>
1969	1,833,232	3,397,000	2,151,691	19,957.0	103,160	47,354	834	4.18
1970	1,919,980	3,413,250	2,156,510	20,675.8	97,486	53,465	875	4.23
1971	1,965,962	3,430,100	2,231,958	21,860.0	98,956	55,099	876	4.01
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	3,445,000+	32,275.0	106,597	58,317	705	2.18

*Traffic deaths per 100 million vehicle miles of travel

**Minimum damage for a reportable collision was increased from \$100 to \$300 to the property of one person on 7/1/77

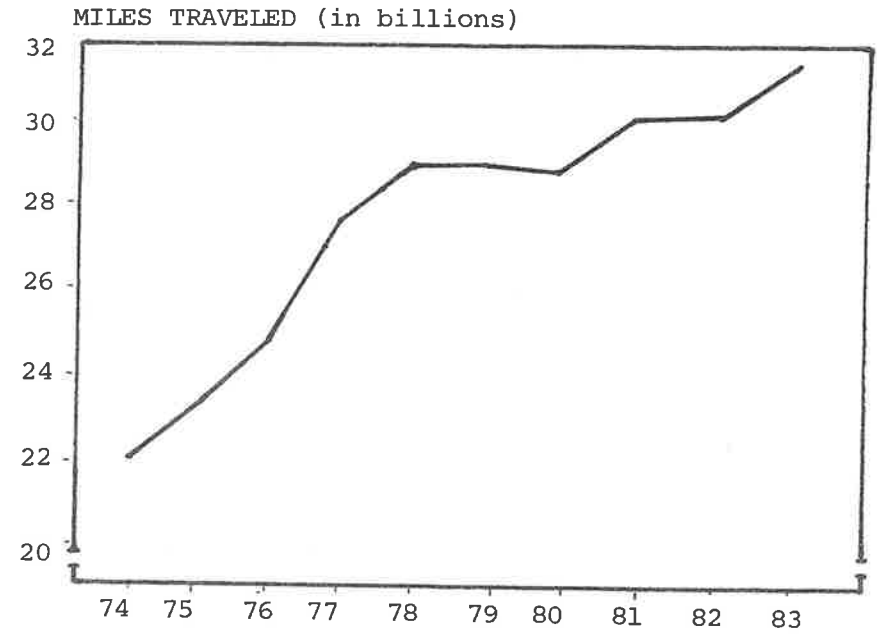
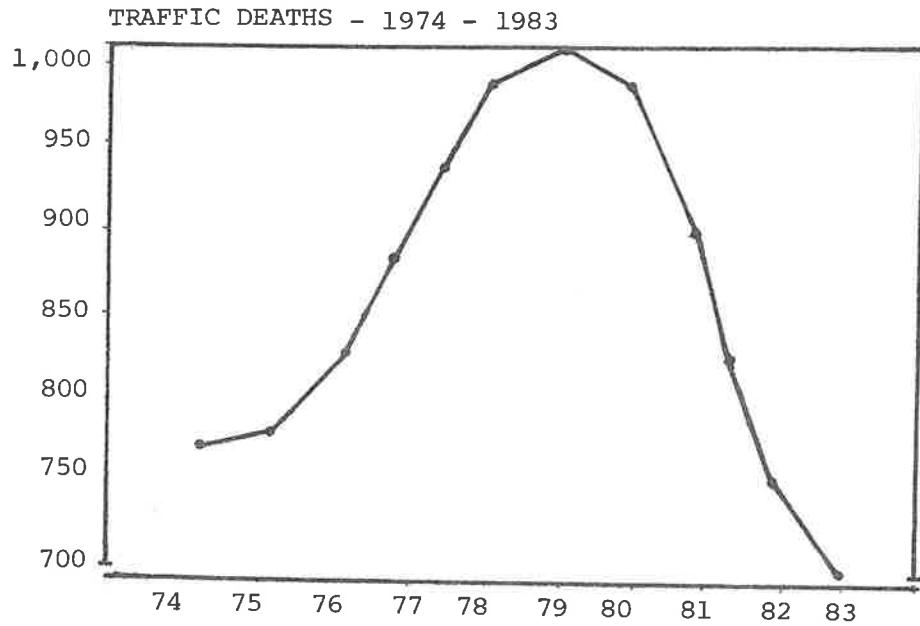
+Estimated, based on 10 month data from Dept. of Licensing.

COMPARISON OF SEVERITY OF INJURY BY YEAR
1958 - 1983

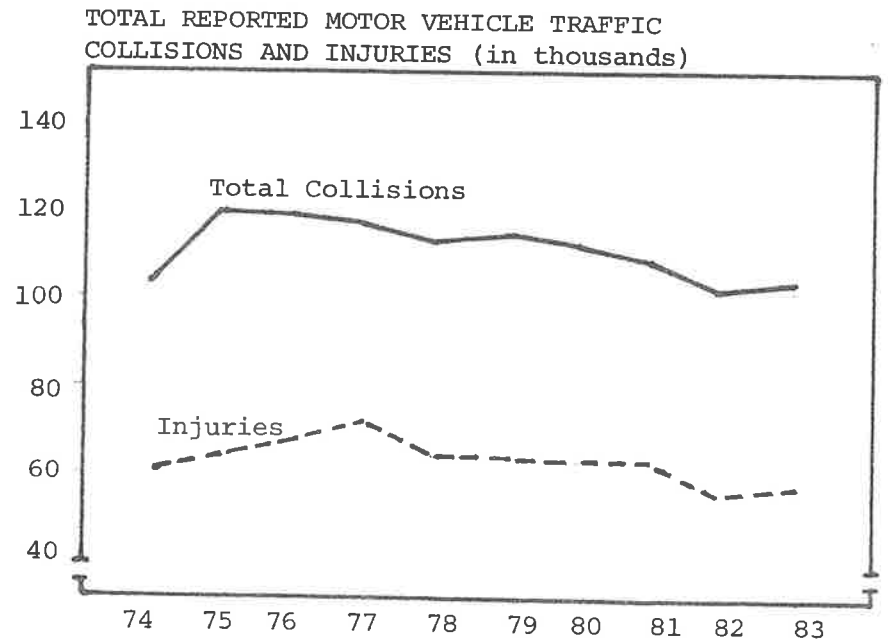
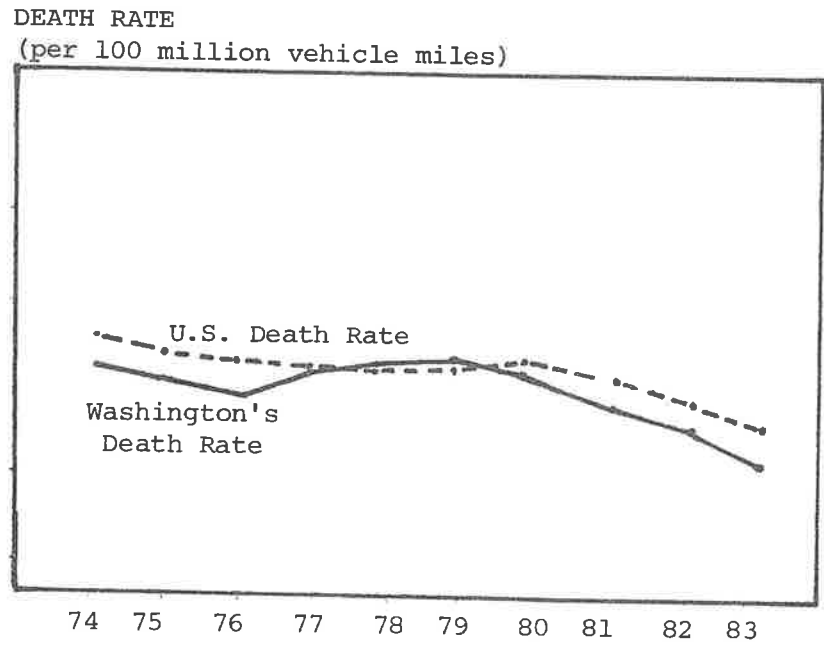
Year	Traffic Deaths	Injuries			Total Injuries
		A Disabling Injury	B Non-Disabling Injury	C Possible Injury	
1958	575	8,261	10,830	9,197	28,288
1959	548	8,338	10,465	10,778	29,581
1960	561	8,455	10,009	11,616	30,080
1961	580	9,566	10,568	12,772	32,906
1962	611	10,810	10,669	13,090	34,568
1963	633	10,700	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	852	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	823	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	1,032	10,579	27,298	27,522	65,399
1980	984	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

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

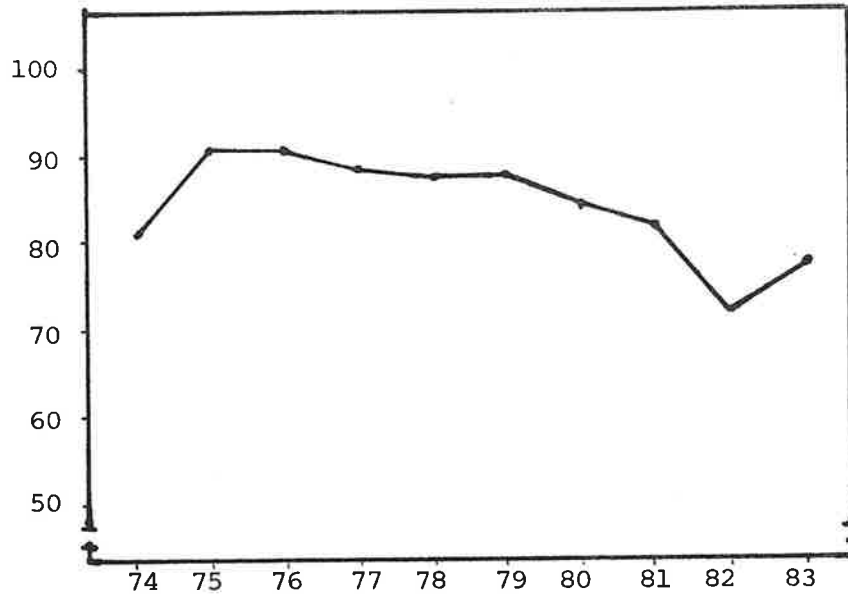
**WSP policy change using only information on the investigator's report in reporting severity of injury--drivers' reports not used when collision investigated.



