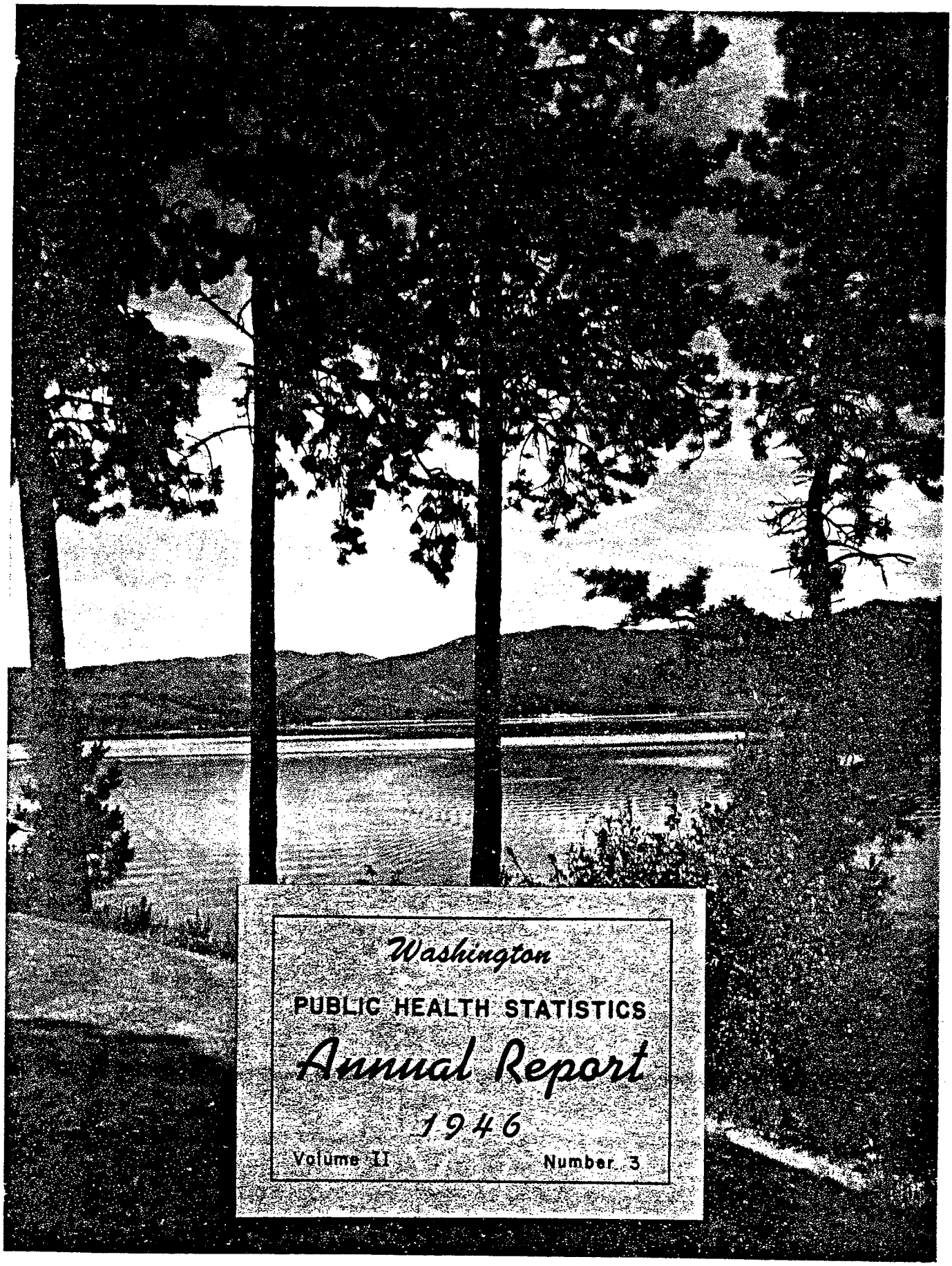

Washington PUBLIC HEALTH STATISTICS Annual Report 1946

Volume II Number 3

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is published by the

WASHINGTON STATE DEPARTMENT OF HEALTH

PUBLIC HEALTH STATISTICS SECTION

1412 SMITH TOWER

SEATTLE 4

MON C. WALLGREN
Governor

ARTHUR L. RINGLE, M. D., C.P.H.
State Director of Health

Cover photograph courtesy Washington State Department of Conservation and Development

June 1, 1948

The Honorable Mon C. Wallgren
Governor
State of Washington
Olympia, Washington

Honorable Sir:

I have the pleasure of submitting herewith the Annual Statistical Report of the State Department of Health for the calendar year 1946, in accordance with Section 6007, Remington's Revised Statutes, State of Washington.

This report presents statistically the happening of vital events as they occurred within this state during the year 1946, together with trend studies of specific events and their analysis.

The report entails tabulations, charts and graphs of natality, mortality, and morbidity, by place of occurrence of the event and by place of residence of the population affected. It supplements the "1946 Annual Report" of this Department by supplying detailed tabulations of vital statistics.

Respectfully submitted,

Arthur L. Ringle

ARTHUR L. RINGLE, M. D., C.P.H.
State Director of Health

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SECTION I

* * * *

NATALITY

General birth rates [1]

The general birth rate in the State of Washington during 1937 was 14.7 per 1,000 estimated population, and in 1946 the rate increased to 25.3 per 1,000 estimated population. This was a 72 percent increase over the beginning of the ten-year period.

The vital index for 1937 and 1946 was 132.6 and 240.2 respectively, which means that for every 100 deaths there were 133 births, or a net gain of approximately 6,200 individuals in the population in 1937. In 1946 there were 240 births for every 100 deaths, or a net gain of approximately 30,300 individuals in the state population, exclusive of migration.

1946 natality[2]

During the year 1946 a total of 51,941 infants were born to mothers having residence in the State of Washington, a birth rate of 25.3 births per 1,000 estimated population. The total number of births and the rate represent the greatest number of births ever recorded in the state during one year. There was an increase of 5,797 in the number of births and a rate increase of 3.5 per 1,000 estimated population over that of the year 1945. The average number of births to residents per year during the preceding five-year period of 1941 through 1945 was 40,492.

The greatest number of births during any one month in 1946 occurred in the month of October with 5,300 births being allocated to that month, whereas the greatest number of births being filed during any one month of 1946 was in the month of November when 5,758 births were received by the state office. This difference of 458 birth records is an outstanding example of the lag in registration which occurred throughout the year.

The highest birth rate during 1946 was that of 52.2 per 1,000 estimated population in rural Kitsap County. The lowest birth rates were observed in Asotin and Garfield Counties, each of which had a rate of 15.5 births per 1,000 estimated population.

During the year of 1946 the highest birth rate for cities of 10,000 or more population was observed in the City of Yakima, which had a birth rate of 32.2 per 1,000 estimated population. The lowest birth rate for cities of this class was that of 16.6 per 1,000 estimated population for the City of Vancouver. The birth rate by residence for all rural areas within the state was 26.9 as compared with a rate of 23.8 for all cities of 10,000 or more population. The greatest number of births which occurred within any one area was 10,537 in the City of Seattle, the largest registration area in the state.

Comparison of livebirths by residence of mother showed that 48.8 percent of the infants were born to mothers who resided in urban[3] areas and 51.2 percent were born to mothers who resided in rural[3] areas. These figures may be compared with the per-

Cont. P. 7

1 See Figure 1.
2 See Table II.
3 Urban: cities of 10,000 or more estimated population.
Rural: all areas in the state excluding cities of 10,000 or more population.

TABLE I

SUMMARY OF THE NUMBER OF LIVEBIRTHS, DEATHS, DEATHS OF INFANTS UNDER ONE YEAR OF AGE, MATERNAL DEATHS, AND STILLBIRTHS, WITH RATES, STATE OF WASHINGTON, 1910 - 1946

Year	Population	Livebirths		Deaths		Infant Deaths		Maternal Deaths		Stillbirths	
		No.	Rate**	No.	Rate**	No.	Rate*	No.	Rate*	No.	Rate*
1910	1,147,000	19,916	17.4	11,502	10.0	1,862	93.5	194	9.7	705	35.4
1911	1,168,800	20,728	17.7	10,845	9.3	1,531	73.9	177	8.5	699	33.7
1912	1,190,600	20,683	17.4	10,187	8.6	1,365	66.0	179	8.7	724	35.0
1913	1,212,400	21,200	17.5	11,397	9.4	1,566	73.9	178	8.4	688	32.4
1914	1,234,000	23,008	18.6	11,448	9.3	1,540	66.9	152	6.6	783	34.0
1915	1,256,000	24,046	19.1	11,895	9.5	1,461	60.8	156	6.5	779	32.4
1916	1,277,800	23,831	18.6	11,805	9.2	1,531	64.2	175	7.3	705	29.6
1917	1,299,600	23,464	18.0	12,137	9.3	1,625	69.3	173	7.2	691	29.4
1918	1,321,400	25,682	19.4	16,837	12.7	1,769	68.9	253	9.9	730	28.4
1919	1,343,200	25,112	18.7	14,370	10.7	1,584	63.1	216	8.6	730	29.1
1920	1,365,000	27,072	19.8	15,164	11.1	1,797	66.4	249	9.2	888	32.8
1921	1,385,400	27,267	19.7	13,254	9.6	1,512	55.4	212	7.8	852	31.2
1922	1,405,800	25,378	18.0	14,249	10.1	1,566	61.7	200	7.9	731	28.8
1923	1,426,200	25,259	17.7	13,856	9.7	1,428	56.5	168	6.7	680	26.9
1924	1,446,600	25,378	17.5	14,580	10.1	1,426	56.2	180	7.1	711	28.0
1925	1,467,000	24,741	15.9	15,280	10.4	1,395	56.4	149	8.0	667	27.0
1926	1,487,400	23,989	16.1	15,670	10.3	1,352	56.4	180	7.5	719	30.0
1927	1,507,800	23,315	15.5	15,950	10.6	1,162	49.8	155	6.6	650	27.9
1928	1,528,200	23,161	15.2	16,723	10.9	1,115	48.1	167	7.2	641	27.7
1929	1,548,600	22,658	14.6	16,413	10.6	1,110	49.0	140	6.2	572	25.2
1930	1,569,000	23,019	14.7	16,678	10.6	1,122	48.7	143	6.2	601	26.1
1931	1,584,715	22,028	13.9	16,524	10.4	1,064	48.3	140	6.4	591	26.8
1932	1,600,425	21,379	13.4	16,581	10.4	967	45.2	129	6.0	530	24.8
1933	1,619,000	20,882	13.0	16,705	10.4	811	38.8	133	6.4	446	21.4
1934	1,642,475	22,484	13.7	17,456	10.6	974	43.2	105	4.7	521	23.2
1935	1,660,810	22,378	13.5	18,046	10.9	998	44.6	120	5.4	469	21.0
1936	1,676,445	23,354	13.9	19,057	11.4	1,064	45.5	115	4.9	468	20.0
1937	1,693,880	24,882	14.7	18,771	11.1	978	39.1	118	4.7	495	19.9
1938	1,709,640	26,702	15.6	18,514	10.8	1,000	37.4	94	3.5	440	16.5
1939	1,725,595	26,471	15.3	18,528	10.7	977	36.9	97	3.7	450	17.0
1940	1,742,045	27,952	16.0	19,837	11.4	969	34.7	89	3.2	459	16.4
1941	1,817,710	30,916	17.0	19,359	10.6	1,065	34.5	66	2.1	445	14.4
1942	1,894,499	38,744	20.4	20,190	10.6	1,278	33.0	78	2.0	580	15.0
1943	1,982,300	44,258	22.3	22,017	11.1	1,534	34.7	72	1.6	575	13.0
1944	1,986,192	44,246	22.2	21,144	10.6	1,494	33.8	72	1.6	607	13.7
1945	2,032,968	44,296	21.8	21,292	10.5	1,523	34.4	79	1.8	672	15.2
1946	2,050,100	51,941	25.3	21,620	10.5	1,723	33.2	65	1.2	869	16.7

