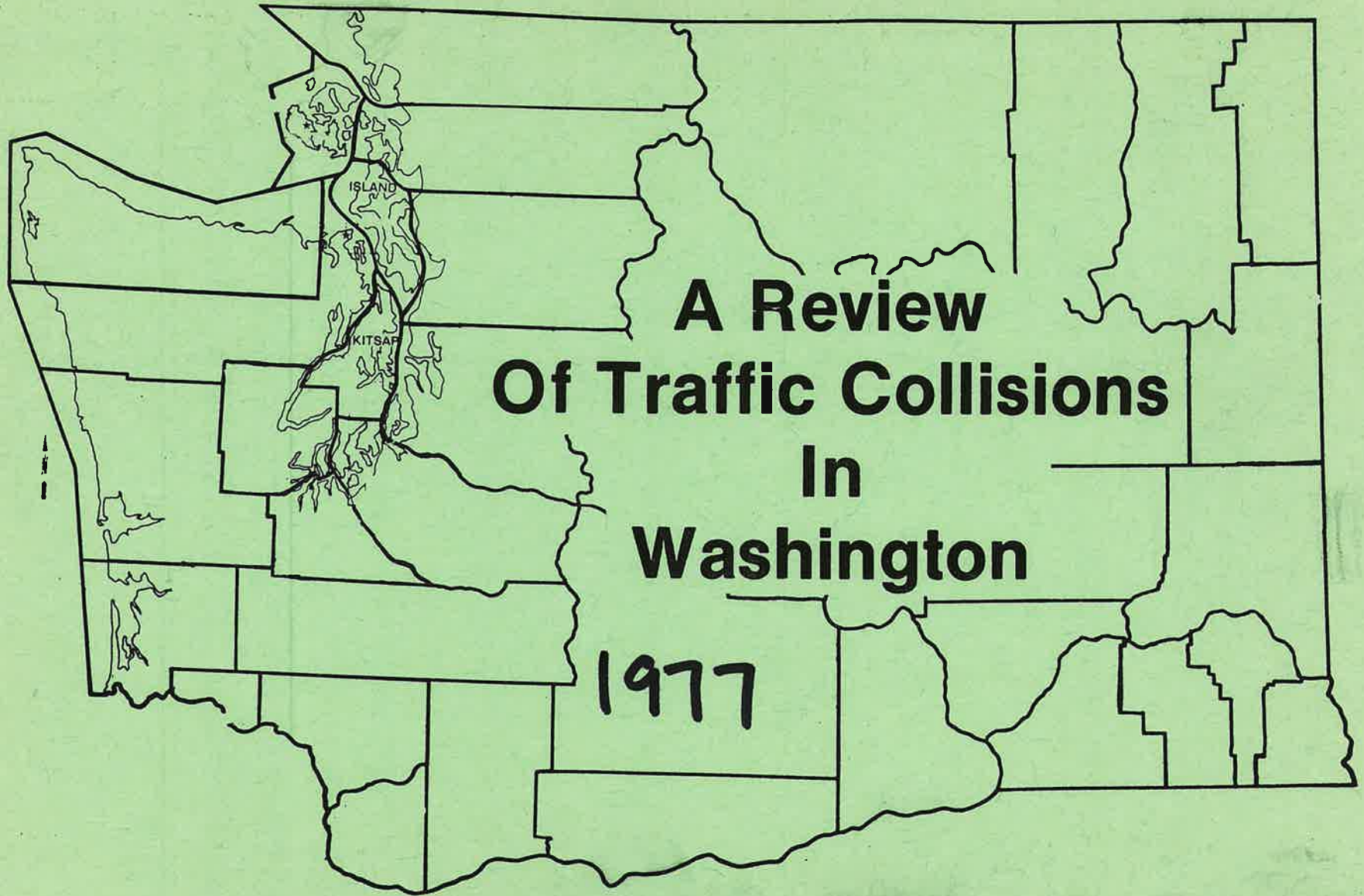


1977



**A Review
Of Traffic Collisions
In
Washington**

1977

MOTOR VEHICLE TRAFFIC COLLISION SUMMARY

Motor vehicle travel, traffic deaths, death rate and injuries all took significant jumps during 1977. One of the major areas of concern was the complete reversal of the state's year-by-year reduction in the motor vehicle traffic death rate which we have been experiencing during the past decade.

Another major concern was the 7.6% increase in injury collisions and personal injuries. The total collisions as reported (down 1.5%) is misleading, as the reporting level for motor vehicle traffic collisions was increased by state statute from \$100 to \$300 and became effective mid-year. Property damage only collisions, which was the area affected, was reduced by 6.6% over the same period a year ago. This change is pointed out in the collision ratio when the state recorded 88 property damage only collisions and 58 injury collisions to every one fatal collision down from the 1 - 61 - 107 ratio of a year ago.

The driver involved in the fatal collision showed the largest increase in traffic deaths, recording a 13.9% increase, while passengers riding in fatally involved vehicles increased 3 or 1.2%. The gradual decrease in the use of restraint systems during the past several years (down to 22.4% usage in 1977) apparently is contributing to this increase. A well planned public information and education program on the effectiveness of using restraint systems is in order.

It is still early to determine the effects of the motorcycle helmet law; however, motorcycle traffic deaths increased from 57 in 1976 to 72 in 1977, up 26%. The increase was attributed to motorcycle passengers. Seventeen (17) were killed in 1977 while 5 were killed in 1976. Injuries relating to the head increased from 128 in 1976 to 163 in 1977 an increase of 27%. Total injuries to motorcycle riders increased 14% during 1977 over the 1976 totals.

Collisions involving a single vehicle increased slightly (2.0%) during the past year, while multiple vehicle collisions recorded a 2.0% decrease. This is due to an extent, to the change in the reporting law, as usual, nearly 70% of the one-car collisions occurred in the rural areas while 68% of the multiple vehicle collisions occurred in the urban areas. Car-pedestrian collisions increased slightly (1.3%); however, vehicle-pedalcyclist collisions decreased 7.0%. Collisions involving animals recorded a 4.3% decrease and vehicle running into RR trains decreased from 227 collisions to 190 for 16.2%.

Truck registration increased 10.2% during 1977, totaling 735,764 vehicles. Eighty-four percent (84%) of these were small trucks (under 10,000 gross). The small trucks were involved in 82% of all truck collisions during 1977.

Forty percent (40%) of all drivers involved in traffic collisions were younger drivers - 24 years of age and younger; 15.2% were under 19 years. Twenty-two percent (22%) of all drivers licensed are 24 years of age or younger, and 6.0% are under nineteen years of age. It becomes quite obvious that the over involvement of the young driver is a problem which must be addressed if a significant decrease is to be realized in our traffic accident picture. Previous years' studies have indicated that much of the problem involving these drivers is occurring on county and local roads. These young drivers were involved in 71.9% of all "excess speed" violations; 55.1% of the "traveling too fast for conditions" violations; 57.6% of the "defective equipment" violations; 54.3% of the "over center line" violations;

47.6% of the "following too closely" violations; 46.0% of the "disregarding signs and signals" violations and 40.8% of the "DWI" violations. Ten and one-half percent (10.5%) of the licensed drivers in Washington were 21 to 24 years of age, while 20% of the "DWI" violations were committed by this group of drivers; 11.1% of the licensed drivers were 20 years of age or younger and this group was involved in 20.4% of the "DWI" violations.

Drivers involved in one-car collisions (46.4%) were 24 years or younger. This group was involved in 38.4% of the multiple vehicle collisions.

Pierce, Spokane, King, Snohomish and Kitsap Counties top the list of counties which indicate a high percentage of youthful drivers when compared to total miles traveled. Pierce and Kitsap Counties show the widest variance between the number of licensed drivers and the number involved in collisions. Pierce County recorded 11.8% of the youthful drivers registered, but this group was involved in 12.7% of the collisions. Kitsap County recorded 2.9% registered and a 3.3% involvement.

The drunk driver continue to be a menace to the safety of our highways. The statewide ratio of 34.6 drunk drivers per 100 drivers involved in fatal collisions is the highest on record. The rural areas recorded a ratio of 35.2 per 100 drivers and the urban areas recorded 32.7 per 100. The "had been drinking" drivers in fatal collisions reached 44.5 per every 100 drivers involved, higher than the 42.9 ratio of last year, but down from the 45.4 ratio of 1975. In total investigated collisions the ratio in "had been drinking" drivers involved dropped from 16.2 in 1976 to 16.1 in 1977. The ratio of drunk drivers remained constant at 7.5 drunk drivers for every 100 involved. As indicated in earlier studies the highest drunk driver exposure is during the four hour period from 11:00 p.m. to 3:00 a.m. County roads carried the majority of these drivers.

BICYCLE TRAFFIC COLLISIONS:

Traffic collisions involving bicycles decreased for the second consecutive year recording a 6.6% decrease. There were 993 bicycle collisions in 1977 as compared to 1,063 in 1976. The number of persons injured decreased accordingly (1,048 in 1977 to 1,114 in 1976), but the number of bicyclists killed increased by three during 1977 (13 to 10 in 1976). However, this is eight less than was recorded in 1972, when all-time high of 21 bicyclists were killed. 1974 recorded the highest number injured with 1,213 injuries. The 10 to 14-year olds recorded 373 (36.83) of the bicyclist injuries, followed by the 5 to 9-year old group recording 206 or 20.3%.

VEHICLE-PEDESTRIAN COLLISIONS:

Car-pedestrian injuries recorded a slight decrease for the second year in a row. (1,703 to 1,741 in 1976) The number of pedestrian deaths recorded an increase, however, and totaled 112; up 22 traffic deaths from the previous year and equaled the total reached in 1975. The 5 to 14-year old youngsters were by far the largest group. This was true in both the urban and rural areas.

VEHICLE DEFECTS:

Operating with defective tires (worn or smooth) continues to be the leading collision causing vehicle defect during 1977, slightly lower than the 1976 total. Defective brakes was the second leading defect. During 1977, 8.0% of the total investigated collisions involved one or more vehicles with a defect, nearly the same as the 7.9% of a year ago. Four percent (4.1%) of the driver violations in investigated collisions were operating defective equipment.

THE COLLISION SUMMARY - TRENDS

1973 - 1974 - 1975 - 1976 - 1977

	NUMBER					PERCENT OF CHANGE	
	1977*	1976	1975	1974	1973	'77 to '76	'77 to '73
IMPACT							
Total Collisions	119,058	120,864	120,635	106,242	105,515	-1.5%	+12.8%
Fatal Collisions	811	713	678	671	656	+13.7	+23.6
Total Killed	926	825	771	761	776	+12.2	+19.3
Injury Collisions	46,939	43,781	42,245	38,474	38,324	+ 7.6	+22.5
Total Injured	71,356	66,309	64,145	57,714	58,039	+ 7.6	+22.9
Property Damage Only Collisions	71,308	76,370	77,712	67,097	66,535	- 6.6%	+ 7.2%
EXPOSURE							
Motor Vehicle Travel**	27,449.3	25,932.0	24,023.0	22,634.0	23,318.9	+5.9%	+17.7%
Motor Vehicle Regr.	3,013,853	2,742,489	2,640,944	2,545,975	2,453,880	+9.9%	+22.8%
Licensed Drivers	2,339,215	2,289,000	2,176,505	2,145,283	2,122,131	+2.2%	+10.2%
State's Population	3,661,975	3,571,591	3,494,124	3,448,100	3,424,300	+2.5%	+ 6.9%
RATES							
Death Rate (Deaths per 100M Veh.Miles)	3.38	3.18	3.25	3.36	3.34	+18.0%	+ 4.2%
Inj. Rate (Inj. per 1 M Veh.Miles)	2.60	2.55	2.67	2.55	2.49	+2.0%	+ 4.4%
RATIO							
Fatal Coll. to Inj. to P.D. (State-wide)	1-58-88	1-61-107	1-62-115	1-50-100	1-58-101		
Fatal Coll. to Inj. to P.D. (Rural)	1-36-45	1-38-52	1-38-57	1-34-47	1-35-49		
Fatal Coll. to Inj. to P.D. (Urban)	1-123-212	1-132-272	1-125-264	1-126-254	1-129-260		
KILLED							
Drivers (Does Not Include Motorcyclist)	483	424	362	375	372	+13.9%	+29.8%
Passengers	245	242	237	219	250	+ 1.2	+ 2.0%
Pedestrians	112	90	112	94	108	+24.4	+ 3.7%
Bicyclists	13	10	10	15	16	+30.0	-18.8%
Motorcycle Drivers	55	52	42) 58) 30	+ 5.8%	+140.0%
Motorcycle Passengers	17	5	8))	240.0	
Not Stated	1	0	0	0	0	--	--

* Minimum damage for a reported collision was changed 7/1/77 from \$100 to \$300 to the property of one person.