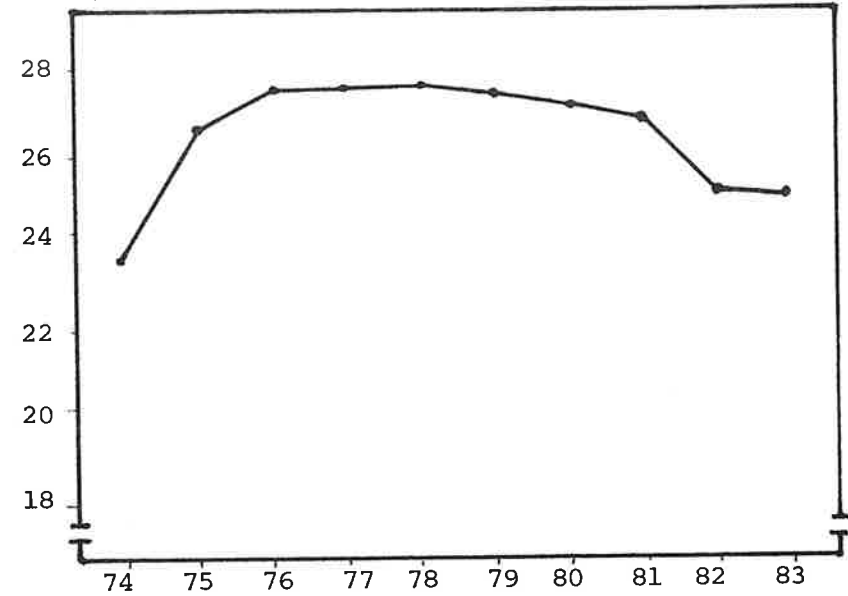
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MULTIPLE VEHICLE COLLISION
(in thousands)

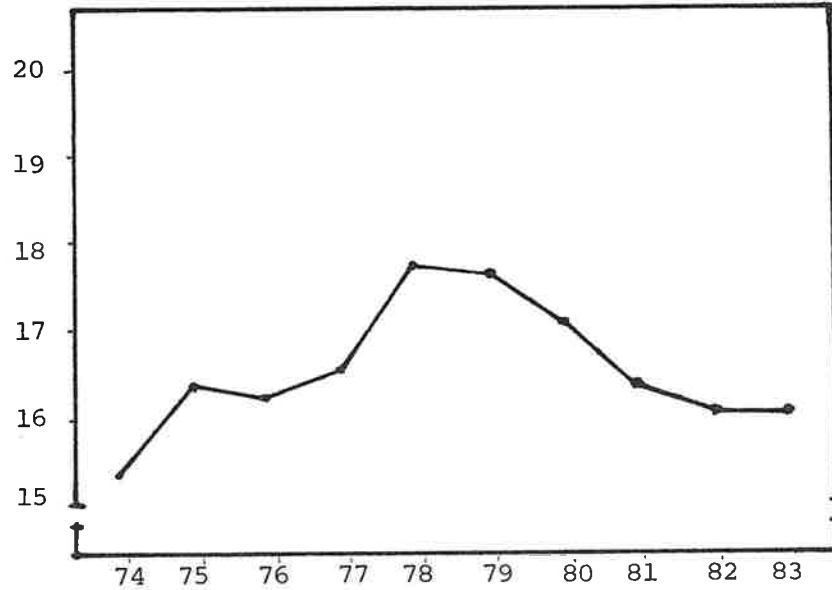


SINGLE VEHICLE COLLISIONS
(in thousands)

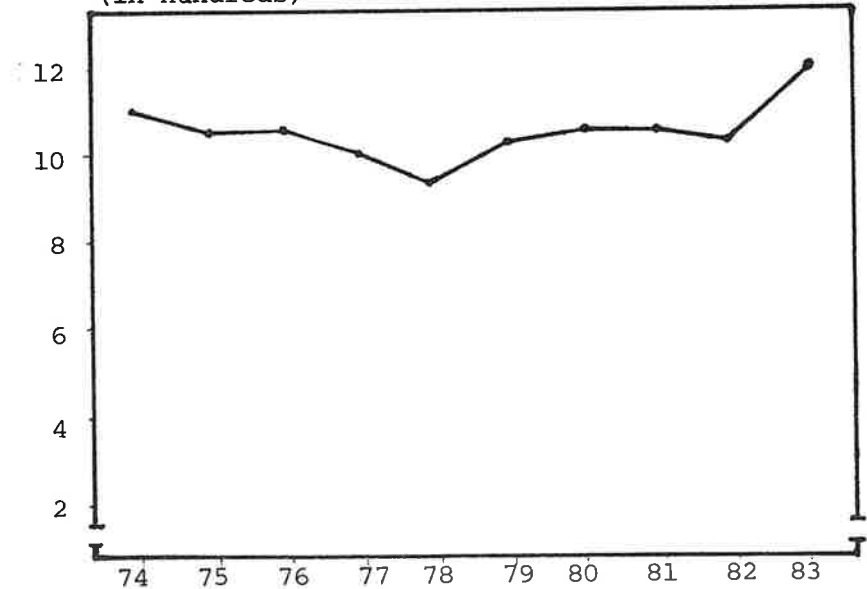


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VEHICLE-PEDESTRIAN COLLISIONS
(in hundreds)



VEHICLE-PEDALCYCLIST COLLISIONS
(in hundreds)



SUMMARY OF MOTOR VEHICLE TRAFFIC ACCIDENTS

ANNUAL REPORT 1983

FOR THE STATE OF WASHINGTON

SUMMARY REPORT

ANNUAL REPORT 1983

DATE RUN 03/01/84

	INCORPORATED AREAS 2,500 POP. AND OVER	OTHER AREAS UNDER 2,500 POP. AND UNINCORPORATED AREAS	STATEWIDE TOTALS
TOTAL NUMBER OF ACCIDENTS	62,618	43,979	106,597
TOTAL NUMBER OF DRIVERS	114,302	69,790	184,092
TOTAL NUMBER OF VEHICLES	122,386	71,944	194,330
NUMBER OF FATAL ACCIDENTS	176	459	635
NUMBER OF INJURY ACCIDENTS	21,806	18,467	40,273
NUMBER OF PROPERTY DAMAGE ACCIDENTS	40,436	25,053	65,489
NUMBER OF PERSONS KILLED	180	525	705
NUMBER OF DISABLING INJURY	3,541	4,859	8,400
NUMBER OF NON-DISABLING INJURY	11,961	11,977	23,938
NUMBER OF POSSIBLE INJURY	15,150	10,829	25,979
TOTAL NUMBER OF PERSONS INJURED	30,652	27,665	58,317
NO. OF ACCIDENTS INV. BY WSP	4,300	23,916	28,216
NO. OF ACC. INV. BY OTHER LAW ENFORC.	41,736	12,518	54,254
TOTAL NO. OF INVESTIGATED ACCIDENTS	46,036	36,434	82,470
PERCENT OF ACCIDENTS INVESTIGATED	73.5 %	82.8 %	77.4 %
TOTAL NO. OF DRIVERS-INVESTIGATED ACCS.	81,901	56,330	138,231
TOTAL NO. OF VEHICLES-INVESTIGATED ACCS.	88,789	58,088	146,877
NO. OF ARRESTS INV. ACCIDENTS	29,411	21,555	50,966

SUMMARY OF MOTOR VEHICLE TRAFFIC COLLISIONS

ANNUAL REPORT 1983

TYPE OF COLLISION (FIRST HARMFUL EVENT)	FOR THE PERIOD 01/01 - 12/31, 1983				STATEWIDE						
	TOTAL	NUMBER OF COLLISIONS			TOTAL KILLED	TOTAL INJURED	NUMBER OF PERSONS			NO INJURIES	
FATAL		FATAL	NON PROPERTY DAMAGE	A.			B.	C.			
*** SINGLE VEHICLE COLLISION ***											
FIXED OBJECT:											
RAN OVER EMBANKMENT	1,566	26	818	722	28	1,163	226	626	311	1,097	
RAN INTO DITCH OR BANK	3,359	28	1,580	1,751	28	2,091	363	1,112	616	2,657	
STRUCK TREE OR STUMP	1,861	32	913	916	40	1,235	250	649	300	1,377	
STRUCK POLE OR POST	4,278	46	1,910	2,322	49	2,511	506	1,345	660	3,307	
STRUCK GUARDRAIL OR BARRIER	2,813	33	1,149	1,631	34	1,449	261	753	435	2,337	
STRUCK OTHER FIXED OBJECT	4,475	52	1,522	2,901	56	1,976	401	1,032	543	4,057	
STRUCK OTHER OBJECT	288	2	93	193	2	122	35	50	37	281	
OVERTURNED	4,602	78	2,675	1,849	80	3,651	814	1,876	961	2,971	
VEHICLE-PEDESTRIAN	1,638	89	1,549	0	89	1,645	574	676	395	1,985	
VEHICLE-RAILWAY TRAIN	81	3	31	47	4	38	13	17	8	51	
VEHICLE-PEDALCYCLIST	1,230	14	1,202	14	14	1,266	318	682	266	1,467	
VEHICLE-ANIMAL	1,182	2	199	981	3	245	37	126	82	1,311	
NON-COLLISION	993	10	411	572	10	565	119	292	154	1,301	
TOTAL SINGLE VEHICLE COLLISIONS	28,366	415	14,052	13,899	437	17,961	3,957	9,236	4,768	24,203	
*** MULTIPLE VEHICLE COLLISION ***											
HEAD-ON	802	43	511	248	64	1,145	389	463	293	1,151	
REAR-END	21,610	17	9,359	12,234	19	13,685	863	4,058	8,964	40,306	
SIDESWIPE	7,451	26	1,558	5,867	30	2,343	321	931	1,091	16,766	
ANGULAR DIRECTION	20,161	58	7,386	12,717	70	11,692	1,434	4,629	5,630	41,603	
ENTER/LEAVE PARKED POSITION	1,420	1	183	1,236	1	256	22	84	150	3,076	
ENTER/LEAVE DRIVEWAY ACCESS	9,971	15	2,851	7,065	16	4,306	455	1,568	2,283	21,167	
STRUCK PARKED VEHICLE	8,090	11	1,175	6,904	11	1,467	176	809	482	8,728	
SAME DIRECTION BROADSIDE	2,278	6	442	1,830	6	680	72	260	348	5,050	
OPPOSITE DIRECTION BROADSIDE	1,013	26	424	493	32	1,024	253	405	366	1,829	
ONE LEFT/ONE STRAIGHT OPPOSITE DIR	5,434	17	2,221	3,196	19	3,555	458	1,494	1,603	11,157	
OTHER MULTIPLE VEHICLE COLLISIONS	1	0	1	0	0	2	0	1	1	1	
TOTAL MULTIPLE VEHICLE COLLISIONS	78,231	220	26,221	51,790	268	40,356	4,443	14,702	21,211	156,831	
TOTAL COLLISIONS	106,597	635	40,273	65,689	705	58,317	8,400	23,938	25,979	181,034	

***** NOTE ***** - THE THREE CATEGORIES OF INJURIES FOLLOW THE MANUAL ON CLASSIFICATION OF MOTOR VEHICLE COLLISIONS (1970 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.