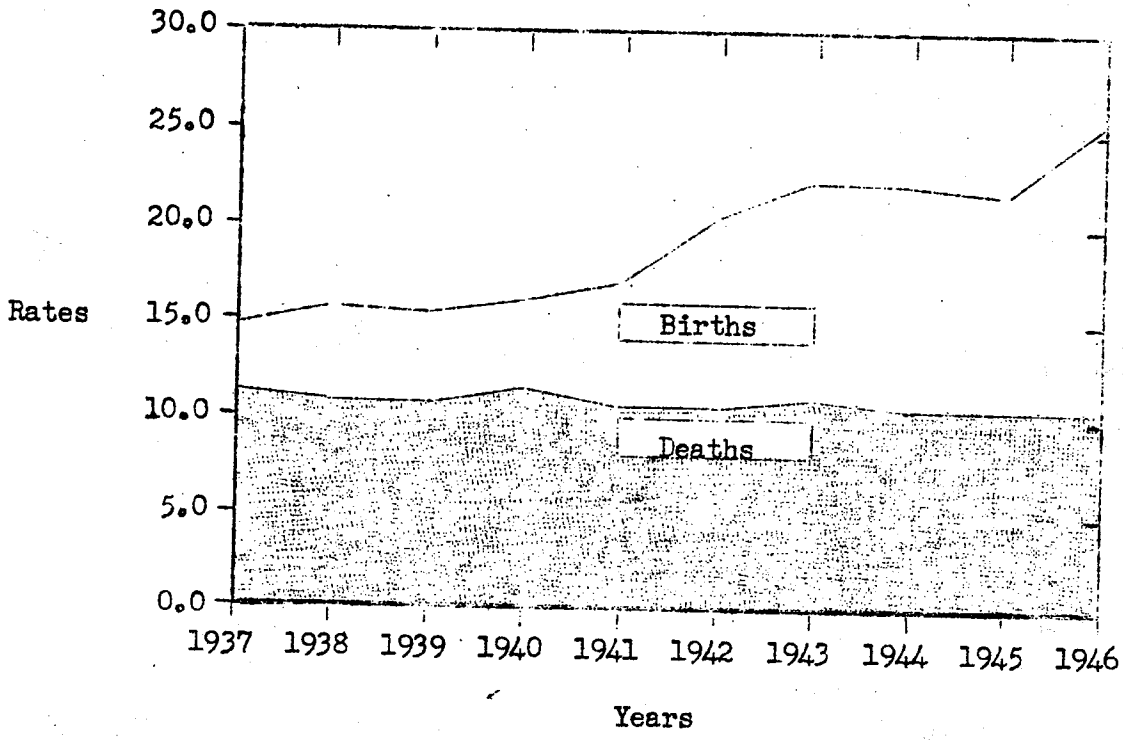
* Per 1,000 livebirths
** Per 1,000 population

Source: 1910 - 1933 place of occurrence figures from published reports of the National Office of Vital Statistics.

1934 - 1946 place of residence figures from Section of Public Health Statistics, Washington State Department of Health.

FIGURE 1

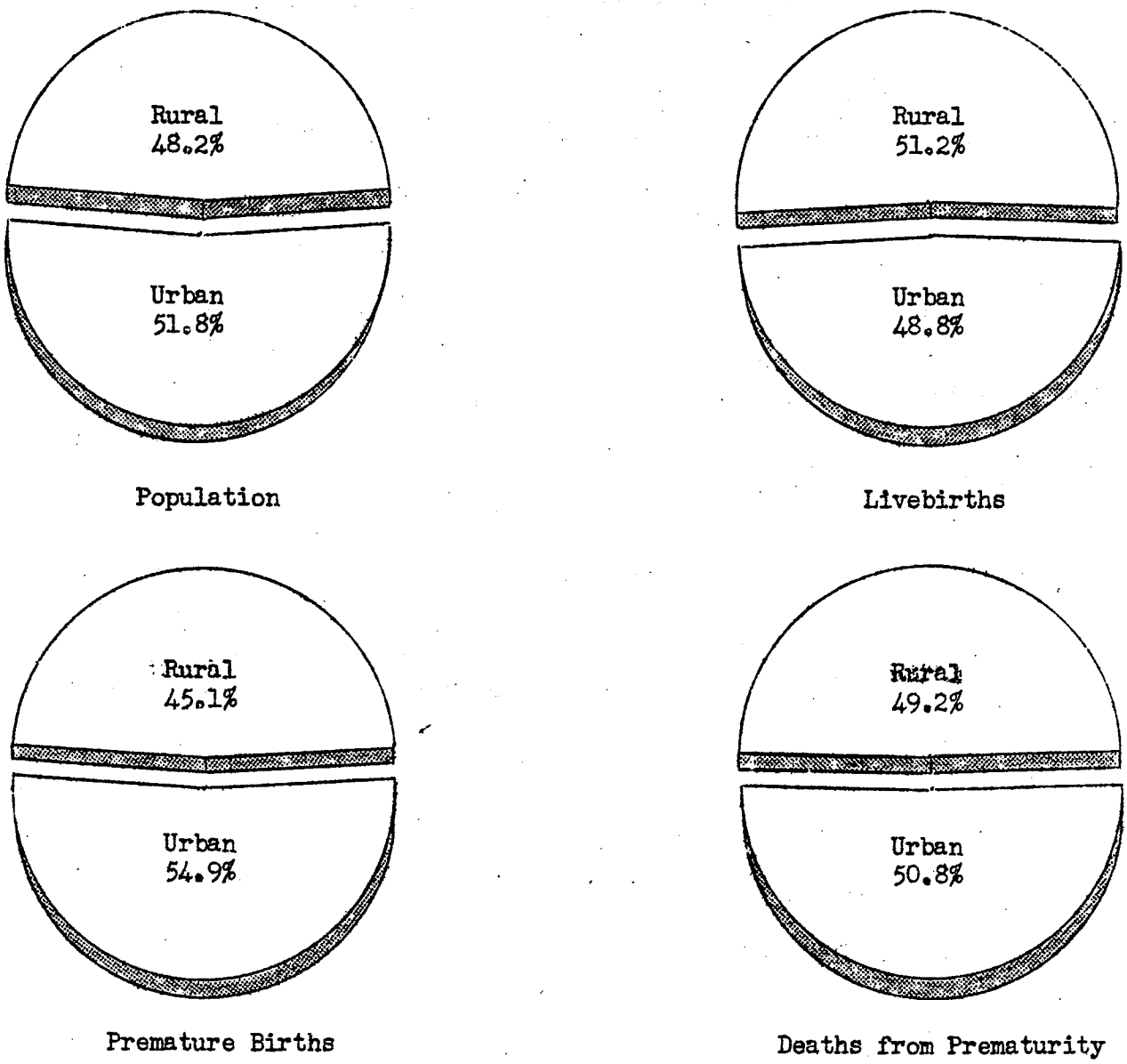
TEN-YEAR TREND OF BIRTH AND DEATH RATES PER 1,000 ESTIMATED POPULATION, IN THE STATE OF WASHINGTON, BY RESIDENCE, 1937 - 1946



	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946
Birth Rate	14.7	15.6	15.3	16.0	17.0	20.4	22.3	22.3	21.8	25.3
Death Rate	11.1	10.8	10.7	11.4	10.6	10.6	11.1	10.6	10.5	10.5

FIGURE 2

RURAL AND URBAN ESTIMATED POPULATION, LIVEBIRTHS, PREMATURE BIRTHS, AND DEATHS FROM PREMATURITY, IN THE STATE OF WASHINGTON, BY RESIDENCE, WITH PERCENTAGES, 1946



1946	Population		Livebirths		Premature Births		Deaths from prematurity	
	Number	%	Number	%	Number	%	Number	%
Rural	987,500	48.2	26,602	51.2	1,661	45.1	330	49.2
Urban	1,062,600	51.8	25,339	48.8	2,020	54.9	341	50.8
Total	2,050,100	100.0	51,941	100.0	3,681	100.0	671	100.0

TABLE II

LIVE BIRTHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 1,000 ESTIMATED POPULATION, ALLOCATED TO RESIDENCE OF MOTHER AND BY PLACE OF OCCURRENCE, 1946