** In Millions

COMPARISON OF FATALITIES, INJURIES AND TOTAL COLLISIONS

1958 - 1977

Year	FATALITIES			INJURIES *			TOTAL COLLISIONS		
	State-Wide	Rural	Urban	State-Wide	Rural	Urban	State-Wide	Rural	Urban
1958	575	411	164	28,288	14,510	13,788	73,351	25,945	47,406
1959	548	427	121	29,581	15,137	14,444	75,631	26,795	48,836
1960	561	437	124	30,080	14,920	15,160	75,129	26,706	48,423
1961	580	425	155	32,906	16,576	16,330	79,126	28,122	51,004
1962	611	464	147	34,568	17,915	16,653	84,554	30,561	53,993
1963	633	461	172	34,942	17,985	16,957	84,287	30,690	53,597
1964	731	535	196	37,797	19,682	18,115	93,301	34,566	58,735
1965	729	515	214	36,903	19,106	17,797	80,804**	30,369	50,435
1966	828	589	239	41,329	21,029	20,300	83,998	32,784	51,214
1967	874	622	252	45,723	22,519	23,204	88,798	34,641	54,157
1968	931	664	267	49,446	24,050	25,396	100,319	38,997	61,332
1969	834	612	222	47,354	22,970	24,384	103,160	39,467	63,467
1970	875	657	218	53,465	24,806	28,659	97,486	37,790	59,696
1971	876	639	237	55,099	24,975	30,124	98,956	38,381	60,575
1972	852	648	204	55,454	25,455	29,999	101,002	39,079	61,923
1973	776	593	183	58,039	27,362	30,677	105,515	41,844	63,671
1974	761	571	189	57,716	26,362	31,354	106,242	40,971	65,271
1975	771	561	210	64,145	29,498	34,647	120,635	46,967	73,668
1976	823	635	188	66,309	31,400	34,909	120,864	48,228	72,636
1977	926	697	229	71,356	33,868	37,488	119,058***	49,227	69,831

* Motor vehicle injuries include the three groups: (a) bleeding wound, distorted member, or any condition that requires the victim to be carried from the scene of the accident; (b) other visible injuries such as bruises, abrasions, swelling, limping or other painful movements, or (c) complaint of pain, without visible signs of injury; or momentary unconsciousness.

** Minimum damage for a reportable collision was changed 7-1-65 from \$ 25.00 in the collision to \$ 100.00 to the property of one person.

*** Minimum damage for a reportable collision was increased from \$ 100.00 to \$ 300.00 to the property of one person on 7-1-77.

Source: Washington State Patrol.

COMPARISON OF MOTOR VEHICLE TRAVEL, DEATH RATE, LICENSED DRIVERS,
ECONOMIC LOSS AND VEHICLE REGISTRATION

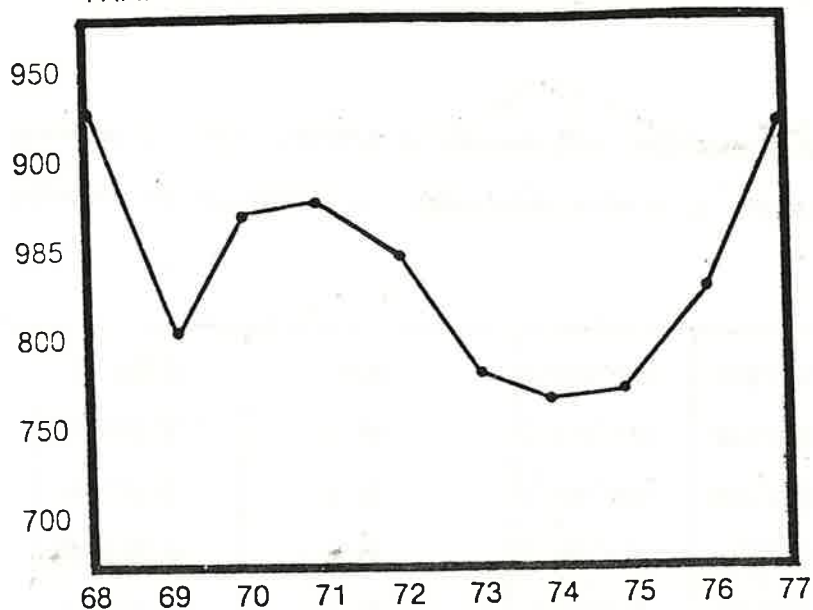
1968 - 1977

Year	Miles Traveled Million *	Death Rate Per 100 million Miles	Licensed Drivers	Economic Loss (\$000's)	Vehicle Registration **				
					Total Registration	Passenger Cars	Truck	Motor-Cycles	All Others
1968	19,022.5	4.89	1,727,430	173,800.0	2,027,391	1,547,069	393,624	47,262	39,436
1969	19,957.0	4.18	1,833,232	180,100.0	2,151,691	1,628,859	427,747	49,253	45,832
1970	20,675.8	4.23	1,919,980	193,600.0	2,156,510	1,604,485	443,208	62,150	46,667
1971	21,324.0	4.11	1,965,962	243,585.0	2,231,958	1,642,123	467,798	74,574	47,463
1972	22,195.9	3.84	2,011,893	289,300.0	2,315,310	1,687,764	496,640	80,678	49,706
1973	23,226.5	3.34	2,113,460	320,000.0	2,453,880	1,768,837	540,750	91,184	52,511
1974	22,634.1	3.36	2,122,131	340,200.0	2,545,975	1,810,028	571,823	109,483	54,100
1975	24,023.0	3.25	2,176,505	372,500.0	2,640,944	1,866,994	608,973	109,528	54,847
1976	25,502.0	3.18	2,324,697	465,000.0	2,634,691	1,961,712	668,046	111,837	25,896
1977	27,410.0	3.38	2,339,215	545,000.0	3,013,853	2,101,165	735,764	115,454	61,470

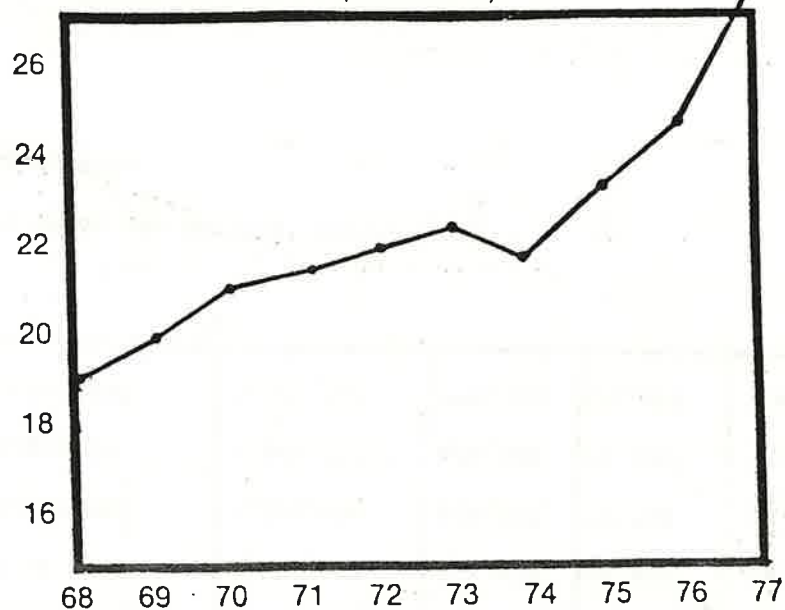
X Adjusted to correspond to information from U. S. Bureau of Public Roads and National Safety Council

XX Does not include trailers or recreational vehicles other than motorcycles

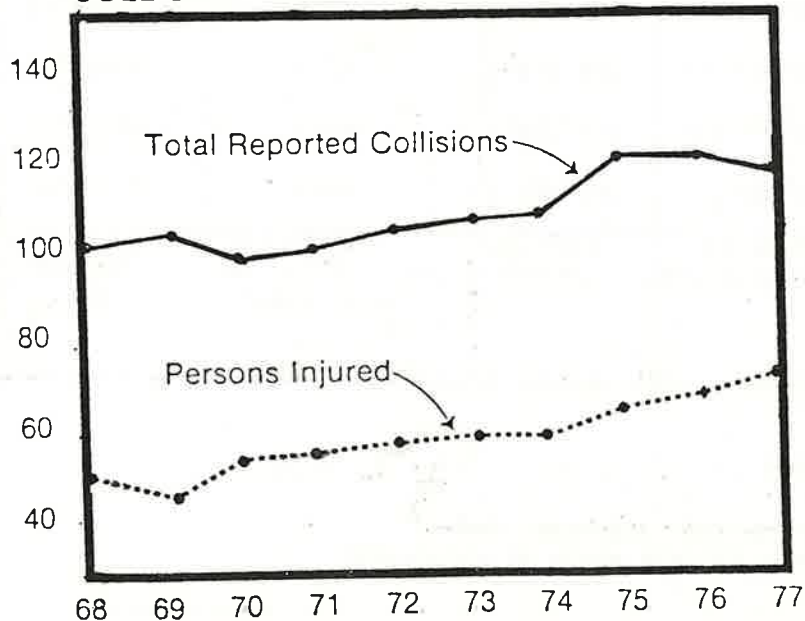
TRAFFIC DEATHS 1967-1977



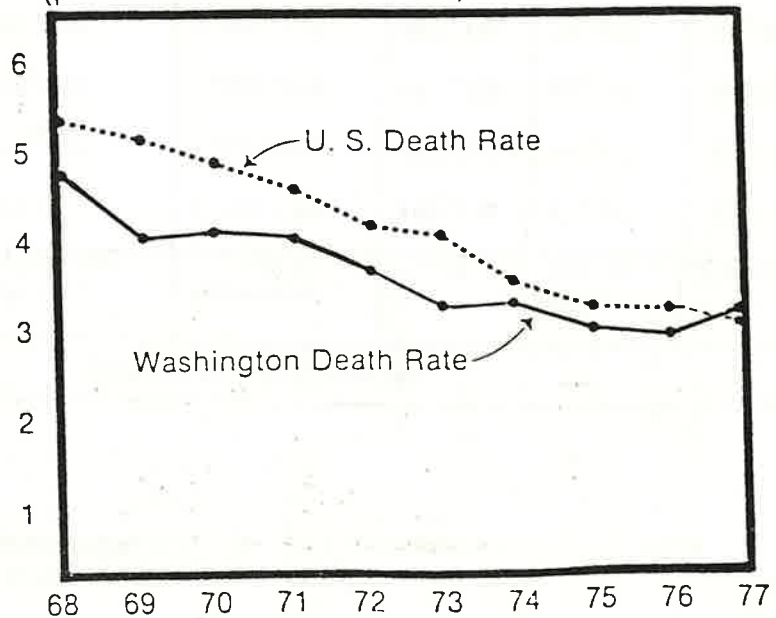
MILES TRAVELED (in billions)