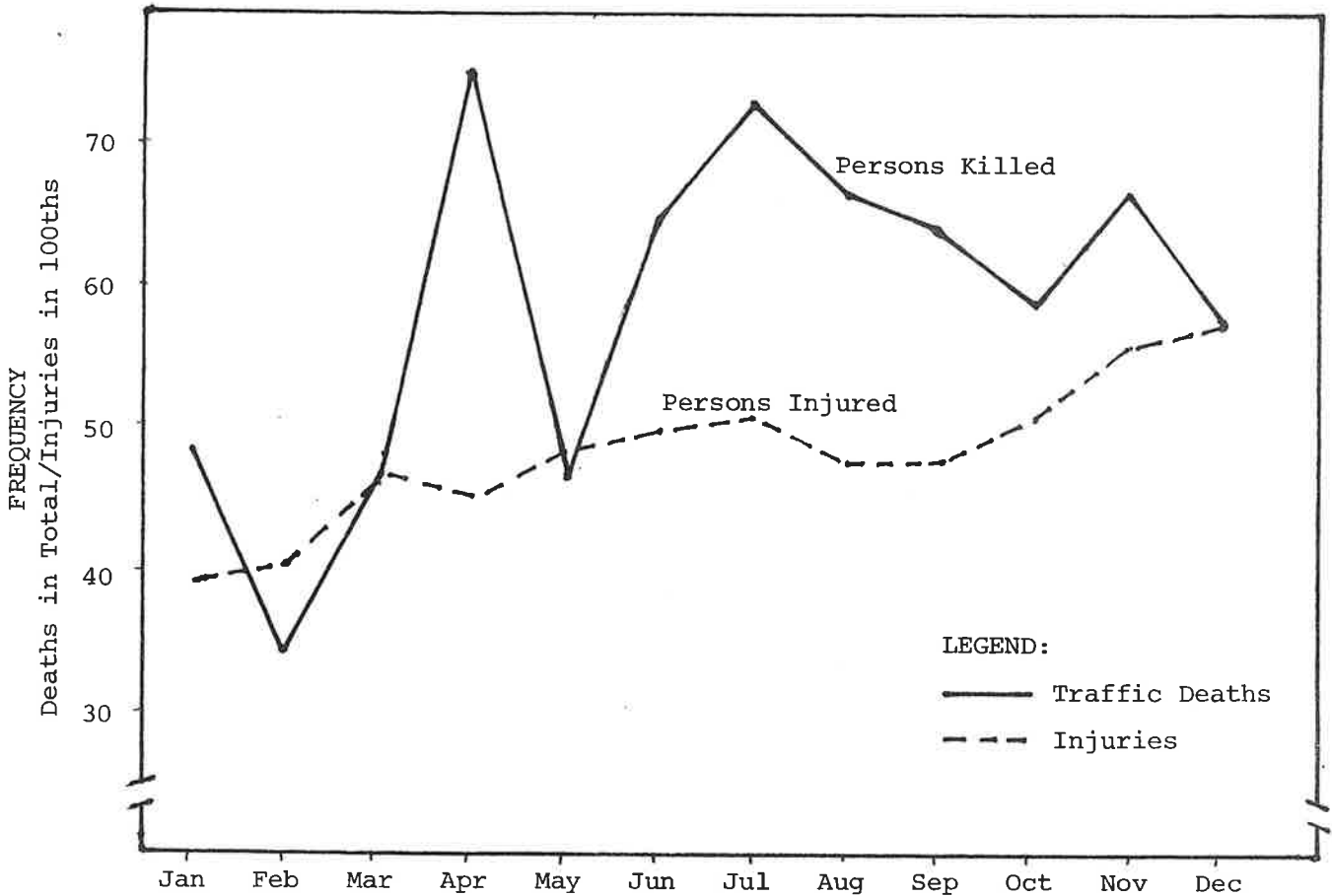
C. POSSIBLE INJURY, AN INJURY THAT IS REPORTED OR CLAIMED BUT IS NOT AN INCAPACITATING OR EVIDENT INJURY.

SUMMARY OF MOTOR VEHICLE ACCIDENTS
FOR THE STATE OF WASHINGTON

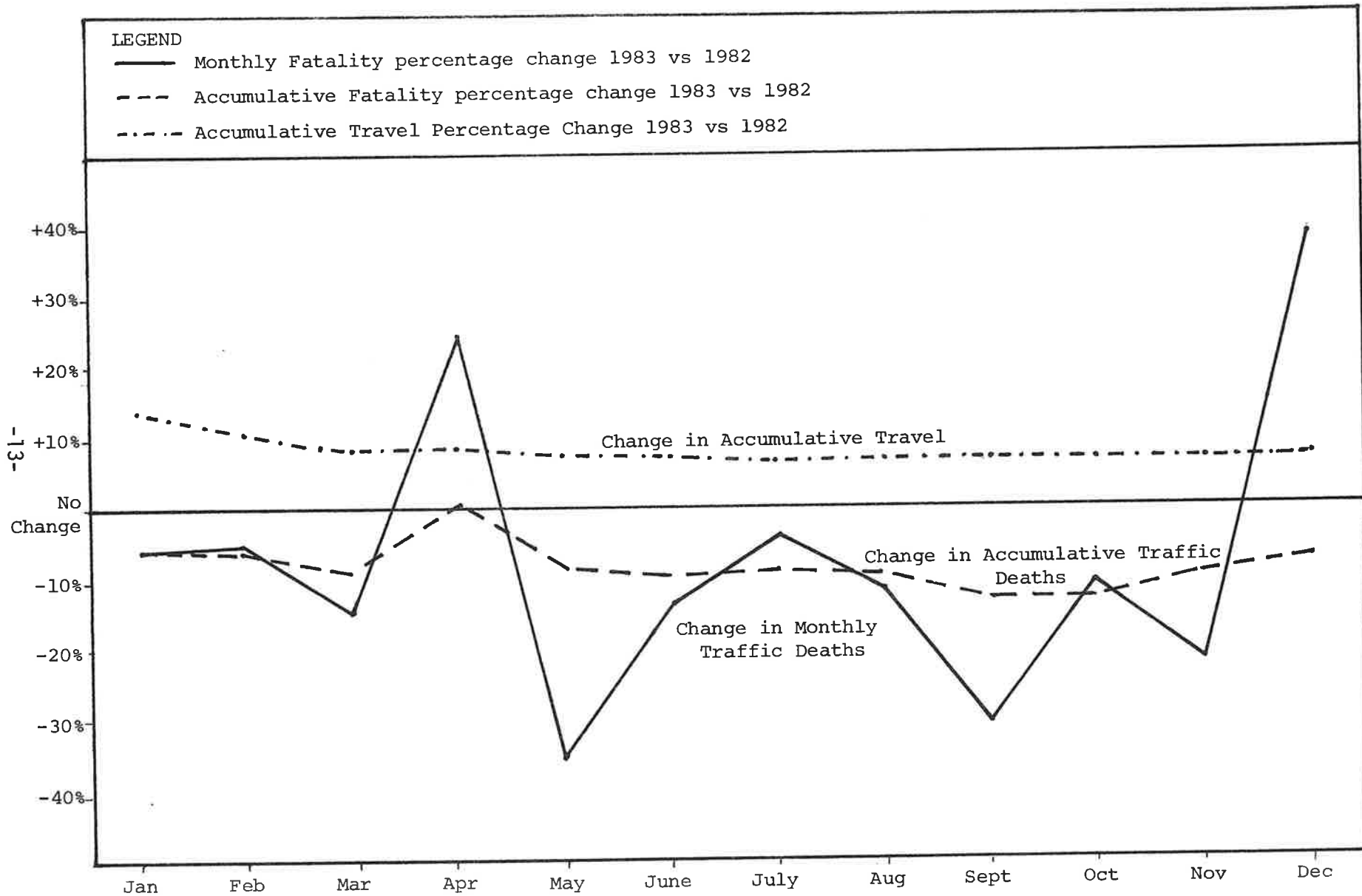
ANNUAL REPORT 1983

MONTH	TOTAL ACCIDENTS	FATAL ACC	INJ ACC	P.D. ACC	NO. KILLED	NO. INJ
JANUARY	7,813	43	2,759	5,011	49	3,961
FEBRUARY	7,795	31	2,833	4,931	34	4,034
MARCH	8,347	42	3,199	5,106	46	4,650
APRIL	7,623	64	3,015	4,544	76	4,550
MAY	8,340	45	3,334	4,961	47	4,850
JUNE	8,584	60	3,427	5,102	65	4,956
JULY	8,720	69	3,494	5,157	73	5,124
AUGUST	8,388	58	3,384	4,941	67	4,828
SEPTEMBER	8,508	57	3,347	5,104	64	4,848
OCTOBER	9,103	59	3,531	5,513	59	5,070
NOVEMBER	10,701	57	3,870	6,774	67	5,606
DECEMBER	12,570	50	4,075	8,545	50	5,740
	106,597	635	40,273	65,685	705	58,317

TRAFFIC DEATHS AND INJURIES BY MONTH



PERCENTAGE CHANGE OF TRAFFIC DEATHS AND TRAVEL BY MONTH
1983 vs 1982



STATEWIDE ACCIDENT CONTRIBUTING CIRCUMSTANCES - BY COUNTY

TOP TEN DRIVER VIOLATIONS (INVESTIGATED ACCIDENTS ONLY)

FOR THE PERIOD 01/01 - 12/31, 1983

PREPARED BY RECORDS SECTION W. S. P.