County or City	Residence		Occurrence	
	No.	Rate	No.	Rate
Adams	117	19.5	102	17.0
Asotin	129	15.5	5	0.6
Benton	752	21.5	460	13.1
Chelan	940	25.8	1,080	29.6
Rural	573	23.9	138	5.8
Wenatchee	367	29.4	942	75.4
Clallam	561	25.5	534	24.3
Rural	259	21.9	29	2.4
Port Angeles	302	29.6	505	49.5
Clark	2,143	25.2	2,177	25.6
Rural	1,503	32.4	245	5.3
Vancouver	640	16.6	1,932	50.1
Columbia	106	19.3	113	20.5
Cowlitz	1,132	23.6	1,228	25.6
Rural	701	21.4	91	2.8
Longview	431	28.4	1,137	74.8
Douglas	181	21.3	5	0.6
Ferry	80	19.0	2	0.5
Franklin	279	23.2	580	48.3
Garfield	48	15.5	11	3.5
Grant	336	25.8	168	12.9
Grays Harbor	1,127	22.5	1,123	22.5
Rural	447	22.8	149	7.6
Aberdeen	458	24.2	974	51.5
Hoquiam	222	19.3	0	0.0
Island	173	23.7	212	29.0
Jefferson	225	25.0	206	22.9
King	16,631	26.6	17,181	27.5
Rural	6,094	39.3	2,235	14.4
Seattle	10,537	22.4	14,946	31.8
Kitsap	2,814	31.1	2,583	28.6
Rural	1,378	52.2	38	1.4
Bremerton	1,436	22.4	2,545	39.8
Kittitas	442	20.6	468	21.8
Klickitat	225	20.4	137	12.4
Lewis	976	23.1	1,024	24.3
Lincoln	227	20.6	72	6.5
Mason	303	22.4	265	19.6
Okanogan	662	24.5	819	30.3
Pacific	304	22.3	227	15.1
Pend Oreille	143	20.4	174	24.8
Pierce	5,508	27.3	6,027	29.9
Rural	1,992	30.8	922	14.2
Tacoma	3,516	25.7	5,105	37.3
San Juan	53	16.6	13	4.1
Skagit	867	20.6	889	21.1

TABLE II (Continued)

LIVE BIRTHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 1,000 ESTIMATED POPULATION, ALLOCATED TO RESIDENCE OF MOTHER AND BY PLACE OF OCCURRENCE, 1946

County or City	Residence		Occurrence	
	No.	Rate	No.	Rate
Skamania	73	16.2	3	0.7
Snohomish	2,249	23.8	2,025	21.4
Rural	1,334	22.4	356	6.0
Everett	915	26.1	1,664	47.7
Spokane	4,668	24.4	5,405	28.2
Rural	1,028	21.6	146	3.1
Spokane	3,640	25.3	5,259	36.5
Stevens	361	20.0	342	19.0
Thurston	948	24.0	851	21.5
Rural	531	22.6	44	1.9
Olympia	417	26.1	807	50.4
Wahkiakum	73	18.2	0	0.0
Walla Walla	834	26.0	1,058	33.0
Rural	285	37.5	2	0.3
Walla Walla	549	22.4	1,056	43.1
Whatcom	1,421	23.3	1,473	24.1
Rural	586	20.1	67	2.3
Bellingham	835	26.2	1,406	44.2
Whitman	599	20.6	506	17.4
Yakima	3,231	28.8	3,224	28.8
Rural	2,157	27.4	655	8.3
Yakima	1,074	32.2	2,569	76.9
URBAN TOTAL	25,339	23.8	40,852	38.4
RURAL TOTAL	26,602	26.9	11,920	12.1
GRAND TOTAL	51,941	25.3	52,772	25.7

centages of births actually occurring in urban and rural areas: 77.4 percent of all recorded births occurred in urban areas with only 22.6 percent occurring in rural areas.

Livebirths by age of mother[1]

Sixty-four percent of infants born in the State of Washington during 1946 were born to mothers between 20 and 30 years of age. Less than one percent of all infants were born to mothers 45 years of age or older. Moreover, only 13 of a total of 51,941 infants were born to mothers under 15 years of age. More than one-third (34.6%) of all infants were born to mothers 20 to 25 years of age. The generally accepted child-bearing ages (15 to 49 years) of mothers accounted for approximately 99.9 percent of all infants born in the state during 1946.

Livebirths by age of father[2]

The ages of the fathers of the 51,941 infants born to mothers who resided in the State of Washington in 1946 extended from the under 15-year age group to the 60-year-and-over age group. Less than one percent of the mothers of these infants were in the age group 45 years and over whereas 3.4 percent of the fathers of the infants were in this age group.

Fathers of 31.2 percent of the infants were in the age group 25 to 29 years, 22.8 percent were in the age group 30 to 34 years, and 20.0 percent were in the age group 20 to 24 years. The fathers of approximately three-fourths of the infants were between the ages of 20 and 35 years.

Births by attendant[3]

Of the 51,941 livebirths, 97.0 percent, or 50,407, were attended by doctors of medicine; 2.7 percent, or 1,385, by osteopathic physicians; the remaining 0.3 percent were attended by sanipractors, midwives, and others. These percentages compare very favorably with the most recent statistics (1940) for the United States Registration Area. Published reports of the National Office of Vital Statistics show that 93.5 percent of the livebirths in the United States were attended by physicians, 6.1 percent by midwives, and 0.3 percent by other and not specified attendants.

Multiple births[4]

It is noted that 588 mothers gave birth to twins, three mothers gave birth to triplets, and one mother gave birth to quadruplets. On the basis of these figures it might be expected that one out of every one hundred pregnancies will result in a multiple birth.

Premature births[5]

Of the 51,941 livebirths, 3,681 had a gestation period of 8 months or less. This represents a rate of 70.9 per 1,000 livebirths. This method of determining prematurity has been used rather than the weight and length criteria due to the inadequacy of the reporting of this information on the birth certificate.

1 See Table III.
2 See Table IV.
3 See Table VI.
4 See Table VII.
5 See Tables VIII and IX, Figure 4.

Cont. P. 19

TABLE I. LIVEBIRTHS IN THE COUNTIES AND MAJOR CITIES THE STATE OF WASHINGTON, BY AGE OF MOTHER, AND BY SEX OF CHILD, ALLOCATED TO RESIDENCE OF THE MOTHER, 1946

County or City	Under 15		15-19		20-24		25-29		30-34		35-39		40-44		45 & Over		Unknown		Total	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Adams			6	3	19	18	15	17	12	16	3	3	3	1		1			58	59
Asotin			4	9	23	23	19	18	12	8	5	6	1	1					64	65
Benton			37	36	121	112	96	110	63	88	33	40	6	8	1	1			357	395
Chelan			50	47	174	175	127	118	74	69	49	40	7	7	1	1	1		483	457
Rural			30	32	100	108	77	69	48	35	38	24	4	5	1	1	1		299	274
Wenatchee			20	15	74	67	50	49	26	34	11	16	3	2					184	183
Clallam			38	37	106	84	66	79	52	52	16	18	9	4					287	274
Rural			17	15	41	35	35	38	22	28	11	12	4	1					130	129
Port Angeles			21	22	65	49	31	41	30	24	5	6	5	3					157	145
Clark			104	76	374	348	315	326	185	189	100	81	21	19	1	3		1	1100	1043
Rural			76	62	272	234	221	227	116	135	73	54	17	13	1	2			776	727
Vancouver			28	14	102	114	94	99	69	54	27	27	4	6		1		1	324	316
Columbia		1	4	5	22	21	16	14	5	7	5	4	2						54	52
Cowlitz			81	50	200	211	157	166	88	83	42	39	8	6	1				577	555
Rural			59	34	132	127	80	107	52	45	25	29	8	2	1				357	344
Longview			22	16	68	84	77	59	36	38	17	10		4					220	211
Douglas			11	8	37	26	32	19	11	13	11	5	1	5	1		1		105	76
Ferry			2	10	14	13	12	11	6	5	4	3							38	42
Franklin			16	20	49	51	39	47	21	18	7	7	1	1	1		1		135	144
Garfield				4	8	9	4	5	3	9	2	2	2						19	29
Grant			9	11	71	49	59	40	38	27	15	10		7					192	144
Grays Harbor			64	64	210	181	160	147	94	94	50	48	6	8	1				585	542
Rural			33	31	70	74	67	54	39	32	17	24	3	3					229	218
Aberdeen			19	26	91	70	64	57	32	47	26	20	2	4					234	224
Hoquiam			12	7	49	37	29	36	23	15	7	4	1	1	1				122	100
Island			12	4	32	30	22	25	19	13	5	10			1				91	82
Jefferson			13	14	37	40	29	30	23	17	10	8	3	1					115	110
King	2	3	634	572	2903	2768	2711	2426	1571	1451	644	650	130	144	8	10	2	2	8605	8026
Rural	1		239	226	1066	1004	980	896	544	577	236	200	52	65	5	3			3123	2971
Seattle	1	3	395	346	1837	1764	1731	1530	1027	874	408	450	78	79	3	7	2	2	5482	5055
Kitsap			164	125	525	477	402	385	248	219	124	101	23	18		3			1486	1328
Rural			75	59	250	213	189	200	129	110	63	58	16	14		2			722	656
Bremerton			89	66	275	264	213	185	119	109	61	43	7	4		1			764	672
Kittitas			27	24	93	72	55	57	43	34	16	14	4	3					238	204
Klickitat			11	9	42	33	35	27	19	18	12	12		6	1				120	105
Lewis			81	54	179	162	131	135	68	67	36	35	13	12	1	1		1	509	467
Lincoln			8	5	43	34	39	28	26	17	12	10	4	1					132	95