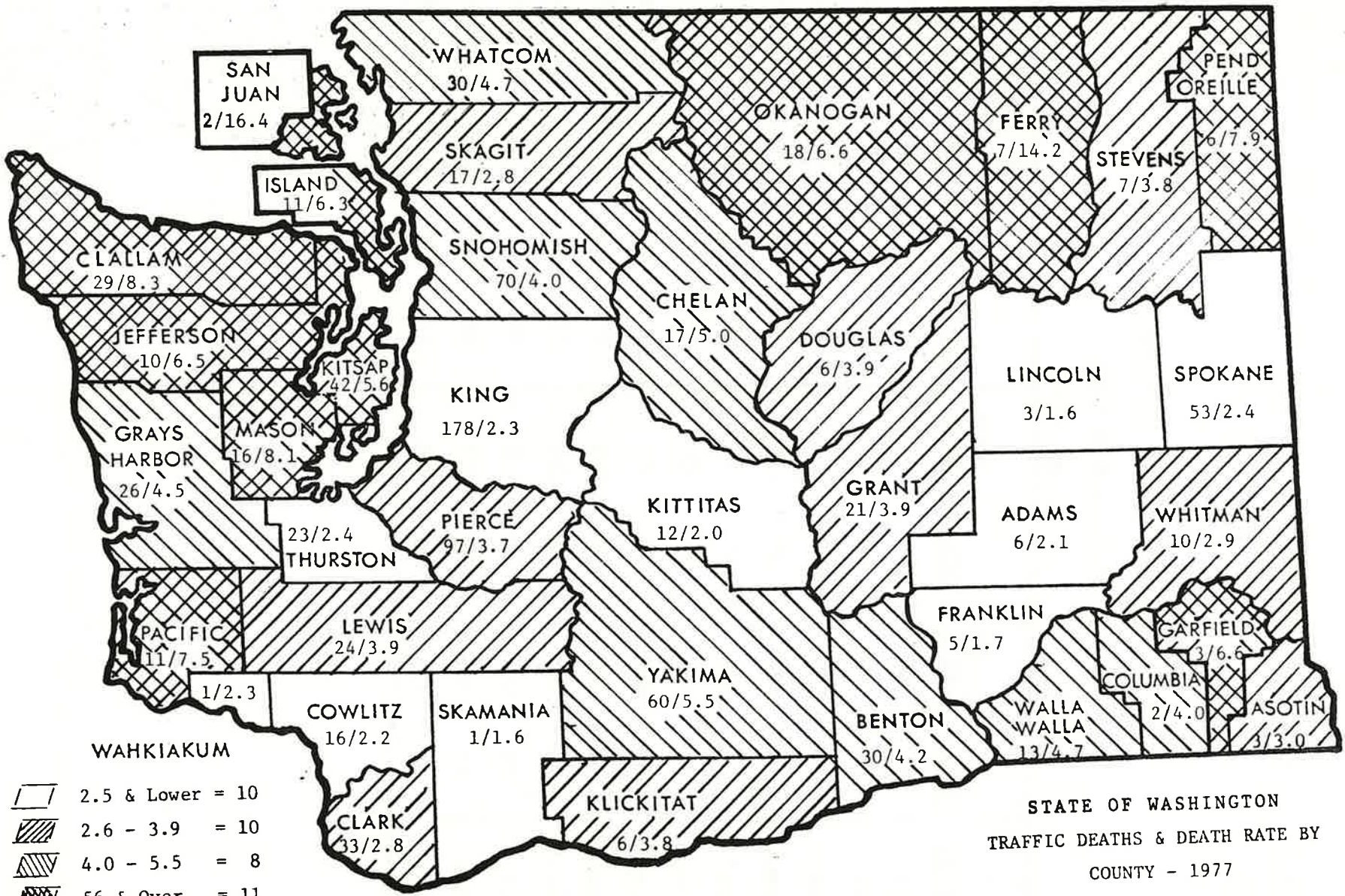


TOTAL REPORTED MOTOR VEHICLE TRAFFIC COLLISION AND INJURIES (in thousands)



DEATH RATE (per 100 million vehicle miles)





- 2.5 & Lower = 10
- 2.6 - 3.9 = 10
- 4.0 - 5.5 = 8
- 5.6 & Over = 11

$\frac{20}{4.0} = \frac{\text{TRAFFIC DEATHS}}{\text{DEATH RATE}}$
 (Deaths per 100 M veh. miles)

STATE OF WASHINGTON
 TRAFFIC DEATHS & DEATH RATE BY
 COUNTY - 1977
 STATE-WIDE DEATH RATE = 3.4

TRAFFIC DEATHS BY MONTH
& ACCUMULATIVE TOTALS
1975-1976-1977

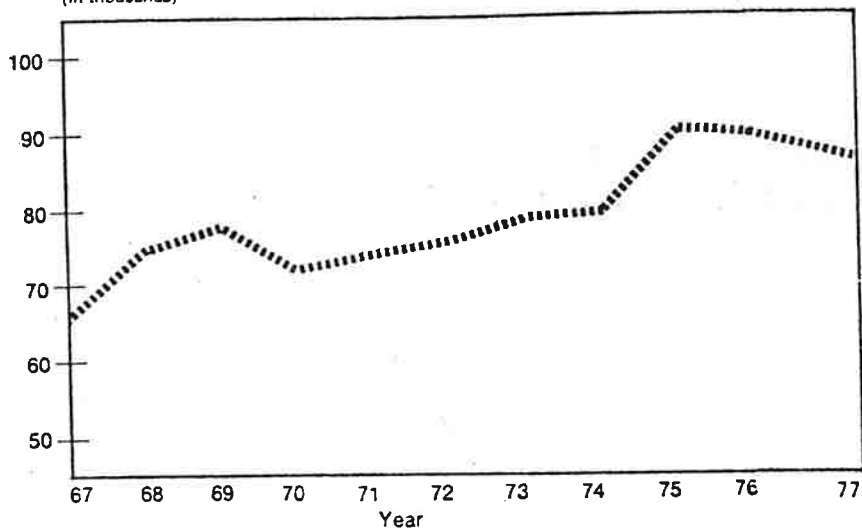
<u>MONTH</u>	1975		1976		1977		1977-1976	
	<u>TOTAL</u>	<u>ACCUMU- LATIVE</u>	<u>TOTAL</u>	<u>ACCUMU- LATIVE</u>	<u>TOTAL</u>	<u>ACCUMU- LATIVE</u>	<u>NO.</u>	<u>PERCENT</u>
Jan.	48	48	55	55	60	60	+ 5	9.1%
Feb.	42	90	48	103	58	118	+15	14.6%
March	48	138	56	159	78	196	+37	23.3%
April	63	201	65	224	70	266	+42	18.8%
May	53	254	65	289	77	343	+54	18.7%
June	71	325	61	350	72	415	+65	18.6%
July	82	407	85	435	102	517	+82	18.9%
August	84	491	91	526	72	589	+63	12.0%
Sept.	80	571	83	609	72	661	+52	9.5%
Oct.	61	632	82	691	89	750	+59	8.5%
Nov.	54	686	64	755	64	814	+59	7.8%
Dec.	85	771	70	825	112	926	+101	12.2%

COMPARISON OF TRAFFIC DEATHS BY TYPE OF COLLISION

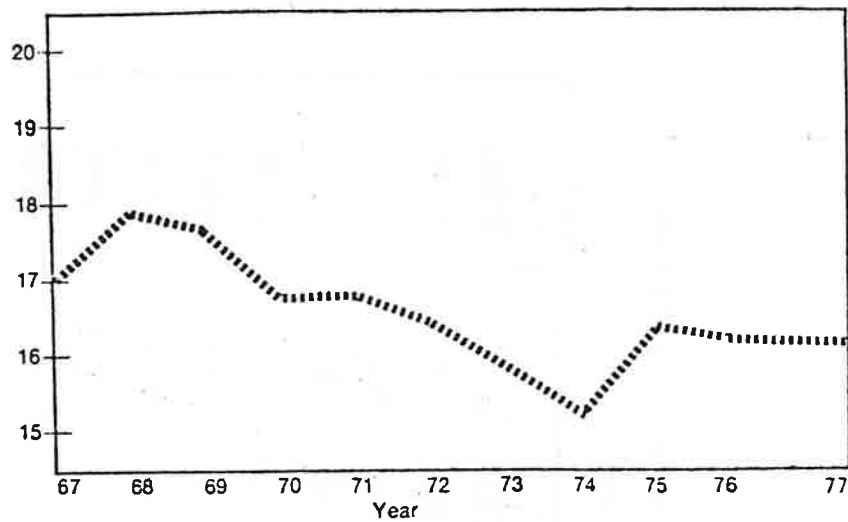
1975 - 1976 - 1977

<u>COLLISION TYPE</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1977 - 1976</u> <u>Change</u>
SINGLE VEHICLE COLLISIONS	352	360	393	+ 9%
Overturned	84	82	102	
Other noncollision	9	18	4	
Struck fixed object	259	260	287	
COLLISION WITH ANIMAL	1	6	1	-83%
VEHICLE-PEDESTRIAN COLLISION	104	90	109	+21%
VEHICLE-BICYCLIST COLLISION	10	10	13	+30%
VEHICLE-RAILWAY TRAIN COLLISION	15	12	22	+83%
MULTIPLE VEHICLE COLLISION	279	333	376	+13%
VEHICLE STRUCK PARKED VEHICLE	10	14	12	-17%
TOTAL TRAFFIC DEATHS	771	825	926	+12%
Rural deaths	561	634	698	+10%
Urban deaths	210	191	228	+19%
DEATH RATE (deaths per 100Million Vehicle Miles)	3.2	3.2	3.4	
MOTORCYCLE DEATHS	52	61	72	+18%
Rural areas	32	42	53	+26%
Urban areas	20	19	19	NC

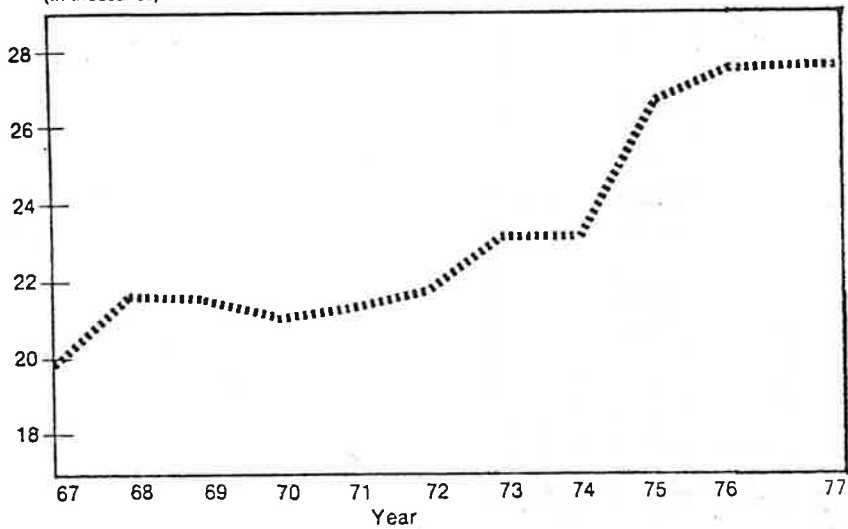
Multiple Vehicle Collisions
(in thousands)