COUNTY	FTYROW	SPEED SAFE	INATTN	DRUNK DRIVER	FOL. TOO CLOSE	DISH OR SIG.	SIGN	IMP. TURN	DEF. EQUIP.	SPEED LEGAL	OVFR CENTER	TOTAL TOP TEN	ALL OTHERS
ADAMS	49	78	62	28	10	8		6	24	9	7	281	48
ASCTIA	40	37	57	31	14	14		7	13	10	5	248	15
BENTON	538	363	419	249	216	163		78	121	103	47	2,297	150
CHELAN	221	203	246	122	90	67		55	75	39	18	1,136	93
CLALLAM	204	193	203	105	41	40		42	70	39	30	967	62
CLARK	542	457	514	347	129	218		84	176	112	65	2,664	156
COLUMBIA	8	26	25	8	5	3		1	4	4	5	89	13
COWLITZ	362	251	376	166	90	134		53	113	78	34	1,664	112
DJUGLAS	65	104	66	46	29	28		13	32	22	11	416	33
FERRY	1	48	33	29	1	1		1	24	8	7	153	10
FRANKLIN	232	126	234	89	33	73		30	40	29	14	900	69
GARFIELD	4	19	7	5	0	2		0	7	3	2	49	15
GRANT	150	175	179	107	29	43		37	72	51	20	863	107
GRAYS HARBOR	301	257	329	201	99	88		60	105	85	41	1,566	103
ISLAND	100	146	125	80	36	22		17	33	39	8	606	60
JEFFERSON	51	61	81	29	3	5		8	22	18	16	294	33
KING	7,944	4,334	8,213	2,600	2,294	2,221		1,122	1,359	1,049	684	31,825	1,501
KITSAP	710	630	630	415	165	242		86	177	168	71	3,294	203
KITTITAS	97	300	162	65	28	29		12	72	48	10	623	118
KLICKITAT	28	103	68	44	8	7		3	30	12	11	314	26
LEWIS	219	247	286	156	54	78		25	108	54	28	1,255	117
LINCOLN	14	39	43	7	3	2		3	14	6	7	133	33
MASON	72	187	109	86	32	16		18	39	42	21	622	62
SKANOGAN	69	167	131	95	17	17		10	47	49	16	618	75
PACIFIC	39	74	63	51	10	16		7	26	12	8	306	34
PEND OREILLE	13	38	18	18	2	2		1	11	5	9	117	14
PIERCE	2,989	1,989	2,743	1,407	892	1,086		431	426	455	301	12,719	706
SAN JUAN	15	21	30	9	0	4		1	9	7	4	100	11
SKAGIT	359	296	343	154	99	68		35	93	77	47	1,601	131
SKAMANIA	11	53	48	17	1	4		2	11	2	10	159	23
SNOHEMISH	1,570	1,498	1,652	854	536	460		256	423	332	198	7,779	478
SPOKANE	993	527	934	554	264	458		180	208	227	135	4,874	257
STEVENS	67	167	49	65	15	19		8	42	24	26	482	41
THURSTON	603	571	655	318	194	187		103	163	132	54	2,930	177
WAHKIAKUM	0	20	6	5	2	0		2	10	4	4	57	9
WALLA WALLA	230	154	204	113	38	64		32	48	49	38	970	61
WHATCOM	511	325	511	223	123	143		94	115	61	49	2,155	150
WITMAN	100	137	148	59	24	30		37	52	35	30	652	69
YAKIMA	914	589	734	447	159	339		139	159	146	83	3,709	255
STATEWIDE	20,457	15,410	20,750	9,452	5,775	6,401		3,055	4,573	3,645	2,174	91,742	5,600

SUMMARY OF MOTOR VEHICLE ACCIDENTS BY AGE AND VIOLATION

FOR THE PERIOD 01/01 - 12/31, 1983

PREPARED BY RECORDS SECTION W. S. P.

DRIVER AGE	DWI	SPEED COND	SPEED LEGAL	DISR OR SIGN	SIG	IMP TRAVEL	LANE	FTYROW	FCL TCC CLOSE	OVER CENTER	DEF EQUIP	IMP PASS	OTHER CIRCUM	TOTAL
15 & UNDER	36	147	44	38		0	95	17	12	39	5	163	596	
16	96	725	239	177		0	697	192	95	183	63	882	3,349	
17	192	860	260	267		0	773	266	129	255	97	1,102	4,201	
18	331	940	322	316		0	888	327	125	316	95	1,239	4,899	
19	409	849	264	300		0	787	289	105	316	100	1,133	4,552	
20	459	786	242	273		0	704	291	93	244	88	1,078	4,258	
21	532	748	230	252		0	659	277	76	238	78	1,016	4,106	
22	485	600	177	235		0	595	223	70	200	75	898	3,558	
23	443	563	159	237		0	595	216	73	173	69	825	3,353	
24	434	490	139	196		0	556	169	59	138	63	723	2,967	
25	389	473	122	180		0	543	172	64	139	54	682	2,818	
26	352	442	107	122		0	436	179	63	135	53	711	2,650	
27	353	422	103	141		0	484	160	70	140	48	645	2,500	
28	338	399	69	157		0	470	149	45	103	46	630	2,406	
29	296	350	67	157		0	407	163	51	106	42	576	2,215	
30 THRU 34	1,154	1,560	276	607		0	1,957	644	246	485	148	2,607	9,684	
35 THRU 39	793	1,050	168	455		0	1,536	456	158	350	118	1,878	6,962	
40 THRU 44	510	688	84	303		0	1,172	273	99	131	75	1,306	4,701	
45 THRU 49	362	471	59	215		0	791	200	69	167	46	904	3,284	
50 THRU 54	302	410	46	212		0	819	228	60	104	53	819	3,053	
55 THRU 59	243	331	21	212		0	836	163	60	108	46	793	2,813	
60 THRU 64	186	254	26	217		0	930	151	46	75	32	726	2,643	
65 THRU 69	88	196	19	205		0	832	95	28	52	32	545	2,092	
70 THRU 74	55	120	11	166		0	740	79	22	34	15	446	1,688	
75 & OVER	39	120	9	266		0	1,166	84	38	37	23	602	2,384	
NOT STATED	575	1,416	382	495		0	940	312	218	245	134	4,829	9,546	
TOTAL	9,452	15,410	3,645	6,401		0	20,458	5,775	2,174	4,573	1,698	27,758	97,344	

SUMMARY OF MOTOR VEHICLE TRAFFIC COLLISIONS

FOR THE PERIOD 01/01 - 12/31, 1983

PREPARED BY RECORDS SECTION W. S. P.

STATEWIDE

INVESTIGATING AGENCY

COLLISION TOTALS	W. S. P.	SHERIFF	OTHER LAW ENFORCEMENT	NOT INVESTIGATED	TOTAL
TOTAL	28,216	10,465	43,789	24,127	106,597
FATAL	452	35	147	1	635
INJURY	13,223	4,556	16,858	5,636	40,273
PROPERTY DAMAGE	14,541	5,874	26,784	18,490	65,689
FREEWAY	6,976	165	839	2,148	10,128
RURAL-STATE ROUTE	9,830	618	744	1,835	13,027
COUNTY ROAD	10,356	9,015	379	4,418	24,168
OTHER ROUTES	1,054	667	41,827	15,726	59,274
SINGLE VEHICLE - ALL	12,192	3,495	5,731	1,536	22,954
SINGLE VEHICLE - FATAL	222	19	53	1	295
MULTIPLE VEHICLE - ALL	13,792	5,657	30,261	20,431	70,141
MULTIPLE VEHICLE - FATAL	155	13	41	0	209
-16- ALL COLLISIONS - MAIN CAUSES					
EXCEEDING LEGAL OR SAFE SPEED	11,141	2,561	5,353	* NA	19,055
FAILURE TO YIELD RIGHT OF WAY	4,201	2,280	13,976		20,458
DRIVING WHILE INTOXICATED	4,105	1,248	4,099		9,452
FALLING ASLEEP OR INATTENTION	6,013	2,976	13,286		22,275
FOLLOWING TOO CLOSE	2,127	615	3,033		5,775
DISREGARDING SIGNS OR SIGNALS	1,170	670	4,561		6,401
FATAL COLLISIONS - MAIN CAUSES					
DRIVING WHILE INTOXICATED	197	16	49	* NA	262
EXCEEDING LEGAL OR SAFE SPEED	169	11	40		220
FAILURE TO YIELD RIGHT OF WAY	39	2	27		68
CROSSING OVER CENTER LINE	56	4	4		64
DISREGARDING SIGNS OR SIGNALS	23	7	11		41
FALLING ASLEEP OR INATTENTION	64	6	24		94

* DRIVER VIOLATIONS COME FROM INVESTIGATED COLLISIONS ONLY

DRIVER AGE DISTRIBUTION - 1983

Age Group	Involved in Collisions				Licensed Drivers		Over/Under Ratio Representation Drivers In:	
	Total		Fatal		Number	%	Total	Fatal
	Number	%	Number	%				
Under 16	700	0.43	3	0.34	1	--	--	--
16	4,513	2.79	15	1.71	26,805	0.93	+3.00	+1.84
17	6,003	3.71	23	2.63	41,787	1.46	+3.20	+1.80
18	7,088	4.38	31	3.54	51,086	1.78	+2.46	+1.99
19	6,801	4.20	24	2.74	59,035	2.06	+2.04	+1.33
20	6,451	3.98	41	4.69	60,601	2.11	+1.89	+2.22
21	6,429	3.97	39	4.46	65,232	2.28	+1.74	+1.96
22	5,889	3.64	33	3.77	66,622	2.32	+1.57	+1.63
23	5,713	3.53	40	4.57	69,457	2.42	+1.46	+1.89
24	5,323	3.29	38	4.34	69,992	2.44	+1.35	+1.78
25 - 29	24,002	14.82	142	16.23	377,026	13.15	+1.13	+1.23
30 - 34	19,604	12.11	77	8.80	370,328	12.92	-0.94	-0.68
35 - 39	15,202	9.39	86	9.83	326,754	11.40	-0.82	-0.86
40 - 44	10,698	6.61	54	6.17	248,073	8.65	-0.76	-0.71
45 - 49	7,687	4.75	44	5.03	194,211	6.77	-0.70	-0.74
50 - 54	6,936	4.28	32	3.66	175,613	6.13	-0.70	-0.60
55 - 59	6,485	4.00	34	3.89	175,041	6.11	-0.65	-0.64
60 - 64	5,702	3.52	18	2.06	167,461	5.84	-0.60	-0.35
65 - 69	4,228	2.61	45	5.14	135,499	4.73	-0.55	+1.09
70 & Over	6,482	4.00	56	6.40	186,354	6.50	-0.62	-0.98
Male	112,046	64.52	704	79.6%	1,503,680	52.45	+1.52	+1.52
Female	61,610	35.48	180	20.4%	1,363,352	47.55	-0.43	-0.43

COLLISION RATE BY CITY POPULATION - 1983
(Does not include collisions on state limited access roads or freeways.)