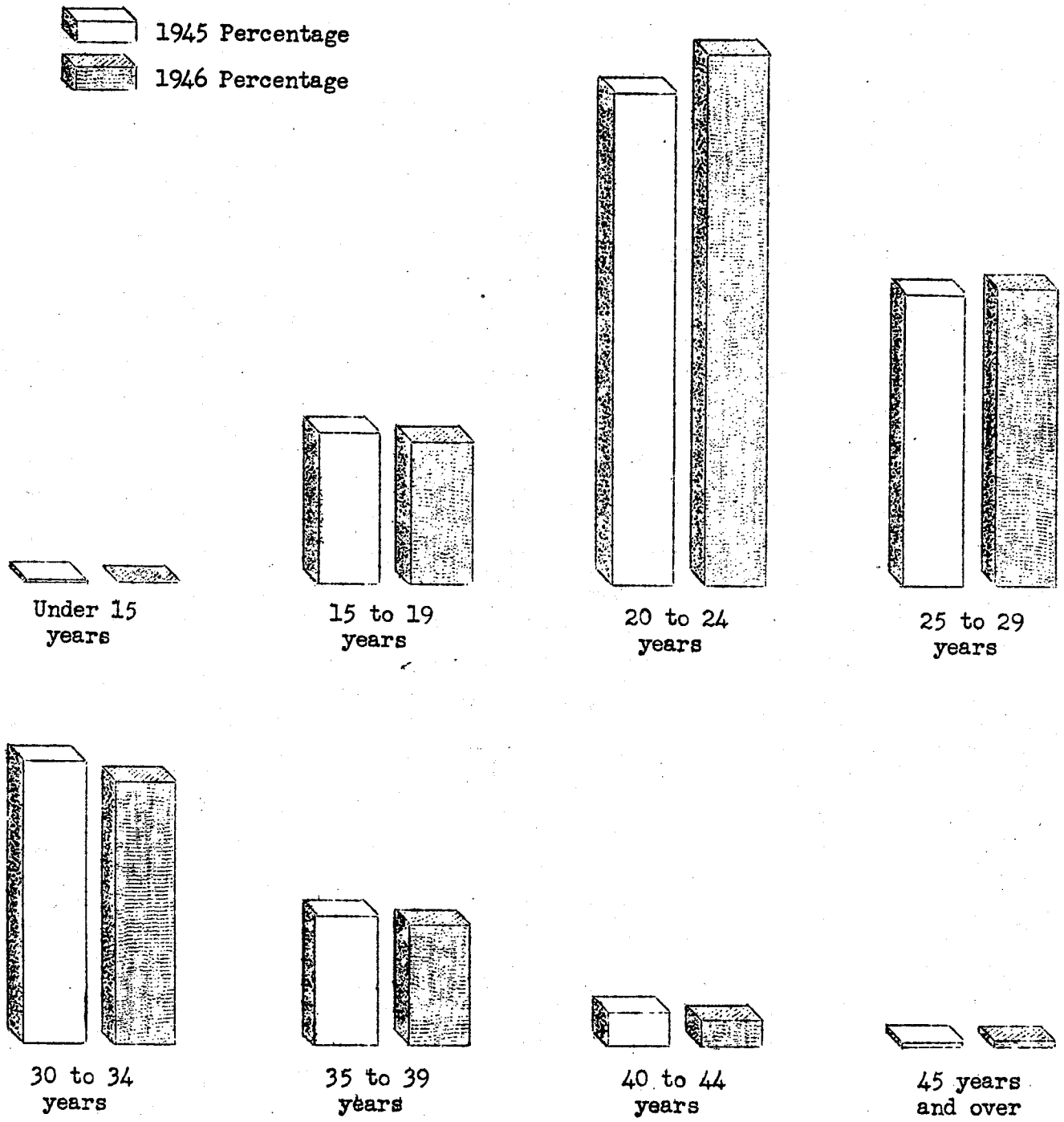
TABLE 11f (Continued)

LIVEBIRTHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE OF MOTHER, AND BY SEX OF CHILD, ALLOCATED TO RESIDENCE OF THE MOTHER, 1946

County or City	Under 15		15-19		20-24		25-29		30-34		35-39		40-44		45 & Over		Unknown		Total	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Mason		1	21	13	64	56	44	36	18	14	12	15	5	2	1	1			165	138
Okanogan		1	33	43	113	120	86	100	57	46	23	21	8	5	3	2		1	323	339
Pacific			23	14	51	53	41	47	21	25	17	6	2	1	2			1	157	147
Pend Oreille			9	8	21	21	21	21	10	13	13	2	2	1				1	76	67
Pierce	2		283	266	966	934	858	825	461	432	189	205	40	43	3	1			2802	2706
Rural	2		103	96	349	297	318	290	179	161	76	76	18	25	2				1047	945
Tacoma			180	170	617	637	540	535	282	271	113	129	22	18	1	1			1755	1761
San Juan			1	6	8	12	8	9	3	2	1	1		2					21	32
Skagit			63	41	160	151	121	114	72	69	33	25	3	10	1	3		1	453	414
Skamania			7	3	6	8	13	11	9	6	5	2	1	2					41	32
Snohomish			123	98	408	383	336	295	191	193	81	88	20	29		2	2		1161	1088
Rural			69	61	239	223	205	164	126	118	45	53	12	16		1	2		698	636
Everett			54	37	169	160	131	131	65	75	36	35	8	13		1			463	452
Spokane			198	184	826	801	719	706	399	378	191	183	43	39		1			2376	2292
Rural			42	36	180	174	151	140	91	87	53	51	7	16					524	504
Spokane			156	148	646	627	568	566	308	291	138	132	36	23		1			1852	1788
Stevens		1	20	14	70	49	55	50	25	26	17	19	10	4		1			197	164
Thurston			53	51	155	163	137	110	93	85	43	38	12	8					493	455
Rural			30	35	88	92	74	55	56	37	24	26	9	5					281	250
Olympia			23	16	67	71	63	55	37	48	19	12	3	3					212	205
Wahkiakum			4	4	14	7	10	13	6	6	4	2	1	2					39	34
Walla Walla			43	39	153	139	113	128	72	76	35	23	8	4		1			424	410
Rural			15	14	49	44	41	49	22	20	14	8	5	3		1			146	139
Walla Walla			28	25	104	95	72	79	50	56	21	15	3	1					278	271
Whatcom			54	55	255	242	240	202	118	110	55	61	16	8		5			738	683
Rural			29	21	105	82	87	90	40	60	23	31	12	1		5			296	290
Bellingham			25	34	150	160	153	112	78	50	32	30	4	7					442	393
Whitman	1		27	28	105	109	89	96	40	52	26	21	1	3		1			289	310
Yakima	1		249	170	584	546	470	397	240	220	150	130	36	28	2	5	2	1	1734	1497
Rural			165	111	383	373	315	261	155	133	112	93	25	24	2	2	2	1	1159	998
Yakima	1		84	59	201	173	155	136	85	87	38	37	11	4		3			575	499
URBAN TOTAL	2	3	1156	1001	4515	4372	3971	3670	2267	2073	959	966	187	172	5	15	2	3	13064	12275
RURAL TOTAL	4	4	1431	1223	4726	4359	3931	3720	2249	2194	1137	1022	265	271	25	28	7	6	13775	12827
GRAND TOTAL	6	7	2587	2224	9241	8731	7902	7390	4516	4267	2096	1988	452	443	30	43	9	9	26839	25102

FIGURE 3

LIVEBIRTHS IN THE STATE OF WASHINGTON, BY PERCENTAGE MOTHERS' AGE GROUP IS OF THE TOTAL, BY RESIDENCE, 1945 AND 1946



	Under 15 yrs.	15-19 yrs	20-24 yrs	25-29 yrs	30-34 yrs	35-39 yrs	40-44 yrs	45 yrs & over
1945	0.04%	9.66%	32.13%	29.23%	18.41%	8.36%	2.03%	0.13%
1946	0.02%	9.27%	34.61%	29.45%	16.92%	7.86%	1.72%	0.14%

TA. IV

LIVEBIRTHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE OF FATHER, ALLOCATED TO RESIDENCE OF MOTHER, 1946

County or City	Under 15 yrs.	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60 and over	Un-known	Total
Adams		1	22	30	31	17	9	4	1			2	117
Asotin		3	26	37	29	15	10	5				4	129
Benton		15	131	194	216	109	50	18	7	3		9	752
Chelan													
Rural		6	132	157	116	76	42	18	9	2		15	573
Wenatchee		4	85	113	84	47	17	9	3		1	4	367
Clallam													
Rural		6	48	68	64	40	18	7	1	1	1	5	259
Port Angeles		9	76	89	66	30	16	9	1	1	1	4	302
Clark													
Rural		23	286	436	387	195	111	35	11	3	2	14	1,503
Vancouver		6	106	211	153	87	41	20	4			12	640
Columbia	1	2	28	31	24	12	4	1	2			1	106
Cowlitz													
Rural		12	147	203	159	98	46	20	4	1	2	9	701
Longview		15	96	129	99	63	21	6	2				431
Douglas		1	37	53	43	31	7	7	1		1		181
Ferry		2	13	27	16	16	3	2				1	80
Franklin		3	63	95	54	34	10	7	2			11	279
Garfield			8	16	12	6	5	1					48
Grant		2	51	90	98	54	21	9	2	1	1	7	336
Grays Harbor													
Rural		9	87	124	108	58	26	17	6	2	1	9	447
Aberdeen		9	105	127	104	63	35	7	2			6	458
Hoquiam		4	49	79	44	26	7	6	2	2		3	222
Island		2	38	63	27	21	11	6	1			4	173
Jefferson		5	45	66	50	37	14	5	1	2			225
King													
Rural		92	1,121	1,929	1,502	859	316	131	40	11	5	88	6,094
Seattle		86	2,099	3,347	2,419	1,390	580	221	52	25	6	312	10,537
Kitsap													
Rural		23	263	401	323	212	85	29	16	1	2	23	1,378
Bremerton		23	369	432	306	182	74	18	3	3		26	1,436
Kittitas		5	87	142	94	64	26	12	6	2		4	442
Klickitat		2	36	71	51	35	15	8	3	3		1	225
Lewis		13	196	304	232	125	49	20	19	4	3	11	976

TABLE IV (Continued)

LIVEBIRTHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE OF FATHER, ALLOCATED TO RESIDENCE OF MOTHER, 1946

County or City	Under 15 yrs.	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60 and over	Un-known	Total
Lincoln		2	37	67	58	45	9	5	1		2	1	227
Mason		5	66	90	70	29	27	10	3	1		2	303
Okanogan		6	144	195	148	84	42	25	8		1	9	662
Pacific		5	50	98	64	42	23	12	3	3	1	3	304
Pend Oreille			27	31	39	20	13	6	1	1	2	3	143
Pierce													
Rural		27	381	622	451	291	102	50	20	6	3	39	1,992
Tacoma		69	703	1,218	759	408	161	64	17	3	1	113	3,516
San Juan		1	12	18	10	5	3	1	2			1	53
Skagit		14	210	267	190	114	33	11	7	4	2	15	867
Skamania		1	12	16	18	11	9	5		1			73
Snohomish													
Rural		19	280	391	291	182	89	37	9	5	4	27	1,334
Everett		15	196	295	176	120	64	16	3	1	2	27	915
Spokane													
Rural		11	172	291	254	156	66	37	16	4	3	18	1,028
Spokane		40	752	1,178	836	404	214	76	25	3	3	109	3,640
Stevens		1	70	90	80	64	30	11	7		4	4	361
Thurston													
Rural		11	116	144	96	90	40	20	3	2		9	531
Olympia		7	90	138	98	55	17	4	3			5	417
Wahkiakum		1	10	24	15	11	8		2	1	1		73
Walla Walla													
Rural		4	59	88	66	35	15	11	3	1		3	285
Walla Walla		6	108	190	123	78	20	6	3	1		14	549
Whatcom													
Rural		7	114	180	128	83	42	15	11		1	5	586
Bellingham		4	175	290	183	103	40	16	2	3	1	18	835
Whitman		13	107	226	123	83	24	11	5	2		5	599
Yakima													
Rural		63	442	640	446	280	142	74	27	13	2	28	2,157
Yakima		26	235	330	224	132	58	32	8	1	1	27	1,074
URBAN TOTAL		323	5,244	8,166	5,674	3,188	1,365	510	130	43	16	680	25,339
RURAL TOTAL	1	418	5,174	8,015	6,183	3,739	1,595	703	260	80	44	390	26,602
GRAND TOTAL	1	741	10,418	16,181	11,857	6,927	2,960	1,213	390	123	60	1,070	51,941