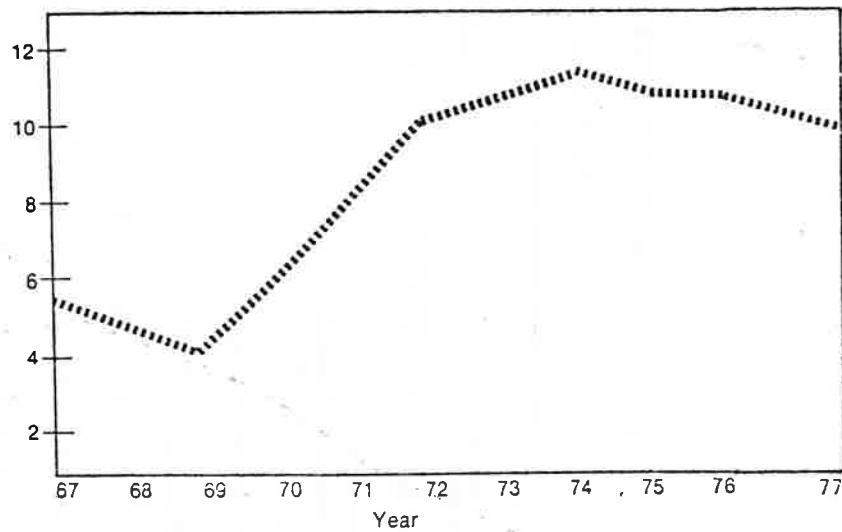
Vehicle-Pedestrian Collisions
(in hundreds)



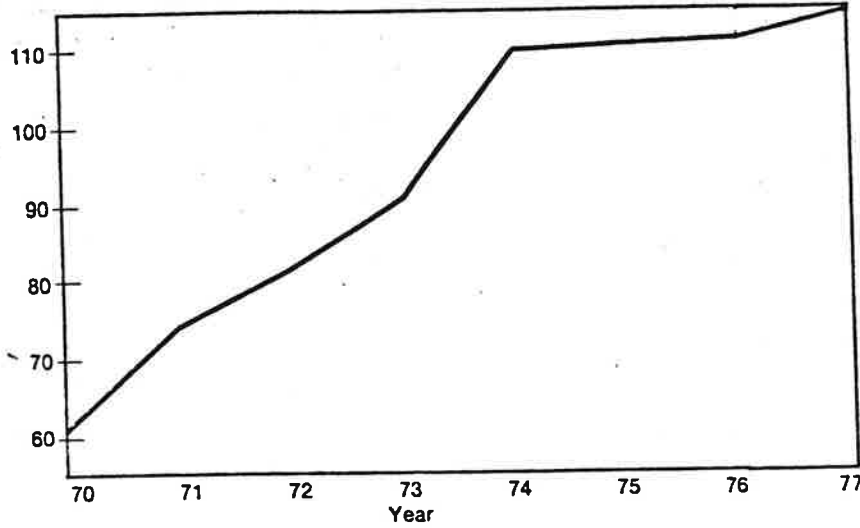
Single Vehicle Collisions
(in thousands)



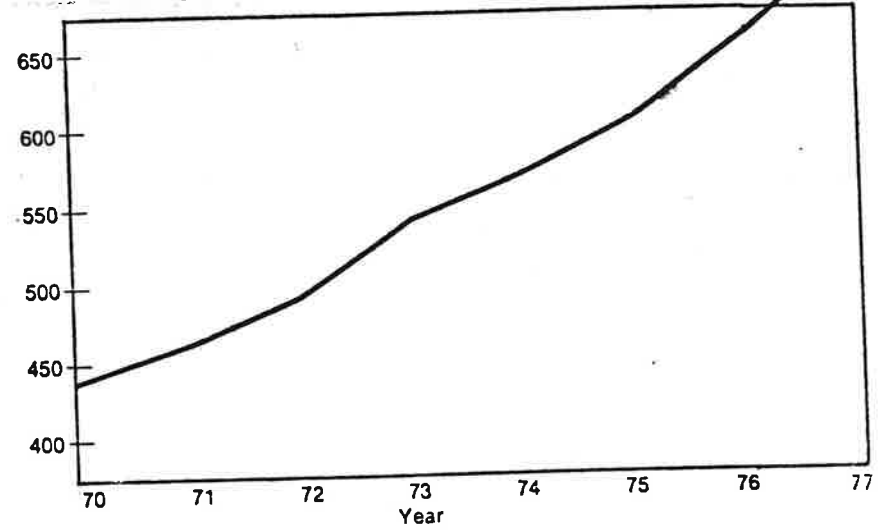
Vehicle-Pedalcyclist Collisions
(in hundreds)



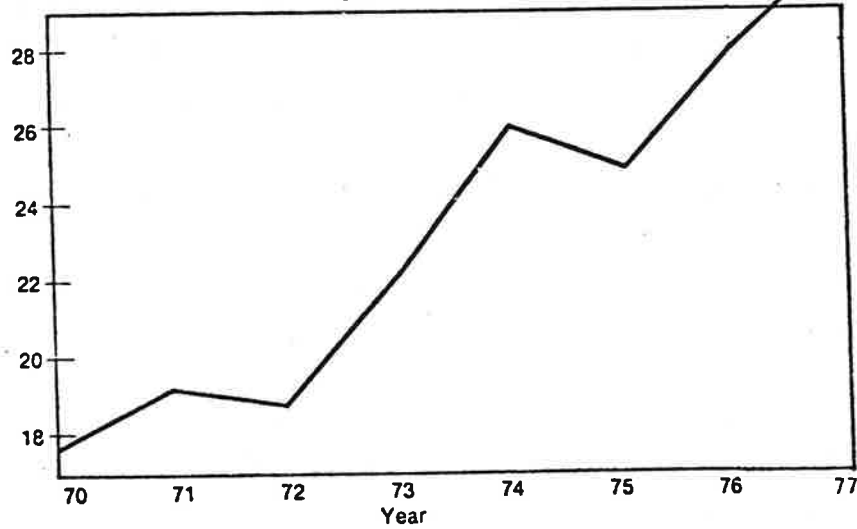
Motorcycle Registration (in thousands)



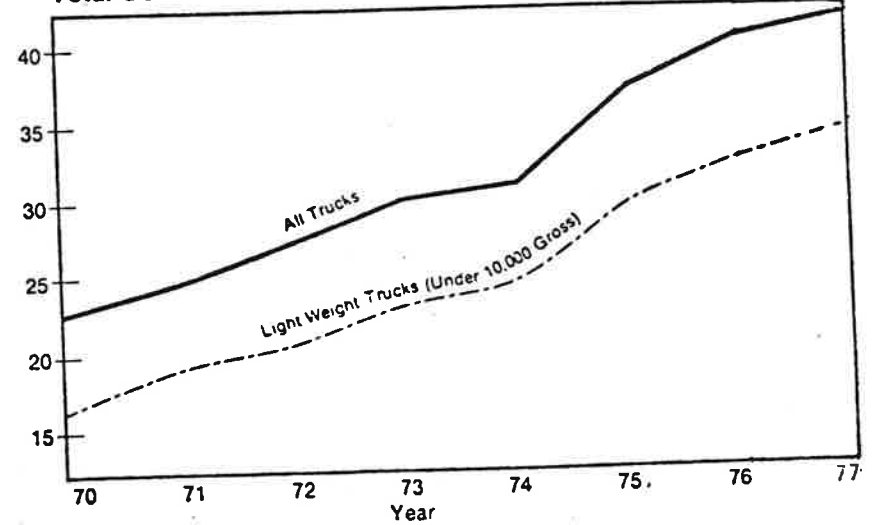
Truck Registration (in thousands)



Total Collisions Involving Motorcycles (in hundreds)



Total Collisions Involving Trucks (in thousands)



SUMMARY OF MOTOR VEHICLE TRAFFIC ACCIDENTS

FOR THE STATE OF WASHINGTON STATEWIDE TOTALS

FOR THE PERIOD 01/01 - 12/31, 1977

HOUR BEGINNING	TOTAL ALL FATAL	MONDAY ALL FATAL	TUESDAY ALL FATAL	WEDNESDAY ALL FATAL	THURSDAY ALL FATAL	FRIDAY ALL FATAL	SATURDAY ALL FATAL	SUNDAY ALL FATAL	NOT STATED ALL FATAL									
MICNITE	3,792	53	315	2	288	7	320	6	361	8	480	2	1,185	16	843	12	0	0
1:00	3,850	47	269	2	268	2	265	6	326	7	438	3	1,291	17	993	10	0	0
2:00	4,074	74	235	2	298	5	274	5	419	10	424	5	1,368	25	1,056	22	0	0
3:00	1,800	23	116	2	142	2	110	2	129	3	180	4	628	5	495	5	0	0
4:00	1,171	16	95	1	101	1	102	2	137	1	114	2	365	3	287	6	0	0
5:00	1,033	10	109	2	113	1	94	0	100	2	139	1	269	2	209	2	0	0
6:00	1,840	15	277	1	336	1	264	1	293	4	299	4	212	3	159	1	0	0
7:00	4,815	9	866	2	977	1	885	2	860	1	818	1	264	1	148	1	0	0
8:00	4,300	16	679	3	815	1	792	3	761	2	753	5	321	1	179	1	0	0
9:00	3,433	15	501	4	546	2	533	1	545	1	585	3	426	3	295	1	0	0
10:00	4,077	23	639	1	659	5	577	5	591	4	683	4	584	1	344	3	0	0
11:00	5,211	21	794	2	836	2	730	2	738	2	878	5	821	4	444	4	0	0
NOGN	6,147	20	935	3	890	4	862	1	852	1	1,031	6	386	2	691	3	0	0
1:00	6,407	27	941	3	922	7	905	4	909	5	1,037	4	954	3	739	1	0	0
2:00	7,719	46	1,235	4	1,165	8	1,036	7	1,088	4	1,348	8	1,079	7	768	8	0	0
3:00	8,864	24	1,379	2	1,433	3	1,305	5	1,294	4	1,642	2	1,010	5	801	3	0	0
4:00	10,058	52	1,535	8	1,555	12	1,432	2	1,538	3	1,939	10	1,116	12	893	5	0	0
5:00	9,766	52	1,475	9	1,527	8	1,413	8	1,455	5	1,886	7	1,130	8	880	7	0	0
6:00	6,568	50	837	3	953	5	877	7	978	6	1,268	10	916	9	739	10	0	0
7:00	5,721	40	667	2	768	5	714	2	811	8	1,194	11	914	6	633	6	0	0
8:00	4,640	44	542	6	574	6	579	3	604	6	964	10	824	9	553	4	0	0
9:00	4,580	54	557	6	531	2	599	7	594	7	1,019	11	755	9	525	12	0	0
10:00	4,571	38	482	3	507	5	518	2	605	5	1,105	9	893	9	461	5	0	0
11:00	4,621	42	455	6	428	2	489	4	500	4	1,277	9	1,064	11	408	6	0	0
TOTALS	119,058	811	15,955	79	16,632	97	15,725	87	16,428	103	21,501	136	19,274	171	13,543	138	0	0

SUMMARY OF MOTOR VEHICLE TRAFFIC COLLISIONS

TYPE OF COLLISION
(FIRST HARMFUL EVENT)