<u>City</u>	<u>1983 Population</u>	<u>Traffic Deaths</u>	<u>Death Rate*</u>	<u>No. of Injuries</u>	<u>Injury Rate**</u>	<u>Total Collisions</u>	<u>Collision Rate**</u>
250,000 and over Population							
1. Seattle	489,700	46	9.4	8,128	16.60	17,091	34.90
100,000 to 250,000 Population							
1. Spokane	170,200	9	5.3	2,924	17.18	5,095	29.94
2. Tacoma	158,400	16	10.1	2,956	18.66	5,725	36.14
50,000 to 100,000 Population							
1. Bellevue	73,900	2	2.7	1,027	13.90	2,059	27.86
2. Everett	56,200	1	1.8	762	13.56	1,956	34.80
25,000 to 50,000 Population							
1. Yakima	48,500	3	6.2	758	15.63	1,819	37.51
2. Bellingham	45,900	0	--	531	11.57	1,092	23.79
3. Vancouver	42,600	6	14.1	693	16.27	1,388	32.58
4. Kennewick	35,700	3	8.4	353	9.89	904	25.32
5. Bremerton	35,475	7	19.7	536	15.11	1,225	34.53
6. Renton	32,700	4	12.2	983	30.06	1,248	38.17
7. Richland	32,000	5	15.6	383	11.97	734	22.94
8. Longview	30,100	4	13.3	454	14.95	847	28.14
9. Auburn	29,000	4	13.8	339	11.69	703	24.24
10. Olympia	28,000	5	17.9	460	16.43	1,008	36.00
11. Edmonds	27,000	1	3.7	218	8.07	483	17.89
12. Redmond	26,300	0	--	274	10.42	491	18.67
13. Walla Walla	25,600	2	7.8	264	10.31	520	20.31
14. Kent	25,500	2	7.8	665	26.08	1,141	44.71
15,000 to 25,000 Population							
1. Lynnwood	23,000	0	--	483	21.00	898	39.04
2. Pullman	23,000	0	--	118	5.13	241	10.48

COLLISION RATE BY CITY POPULATION - 1983
(Does not include collisions on state limited access roads or freeways.)

<u>City</u>	<u>1983 Population</u>	<u>Traffic Deaths</u>	<u>Death Rate*</u>	<u>No. of Injuries</u>	<u>Injury Rate**</u>	<u>Total Collisions</u>	<u>Collision Rate**</u>
3. Mercer Island	21,150	0	--	82	3.88	219	10.35
4. Pasco	19,050	3	15.7	237	12.44	610	32.02
5. Kirkland	18,850	3	15.9	195	10.34	483	25.62
6. Puyallup	18,550	1	5.4	225	12.13	509	27.44
7. Aberdeen	18,050	4	22.2	200	11.08	562	31.14
8. Wenatchee	17,150	1	5.8	214	12.48	590	34.40
9. Port Angeles	17,100	0	--	165	9.65	458	26.78
10. Mountlake Terrace	16,000	0	--	111	6.94	280	17.50
10,000 to 15,000 Population							
1. Lacey	14,300	0	--	146	10.21	324	22.66
2. Mount Vernon	13,600	1	7.4	210	15.44	403	29.63
3. Oak Harbor	12,150	0	--	71	5.84	144	11.85
4. Centralia	11,700	2	17.1	178	15.21	343	29.32
5. Ellensburg	11,550	0	--	58	5.02	209	18.10
6. Kelso	11,000	1	9.1	149	13.55	351	31.91
7. Moses Lake	10,300	0	--	95	9.22	248	24.08
8. DesMoines	10,250	2	19.5	143	13.95	204	19.90
Statewide Urban (Less Urban Freeways)	2,141,838	151	7.1	27,488	12.83	56,976	26.60

*Frequency per 100,000 population

**Frequency per 1,000 population

COLLISION RATES BY COUNTY POPULATION - 1983

<u>County</u>	<u>1982 Population</u>	<u>Traffic Deaths</u>	<u>Death Rate*</u>	<u>No. of Injuries</u>	<u>Injury Rate**</u>	<u>Total Collisions</u>	<u>Collision Rate**</u>
Over 1,000,000 Population							
1. King	1,315,800	143	10.87	19,863	15.10	38,533	29.28
250,000 to 500,000 Population							
1. Pierce	507,000	79	15.58	7,610	15.01	13,335	26.30
2. Snohomish	360,000	60	16.67	4,626	12.85	8,100	22.50
3. Spokane	348,000	39	11.21	4,938	14.19	8,031	23.08
100,000 to 250,000 Population							
1. Clark	200,000	30	15.00	2,430	12.15	4,135	20.68
2. Yakima	177,000	32	18.08	1,980	11.19	4,057	22.92
3. Kitsap	161,600	32	19.80	1,835	11.36	3,394	21.00
4. Thurston	133,500	23	17.23	1,707	12.79	3,124	23.40
5. Whatcom	112,100	17	15.17	1,445	12.89	2,366	21.11
6. Benton	108,700	19	17.48	1,265	11.64	2,482	22.83
50,000 to 100,000 Population							
1. Cowlitz	79,300	17	21.44	1,040	13.11	1,890	23.83
2. Skagit	66,100	17	25.72	1,022	15.46	1,669	25.25
3. Grays Harbor	65,800	8	12.16	831	12.63	1,615	24.54
4. Lewis	56,000	11	19.64	805	14.38	1,377	24.59
5. Clallam	52,200	15	28.74	520	9.96	1,074	20.57
25,000 to 50,000 Population							
1. Grant	49,100	20	40.73	550	11.20	964	19.63
2. Walla Walla	48,200	10	20.75	569	11.80	942	19.54
3. Island	47,000	9	19.15	416	8.85	696	14.81
4. Chelan	46,500	14	30.11	583	12.54	1,247	26.82
5. Whitman	38,900	7	17.99	376	9.67	641	16.48
6. Franklin	36,000	8	22.22	410	11.39	923	25.64

COLLISION RATES BY COUNTY POPULATION - 1983

<u>County</u>	<u>1982 Population</u>	<u>Traffic Deaths</u>	<u>Death Rate*</u>	<u>No. of Injuries</u>	<u>Injury Rate**</u>	<u>Total Collisions</u>	<u>Collision Rate**</u>
7. Mason	33,600	11	32.74	438	13.04	692	20.60
8. Okanogan	31,500	14	44.44	356	11.30	710	22.54
9. Stevens	29,700	5	16.84	324	10.91	503	16.94
10,000 to 25,000 Population							
1. Kittitas	24,900	16	64.26	473	19.00	922	37.03
2. Douglas	22,400	9	40.18	249	11.12	439	19.60
3. Pacific	17,600	0	--	225	12.78	402	22.84
4. Asotin	16,800	1	5.95	116	6.90	271	16.13
5. Jefferson	16,800	3	17.86	194	11.55	362	21.55
6. Klickitat	16,300	7	42.94	170	10.43	313	19.20
7. Adams	13,600	9	66.18	223	16.40	319	23.46
-21- Under 10,000 Population							
1. Lincoln	9,600	0	--	128	13.33	169	17.60
2. Pend Oreille	8,900	2	22.47	118	13.26	163	18.31
3. San Juan	8,700	2	22.99	73	8.39	122	14.02
4. Skamania	7,800	3	38.46	127	16.28	202	25.90
5. Ferry	6,100	6	98.36	102	16.72	152	24.92
6. Columbia	4,000	2	50.00	76	19.00	109	27.25
7. Wahkiakum	3,700	1	27.03	44	11.89	77	20.81
8. Garfield	2,400	2	83.33	60	25.00	75	31.25
Total	4,285,100	705	16.45	58,317	13.61	106,597	24.88