TABLE V

A STUDY OF MOTHERS GIVING BIRTH TO INFANTS IN THE STATE OF WASHINGTON DURING 1946 ARRANGED BY NUMBER OF BIRTHS (INCLUDING STILLBIRTHS) TO EACH MOTHER, ALLOCATED TO COUNTY AND CITY OF MOTHER'S RESIDENCE

County or City	One	Two	Three	Four	Five	Six	Sev-en	Ei-ght	Nine	Ten & Over	Not Sta-ted	Total
Adams	40	43	15	11	2	1	2	1	1	1		117
Asotin	47	41	26	7	3	3				2		129
Benton	236	211	152	70	34	13	8	8	6	10	4	752
Chelan												
Rural	195	158	84	56	31	11	8	12	8	10		573
Wenatchee	159	116	44	24	12	5	1	4	1		1	367
Clallam												
Rural	77	70	43	33	17	8	5	1	1	3	1	259
Port Angeles	135	99	29	19	8	8	1			3		302
Clark												
Rural	483	437	287	133	71	44	22	9	4	12	1	1,503
Vancouver	260	204	104	37	20	5	5	2		3		640
Columbia	44	35	12	6	4	3	1	1				106
Cowlitz												
Rural	254	192	108	67	37	16	13	3	5	6		701
Longview	183	150	56	19	12	6	4			1		431
Douglas	59	52	37	11	12	4	3	1		2		181
Ferry	22	25	9	15	3	1	1	1	2	1		80
Franklin	109	88	38	25	7	2	2	2	3	1	2	279
Garfield	16	19	7	2	3					1		48
Grant	100	111	64	31	13	10	4			3		336
Grays Harbor												
Rural	131	126	80	51	23	17	7	5	4	2	1	447
Aberdeen	195	149	55	33	12	11	3					458
Hoquiam	97	57	42	16	4	1	2	3				222
Island	62	55	29	11	6	4	2	2		2		173
Jefferson	82	66	38	14	7	7	4	2	1	3	1	225
King												
Rural	2,217	2,001	1,027	457	172	88	56	29	9	24	14	6,094
Seattle	4,731	3,440	1,419	551	227	85	35	21	10	18		10,537
Kitsap												
Rural	456	391	267	132	59	30	18	9	7	8	1	1,378
Bremerton	621	446	214	88	23	18	14	4	3	4	1	1,436
Kittitas	167	128	68	34	19	14	6	4	1	1		442
Klickitat	73	69	33	22	8	4	4	4	5	3		225
Lewis	327	309	156	86	43	20	9	10	4	8	4	976
Lincoln	75	65	46	20	9	9	2	1				227
Mason	112	85	54	26	6	5	8	4	3			303
Okanogan	221	188	109	63	27	16	9	9	8	10	2	662
Pacific	113	87	52	22	9	11	4	4	1	1		304
Pend Oreille	43	43	19	18	6	6	4	1	1	2		143
Pierce												
Rural	694	610	362	143	79	40	23	17	10	12	2	1,992
Tacoma	1,481	1,121	541	182	94	50	20	12	6	9		3,516
San Juan	22	17	9			1	1		1	1		53

TABLE V (Continued)

STUDY OF MOTHERS GIVING BIRTH TO INFANTS IN THE STATE OF WASHINGTON DURING 1946, ARRANGED BY NUMBER OF BIRTHS (INCLUDING STILLBIRTHS) TO EACH MOTHER, ALLOCATED TO COUNTY AND CITY OF MOTHER'S RESIDENCE

County or City	One	Two	Three	Four	Five	Six	Seven	Eight	Nine	Ten & Over	Not Stated	Total
Skagit	349	244	145	64	30	17	5	5	5	2	1	867
Skamania	18	22	8	15	5	2	2			1		73
Snohomish												
Rural	437	411	241	100	64	29	15	14	9	12	2	1,334
Everett	388	270	135	55	28	19	8	7	1	3	1	915
Spokane												
Rural	341	289	179	115	42	29	13	11	4	5		1,028
Spokane	1,547	1,136	533	218	89	56	30	11	6	14		3,640
Stevens	109	78	70	45	22	10	11	9	1	5	1	361
Thurston												
Rural	191	161	71	45	28	12	9	6	3	5		531
Olympia	179	146	60	17	7	5	2	1				417
Wahkiakum	21	22	16	6	7			1				73
Walla Walla												
Rural	104	88	43	27	9	9	3		1		1	285
Walla Walla	235	168	83	34	14	7	3	2	1	2		549
atcom												
Rural	165	150	123	63	40	19	10	6	3	7		586
Bellingham	349	258	121	62	31	8	1	3		1	1	835
Whitman	261	175	94	39	9	12	4		3	2		599
Yakima												
Rural	647	549	383	230	115	75	42	35	28	50	3	2,157
Yakima	436	290	174	68	46	24	15	8	5	8		1,074
URBAN TOTAL	10,996	8,050	3,610	1,423	627	308	144	78	33	66	4	25,339
RURAL TOTAL	9,120	7,911	4,604	2,316	1,081	602	340	227	142	218	41	26,602
GRAND TOTAL	20,116	15,961	8,214	3,739	1,708	910	484	305	175	284	45	51,941

TABLE VI

LIVEBIRTHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY PERSON IN ATTENDANCE, ALLOCATED TO RESIDENCE OF MOTHER, 1946

County or City	Physician	Midwife	Osteopath	Sanipractor	Emergency (taxi driver etc)	Other	Not Stated	Total
Adams	116			1				117
Asotin	125			3		1		129
Benton	747		4		1			752
Chelan								940
Rural	569		3			1		573
Wenatchee	366		1					367
Clallam								561
Rural	232		24		3			259
Port Angeles	302							302
Clark								2,143
Rural	1,498		3		1	1		1,503
Vancouver	638		2					640
Columbia	106							106
Cowlitz								1,132
Rural	662		39					701
Longview	425		6					431
Douglas	180		1					181
Ferry	78		2					80
Franklin	279							279
Garfield	48							48
Grant	333		2			1		336
Grays Harbor								1,127
Rural	443				2	2		447
Aberdeen	455		2		1			458
Hoquiam	222							222
Island	172		1					173
Jefferson	224				1			225
King								16,631
Rural	5,838		245		5	6		6,094
Seattle	10,155	1	376		2	3		10,537
Kitsap								2,814
Rural	1,357	1	10		4	6		1,378
Bremerton	1,432		3			1		1,436
Kittitas	439		2		1			442
Klickitat	221					4		225
Lewis	970		5			1		976
Lincoln	224		2	1				227
Mason	303							303
Okanogan	549		105		1	7		662
Pacific	304							304
Pend Oreille	143							143
Pierce								5,508
Rural	1,976		12		2	2		1,992
Tacoma	3,503		10		1	1	1	3,516
San Juan	52				1			53
Skagit	863				1	3		867

TABLE VI (Continued)

LIVEBIRTHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY PERSON IN ATTENDANCE, ALLOCATED TO RESIDENCE OF MOTHER, 1946

County or City	Physician	Midwife	Osteopath	Sanipractor	Emergency (taxi driver etc)	Other	Not Stated	Total
Skamania	72				1			73
Snohomish								
Rural	1,311		19	1	2	1		2,249
Everett	903		12					1,334
Spokane								915
Rural	1,014		2	7	3	2		4,668
Spokane	3,611		3	20	3	3		1,028
Stevens	353		2		3	3		3,640
Thurston								361
Rural	491		37		2	1		948
Olympia	400		17					531
Wahkiakum	73							417
Walla Walla								73
Rural	284					1		834
Walla Walla	549							285
Whatcom								549
Rural	582		2		2			1,421
Bellingham	834		1					586
Whitman	584		14		1			835
Yakima								599
Rural	1,903		237		11	6		3,231
Yakima	894		179			1		2,157
								1,074
URBAN TOTAL	24,689	1	612	20	7	9	1	25,339
RURAL TOTAL	25,718	1	773	13	48	49	0	26,602
GRAND TOTAL	50,407	2	1,385	33	55	58	1	51,941
Percent of Total	97.0	*	2.7	0.1	0.1	0.1	*	100.0

* Less than 0.1%

TABLE VII

NUMBER OF MOTHERS, BY RACE, HAVING MULTIPLE BIRTHS (TWINS, TRIPLETS, ETC.) IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY RESIDENCE OF MOTHER, 1946

County or City	Totals	White	Negro	Indian	Chinese	Japanese	Other
Adams	0						
Asotin	2	2					
Benton	15	15					
Chelan							
Rural	5*	5*					
Wenatchee	3	3					
Clallam							
Rural	2	2					
Port Angeles	4	4					
Clark							
Rural	19	18	1				
Vancouver	4	4					
Columbia	1	1					
Cowlitz							
Rural	5	5					
Longview	3**	3**					
Douglas	3	3					
Ferry	0						
Franklin	5	5					
Garfield	2	2					
Grant	4	4					
Grays Harbor							
Rural	4	4					
Aberdeen	4	4					
Hoquiam	1	1					
Island	1	1					
Jefferson	4	4					
King							
Rural	83	82		1			
Seattle	137*	127*	6		1	2	1
Kitsap							
Rural	19	18	1				
Bremerton	19	18	1				
Kittitas	7	7					
Klickitat	1			1			
Lewis	9	8	1				
Lincoln	3	3					
Mason	2	2					
Okanogan	3	3					
Pacific	1	1					
Pend Oreille	1	1					
Pierce							
Rural	21	21					
Tacoma	49	46	2	1			
San Juan	0						
Skagit	11	11					

TABLE VII (Continued)

NUMBER OF MOTHERS, BY RACE, HAVING MULTIPLE BIRTHS (TWINS, TRIPLETS, ETC.) IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY RESIDENCE OF MOTHER, 1946

County or City	Totals	White	Negro	Indian	Chinese	Japanese	Other
Skamania	0	0					
Snohomish							
Rural	9	9					
Everett	15	15					
Spokane							
Rural	8	8					
Spokane	41	40			1		
Stevens	2	2					
Thurston							
Rural	1	1					
Olympia	4	4					
Wahkiakum	0						
Walla Walla							
Rural	1*	1*					
Walla Walla	3	3					
Whatcom							
Rural	9	9					
Bellingham	8	8					
Whitman	4	4					
Yakima							
Rural	21	21					
Yakima	9	8	1				
URBAN TOTAL	304	288	10	1	2	2	1
RURAL TOTAL	288	283	3	2	0	0	0
GRAND TOTAL	592	571	13	3	2	2	1

* Includes one set of triplets
** Includes one set of quadruplets

Urban centers of 10,000 or more population with a rate of 79.7 premature births per 1,000 livebirths had a higher rate than the rural areas which had a prematurity rate of 62.4. The City of Tacoma had the highest rate, 111.8 premature births per ,000 livebirths; Wenatchee, with a rate of 19.1, had the lowest.