FOR THE PERIOD 01/01 - 12/31, 1977

STATEWIDE

TYPE OF COLLISION (FIRST HARMFUL EVENT)	NUMBER OF COLLISIONS				TOTAL KILLED	TOTAL INJURED	NUMBER OF PERSONS INJURIES			NO INJURY
	TOTAL	FATAL	NON FATAL	PROPERTY DAMAGE			A.	B.	C.	
*** SINGLE VEHICLE COLLISION ***										
FIXED OBJECT:										
RAN OVER EMBANKMENT	1,813	33	942	838	37	1,416	295	744	377	1,292
RAN INTO DITCH OR BANK	4,468	42	1,942	2,484	48	2,612	415	1,409	788	3,569
STRUCK TREE OR STUMP	2,038	38	979	1,021	44	1,409	298	749	362	1,484
STRUCK POLE OR POST	5,587	56	2,578	2,953	62	3,447	637	1,856	954	4,250
STRUCK GUARDRAIL OR BARRIER	3,106	34	1,298	1,774	43	1,749	309	879	501	2,678
STRUCK OTHER FIXED OBJECT	4,964	48	1,710	3,206	55	2,262	438	1,212	642	4,467
STRUCK OTHER OBJECT	208	2	67	139	3	90	16	38	36	227
OVERTURNED	5,259	95	2,932	2,232	105	4,249	916	2,088	1,243	3,650
VEHICLE-PEDESTRIAN	1,647	103	1,544	0	103	1,644	603	636	405	1,987
VEHICLE-RAILWAY TRAIN	190	16	77	97	22	117	26	53	38	128
VEHICLE-PEDALCYCLIST	993	13	978	2	13	1,348	253	528	267	1,190
VEHICLE-ANIMAL	1,223	2	234	987	2	304	48	160	96	1,244
NON-COLLISION	330	4	139	187	4	183	42	100	41	377
TOTAL SINGLE VEHICLE COLLISIONS	31,826	486	15,420	15,920	541	20,530	4,326	10,452	5,750	26,523
*** MULTIPLE VEHICLE COLLISION ***										
HEAD-ON	1,201	59	735	407	70	1,788	537	793	458	1,757
REAR-END	24,513	29	11,097	13,387	37	17,331	904	4,694	11,653	50,236
SIDESWIPE	7,679	13	1,821	5,845	15	2,938	416	1,142	1,380	16,745
ANGULAR DIRECTION	22,427	76	9,308	13,043	87	15,595	1,744	5,880	7,971	43,991
ENTER/LEAVE PARKED POSITION	1,747	1	222	1,524	1	294	16	87	189	3,648
ENTER/LEAVE DRIVEWAY ACCESS	10,068	22	3,246	6,800	23	4,981	444	1,735	2,752	20,467
STRUCK PARKED VEHICLE	10,468	16	1,645	8,807	18	2,075	270	1,135	670	11,318
SAME DIRECTION BROADSIDE	2,257	5	443	1,809	6	646	50	242	354	4,864
OPPOSITE DIRECTION BROADSIDE	1,390	88	420	582	111	931	221	381	329	2,315
ONE LEFT/ONE STRAIGHT OPPOSITE DIR	5,780	16	2,980	3,164	17	4,245	572	1,767	1,906	11,287
OTHER MULTIPLE VEHICLE COLLISIONS	2	0	2	0	0	2	0	0	2	4
TOTAL MULTIPLE VEHICLE COLLISIONS	87,232	325	31,519	55,388	385	50,826	5,306	17,856	27,664	166,332
TOTAL COLLISIONS	119,058	811	46,939	71,308	926	71,356	9,634	28,308	33,414	192,855

***** 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.

COMPARISON OF TRAFFIC COLLISIONS FATALITIES & INJURIES BY TYPE OF COLLISION
1977

	URBAN AREAS			RURAL AREAS		
	Total Collisions	Persons Killed	Persons Injured	Total Collisions	Persons Killed	Persons Injured
<u>SINGLE VEHICLE COLLISIONS</u>						
Fixed Object:						
Ran over embankment	203	2	134	1,610	35	1,282
Ran into ditch or bank	531	1	272	3,937	47	2,340
Struck tree or stump	587	11	356	1,451	33	1,053
Struck pole or post	2,522	23	1,507	3,065	39	1,940
Struck guard rail	1,213	13	667	1,893	30	1,082
Struck other fixed object	2,130	9	880	2,834	46	1,382
Struck other object	57	1	23	151	2	67
Overtuned	875	12	697	4,384	93	3,552
Vehicle-Pedestrian	1,201	51	1,218	446	52	426
Vehicle-RR Train	111	8	58	79	14	59
Vehicle-Pedalcyclist	647	2	674	346	11	374
Vehicle-Animal	67	0	29	1,156	2	275
Non-Collision	143	2	94	187	2	89
Total single vehicle coll.	10,287	135	6,609	21,539	406	13,921
<u>MULTIPLE VEHICLE COLLISIONS</u>						
Head-On	444	11	552	757	59	1,236
Rear-End	16,582	6	10,938	7,931	31	6,393
Sideswipe	4,563	4	1,324	3,116	11	1,614
Angular direction	16,420	31	10,550	6,007	56	5,045
Enter/leave parked pos.	1,450	0	215	297	1	79
Enter/leave driveway	5,659	6	2,311	4,409	17	2,670
Struck parked vehicle	8,487	12	1,597	1,981	6	478
Same dir. broadside	1,306	0	314	951	6	332
Opposite dir. broadside	347	16	241	743	95	690
l left/l straight-opp. dir.	4,286	8	2,837	1,494	9	1,408
Other multiple vehicle coll.	0	0	0	2	0	2
Total multiple vehicle coll.	59,544	94	30,897	27,688	291	19,947
TOTAL	69,831	229	37,488	49,227	697	33,868

1977 - 1973

<u>SINGLE VEHICLE COLLISIONS</u>	NUMBER					4 yr. ave.	Percent from 4 year ave.
	1977	1976	1975	1974	1973		
<u>Fixed Object:</u>							
Ran over embankment	1,813	1,843	1,841	1,483	1,589	1,689	+ 7.3%
Ran into ditch or bank	4,468	4,540	4,221	3,785	4,020	4,142	+ 7.9%
Struck tree or stump	2,038	2,039	1,970	1,669	1,483	1,790	+13.9%
Struck pole or post	5,587	5,377	5,591	4,905	4,569	5,111	+ 9.3%
Struck guard rail	3,106	3,037	3,148	2,400	2,826	2,853	+ 9.8%
Struck other fixed object	4,964	5,156	4,977	4,303	4,055	4,623	+ 7.4%
Struck other object	208	210	269	283	254	254	-18.1%
Overtuned	5,254	4,634	4,462	3,989	3,937	4,256	+23.6%
Vehicle-Pedestrian	1,647	1,626	1,642	1,537	1,580	1,596	+ 3.2%
Vehicle-RR Train	190	227	184	224	242	219	-13.2%
Vehicle-Pedalcyclist	993	1,063	1,083	1,142	1,080	1,092	- 9.1%
Vehicle-Animal	1,223	1,382	1,385	1,262	1,457	1,372	-10.9%
Non-collision	330	399	361	376	396	383	-13.8%
Total single vehicle collisions.	31,826	31,533	31,134	27,358	27,488	29,378	+ 9.6%
<u>MULTIPLE VEHICLE COLLISIONS</u>							
Head on	1,201	1,076	1,000	907	1,219	1,056	+14.3%
Rear-end	24,513	25,016	25,641	22,897	23,220	24,194	+ 1.3%
Sidewipe	7,679	8,480	8,337	6,555	5,585	7,239	+6.1%
Angular direction	22,427	22,073	21,932	19,729	19,712	20,862	+ 7.5%
Enter/leave parked pos.	1,747	2,101	2,100	1,793	1,507	1,875	- 6.8%
Enter/leave driveway	10,068	9,823	9,503	8,503	8,002	8,958	+12.4%
Struck parked vehicle	10,468	12,149	12,404	11,055	10,321	11,482	- 8.8%
Same dir. broadside	2,257	2,341	2,387	2,001			
Opposite dir. broadside	1,090	991	1,091	819	2,837	3,117	+ 6.9%
1 left/1 straight opp. dir.	5,780	5,281	5,106	4,625	4,627	4,910	+10.4%
Other multiple vehicle col.	2	0	0	0	822	-	-
Total multiple vehicle col.	87,232	89,331	89,501	78,884	78,027	83,936	+ 3.9%
Total Collisions	119,058	120,864	120,635	106,242	105,515	113,314	+ 5.2%

SUMMARY OF MOTOR VEHICLE TRAFFIC ACCIDENTS

FOR THE STATE OF WASHINGTON STATEWIDE TOTALS

FOR THE PERIOD 01/01 - 12/31, 1977

AGE	PERSONS KILLED			OCCUPANTS			TOTAL	PEDESTRIANS		DAY	NIGHT	PEDALCYCLISTS		
	TOTAL	MALE	FEMALE	DRIVERS	PASSENGERS	MALE		FEMALE	TOTAL			MALE	FEMALE	
00 TO 04	26	10	16	0	18	8	4	4	7	1	0	0	0	
05 TO 09	20	12	8	0	7	7	3	4	6	1	6	5	1	
10 TO 14	25	19	6	3	11	6	5	1	4	2	5	4	1	
15 TO 19	143	102	41	73	60	10	7	3	1	9	0	0	0	
20 TO 24	205	164	41	132	63	10	7	3	2	8	0	0	0	
25 TO 34	194	144	50	142	38	13	11	2	3	10	1	1	0	
35 TO 44	87	65	22	66	16	5	3	2	2	3	0	0	0	
45 TO 54	61	39	22	41	10	9	5	4	0	9	1	1	0	
55 TO 64	61	39	22	37	12	12	8	4	4	8	0	0	0	
65 TO 74	49	31	18	23	15	11	9	2	2	9	0	0	0	
75 & OLDER	52	31	21	19	11	21	14	7	9	12	0	0	0	
NOT STATED	3	3	0	2	1	0	0	0	0	0	0	0	0	
TOTALS	926	659	267	538	262	112	76	36	40	72	13	11	2	

AGE	PERSONS INJURED			OCCUPANTS			TOTAL	PEDESTRIANS		DAY	NIGHT	PEDALCYCLISTS		
	TOTAL	MALE	FEMALE	DRIVERS	PASSENGERS	MALE		FEMALE	TOTAL			MALE	FEMALE	
00 TO 04	1,633	835	798	7	1,480	119	80	39	93	26	27	19	8	
05 TO 09	1,970	1,081	889	4	1,506	252	177	75	211	44	206	169	37	
10 TO 14	2,487	1,269	1,218	114	1,763	222	127	95	176	46	373	276	97	
15 TO 19	14,449	8,324	6,425	8,359	5,699	232	108	94	113	92	180	126	54	
20 TO 24	13,565	7,757	5,608	9,463	3,874	148	94	54	59	89	79	56	23	
25 TO 34	14,903	8,051	6,852	11,513	3,157	170	95	75	86	84	56	44	12	
35 TO 44	7,095	3,529	3,566	5,481	1,499	89	54	35	41	46	19	18	1	
45 TO 54	5,491	2,713	2,778	4,140	1,238	91	53	38	40	51	18	15	3	
55 TO 64	4,268	2,111	2,157	3,064	1,087	108	55	53	57	51	4	2	2	
65 TO 74	2,102	979	1,123	1,300	711	83	48	35	55	26	7	6	1	
75 & OLDER	1,080	483	597	552	430	97	50	47	69	26	1	1	0	
NOT STATED	2,313	1,163	1,150	552	1,592	122	57	65	73	52	43	32	11	
TOTALS	71,356	38,195	33,161	44,549	24,036	1,703	998	705	1,067	636	1,013	764	249	

STATEWIDE ACCIDENT CONTRIBUTING CIRCUMSTANCES - BY COUNTY

TOP TEN DRIVER VIOLATIONS (INVESTIGATED ACCIDENTS ONLY)

FOR THE PERIOD 01/01 - 12/31, 1977

PREPARED BY RECORDS SECTION W. S. P.