*Frequency per 100,000 Population

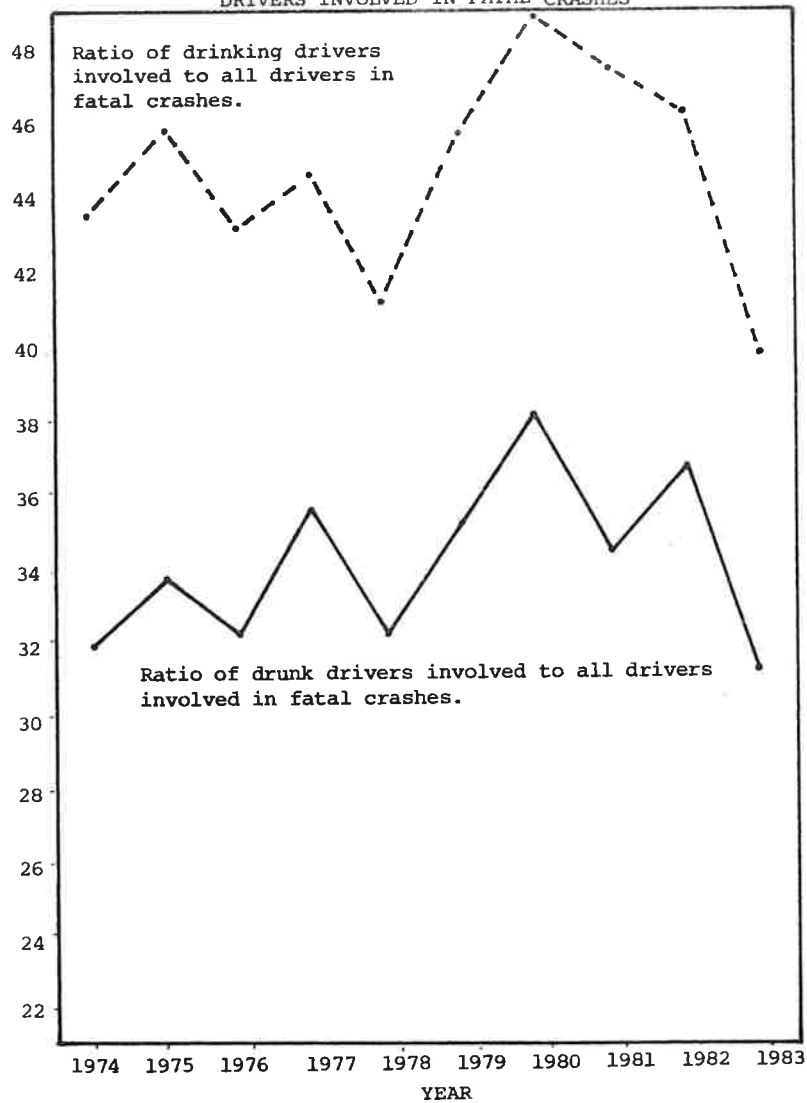
**Frequency per 1,000 Population

DRIVERS INVOLVED IN INVESTIGATED COLLISIONS
1982/1983 AND PREVIOUS 3 YEAR AVERAGE

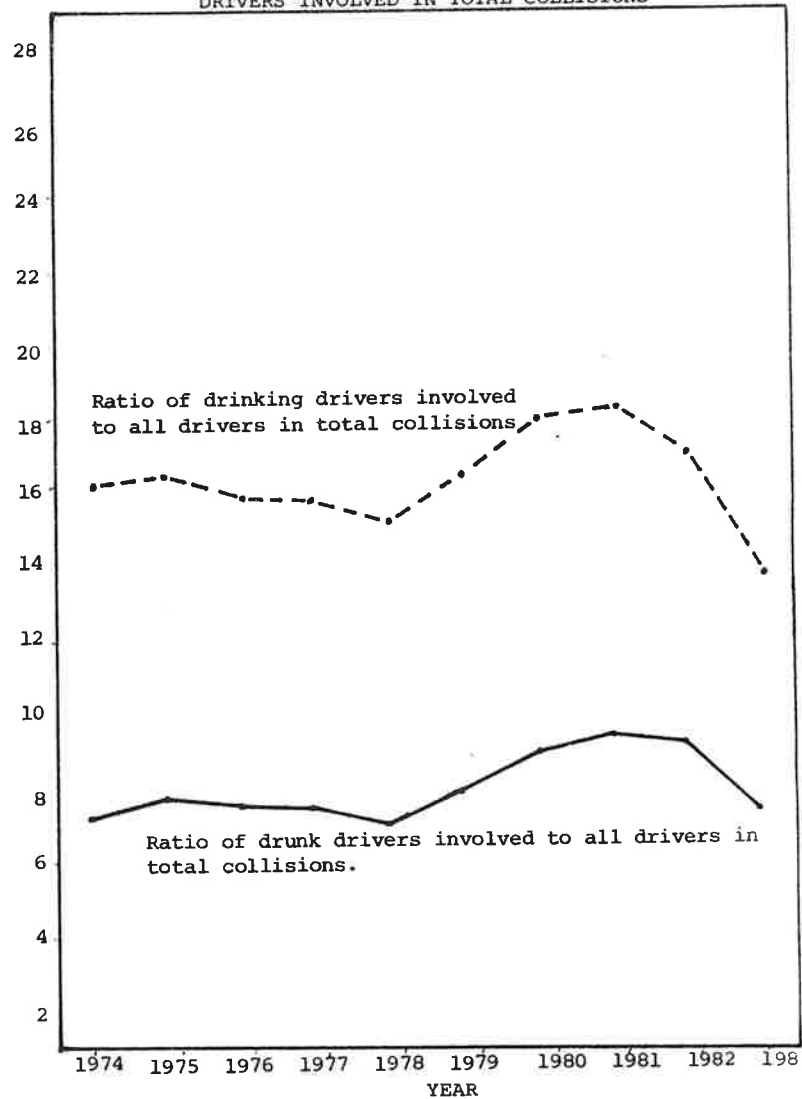
	Fatal Collisions					All Investigated Collisions				
	1983	1982	Pre 3 Yr. Average	% of Change		1983	1982	Pre 3 Yr. Average	% of Change	
				83-82	83-3 Yr. Avg				83-82	83-3 Yr. Avg
STATEWIDE										
Condition of Driver (Sobriety)										
Had been drinking ability impaired	260	333	378	-21.9	-31.2	9,267	10,379	11,077	-10.7	-16.3
Had been drinking ability not impaired	37	39	58	- 5.1	-36.2	3,571	4,049	4,696	-11.8	-24.0
Had been drinking sobriety unknown	31	51	63	-39.2	-50.8	4,471	5,148	6,177	-13.2	-27.6
Had not been drinking	502	489	543	+ 2.7	- 7.6	106,917	96,133	101,791	+11.2	- 5.0
Not stated	62	49	71	+26.5	-12.7	14,005	14,157	15,065	- 1.1	- 7.0
Total drivers	892	961	1,113	- 7.2	-19.9	138,231	129,866	138,807	+ 6.4	- 0.4
Total drivers drinking	328	423	499	-22.4	-34.3	17,309	19,576	21,950	-11.6	-21.1
Total drivers excluding not stated	832	912	1,042	- 8.8	-20.2	124,226	115,709	123,742	+ 7.4	+ 0.4
No. drinking drivers/100 involved	39.4	46.4	47.9	-15.1	-17.7	13.9	16.9	17.7	-17.8	-21.5
No. drunk drivers/100 involved	31.3	36.5	35.6	-14.2	-12.1	7.5	9.0	9.0	-16.7	-16.7
RURAL										
Had been drinking ability impaired	198	265	295	-25.3	-32.9	5,074	5,548	5,999	- 8.5	-15.4
Had been drinking ability not impaired	28	28	44	NC	-36.4	1,775	1,960	2,269	- 9.4	-21.8
Had been drinking sobriety unknown	24	36	43	-33.3	-44.2	2,449	2,706	3,285	- 9.5	-25.4
Had not been drinking	360	362	396	- 0.6	- 9.1	43,160	39,771	41,543	+ 8.5	+ 3.9
Not stated	32	21	33	+52.4	- 0.3	3,872	4,001	4,239	- 4.5	- 8.7
Total drivers	642	712	810	+ 9.8	-20.7	56,330	53,986	57,335	+ 4.3	- 1.8
Total drivers drinking	250	329	382	-24.0	-34.6	9,298	10,214	11,553	- 9.0	-26.4
Total drivers excluding not stated	610	691	778	-11.7	-21.6	52,458	49,985	53,096	+ 4.9	- 1.2
No. drinking drivers/100 involved	41.0	47.6	49.1	-13.9	-16.5	17.7	20.4	21.8	-13.2	- 1.9
No. of drunk drivers/100 involved	32.5	38.4	37.9	-15.4	-14.2	9.7	11.1	11.3	-12.6	-14.2
URBAN										
Had been drinking ability impaired	62	68	83	- 8.8	-25.3	4,193	4,831	5,078	-13.2	-17.4
Had been drinking ability not impaired	9	11	14	-18.2	-35.7	1,796	2,089	2,427	-14.0	-26.0
Had been drinking sobriety unknown	7	15	19	-53.3	-63.2	2,022	2,442	2,892	-17.2	-30.1
Had not been drinking	142	127	147	+11.8	- 3.4	63,757	56,362	60,249	+13.1	+ 5.8
Not stated	30	28	39	+ 7.1	-23.1	10,133	11,156	11,159	- 9.2	- 9.2
Total drivers	250	249	303	+ 0.4	-17.5	81,901	75,880	81,471	+ 7.9	+ 0.5
Total drivers drinking	78	94	117	-17.0	-33.3	8,011	9,362	10,397	-14.4	-22.9
Total drivers excluding not stated	220	221	264	- 0.5	-16.7	71,768	65,724	70,646	+ 9.2	+ 0.2
No. drinking drivers/100 involved	35.5	42.5	44.3	-16.5	-19.9	11.2	14.2	14.5	-21.1	-22.8
No. of drunk drivers/100 involved	28.2	30.8	31.4	- 8.4	-10.2	5.8	7.4	7.2	-21.6	-19.4