Of the 3,681 premature births to mothers residing in the State of Washington 3,625, or 98.5 percent, were attended by doctors of medicine; 47, or 1.3 percent, by osteopathic physicians; 2, or 0.1 percent, by sanipractors; 3, or 0.1 percent, were emergency deliveries; and 3, or 0.1 percent, were attended by other persons. Thus, 3,675 of these births, or 99.8 percent, were attended by persons having training in obstetrics.

It is further observed that 1,239, or 33.7 percent, of the premature births were to women between the ages of 20 and 24 years; 1,029, or 28.0 percent, were between the ages of 25 and 29 years; 613, or 16.7 percent, were between the ages of 30 and 34 years; and 397, or 10.8 percent, were between the ages of 15 and 19 years.

Livebirths of illegitimate parentage[1]

During 1946 there were 1,290 livebirths of illegitimate parentage, or 24.8 per 1,000 livebirths. In other words, approximately one out of every 51 livebirths was in this group. This represents a two percent decrease from the rate of 25.3 for the year 1945. More births of illegitimate parentage were to mothers residing in cities of 10,000 or more population than to those living in rural areas. The urban rate was 31.7 compared with an 18.3 rural rate.

Of the 1,290 births in this classification to mothers who resided in the State of Washington 1,228, or 95.2 percent, were attended by doctors of medicine; 44, or 3.4 percent, by osteopaths; 10, or 0.8 percent, by sanipractors; 6, or 0.5 percent, were emergency deliveries; and 2, or 0.1 percent, were attended by other or not stated persons. Of these births 1,282, or 99.4 percent, were attended by persons having training in obstetrics.

In studying births of illegitimate parentage by age of the mothers, it is observed that 522, or 40.5 percent, of these births were to women in the age group 20 through 24 years; 432, or 33.5 percent, were to women in the age group of 15 through 19 years; and 203, or 15.7 percent, were to women in the age group of 25 through 29 years. It is further noted that 89.7 percent of these births were to women between the ages of 15 and 29 years.

Birth injuries[2]

For lack of definite statement of birth injury on a large number of certificates received by the public health statistics section, this office has hesitated to place an interpretation on the statistics presented in Table XII.

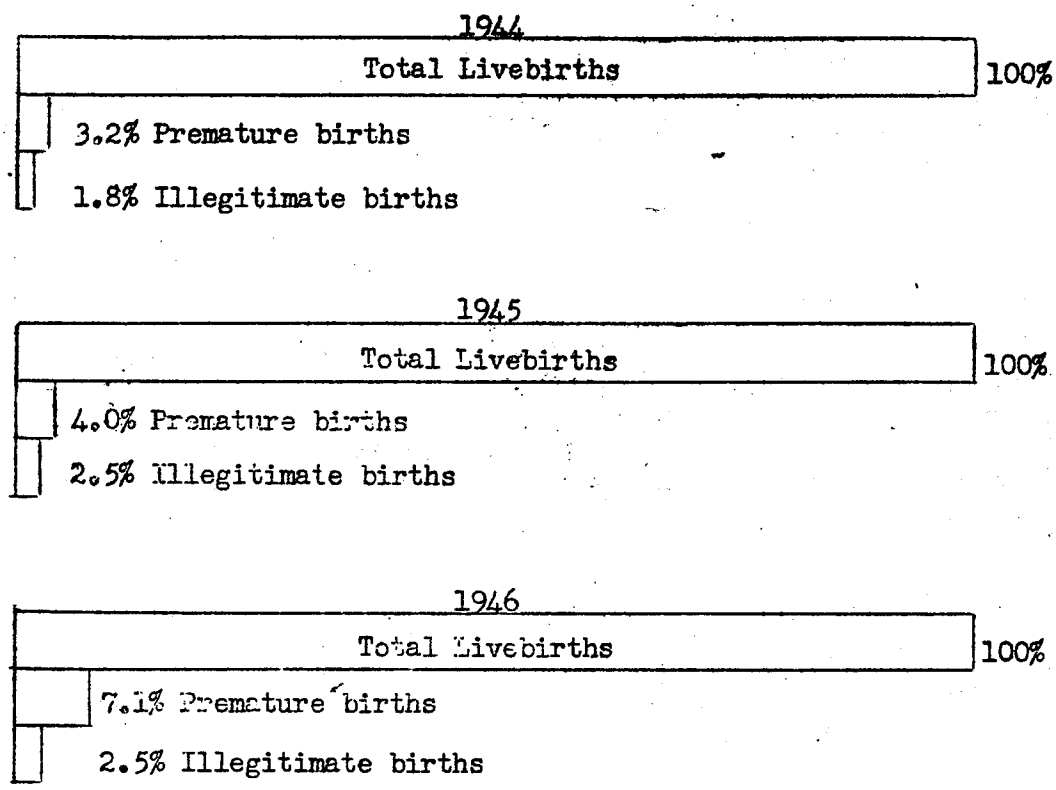
Congenital malformations[3]

Similarly, no interpretation has been given to Table XIII due to lack of adequate reporting of this item as it appears on the Standard Certificate of Livebirth. With the increased interest being shown in congenitally malformed children this item, if properly reported, would comprise one of the most worthwhile indices of the extent of crippling conditions of infants at birth.

1 See Tables X and XI.
2 See Table XII
3 See Table XIII.

FIGURE 4

NUMBER OF LIVEBIRTHS, PREMATURE BIRTHS, AND ILLEGITIMATE BIRTHS IN THE STATE OF WASHINGTON, BY RESIDENCE, WITH PERCENTAGES, 1944 - 1946



	1944		1945		1946	
	Number	%	Number	%	Number	%
Total Livebirths	44,246	100%	44,296	100%	51,941	100%
Premature births	1,395	3.2%	1,781	4.0%	3,681	7.1%
Illegitimate births	777	1.8%	1,121	2.5%	1,290	2.5%

TABLE VIII

PREMATURE BIRTHS, BY ATTENDANT, IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 1,000 LIVE BIRTHS, ALLOCATED TO RESIDENCE OF MOTHER, 1946

County or City	Physician	Midwife	Chiropractor	Osteopath	Sanipractor	Emergency	Other & not stated	Total	Rate
Adams	4							4	34.2
Asotin	3							3	23.2
Benton	56							56	74.5
Chelan	35							35	37.2
Rural	28							28	48.9
Wenatchee	7							7	19.1
Clallam	35			1				36	64.2
Rural	17			1				18	69.5
Port Angeles	18							18	59.6
Clark	139			1				140	65.3
Rural	101							101	67.2
Vancouver	38			1				39	60.9
Columbia	3							3	28.3
Cowlitz	46							46	40.6
Rural	30							30	42.8
Longview	16							16	37.1
Douglas	11			1				12	66.3
Ferry	2							2	25.0
Franklin	23							23	82.4
Garfield								0	0.0
Grant	16							16	47.6
Grays Harbor	96							96	85.2
Rural	33							33	73.8
Aberdeen	50							50	109.2
Hoquiam	13							13	58.6
Island	7							7	40.5
Jefferson	10							10	44.4
King	1,339			21				1,360	81.8
Rural	453			10				463	76.0
Seattle	886			11				897	85.1
Kitsap	145			1			1	147	52.2
Rural	72						1	73	53.0
Bremerton	73			1				74	51.5
Kittitas	32							32	72.4
Klickitat	13							13	57.8
Lewis	40							40	41.0
Lincoln	23							23	101.3
Mason	16						1	16	52.8
Okanogan	15			5				20	30.2
Pacific	10							10	32.9
Pend Oreille	8							8	55.9
Pierce	553					1		554	100.6
Rural	160					1		161	80.8
Tacoma	393							393	111.8
San Juan	1							1	18.9
Skagit	52							52	60.0

TABLE VIII (Continued)

PREMATURE BIRTHS, BY ATTENDANT, IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 1,000 LIVE BIRTHS, ALLOCATED TO RESIDENCE OF MOTHER, 1946

County or City	Physician	Midwife	Chiropractor	Osteopath	Sanipractor	Emergency	Other & not stated	Total	Rate
Skamania	2							2	27.4
Snohomish	152			1				153	68.0
Rural	88							88	66.0
Everett	64			1				65	71.0
Spokane	422			2	2	1	1	428	91.7
Rural	105			1			1	107	104.1
Spokane	317			1	2	1		321	88.2
Stevens	9						1	10	27.7
Thurston	38			1				39	41.1
Rural	15							15	28.2
Olympia	23			1				24	57.6
Wahkiakum	4							4	54.8
Walla Walla	40							40	48.0
Rural	12							12	42.1
Walla Walla	28							28	51.0
Whatcom	62							62	43.6
Rural	30							30	51.2
Bellingham	32							32	38.3
Whitman	44			1				45	75.1
Yakima	120			12		1		133	41.2
Rural	81			8		1		90	41.7
Yakima	39			4				43	40.0
URBAN TOTAL	1,997			20	2	1	0	2,020	79.7
RURAL TOTAL	1,629			27	0	2	3	1,661	62.4
GRAND TOTAL	3,626			47	2	3	3	3,681	70.9
Percent of Total	98.5			1.3	0.1	0.1	0.1	100.0	

TABLE IX

PREMATURE BIRTHS, BY AGE OF MOTHER, IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, ALLOCATED TO RESIDENCE OF MOTHER, 1946