COUNTY	FTYROW	SPEED SAFE	INATTN	DRUNK DRIVER	FOL. TOO CLOSE	DISR OR SIG.	SIGN	IMP. TURN	DEF. EQUIP.	SPEED LEGAL	OVER CENTER	TOTAL TOP TEN	ALL OTHERS
ADAMS	53	63	41	34	9	15	8	27	14	12	276	69	
ASCTIN	84	28	34	47	51	19	11	8	17	15	314	32	
BENTON	510	308	255	231	271	212	102	91	89	74	2,143	223	
CHELAN	199	246	180	116	143	80	73	58	37	53	1,162	156	
CLALLAM	262	201	162	154	82	56	77	56	52	66	1,168	117	
CLARK	931	605	402	340	368	303	179	237	143	85	3,593	333	
COLUMBIA	12	23	16	19	4	4	6	9	6	2	101	9	
COWLITZ	429	331	260	249	193	160	99	113	98	71	2,000	179	
DOUGLAS	69	86	49	45	38	25	18	21	19	12	382	38	
FERRY	1	49	13	28	2	2	2	9	9	10	125	12	
FRANKLIN	221	126	114	88	96	67	51	37	25	15	840	77	
JARFIELD	2	18	10	7	1	2	3	4	5	1	53	15	
GRANT	198	180	136	130	59	56	49	60	40	24	938	117	
GRAY HARBOR	385	342	232	269	174	127	126	98	106	61	1,920	181	
ISLAND	102	128	72	68	66	25	32	29	29	27	578	72	
JEFFERSON	40	92	30	33	12	13	10	22	16	14	282	36	
KING	6,236	4,218	4,226	2,771	2,578	2,279	1,409	1,089	1,147	793	27,146	2,921	
KITSAP	615	655	350	361	253	240	103	170	285	118	3,150	289	
KITTITAS	81	283	106	86	24	39	37	74	40	19	789	135	
Klickitat	23	87	23	51	13	16	6	20	16	15	270	36	
LEWIS	195	263	125	167	71	61	43	95	72	41	1,133	151	
LINCOLN	10	34	14	13	2	3	4	8	9	3	100	26	
MASON	92	172	44	122	45	26	19	29	44	28	621	73	
MKANOGAN	56	152	55	121	27	12	18	39	41	29	553	81	
PACIFIC	57	83	49	59	20	16	10	26	15	14	349	55	
PEND OREILLE	13	44	11	19	1	4	1	11	13	9	126	18	
PIERCE	2,564	1,964	1,279	1,391	1,143	1,135	527	433	505	356	11,294	971	
SAN JUAN	8	28	13	20	0	2	3	8	12	13	107	12	
SKAGIT	308	322	167	235	104	52	63	79	50	44	1,430	158	
SKAMANIA	18	52	15	33	5	9	4	10	10	16	169	22	
SNOHOMISH	1,498	1,339	752	847	623	485	313	332	407	234	6,830	617	
SPOKANE	2,320	1,319	1,225	576	766	1,068	587	220	299	231	8,611	686	
STEVENS	58	143	28	57	18	7	15	20	32	41	419	63	
THURSTON	497	527	302	320	284	193	160	139	124	84	2,630	301	
WAPATAKUM	5	19	2	4	4	1	3	6	5	6	55	15	
WALLA WALLA	231	146	116	117	77	92	62	29	50	38	958	95	
WHATCOM	500	522	295	289	146	136	146	82	85	78	2,279	276	
WHITMAN	91	152	96	67	40	27	28	43	38	31	613	93	
YAKIMA	1,017	576	641	549	283	341	192	166	194	117	4,076	411	
STATEWIDE	19,991	15,926	11,940	10,130	8,490	7,410	4,599	4,004	4,210	2,900	89,600	8,768	

VEHICLE DATA - TRENDS

TYPE OF VEHICLE	PERCENT OF TOTAL					PERCENT OF CHANGE	
	1977	1976	1975	1974	1973	1977 To 1976	1977 To 1973
	Passenger cars	77.5	78.5	80.01	80.4	81.5	-1.3%
PSG car and trailer	0.1	0.1	0.1	0.1	0.1	NC	NC
Trucks under 100,000 gross	16.5	15.4	14.3	13.2	16.3	+7.1%	+23.3%
Large trucks & truck in combination	3.6	3.7	3.4	3.9		-2.7%	
Farm tractor equipment	0.03	0.03	0.02	0.02	0.02	NC	+
Taxi	0.2	0.2	0.3	0.35	0.31	NC	-
Bus	0.2	0.3	0.3	0.3	0.3	-	-
School Bus	0.1	0.2	0.1	0.1	0.1	-	NC
Motorcycle	1.5	1.3	1.2	1.4	1.2	+15.3%	+25.0%
Motorscooter & motorbike	0.01	0.01	0.01	0.01	0.01	NC	NC
Other types	0.2	0.2	0.2	0.14		NC	+
<u>VEHICLE DEFECTS</u> (Investigated collisions only)							
Defective brakes	1.09	1.18	1.17	1.25	1.28	-	-
Headlights Insufficient	0.12	0.10	0.12	0.11	0.10	+	+
Rear light Insufficient	0.28	0.32	0.28	0.32	0.27	-	+
Defective steering	0.16	0.13	0.09	0.15	0.13	+	+
Puncture or blowout	0.52	0.52	0.49	0.51	0.54	NC	-
Worn or smooth tires	2.62	2.72	2.93	2.93	3.16	-	-
Other defects	.46	0.30	0.31	0.39	0.44	+	+
No defects	94.75	94.73	94.60	94.35	94.01	+0.2%	+0.8%

ADDITIONAL VEHICLE INFORMATION

1973 - 1977

	PERCENT OF INVOLVEMENT IN ALL COLLISIONS					PERCENT OF CHANGE	
	1977	1976	1975	1974	1973	1977 To 1976	1977 To 1973
Comm. vehicle	2.71	2.72	2.74	2.86	3.17	-	-
Emergency	0.08	0.06	0.04	0.05	0.05	+	+
Military	0.07	0.05	0.05	0.03	0.04	+	+
Logging truck	0.16	0.15	0.13	0.19	0.22	+	-
Foreign car	20.08	18.15	17.34	16.05	15.00	+	+
State exempt	0.10	0.13	0.13	0.13	0.16	-	-
County exempt	0.34	0.37	0.36	0.33	0.36	-	-
Municipal exempt	0.35	0.44	0.43	0.46	0.44	-	-
Other government	0.09	0.10	0.12	0.12	0.10	-	-
Light veh. with light trailer	0.19	0.22	0.20	NA	NA	-	NA
Vehicle with house trailer	0.12	0.11	0.11	NA	NA	+	NA
Pickup with mounted camper	0.07	0.11	0.11	NA	NA	-	NA
Motorized (Mobile Home)	0.15	0.16	0.12	NA	NA	-	NA

DRIVER DATA - AGE

AGE OF DRIVER INVOLVED	PERCENT OF INVOLVEMENT IN ALL COLLISIONS				PERCENT OF CHANGE	
	1977	1976	1975	1974	1977 to 1976	1977 to 1974
UNDER 16	0.4	0.5	0.5	0.5	-2.0	-2.0
16	4.3	3.9	3.7	3.8	+10.3	+13.2
17 - 18	10.5	10.8	11.0	11.0	-2.3	-4.5
19 - 20	9.7	9.9	9.9	10.0	-2.0	-3.0
21 - 22	8.4	8.3	8.4	8.1	+1.2	+3.7
23 - 24	7.1	6.9	6.9	6.9	+2.9	+2.9
25 - 29	14.2	14.1	13.7	13.4	+0.7	+6.0
30 - 34	10.1	9.4	9.2	8.8	+6.4	+13.6
35 - 39	6.9	6.8	6.6	6.6	+1.5	+4.5
40 - 44	5.5	5.5	5.6	5.9	NC	-6.8
45 - 49	5.0	5.2	5.5	5.6	-3.8	-7.1
50 - 54	4.7	5.0	5.3	5.4	-6.0	-13.0
55 - 59	4.4	4.4	4.6	4.7	NC	-6.4
60 - 64	3.3	3.5	3.5	3.6	-8.6	-8.3
65 - 69	2.3	2.5	2.4	2.5	-8.0	-8.0
OVER 69	3.2	3.4	3.2	3.2	-5.9	NC
<u>SEX OF DRIVERS</u>						
Male	67.5	67.8	68.9	69.3	-0.4	-2.6
Female	32.5	32.2	31.1	30.7	+0.9	+5.9
<u>OCCUPATION</u>						
Professional or Business	8.28	8.20	8.21	8.36	+1.0	-1.0
Farm Laborers	0.79	0.90	0.91	0.92	-12.2	-14.1
Clerical - Sales	19.18	18.0	17.69	17.86	+6.6	+7.4
Commercial Drivers	5.53	5.60	5.51	5.86	-1.3	-5.6
Military Personnel	2.26	2.45	2.62	2.79	-7.8	-19.0
All Other Workers	31.44	30.26	29.69	29.85	+3.9	+5.3
Housewives	7.27	8.12	8.52	8.98	-10.5	-19.0
Students	13.64	14.30	14.86	14.39	-4.6	-5.2
Retired	11.59	12.15	11.99	10.99	-4.6	+5.5

DRIVER DATA - AGE

AGE OF LICENSED DRIVERS	PERCENT OF TOTAL				PERCENT OF CHANGE	
	1977	1976	1975	1974	1977 To 1976	1977 To 1974
16	1.4	1.4	1.4	1.4	NC	NC
17 - 18	4.6	4.7	4.7	5.0	- 2.1%	- 8.0%
19 - 20	5.1	5.3	5.2	5.4	- 3.8%	- 5.6%
21 - 22	5.2	5.4	5.4	5.4	- 3.7%	- 3.7%
23 - 24	5.3	5.5	5.4	5.3	- 3.6%	NC
25 - 29	13.0	13.3	13.2	12.8	- 2.3%	+ 1.6%
30 - 34	11.5	11.0	10.5	10.2	+ 4.5%	+12.7%
35 - 39	8.8	8.5	8.3	8.3	+ 3.5%	+ 6.0%
40 - 44	7.4	7.4	7.6	7.7	NC	- 3.9%
45 - 49	7.3	7.4	7.7	7.9	- 1.4%	- 7.6%
50 - 54	7.4	7.5	7.9	8.2	- 1.3%	- 9.8%
55 - 59	7.2	7.1	7.2	7.1	+ 1.4%	+ 1.4%
60 - 64	5.9	5.9	5.9	5.9	NC	NC
65 - 69	4.5	4.4	4.4	4.3	+ 2.3%	+ 4.7%
Over 69	5.4	5.2	5.2	5.1	+ 3.8%	+ 5.9%
<u>SEX OF LICENSED DRIVERS</u>						
MALE	52.4	53.6				
Female	47.6	46.4				

SUMMARY OF MOTOR VEHICLE ACCIDENTS BY AGE AND VIOLATION

FOR THE PERIOD 01/01 - 12/31, 1977

PREPARED BY RECORDS SECTION W. S. P.