RATIO OF DRINKING AND DRUNK DRIVERS INVOLVED IN TRAFFIC COLLISIONS
1974 - 1983

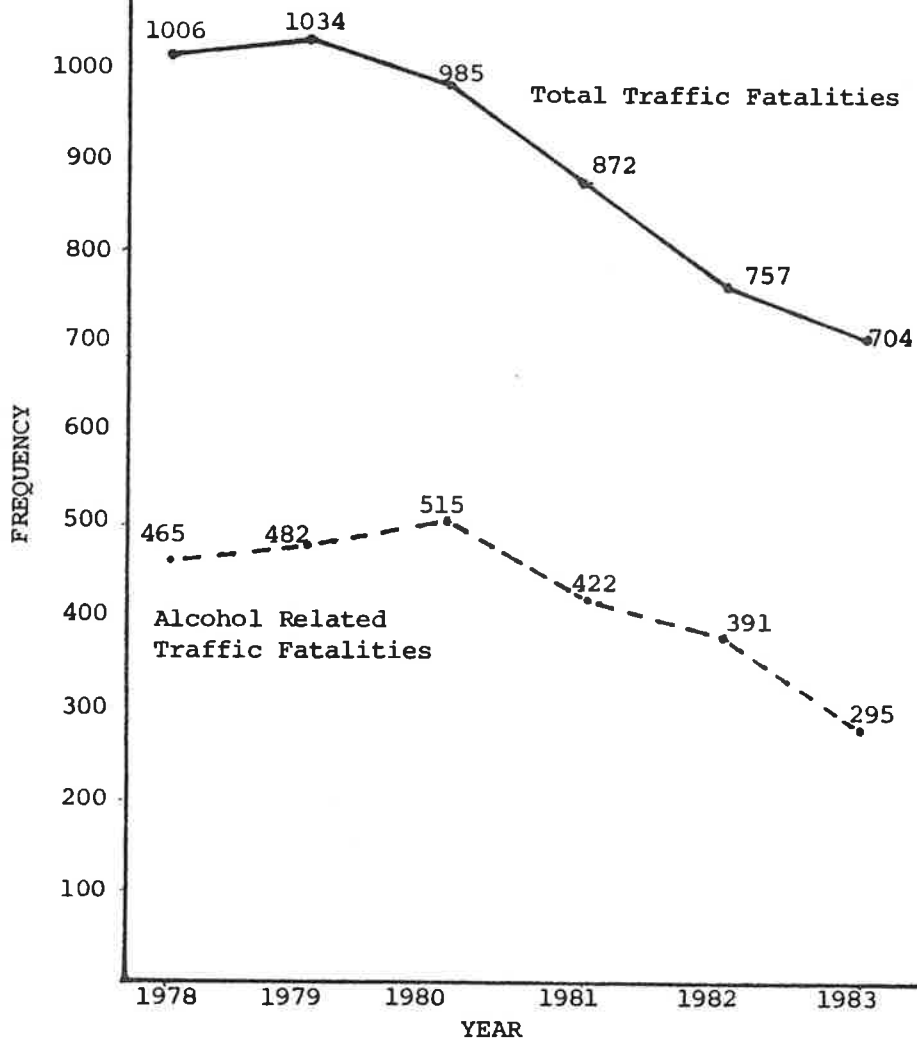
DRIVERS INVOLVED IN FATAL CRASHES



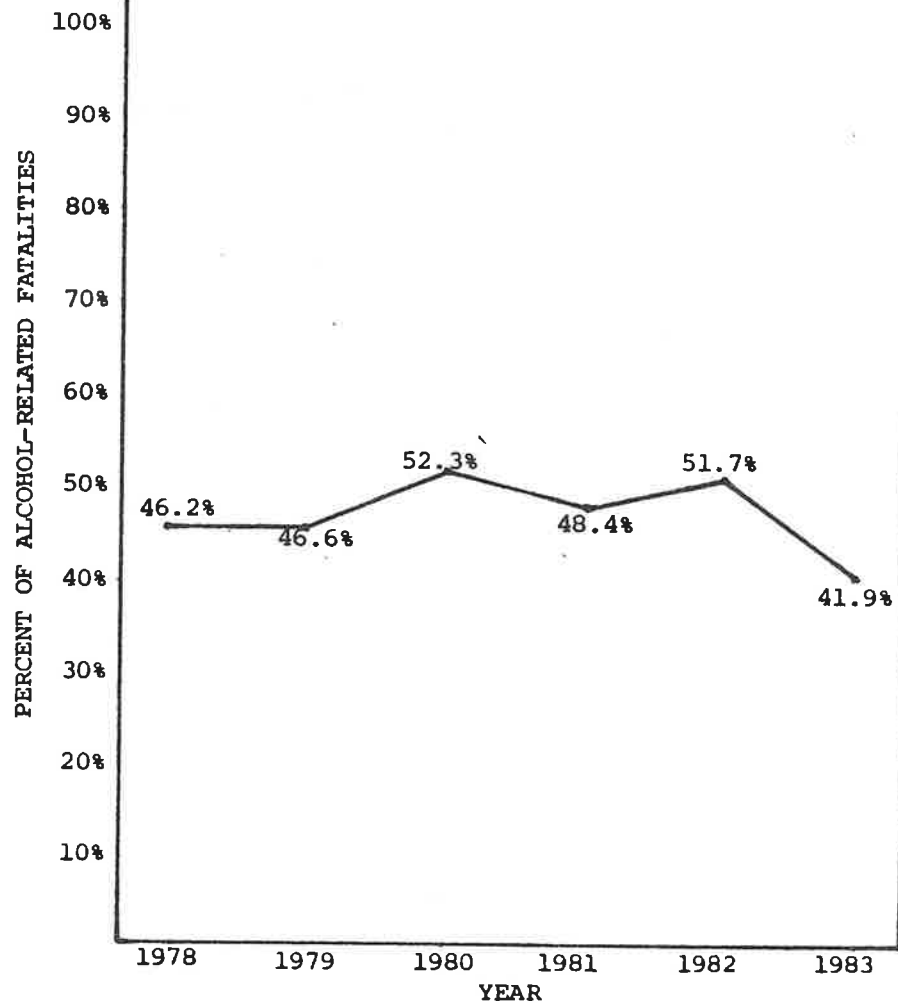
DRIVERS INVOLVED IN TOTAL COLLISIONS



COMPARISON OF ALCOHOL-RELATED FATALITIES
TO TOTAL TRAFFIC FATALITIES - 1978 - 1983



PERCENT OF ALCOHOL RELATED FATALITIES
TO TOTAL FATALITIES - 1978 - 1983



TOXICOLOGIST RESULTS OF DRIVERS KILLED IN FATAL COLLISIONS
1979 - 1980 - 1981 - 1982 - 1983

Age	Negative Result					Results Less Than .10					Results .10 and Over					Average Test Results*				
	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983
16	8	3	8	5	4	6	1	0	0	0	6	6	0	1	0	.14	.12	0	.20	0
17	4	7	2	4	3	1	3	2	2	3	9	8	3	2	2	.16	.16	.11	.13	.12
18	7	6	7	7	3	3	7	3	1	3	17	9	8	7	5	.16	.13	.08	.16	.12
19	7	5	2	6	2	8	3	2	0	0	6	6	10	9	2	.11	.12	.07	.20	.19
20	7	4	8	4	4	5	2	1	1	4	5	9	8	10	10	.13	.15	.16	.17	.20
21	6	5	4	3	2	4	3	3	0	0	11	15	11	10	5	.16	.16	.14	.19	.20
22	4	3	1	7	2	3	4	2	2	0	12	11	10	7	3	.15	.16	.19	.17	.15
23	3	4	4	1	3	3	2	1	0	1	9	6	10	5	11	.14	.16	.20	.17	.17
24	4	5	5	4	2	2	1	2	2	1	6	10	11	6	7	.15	.16	.17	.17	.19
25	6	1	4	4	3	2	1	1	1	0	10	6	7	5	6	.15	.19	.19	.17	.16
26	5	3	4	1	6	3	2	2	1	2	15	8	9	9	10	.16	.19	.17	.18	.19
27	4	1	4	1	3	1	2	1	0	0	16	8	5	6	5	.18	.16	.18	.21	.19
28	2	2	5	5	6	2	1	1	1	0	12	11	8	15	5	.17	.20	.17	.22	.19
29	6	1	2	1	3	2	0	0	0	0	11	6	5	5	6	.17	.19	.21	.17	.20
30	5	2	5	7	2	1	1	2	2	2	12	6	8	2	8	.19	.20	.16	.14	.17
31	1	2	3	1	1	0	0	2	0	1	5	5	6	8	5	.21	.22	.13	.23	.20
32	6	3	4	0	2	2	0	0	0	0	6	9	6	1	4	.14	.21	.18	.31	.23
33	1	2	3	2	1	1	1	2	0	0	5	5	7	3	1	.16	.17	.17	.17	.28
34	1	3	3	1	2	0	0	0	0	1	4	6	3	7	2	.17	.23	.17	.18	.16
35	3	1	5	3	4	0	0	0	1	0	6	2	1	2	4	.25	.19	.28	.16	.17
36	3	1	3	1	0	0	1	0	0	0	3	4	0	3	1	.23	.17	--	.16	.12
37	1	2	3	3	1	1	0	0	0	0	4	7	5	1	3	.17	.20	.14	.25	.14
38	1	0	3	0	1	1	0	0	1	0	1	2	4	1	1	.07	.21	.18	.11	.14
39	4	2	0	1	3	1	0	0	0	0	3	4	3	5	2	.16	.23	.19	.20	.21
40	4	0	3	1	2	0	0	0	1	0	2	0	3	4	3	.20	--	.19	.14	.20
41 - 45	4	10	8	6	3	2	2	1	1	1	9	16	15	16	8	.18	.21	.17	.17	.19
46 - 50	6	8	7	1	4	0	1	3	2	3	8	5	9	8	4	.23	.17	.20	.18	.13
51 - 55	7	2	4	8	6	0	2	1	1	2	6	6	9	7	3	.20	.17	.18	.20	.18
56 - 60	7	6	9	6	3	1	2	0	1	1	4	9	4	5	3	.19	.19	.24	.21	.16
61 - 65	3	3	5	3	2	0	1	0	0	0	4	4	1	2	3	.19	.22	.23	.21	.19
66 & Over	16	10	12	15	14	1	1	1	0	1	4	4	3	2	2	.14	.15	.16	.14	.13
TOTAL	146	107	140	112	97	56	44	34	21	26	231	213	192	174	134	.17	.18	.17	.18	.17
Percent of Tested Drivers	33.7	29.4	37.4	36.4	37.2	12.9	12.1	9.1	6.8	10.0	53.3	58.5	51.3	56.5	51.3					
Change-1983 from Previous 3 years					+8.1%					+7.5%					-7.5%					-4.0%

NOTE: During 1983 261 or 62.9% of the 415 drivers killed in traffic crashes were tested for alcohol, down from the 69.3% tested in 1982.

Comparison of Miles Traveled
All Reported Accidents & Alcohol Involved Accidents
By Age of Driver - 1983

<u>Driver Age</u>	<u>Percent of Vehicle Miles Traveled*</u>	<u>Percent of All Accident Drivers**</u>	<u>Over/Under Representation Ratio</u>	<u>Percent of All Alcohol Involved Accidents</u>	<u>Over/Under Representation Ratio</u>
16-17	1.95	6.50	3.33:1	3.78	1.94:1
18	1.97	4.38	2.22:1	4.40	2.23:1
19	2.31	4.20	1.82:1	5.02	2.17:1
20	2.74	3.98	1.45:1	5.42	1.98:1
21	2.31	3.97	1.72:1	6.50	2.81:1
22-24	8.38	10.46	1.25:1	16.00	1.91:1
25-34	27.40	26.93	.98:1	31.91	1.16:1
35-44	19.48	16.00	.82:1	13.90	.71:1
45-54	17.53	9.03	.52:1	6.68	.38:1
55-64	10.73	7.52	.70:1	4.31	.40:1
65 & Over	5.10	6.61	1.30:1	2.13	.45:1

* Source - National Accident Sampling System (NASS) - 1979-1980

** Source - Accident Records Unit - Washington State Patrol

COMPARISON OF ALCOHOL-RELATED COLLISIONS* BY MOTOR VEHICLE
TRAVEL BY COUNTY - 1983

County	Collisions	% of Total	% of Motor Vehicle Travel	Over/Under Rep. Ratio	Alcohol Related Collisions By Roadway Class			
					Cities	State Routes	County Roads	Other
Adams	56	0.34	0.99	-0.34	19	23	14	0
Asotin	64	0.39	0.30	+1.30	30	14	20	0
Benton	412	2.49	2.85	-0.87	259	73	78	2
Chelan	211	1.27	1.18	+1.08	85	66	58	2
Clallam	191	1.15	1.24	-0.93	74	56	56	5
Clark	613	3.70	4.35	-0.85	204	149	258	2
Columbia	21	0.13	0.16	-0.81	2	4	13	2
Cowlitz	295	1.78	2.57	-0.69	176	59	58	2
Douglas	74	0.45	0.58	-0.78	14	37	23	0
Ferry	51	0.31	0.17	+1.82	5	23	23	0
Franklin	150	0.91	1.15	-0.79	116	13	21	0
Garfield	7	0.04	0.14	-0.29	0	1	5	1
Grant	162	0.98	2.02	-0.49	63	48	48	3
Grays Harbor	354	2.14	1.87	+1.14	177	101	66	10
Island	142	0.86	0.69	+1.15	20	35	87	0
Jefferson	56	0.37	0.48	-0.77	16	25	15	0
King	4,694	28.33	29.15	-0.97	3,060	564	1,051	19
Kitsap	672	4.06	2.69	+1.51	228	123	329	2
Kittitas	131	0.79	2.04	-0.39	27	66	32	6
Klickitat	67	0.40	0.60	-0.67	10	31	25	1
Lewis	272	1.64	2.06	-0.80	83	91	95	3
Lincoln	31	0.18	0.62	-0.29	2	22	7	0
Mason	167	1.01	0.82	+1.23	22	70	68	7
Okanogan	196	1.18	0.62	+1.90	50	65	74	7
Pacific	95	0.57	0.53	+1.08	13	40	31	2
Pend Oreille	42	0.25	0.27	-0.93	2	25	12	3
Pierce	2,298	13.87	19.81	+1.41	1,111	443	742	2
San Juan	30	0.18	0.05	+1.20	5	0	25	0
Skagit	327	1.97	2.14	-0.92	127	96	103	1
Skamania	35	0.21	0.24	-0.88	4	17	12	2
Snohomish	1,513	9.13	6.96	+1.31	630	305	571	7
Spokane	1,064	6.42	8.12	-0.79	553	194	317	0
Stevens	137	0.83	0.71	+1.17	15	55	61	6
Thurston	485	2.93	3.66	-0.80	199	75	209	2
Wahkiakum	19	0.11	0.14	-0.79	2	14	3	0
Walla Walla	168	1.01	0.83	+1.22	86	29	53	0
Whatcom	404	2.44	2.30	+1.06	188	69	143	4
Whitman	118	0.71	1.13	-0.63	37	39	35	6
Yakima	746	4.50	3.75	+1.20	300	116	292	8
TOTAL	16,570	100.03	99.98					

*Investigated collisions only.