County or City	Under 15 years	15-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45 and over	Totals
Adams		2		1			1		4
Asotin			1	1		1			3
Benton		5	15	14	14	7	1		56
Chelan									
Rural			11	8	2	6	1		28
Wenatchee		1	2	3	1				7
Clallam									
Rural		1	5	6	3	2	1		18
Port Angeles		5	6	2	5				18
Clark									
Rural		15	41	26	10	6	3		101
Vancouver			15	10	11	3			39
Columbia						3			3
Cowlitz									
Rural		6	7	12	3	2			30
Longview			7	3	4	2			16
Douglas		2	4		1	5			12
Ferry		1	1						2
Franklin			12	7	3	1			23
Garfield									0
Grant			9	6	1				16
Grays Harbor									
Rural		6	8	9	7	3			33
Aberdeen		4	13	17	8	7	1		50
Hoquiam		2	3	5	2	1			13
Island			5	1	1				7
Jefferson			6		3	1			10
King									
Rural		39	148	132	103	31	9	1	463
Seattle		80	267	275	158	90	26	1	897
Kitsap									
Rural		8	21	21	17	4	1	1	73
Bremerton		12	20	23	13	5	1		74
Kittitas		4	14	8	1	3	2		32
Klickitat		2	7	2	1	1			13
Lewis		6	19	11	2	2			40
Lincoln		2	8	8	3	2			23
Mason		2	8	5	1				16
Okanogan		1	8	5	4	2			20
Pacific		2	4	2	2				10
Pend Oreille		1	2	3	1		1		8
Pierce									
Rural		36	51	36	20	13	5		161
Tacoma		48	140	114	57	30	3	1	393
San Juan					1				1
Skagit		11	14	18	2	5	1	1	52

TABLE IX (Continued)

PREMATURE BIRTHS, BY AGE OF MOTHER, IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, ALLOCATED TO RESIDENCE OF MOTHER, 1946

County or City	Under 15 years	15-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45 and over	Totals
Skamania			2						2
Snohomish									
Rural		12	27	22	17	8	2		88
Everett		5	28	14	9	6	2	1	65
Spokane									
Rural		7	42	21	20	13	4		107
Spokane		27	125	91	49	23	6		321
Stevens		1	2	3		4			10
Thurston									
Rural		3	5	3	4				15
Olympia		3	8	3	7	2	1		24
Wahkiakum			1	1	1	1			4
Walla Walla									
Rural		2	3	3	3	1			12
Walla Walla		6	8	7	6	1			28
Whatcom									
Rural		3	11	11	5				30
Bellingham		4	17	6	4	1			32
Whitman		5	13	14	7	6			45
Yakima									
Rural		13	27	27	8	11	3	1	90
Yakima		2	18	9	8	6			43
URBAN TOTAL	0	199	677	582	342	177	40	3	2,020
RURAL TOTAL	0	198	562	447	271	144	35	4	1,661
GRAND TOTAL	0	397	1,239	1,029	613	321	75	7	3,681
Percent of Total	0.0	10.8	33.7	28.0	16.7	8.7	2.0	0.2	100.0

TABLE X

ILLEGITIMATE BIRTHS, BY ATTENDANT, IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 1,000 LIVE BIRTHS, ALLOCATED TO RESIDENCE OF MOTHER, 1946

County or City	Physician	Midwife	Chiropractor	Osteopath	Sanipractor	Emergency	Other & not stated	Total	Rate
Adams	2							2	17.1
Asotin	4							4	31.0
Benton	8							8	10.6
Chelan	22			1				23	24.5
Rural	16							16	27.9
Wenatchee	6			1				7	19.0
Clallam	9			2				11	19.6
Rural	4			2				6	23.2
Port Angeles	5							5	16.6
Clark	27					1		28	13.1
Rural	16					1		17	11.3
Vancouver	11							11	17.2
Columbia	3							3	28.3
Cowlitz	9			1				10	8.8
Rural	7			1				8	11.4
Longview	2							2	4.6
Douglas								0	0.0
Ferry	4							4	50.0
Franklin	9							9	32.2
Garfield								0	0.0
Grant	7							7	20.8
Grays Harbor	28							28	24.8
Rural	12							12	26.8
Aberdeen	12							12	26.2
Hoquiam	4							4	18.0
Island	4							4	23.1
Jefferson	1							1	4.4
King	447			19				466	28.0
Rural	103			8				111	18.2
Seattle	344			11				355	33.7
Kitsap	73			1				74	26.3
Rural	29							29	21.0
Bremerton	44			1				45	31.3
Kittitas	7							7	15.8
Klickitat	1						1	2	8.9
Lewis	12							12	12.3
Lincoln	1							1	4.4
Mason	5							5	16.5
Okanogan	11			2		1		14	21.1
Pacific	3							3	9.9
Pend Oreille	4							4	28.0
Pierce	158			1		2	1	162	29.4
Rural	40			1		1		42	21.1
Tacoma	118					1	1	120	34.1
San Juan	2							2	37.7
Skagit	21							21	24.2

TABLE X (Continued)

ILLEGITIMATE BIRTHS, BY ATTENDANT, IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 1,000 LIVE BIRTHS, ALLOCATED TO RESIDENCE OF MOTHER, 1946

County or City	Physi-cian	Mid-wife	Chiro-practor	Osteo-path	Sani-practor	Emer-gency	Other & not stated	Total	Rate
Skamania								0	0.0
Snohomish	54			1				55	24.4
Rural	30			1				31	23.2
Everett	24							24	26.2
Spokane	150			1	10	1		162	34.7
Rural	22				3			25	24.3
Spokane	128			1	7	1		137	37.6
Stevens	4					1		5	13.8
Thurston	15			3				18	19.0
Rural	10			2				12	22.6
Olympia	5			1				6	14.4
Wahkiakum								0	0.0
Walla Walla	22							22	26.4
Rural	4							4	14.0
Walla Walla	18							18	32.8
Whatcom	28			1				29	20.4
Rural	5			1				6	10.2
Bellingham	23							23	27.5
Whitman	11							11	18.4
Yakima	62			11				73	22.6
Rural	33			6				39	18.1
Yakima	29			5				34	31.6
URBAN TOTAL	773	0	0	20	7	2	1	803	31.7
RURAL TOTAL	455	0	0	24	3	4	1	487	18.3
GRAND TOTAL	1,228	0	0	44	10	6	2	1,290	24.8
Percent of Total	95.2	0.0	0.0	3.4	0.8	0.5	0.1	100.0	

TABLE XI

ILLEGITIMATE BIRTHS, BY AGE OF MOTHER, IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, ALLOCATED TO RESIDENCE OF MOTHER, 1946

County or City	Under 15 years	15-19	20-24	25-29	30-34	35-39	40-44	45 and over	Unknown age	Total
Adams		1			1					2
Asotin		3		1						4
Benton		4	4							8
Chelan										
Rural		7	8	1						16
Wenatchee		3	4							7
Clallam										
Rural		3	2						1	6
Port Angeles		2	3							5
Clark										
Rural		3	4	8	1	1				17
Vancouver		5	4	1					1	11
Columbia	1	1	1							3
Cowlitz										
Rural		3	4				1			8
Longview		1		1						2
Douglas										
Ferry		3		1						4
Franklin		3	4	2						9
Garfield										
Grant		1	5	1						7
Grays Harbor										
Rural		6	4		1	1				12
Aberdeen		1	7	4						12
Hoquiam		1	2			1				4
Island		2	2							4
Jefferson							1			1
King										
Rural		43	39	16	8	2	2		1	111
Seattle	3	92	154	63	27	12	4			355
Kitsap										
Rural		15	10	4						29
Bremerton		18	20	3	2	2				45
Kittitas		3	4							7
Klickitat				1	1					2
Lewis		5	7							12
Lincoln			1							1
Mason		2	1	1	1					5
Okanogan		6	5	1	2					14
Pacific		1	1	1						3
Pend Oreille		2	2							4
Pierce										
Rural	1	16	15	6	3			1		42
Tacoma		43	38	28	6	5				120
San Juan			2							2
Skagit		10	5	3	3					21

TABLE XI (Continued)

ILLEGITIMATE BIRTHS, BY AGE OF MOTHER, IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, ALLOCATED TO RESIDENCE OF MOTHER, 1946

County or City	Under 15 years	15-19	20-24	25-29	30-34	35-39	40-44	45 and over	Unknown age	Total
Skamania										
Snohomish										
Rural		15	12	3	1					31
Everett		11	10		3					24
Spokane										
Rural		6	14	3	2					25
Spokane		37	57	33	8	2				137
Stevens	1	2	1			1				5
Thurston										
Rural		6	4	1	1					12
Olympia		1	2	1	2					6
Wahkiakum										
Walla Walla										
Rural		1	2		1					4
Walla Walla		7	9		1	1				18
Whatcom										
Rural		3	2	1						6
Bellingham		7	11	1	1	2	1			23
Whitman	1	4	3	2	1					11
Yakima										
Rural		15	17	5	1	1				39
Yakima	1	8	16	6	3					34
URBAN TOTAL	4	237	337	141	53	25	5	0	1	803
RURAL TOTAL	4	195	185	62	28	6	4	1	2	487
GRAND TOTAL	8	432	522	203	81	31	9	1	3	1,290
Percent of Total	0.6	33.5	40.5	15.7	6.3	2.4	0.7	0.1	0.2	100

TABLE XII

NUMBER OF LIVEBIRTHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH INDICATION OF INJURY OR NO INJURY AT BIRTH, WITH PERCENTAGES, ALLOCATED TO RESIDENCE OF MOTHER, 1946

County or City	Number				Percent of Total		
	Present	Not Present	Not Stated	Total	Present	Not Present	Not Stated
Adams		110	7	117		94.0	6.0
Asotin		12	117	129		9.3	90.7
Benton	4	729	19	752	0.5	97.0	2.5
Chelan							
Rural	8	554	11	573	1.4	96.7	1.9
Wenatchee	1	362	4	367	0.3	98.6	1.1
Clallam							
Rural		252	7	259		97.3	2.7
Port Angeles		295	7	302		97.7	2.3
Clark							
Rural	3	1,375	125	1,503	0.2	91.5	8.3
Vancouver	1	539	100	640	0.2	84.2	15.6
Columbia	1	105		106	0.9	99.1	
Cowlitz							
Rural	2	656	43	701	0.3	93.6	6.1
Longview	3	413	15	431	0.7	95.8	3.5
Douglas		179	2	181		98.9	1.1
Ferry		74	6	80		92.5	7.5
Franklin	2	275	2	279	0.7	98.6	0.7
Garfield		32	16	48		66.7	33.3
Grant	1	328	7	336	0.3	97.6	2.1
Grays Harbor							
Rural	2	434	11	447	0.4	97.1	2.5
Aberdeen	1	450	7	458	0.2	98.3	1.5
Hoquiam		217	5	222		97.8	2.2
Island	1	166	6	173	0.6	95.9	3.5
Jefferson	3	217	5	225	1.3	96.5	2.2
King							
Rural	27	5,942	125	6,094	0.4	97.6	2.0
Seattle	35	10,354	148	10,537	0.3	98.3	1.4
Kitsap							
Rural	4	1,327	47	1,378	0.3	96.3	3.4
Bremerton	5	1,401	30	1,436	0.3	97.6	2.1
Kittitas	6	426	10	442	1.4	96.3	2.3
Klickitat	3	88	134	225	1.3	39.1	59.6
Lewis	7	910	59	976	0.7	93.3	6.0
Lincoln	1	210	16	227	0.4	92.6	7.0
Mason	1	295	7	303	0.3	97.4	2.3
Okanogan		651	11	662		98.3	1.7
Pacific	1	252	51	304	0.3	82.9	16.8
Pend Oreille		133	10	143		93.0	7.0
Pierce							
Rural	4	1,811	177	1,992	0.2	90.9	8.9
Tacoma	6	3,071	439	3,516	0.2	87.3	12.5
San Juan		43	10	53		81.1	18.9
Skagit	1	826	40	867	0.1	95.3	4.6