DRIVER AGE	DWI	SPEED COND	SPEED LEGAL	DISK OR SIGN	SIG IMP TRAVEL	LANE	FTYROW	FOL TOO CLOSE	OVER CENTER	DEF EQUIP	IMP PASS	OTHER CIRCUM	TOTAL
15 & UNDER	39	149	74	40	2	127	20	28	22	9	187	697	
16	230	1,114	404	326	62	1,060	432	197	281	118	997	5,221	
17	277	1,092	385	405	62	1,035	488	162	336	125	1,015	5,342	
18	439	1,153	413	447	97	1,068	611	214	362	159	1,148	6,111	
19	485	1,111	369	436	98	933	540	179	294	126	991	5,562	
20	509	896	280	351	68	758	438	153	244	97	817	4,611	
21	594	853	252	343	84	773	419	138	216	104	838	4,614	
22	478	709	202	308	64	621	345	100	176	78	702	3,783	
23	447	585	175	244	49	616	295	115	174	80	647	3,427	
24	411	511	130	217	48	555	267	99	123	52	547	2,960	
25	372	454	111	214	40	530	257	79	124	49	503	2,733	
26	338	441	92	180	50	496	251	65	117	62	444	2,536	
27	299	399	97	168	31	439	223	67	90	49	442	2,304	
28	298	406	88	171	48	432	185	60	105	56	423	2,272	
29	262	388	64	157	37	402	210	58	99	52	393	2,122	
30 THRU 34	1,072	1,289	253	546	138	1,580	769	222	319	130	1,495	7,613	
35 THRU 39	767	796	114	373	120	1,145	525	149	208	106	956	5,261	
40 THRU 44	590	560	68	302	91	910	368	91	142	84	749	3,955	
45 THRU 49	551	513	47	285	90	852	332	74	130	75	678	3,627	
50 THRU 54	454	402	37	291	107	905	289	72	84	62	631	3,334	
55 THRU 59	352	362	33	323	87	916	272	73	84	48	617	3,167	
60 THRU 64	245	245	20	256	72	823	226	51	48	54	505	2,545	
65 THRU 69	126	163	11	202	49	766	139	55	35	31	406	1,983	
70 THRU 74	53	102	11	173	54	673	91	22	20	17	299	1,515	
75 & OVER	27	108	5	224	38	932	106	24	36	11	371	1,884	
NOT STATED	415	1,165	475	428	145	644	392	353	133	144	4,707	9,001	
TOTAL	10,130	15,926	4,210	7,410	1,831	19,991	8,490	2,900	4,004	1,978	21,510	98,380	

DRIVERS INVOLVED IN FATAL COLLISIONS
CONDITION OF DRIVER (SOBRIETY)

	'70	'71	'72	'73	'74	'75	'76	'77	
STATEWIDE	HAD BEEN DRINKING ABILITY IMPAIRED	208	214	214	228	273	294	299	378
	HAD BEEN DRINKING ABILITY NOT IMPAIRED	39	48	72	38	39	50	51	61
	HAD BEEN DRINKING SOBRIETY UNKNOWN	91	89	59	63	60	55	54	47
	HAD NOT BEEN DRINKING	637	609	600	568	491	479	538	606
	NOT STATED	124	60	96	64	67	77	65	76
	TOTAL DRIVERS	1099	1020	1041	961	930	955	1007	1168
	TOTAL DRIVER DRINKING	338	351	345	329	372	399	404	486
	TOTAL DRIVERS EXCLUDING NOT STATED	975	960	945	897	863	878	942	1092
	NO. DRINKING DRIVERS PER 100 INVOLVED	34.7	36.6	36.5	36.7	43.1	45.4	42.9	44.5
	NO. OF DRUNK DRIVERS PER 100 INVOLVED	21.3	22.3	22.6	25.4	31.6	33.5	31.7	34.6
R U R A L	HAD BEEN DRINKING ABILITY IMPAIRED	170	170	171	189	209	220	246	294
	HAD BEEN DRINKING ABILITY NOT IMPAIRED	28	34	59	34	28	37	45	43
	HAD BEEN DRINKING SOBRIETY UNKNOWN	70	61	45	48	47	36	45	31
	HAD NOT BEEN DRINKING	477	441	443	421	374	350	392	467
	NOT STATED	58	25	50	27	32	38	28	43
	TOTAL DRIVERS	803	731	768	719	690	681	756	878
	TOTAL DRIVER DRINKING	268	265	275	271	284	293	336	368
	TOTAL DRIVERS EXCLUDING NOT STATED	745	706	718	692	658	643	728	835
	NO. DRINKING DRIVERS PER 100 INVOLVED	36.0	37.5	38.3	39.2	43.2	45.6	46.2	44.1
	NO. OF DRUNK DRIVERS PER 100 INVOLVED	22.8	24.1	23.8	27.3	31.8	34.2	33.8	35.2
U R B A N	HAD BEEN DRINKING ABILITY IMPAIRED	38	44	43	39	64	74	53	84
	HAD BEEN DRINKING ABILITY NOT IMPAIRED	11	14	13	4	11	13	6	18
	HAD BEEN DRINKING SOBRIETY UNKNOWN	21	28	14	15	13	19	9	16
	HAD NOT BEEN DRINKING	160	168	157	147	117	129	146	139
	NOT STATED	66	35	46	37	35	39	37	33
	TOTAL DRIVERS	296	289	273	242	240	274	251	290
	TOTAL DRIVER DRINKING	70	86	70	58	88	106	68	118
	TOTAL DRIVERS EXCLUDING NOT STATED	230	254	227	205	205	235	214	257
	NO. DRINKING DRIVERS PER 100 INVOLVED	30.4	33.9	30.8	28.3	42.9	45.1	31.8	45.9
	NO. OF DRUNK DRIVERS PER 100 INVOLVED	16.5	17.3	18.9	19.0	31.2	31.5	24.8	32.7

DRIVERS INVOLVED IN ALL COLLISIONS

CONDITION OF DRIVER (SOBRIETY)

		'70	'71	'72	'73	'74	'75	'76	'77
STATEWIDE	HAD BEEN DRINKING ABILITY IMPAIRED	5468	5725	6170	7035	7490	8942	9385	9874
	HAD BEEN DRINKING ABILITY NOT IMPAIRED	3760	3336	3381	3556	4016	4594	4595	4960
	HAD BEEN DRINKING SOBRIETY UNKNOWN	4936	4862	4641	5240	5656	6471	6248	6403
	HAD NOT BEEN DRINKING	86515	88896	89087	91984	88709	99156	104519	110448
	NOT STATED	17614	11960	14549	15510	16961	20601	20999	20438
	TOTAL DRIVERS	118293	114779	117828	123325	122832	139764	145746	152123
	TOTAL DRIVER DRINKING	14164	13923	14192	15831	17162	20007	20228	21237
	TOTAL DRIVERS EXCLUDING NOT STATED	100679	102819	103279	107815	105871	119163	124747	131685
	NO. DRINKING DRIVERS PER 100 INVOLVED	14.1	13.5	13.7	14.7	16.2	16.8	16.2	16.1
	NO. OF DRUNK DRIVERS PER 100 INVOLVED	5.4	5.6	6.0	6.5	7.1	7.5	7.5	7.5
R U R A L	HAD BEEN DRINKING ABILITY IMPAIRED	2826	2855	3172	3667	3966	4911	5072	5389
	HAD BEEN DRINKING ABILITY NOT IMPAIRED	1739	1555	1523	1704	1810	2154	2124	2335
	HAD BEEN DRINKING SOBRIETY UNKNOWN	2985	3001	2734	3106	3259	3641	3550	3657
	HAD NOT BEEN DRINKING	34458	35243	35853	37829	35458	39451	42007	44867
	NOT STATED	3207	2844	3394	3135	3430	4568	5277	5560
	TOTAL DRIVERS	45215	45498	46676	49441	47923	54725	58030	61808
	TOTAL DRIVER DRINKING	7550	7411	7429	8477	9035	10706	10746	11381
	TOTAL DRIVERS EXCLUDING NOT STATED	42008	42654	43282	46306	44493	50157	52753	56248
	NO. DRINKING DRIVERS PER 100 INVOLVED	18.0	17.4	17.2	18.3	20.3	21.3	20.3	20.2
	NO. OF DRUNK DRIVERS PER 100 INVOLVED	6.7	6.7	7.3	7.9	8.9	9.8	9.6	9.6
U R B A N	HAD BEEN DRINKING ABILITY IMPAIRED	2642	2870	2998	3368	3524	4031	4313	4485
	HAD BEEN DRINKING ABILITY NOT IMPAIRED	2021	1781	1858	1852	2206	2440	2471	2625
	HAD BEEN DRINKING SOBRIETY UNKNOWN	1951	1861	1907	2134	2397	2830	2698	2746
	HAD NOT BEEN DRINKING	52057	53653	53234	54155	53251	59705	62512	65581
	NOT STATED	14407	9116	11155	12375	13531	16033	15722	14878
	TOTAL DRIVERS	70078	69281	71152	73884	74909	85039	87716	90315
	TOTAL DRIVER DRINKING	6614	6512	6763	7354	8127	9301	9482	9856
	TOTAL DRIVERS EXCLUDING NOT STATED	55671	60165	59997	61509	61378	69106	71994	75437
	NO. DRINKING DRIVERS PER 100 INVOLVED	11.9	10.8	11.3	12.0	13.2	13.5	13.2	13.1
	NO. OF DRUNK DRIVERS PER 100 INVOLVED	4.7	4.8	5.0	5.5	5.7	5.8	6.0	5.9

TRAFFIC COLLISION PROBLEM AREAS BY PRIORITY

1977 - 1976 - 1975

COUNTY	County Wide			State Routes			County Roads			Drinking Drivers		
	1977	1976	1975	1977	1976	1975	1977	1976	1975	1977	1976	1975
Adams	36	33	34	34	36	35	37	30	30	36	36	34
Asotin	21	21	19	15	15	13	17	20	21	24	21	16
Benton	13	14	11	13	16	15	20	17	14	18	19	24
Chelan	14	11	10	10	7	8	27	23	22	19	24	28
Clallam	11	9	16	6	4	10	18	15	20	13	11	15
Clark	8	8	8	7	8	7	5	4	7	15	15	10
Columbia	35	37	35	35	34	36	33	27	33	34	34	33
Cowlitz	15	12	9	17	19	15	6	5	4	10	13	12
Douglas	29	32	32	23	31	32	24	32	29	31	31	32
Ferry	30	31	30	24	25	26	23	33	27	17	22	26
Franklin	20	19	15	33	32	33	31	34	31	29	26	25
Garfield	39	39	39	36	38	37	38	38	37	21	39	38
Grant	27	25	28	12	29	30	28	24	26	28	16	22
Grays Harbor	12	10	12	3	3	5	15	16	18	11	4	8
Island	19	20	21	11	18	19	8	7	6	14	9	7
Jefferson	28	28	31	19	20	27	30	29	28	33	32	29
King	2	3	2	2	6	2	2	2	2	6	7	14
Kitsap	3	6	5	1	1	1	4	6	3	3	1	1
Kittitas	31	29	29	28	30	24	29	25	15	32	33	31
Klickitat	34	35	36	25	26	28	34	36	34	30	35	27
Lewis	22	26	23	22	14	25	22	21	23	26	28	39
Lincoln	38	38	38	37	37	38	39	37	36	39	37	37
Mason	17	13	14	9	9	9	12	14	10	7	8	6
Okanogan	25	23	26	26	23	21	19	18	17	23	14	14
Pacific	23	30	27	18	27	20	14	19	19	27	25	23
Pend Orielle	33	34	33	32	35	34	26	28	38	35	29	26
Pierce	1	1	1	5	5	4	1	1	1	1	2	2
San Juan	18	18	20		-	-	13	12	16	37	17	17
Skagit	10	16	17	20	10	18	11	8	9	8	12	10
Skamania	26	24	24	38	17	17	35	35	35	22	18	21
Snohomish	4	7	6	8	12	6	3	3	5	2	3	3
Spokane	5	2	4	4	2	3	9	11	11	9	10	9
Stevens	24	27	25	21	21	23	25	22	24	25	23	20
Thurston	16	15	18	30	28	31	10	9	12	12	20	17
Wahkiakum	37	36	37	31	22	22	36	39	39	38	38	35
Walla Walla	9	17	13	27	33	29	21	31	25	16	27	19
Whatcom	7	4	7	16	13	14	7	10	8	5	5	5
Whitman	32	22	22	29	24	12	32	26	32	20	30	29
Yakima	6	5	3	14	11	11	16	13	13	4	6	3

* The Counties Ranked from 1 - 39
(1 indicates the worst record and 39 the best)

WASHINGTON STATE TRAFFIC SAFETY COMMISSION
COMPARISON OF VEHICLE REGISTRATION - LICENSED DRIVERS, COLLISIONS & TRAVEL BY COUNTY