STATE OF WASHINGTON

OCCUPANT RESTRAINT EFFECTIVENESS SUMMARY
1979 - 1983

	1983	%	1982	%	1981	%	1980	%	1979	%
Restraints Used	31,751	21.0	24,763	17.8	25,190	15.9	27,018	17.4	35,864	21.3
No Restraints Used	119,670	79.0	114,686	82.2	132,921	84.1	128,264	82.6	132,888	78.7
Total	151,421	100.0	139,449	100.0	158,111	100.0	155,282	100.0	168,752	100.0

TYPES OF RESTRAINTS USED BY SEVERITY OF INJURY - 1983

Type	Number Used		Deaths		Disabling Inj.		Evident Injury		Possible Injury		No Injury	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Lap Belt	12,656	8.4	17	3.7	193	3.7	976	5.8	1,359	7.7	10,111	9.1
Shoulder Belt	1,722	1.1	1	0.2	23	0.4	134	0.8	204	1.2	1,360	1.2
Lap & Shoulder Belt	16,234	10.7	21	4.6	308	6.0	1,264	7.6	2,111	12.0	12,530	11.2
Child Restraint	1,095	0.7	3	0.7	8	0.2	73	0.4	87	0.5	924	0.8
Air Bag (Activated)	38	*	0	0.0	1	*	3	*	0	0.0	34	*
No Restraints	119,639	79.0	416	90.8	4,639	89.7	14,285	85.4	13,822	78.6	86,477	77.7
Total Occupants	151,384	100.0	458	100.0	5,172	100.0	16,735	100.0	17,583	100.0	111,436	100.0

*Less Than 1/10 of 1 percent.

COMPARISON OF RESTRAINT USAGE AND NON-USAGE
BY SEVERITY OF INJURY
1983

	Restraints Used		Restraints Not Used		Over/Under Ratio*
	Number	%	Number	%	
Deaths	42	0.1	416	0.6	3.00:1
Disabling Injuries	533	1.7	4,639	3.9	2.29:1
Evident Injuries	2,450	7.7	14,285	11.9	1.55:1
Possible Injuries	3,761	11.8	13,822	11.6	.98:1
No Injury	24,959	78.7	86,477	72.3	.92:1
Totals	31,745	100.0	119,639	100.0	

*Based on 1983 collision data an occupant who does not "buckle up" is three times as likely to be killed and twice as likely to be seriously injured as one who does "buckle up".

OCCUPANT RESTRAINT RATES BY SEX AND AGE
1980 - 1983

Occupant	Restraint Usage (%)			
	1983	1982	1981	1980
Male Driver	22.0	19.1	17.4	19.3
Female Driver	23.6	20.0	18.2	19.9
Male Passenger	14.8	11.2	9.9	10.6
Female Passenger	18.9	15.3	12.6	13.5
<u>Ages</u>				
0 - 5	42.3	32.2	26.1	24.0
6 - 15	14.8	11.5	9.6	9.7
16 - 19	14.0	11.5	11.7	12.0
20 - 24	16.3	14.3	13.4	14.8
25 - 34	23.0	19.6	17.5	19.4
35 - 64	23.3	22.2	20.3	22.3
65 and Over	21.4	18.3	19.5	18.0

MOTORCYCLE COLLISIONS
1979 - 1983

	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>4-Year Average</u>	<u>1983</u>	<u>Change '83 4-Year Average</u>
Total Collisions	3,992	3,914	3,728	3,376	3,753	3,312	-11.8%
Fatal Collisions	116	116	104	103	110	77	-30.0%
*Fatal Collisions Ratio	29.1	29.6	27.9	32.8	34.1	43.0	+26.1%
Motorcycle Registration	129,641	135,899	139,931	131,667	134,285	135,200 ⁺	+ 0.7%
**Total Collision Registration Rate	3.08	2.88	2.66	2.56	2.79	2.45	-12.2%
***Fatal Registration Rate	.895	.854	.743	.782	.819	.570	-30.4%
Total Persons Killed	121	129	105	109	116	77	-33.6%
Total Persons Injured	4,350	4,201	3,970	3,341	3,966	3,555	-10.4%
Motorcyclist Killed	119	120	101	108	112	77	-31.3%
Motorcyclist Injured	4,055	3,919	3,701	3,289	3,741	3,351	-10.4%

*Fatal Collisions Per 1,000 Motorcycle Collisions

**Motorcycles Involved Per 100 Registered

***Fatal Collisions Per 1,000 Motorcycles Registered

+Estimated - based on first 10 months registration data

MOTORCYCLE COLLISIONS BY FIRST HARMFUL EVENT - 1983

<u>Type of Collision</u>	<u>Number</u>	<u>% of Total Collisions</u>
Single Motorcycle Collisions:		
Struck Fixed Object	392	11.8%
Struck Other Object in Roadway	23	0.7%
Motorcycle Overturned	744	22.6%
Motorcycle - Pedestrian	18	0.5%
Motorcycle - RR Train	0	--
Motorcycle - Pedalcyclist	18	0.5%
Motorcycle - Animal	66	2.0%
Non-Collisions	26	0.8%
Total	1,287	38.9%
Multiple Vehicle Collisions:		
Head-on	47	1.4%
Rear-end	473	14.3%
Sideswipe	152	4.6%
Angular Direction	528	15.9%
Enter/Leaving Driveway	417	12.6%
One Left/One Straight - Opposite Direction	228	6.9%
Other Multiple Vehicle Collisions	87	2.6%
Struck Parked Vehicle	93	2.8%
Total	2,025	61.1%
TOTAL MOTORCYCLE COLLISIONS	3,312	100.0%

TOP TEN MOTORCYCLE VIOLATIONS - 1983
(Investigated Collisions Only)

	<u>Number</u>	<u>% of Total Violations</u>
1. Exceeding Reasonable Safe Speed	514	22.7%
2. Inattention	408	18.0%
3. Driving While Under the Influence	287	12.7%
4. Exceeding the Legal Speed Limit	265	11.7%
5. Improper Passing	154	6.8%
6. Operating Defective Equipment	152	6.7%
7. Failure to Yield Right-of-Way	149	6.6%
8. Following Too Closely	97	4.3%
9. Disregarding Traffic Control Signs/Signals	93	4.1%
10. Over Center Line	52	2.3%

PEDESTRIANS/VEHICLE COLLISIONS
Pedestrians Killed and Injured
1979 - 1983

	1979	1980	1981	1982	4 Year Average	1983	1983 to 4 Yr. Ave
<u>Statewide</u>							
Pedestrians Killed	126	108	121	94	112	88	-21.4%
Pedestrians Injured	1,851	1,906	1,696	1,598	1,763	1,613	- 8.5%
<u>Urban</u>							
Pedestrians Killed	56	50	52	40	50	44	-12.0%
Pedestrians Injured	1,359	1,355	1,239	1,155	1,277	1,177	- 7.8%
<u>Rural</u>							
Pedestrians Killed	70	58	69	54	63	44	-30.2%
Pedestrians Injured	492	551	460	443	487	436	-10.5%

ACTIONS OF PEDESTRIANS KILLED & INJURED - 1983

URBAN AREAS	No. Killed	% of Total	Total Killed or Inj.	% of Total	Age 0-4	Age 5-14	Age 15-24	Age 25-64	Age 65 & Up	Not Stated
Crossing, entering roadway at intersection	20	45.5%	625	51.2%	12	113	111	235	115	39
Not at intersection	13	29.5%	383	31.4%	47	137	53	94	32	20
Walking with traffic	0	--	24	2.0%	0	3	9	10	1	1
Walking against traffic	1	2.3%	11	0.9%	0	1	3	4	1	2
Standing or working in roadway	2	4.5%	48	3.9%	3	3	16	17	4	5
Playing in roadway	1	2.3%	29	2.4%	5	16	4	3	0	1
Lying in roadway	1	2.3%	3	0.2%	0	0	1	2	0	0
Not in roadway	2	4.5%	48	3.9%	2	6	16	19	4	1
Other & Not Stated	4	9.1%	50	4.1%	2	10	12	16	5	5
TOTAL	44	100.0%	1,221	100.0%	71	289	225	400	162	74
Percent of Total Killed or Injured					5.8%	23.7%	18.4%	32.7%	13.3%	6.1%

RURAL AREAS	No. Killed	% of Total	Total Killed or Inj.	% of Total	Age 0-4	Age 5-14	Age 15-24	Age 25-64	Age 65 & Up	Not Stated
Crossing, entering roadway at intersection	8	18.2%	105	21.9%	2	34	25	27	11	6
Not at intersection	12	27.2%	169	35.2%	9	77	38	30	10	5
Walking with traffic	7	15.9%	37	7.7%	0	2	16	16	1	2
Walking against traffic	1	2.3%	11	2.3%	0	0	5	4	1	1
Standing or working in roadway	4	9.1%	38	7.9%	0	3	12	22	0	1
Playing in roadway	1	2.3%	17	3.5%	2	10	5	0	0	0
Lying in roadway	3	6.8%	7	1.5%	0	0	2	5	0	0
Not in roadway	8	18.2%	72	15.0%	1	14	28	25	3	1
Other & Not Stated	0	--	24	5.0%	0	6	6	7	3	2
TOTAL	44	100.0%	480	100.0%	14	146	137	136	29	18
Percent of Total Killed or Injured					2.9%	30.3%	28.4%	28.3%	6.0%	3.7%