COUNTY	PERCENT OF VEHICLE REGISTRATION	PERCENT OF LICENSED DRIVERS	PERCENT OF TOTAL COLLISIONS	PERCENT OF MILES TRAVELED
Adams	.43	.39	.33	1.04
Asotin	.42	.42	.34	.37
Benton	2.24	2.49	2.23	2.58
Chelan	1.39	1.29	1.24	1.24
Clallam	1.24	1.28	1.30	1.28
Clark	4.42	4.47	4.19	4.29
Columbia	.15	.12	.11	.18
Cowlitz	2.18	2.06	2.22	2.65
Douglas	.60	.56	.38	.57
Ferry	.10	.12	.15	.18
Franklin	1.22	.83	.81	1.10
Garfield	.10	.09	.08	.17
Grant	1.42	1.30	1.00	1.95
Grays Harbor	1.69	1.68	2.04	2.09
Island	.86	.90	.60	.64
Jefferson	.35	.36	.39	.56
King	31.45	32.66	33.26	28.55
Kitsap	3.13	3.17	3.22	2.72
Kittitas	.65	.63	.90	2.19
Klickitat	.42	.40	.32	.57
Lewis	1.64	1.48	1.26	2.26
Lincoln	.34	.29	.15	.68
Mason	.70	.69	.72	.72
Okanogan	.79	.86	.63	1.00
Pacific	.44	.47	.43	.53
Pend Oreille	.19	.20	.18	.28
Pierce	10.75	10.85	12.07	9.68
San Juan	.18	.18	.11	.04
Skagit	1.80	1.71	1.53	2.20
Skamania	.15	.17	.19	.22
Snohomish	7.52	7.45	6.98	6.42
Spokane	8.32	8.32	8.81	8.19
Stevens	.61	.68	.49	.67
Thurston	2.98	2.86	2.70	3.54
Wahkiakum	.10	.10	.09	.16
Walla Walla	1.14	1.15	1.05	1.01
Whatcom	2.57	2.55	2.49	2.32
Whitman	.90	.88	.69	1.25
Yakima	4.40	4.25	4.32	4.00
TOTAL	100 %	100 %	100 %	100 %

TRAFFIC COLLISION PROBLEM AREAS BY COUNTY PRIORITY

1977

<u>TOTAL COLLISIONS</u>	<u>COLLISIONS ON STATE ROUTES</u>	<u>COLLISIONS ON COUNTY ROADS</u>	<u>DRINKING DRIVER COLLISIONS</u>	<u>YOUTHFUL DRIVERS (24 & younger)</u>
1. Pierce	1. Kitsap	1. Pierce	1. Pierce	1. Pierce
2. King	2. King	2. King	2. Snohomish	2. Spokane
3. Kitsap	3. Grays Harbor	3. Snohomish	3. Kitsap	3. King
4. Snohomish	4. Spokane	4. Kitsap	4. Yakima	4. Snohomish
5. Spokane	5. Pierce	5. Clark	5. Whatcom	5. Kitsap
6. Yakima	6. Clallam	6. Cowlitz	6. King	6. Yakima
7. Whatcom	7. Clark	7. Whatcom	7. Mason	7. Whatcom
8. Clark	8. Snohomish	8. Island	8. Skagit	8. Walla Walla
9. Skagit	9. Mason	9. Spokane	9. Spokane	9. Clark
10. Walla Walla	10. Chelan	10. Thurston	10. Cowlitz	10. Benton
11. Clallam	11. Island	11. Skagit	11. Grays Harbor	11. Skagit
12. Grays Harbor	12. Grant	12. Mason	12. Thurston	12. Douglas
13. Benton	13. Benton	13. San Juan	13. Clallam	13. Grays Harbor
14. Chelan	14. Yakima	14. Pacific	14. Island	14. Clallam
15. Cowlitz	15. Asotin	15. Grays Harbor	15. Clark	15. Thurston
16. Thurston	16. Whatcom	16. Yakima	16. Walla Walla	16. Cowlitz
17. Mason	17. Cowlitz	17. Asotin	17. Ferry	17. Island
18. San Juan	18. Pacific	18. Clallam	18. Benton	18. Chelan
19. Island	19. Jefferson	19. Okanogan	19. Chelan	19. San Juan
20. Franklin	20. Skagit	20. Benton	20. Whitman	20. Franklin
21. Asotin	21. Stevens	21. Walla Walla	21. Garfield	21. Asotin
22. Lewis	22. Lewis	22. Lewis	22. Skamania	22. Mason
23. Pacific	23. Douglas	23. Ferry	23. Okanogan	23. Lewis
24. Stevens	24. Ferry	24. Douglas	24. Asotin	24. Whitman
25. Okanogan	25. Klickitat	25. Stevens	25. Stevens	25. Grant
26. Skamania	26. Okanogan	26. Pend Oreille	26. Lewis	26. Pacific
27. Grant	27. Walla Walla	27. Chelan	27. Pacific	27. Okanogan
28. Jefferson	28. Kittitas	28. Grant	28. Grant	28. Skamania
29. Douglas	29. Whitman	29. Kittitas	29. Franklin	29. Kittitas
30. Ferry	30. Thurston	30. Jefferson	30. Klickitat	30. Ferry
31. Kittitas	31. Wahkiakum	31. Franklin	31. Douglas	31. Jefferson
32. Whitman	32. Pend Oreille	32. Whitman	32. Kittitas	32. Klickitat
33. Pend Oreille	33. Franklin	33. Columbia	33. Jefferson	33. Pend Oreille
34. Klickitat	34. Adams	34. Klickitat	34. Columbia	34. Adams
35. Columbia	35. Columbia	35. Skamania	35. Pend Oreille	35. Wahkiakum
36. Adams	36. Garfield	36. Wahkiakum	36. Adams	36. Columbia
37. Wahkiakum	37. Lincoln	37. Adams	37. San Juan	37. Lincoln
38. Lincoln	38. Skamania	38. Garfield	38. Wahkiakum	38. Garfield
39. Garfield	39. --	39. Lincoln	39. Lincoln	39. Stevens

PEDESTRIANS KILLED & INJURED

1970 - 1977

URBAN AREAS (2,500 Population & Greater)

	<u>1977</u>	<u>1976</u>	<u>1975</u>	<u>1974</u>	<u>1973</u>	<u>1972</u>	<u>1971</u>	<u>1970</u>
Pedestrians Killed	54	53	43	44	52	51	69	63
Pedestrians Injured	1249	1275	1294	1211	1253	1244	1308	1272

ACTIONS OF PEDESTRIANS KILLED AND INJURED - 1977

<u>Pedestrian Actions</u>	<u>No. Killed</u>	<u>No. Killed Or Injured</u>	<u>Age 0-4</u>	<u>Age 5-14</u>	<u>Age 15-24</u>	<u>Age 25-64</u>	<u>Age 65 & Up</u>	<u>Not Stated</u>
Crossing/Entering Rdwy. at Intersection	17	646	17	136	104	210	126	53
Not at Intersection	19	388	60	156	57	65	27	23
Walking with Traffic	4	32	0	2	11	16	1	2
Walking Against Traffic	0	8	1	2	1	3	1	0
Standing or Working in Roadway	4	71	3	3	29	28	2	6
Playing in Roadway	2	22	7	13	0	0	0	2
Lying in Roadway	0	3	0	0	1	1	0	1
Not in Roadway	4	87	4	18	23	25	10	7
Other & Not Stated	4	46	4	7	14	13	6	2
TOTAL	54	1303	96	337	240	361	173	96

RURAL AREAS

	<u>1977</u>	<u>1976</u>	<u>1975</u>	<u>1974</u>	<u>1973</u>	<u>1972</u>	<u>1971</u>	<u>1970</u>
Pedestrians Killed	58	37	69	50	56	70	64	57
Pedestrians Injured	454	466	458	413	417	422	388	396

ACTIONS OF PEDESTRIANS KILLED AND INJURED

<u>Pedestrian Actions</u>	<u>No. Killed</u>	<u>No. Killed Or Injured</u>	<u>Age 0-4</u>	<u>Age 5-14</u>	<u>Age 15-24</u>	<u>Age 25-64</u>	<u>Age 65 & Up</u>	<u>Not Stated</u>
Crossing/Entering Rdwy. at Intersection	9	86	4	23	23	20	11	5
Not at Intersection	19	172	10	81	27	36	12	6
Walking with Traffic	6	53	1	9	22	11	7	3
Walking Against Traffic	1	5	0	0	2	3	0	0
Standing or Working in Roadway	7	65	2	2	19	30	5	7
Playing in Roadway	3	17	8	7	2	0	0	0
Lying in Roadway	3	7	0	0	5	1	1	0
Not in Roadway	7	85	5	18	26	28	2	6
Others & Not Stated	3	23	1	10	4	7	1	0
TOTAL	58	513	31	150	130	136	39	27

Collision Rate * By City Population Continued:

	1977 Population	Traffic Deaths	Death Rate	No. of Injuries	Injury Rate	Total Collisions	Collision Rate
<u>15,000 to 25,000</u> <u>Continued:</u>							
11. Port Angeles	16,890	5	29.6	285	1687.3	687	4067.5
12. Mountlake Terrace	16,550	2	12.1	195	1178.2	296	1788.5
13. Puyallup	15,750	5	31.7	331	2101.6	577	3663.5
14. Pasco	15,375	1	6.5	352	2289.4	642	4175.6
15. Kirkland	15,350	0	0	157	1022.8	360	2345.3
<u>10,000 to 15,000</u>							
1. Ellensburg	13,000	2	15.4	88	676.9	239	1838.5
2. Lacey	11,807	0	0	175	1482.2	333	2820.4
3. Oak Harbor	11,618	0	0	84	723.0	177	1523.5
4. Mt. Vernon	11,021	4	36.3	187	1696.8	373	3384.4
5. Centralia	10,710	4	37.3	169	1578.0	353	3296.0
6. Kelso	10,600	0	0	155	1462.3	367	3462.3
7. Moses Lake	10,475	0	0	150	1432.0	350	3341.3
8. Hoquiam	10,430	0	0	153	1466.9	380	3643.3

* Frequency per 100,000 Population

COLLISION RATE * BY CITY POPULATION

(Does Not Include Collisions on Limited Access Roads or Freeways)

	1977 Population	Traffic Deaths	Death Rate	No. of Injuries	Injury Rate	Total Collisions	Collision Rate
<u>250,000 and Over</u>							
1. Seattle	500,000	40	8.0	9819	1963.8	17,987	3597.4
<u>100,000 to 250,000</u>							
1. Spokane	174,500	18	10.3	3703	2122.1	6,873	3938.7
2. Tacoma	156,000	21	13.5	3533	2264.7	6,415	4112.2
<u>50,000 to 100,000</u>							
1. Bellevue	68,500	1	1.5	809	1181.0	1,794	2619.0
2. Everett	51,700	6	11.6	1008	1842.8	1,944	3760.2
3. Yakima	51,100	4	7.8	1215	2377.7	2,189	4283.8
<u>25,000 to 50,000</u>							
1. Vancouver	46,500	5	10.8	844	1815.1	1,698	3651.6
2. Bellingham	43,160	5	11.6	580	1343.8	1,319	3056.1
3. Bremerton	39,350	9	22.9	856	2175.3	1,460	3710.3
4. Richland	31,050	4	12.9	401	1291.5	834	2686.0
5. Longview	29,830	0	0	722	2420.4	1,268	4250.8
6. Renton	27,150	2	7.4	718	2644.6	1,201	4423.6
7. Edmonds	26,115	4	15.3	349	1336.4	539	2063.9
8. Olympia	25,520	4	15.7	477	1869.1	1,160	4545.5
<u>15,000 to 25,000</u>							
1. Walla Walla	24,300	2	8.2	326	1341.6	701	2884.8
2. Kennewick	23,638	3	12.7	437	1848.7	918	3883.6
3. Pullman	23,500	1	4.3	121	514.9	328	1395.7
4. Auburn	23,055	4	17.3	342	1483.4	748	3244.4
5. Lynnwood	21,450	2	9.3	548	2554.8	814	3794.9
6. Mercer Island	21,350	2	9.4	138	646.4	248	1161.6
7. Aberdeen	18,900	1	5.3	344	1820.1	865	4576.7
8. Kent	18,250	7	38.4	734	4021.9	975	5342.5
9. Redmond	17,757	3	16.9	262	1475.5	463	2607.4
10. Wenatchee	17,700	0	0	257	1452.0	660	3728.8