TABLE XII (Continued)

NUMBER OF LIVEBIRTHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH INDICATION OF INJURY OR NO INJURY AT BIRTH, WITH PERCENTAGES, ALLOCATED TO RESIDENCE OF MOTHER, 1946

County or City	Number				Percent of Total		
	Present	Not Present	Not Stated	Total	Present	Not Present	Not Stated
Skamania		41	32	73		56.2	43.8
Snohomish							
Rural	3	1,254	77	1,334	0.2	94.0	5.8
Everett		875	40	915		95.6	4.4
Spokane							
Rural		1,014	14	1,028		98.6	1.4
Spokane	4	3,589	47	3,640	0.1	98.6	1.3
Stevens	1	344	16	361	0.3	95.3	4.4
Thurston							
Rural	1	517	13	531	0.2	97.4	2.4
Olympia	1	407	9	417	0.2	97.6	2.2
Wahkiakum	2	53	18	73	2.7	72.6	24.7
Walla Walla							
Rural		276	9	285		96.8	3.2
Walla Walla	8	526	15	549	1.5	95.8	2.7
Whatcom							
Rural		496	90	586		84.6	15.4
Bellingham	2	656	177	835	0.2	78.6	21.2
Whitman	2	513	84	599	0.3	85.7	14.0
Yakima							
Rural	8	2,068	81	2,157	0.4	95.8	3.8
Yakima	1	1,059	14	1,074	0.1	98.6	1.3
URBAN TOTAL	68	24,214	1,057	25,339	0.3	95.5	4.2
RURAL TOTAL	99	24,988	1,515	26,602	0.4	93.9	5.7
GRAND TOTAL	167	49,202	2,572	51,941	0.3	94.7	5.0

TABLE XIII

NUMBER OF LIVEBIRTHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY PRESENCE OR ABSENCE OF CONGENITAL MALFORMATION, WITH PERCENTAGES, ALLOCATED TO RESIDENCE OF MOTHER, 1946

County or City	Number				Percent of Total		
	Present	Not Present	Not Stated	Total	Present	Not Present	Not Stated
Adams	1	109	7	117	0.8	93.2	6.0
Asotin		12	117	129		9.3	90.7
Benton	8	724	20	752	1.1	96.3	2.6
Chelan							
Rural	5	555	13	573	0.9	96.8	2.3
Wenatchee	7	356	4	367	1.9	97.0	1.1
Clallam							
Rural	1	249	9	259	0.4	96.1	3.5
Port Angeles	2	293	7	302	0.7	97.0	2.3
Clark							
Rural	7	1,370	126	1,503	0.5	91.1	8.4
Vancouver	3	537	100	640	0.5	83.9	15.6
Columbia	1	105		106	0.9	99.1	
Cowlitz							
Rural	5	649	47	701	0.7	92.6	6.7
Longview	11	405	15	431	2.6	93.9	3.5
Douglas	2	178	1	181	1.1	98.3	0.6
Ferry	1	73	6	80	1.2	91.3	7.5
Franklin	5	272	2	279	1.8	97.5	0.7
Garfield		32	16	48		66.7	33.3
Grant	1	330	5	336	0.3	98.2	1.5
Grays Harbor							
Rural	4	432	11	447	0.9	96.6	2.5
Aberdeen	6	444	8	458	1.3	97.0	1.7
Hoquiam	2	216	4	222	0.9	97.3	1.8
Island	4	163	6	173	2.3	94.2	3.5
Jefferson	6	215	4	225	2.7	95.5	1.8
King							
Rural	58	5,907	129	6,094	1.0	96.9	2.1
Seattle	89	10,299	149	10,537	0.8	97.8	1.4
Kitsap							
Rural	10	1,324	44	1,378	0.7	96.1	3.2
Bremerton	13	1,393	30	1,436	0.9	97.0	2.1
Kittitas	4	428	10	442	0.9	96.8	2.3
Klickitat	2	92	131	225	0.9	40.9	58.2
Lewis	9	908	59	976	0.9	93.1	6.0
Lincoln	4	207	16	227	1.8	91.2	7.0
Mason	9	287	7	303	3.0	94.7	2.3
Okanogan	8	642	12	662	1.2	97.0	1.8
Pacific	2	251	51	304	0.6	82.6	16.8
Pend Oreille	2	131	10	143	1.4	91.6	7.0
Pierce							
Rural	17	1,801	174	1,992	0.8	90.5	8.7
Tacoma	26	3,054	436	3,516	0.7	86.9	12.4
San Juan	1	42	10	53	1.9	79.2	18.9
Skagit	10	814	43	867	1.2	93.8	5.0

TABLE XIII (Continued)

NUMBER OF LIVEBIRTHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY PRESENCE OR ABSENCE OF CONGENITAL MALFORMATION, WITH PERCENTAGES, ALLOCATED TO RESIDENCE OF MOTHER, 1946

County or City	Number				Percent of Total		
	Present	Not Present	Not Stated	Total	Present	Not Present	Not Stated
Skamania	1	40	32	73	1.4	54.8	43.8
Snohomish							
Rural	9	1,250	75	1,334	0.7	93.7	5.6
Everett	8	866	41	915	0.9	94.6	4.5
Spokane							
Rural	11	1,003	14	1,028	1.1	97.5	1.4
Spokane	34	3,559	47	3,640	0.9	97.8	1.3
Stevens	3	342	16	361	0.8	94.8	4.4
Thurston							
Rural	2	516	13	531	0.4	97.2	2.4
Olympia	2	406	9	417	0.5	97.3	2.2
Wahkiakum		55	18	73		75.3	24.7
Walla Walla							
Rural	6	271	8	285	2.1	95.1	2.8
Walla Walla	10	524	15	549	1.8	95.5	2.7
Whatcom							
Rural	4	492	90	586	0.7	83.9	15.4
Bellingham	9	649	177	835	1.1	77.7	21.2
Whitman	8	508	83	599	1.3	84.8	13.9
Yakima							
Rural	25	2,051	81	2,157	1.2	95.0	3.8
Yakima	10	1,050	14	1,074	0.9	97.8	1.3
URBAN TOTAL	232	24,051	1,056	25,339	0.9	94.9	4.2
RURAL TOTAL	256	24,830	1,516	26,602	1.0	93.3	5.7
GRAND TOTAL	488	48,881	2,572	51,941	0.9	94.1	5.0

TABLE XIV

NUMBER OF PRENATAL SEROLOGICAL TESTS FOR SYPHILIS BEFORE THE FIFTH MONTH OF PREGNANCY AND DURING OR AFTER THE FIFTH MONTH OF PREGNANCY, WITH RESULTS OF TESTS, IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, ALLOCATED TO RESIDENCE OF MOTHER, 1946

County and City	Test given before fifth month			Test given after fifth month			Test given, no time stated		No information	Total birth records
	Syphilitic	Non-syphilitic*	Not given	Syphilitic	Non-syphilitic*	Not given	Syphilitic	Non-syphilitic*		
Adams		86			21	1			9	117
Asotin		8	7		4	7			103	129
Benton	2	564	1	2	130	1	1	25	26	752
Chelan										
Rural		297		1	191	3		43	38	573
Wenatchee	1	251			64	1		44	6	367
Clallam										
Rural		175	1		55	1	1	12	14	259
Port Angeles	1	232	2	1	53			9	4	302
Clark										
Rural	5	1,041		5	297	5		14	136	1,503
Vancouver		442	2	1	95	2		2	96	640
Columbia	2	60			37			5	2	106
Cowlitz										
Rural	1	536		1	124	2		16	21	701
Longview		367	2		45	2		6	9	431
Douglas		119			45			14	3	181
Ferry		39			25			4	12	80
Franklin	1	234			33	1		6	4	279
Garfield		20	1		3	2		6	16	48
Grant	2	233		1	85	1		7	7	336
Grays Harbor										
Rural	4	298	1	6	91			25	22	447
Aberdeen	1	336	2	1	96			9	13	458
Hoquiam	1	170		3	39			3	6	222
Island	3	114	2	2	33			11	8	173
Jefferson		195		1	13			8	8	225
King										
Rural	8	4,688	6	7	1,198	4		67	116	6,094
Seattle	21	8,274	10	29	1,898	8	1	123	173	10,537
Kitsap										
Rural	3	1,116	1	2	183	7	1	15	50	1,378
Bremerton	3	1,187	3	5	193	2		14	29	1,436
Kittitas		337	1		77			4	23	442
Klickitat	1	66			25				133	225
Lewis	4	695	3	2	154			89	29	976
Lincoln		149			49			9	20	227
Mason	1	250	1	1	33			6	11	303
Okanogan	3	422	2	1	180			16	38	662
Pacific		188	1		47	7		4	57	304
Pend Oreille		76		1	55			2	9	143
Pierce										
Rural	6	1,551	5		342	3	2	38	45	1,992
Tacoma	13	2,909	7	9	491	11		28	48	3,516
San Juan		35			9				9	53
Skagit	1	698		1	118	3	1	12	33	867

TABLE XIV (Continued)

NUMBER OF PRENATAL SEROLOGICAL TESTS FOR SYPHILIS BEFORE THE FIFTH MONTH OF PREGNANCY AND DURING OR AFTER THE FIFTH MONTH OF PREGNANCY, WITH RESULTS OF TESTS, IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, ALLOCATED TO RESIDENCE OF MOTHER, 1946

County and City	Test given before fifth month			Test given after fifth month			Test given, no time stated		No information	Total birth records
	Syphilitic	Non-syphilitic*	Not given	Syphilitic	Non-syphilitic*	Not given	Syphilitic	Non-syphilitic*		
Skamania		31			9				33	73
Snohomish										
Rural	4	847	3	1	283	1	2	103	90	1,334
Everett		540	1	2	182	3		154	33	915
Spokane										
Rural	1	755	1		199			43	29	1,028
Spokane		2,720	5	6	605	4	1	165	134	3,640
Stevens		205			107	1		9	39	361
Thurston										
Rural		435		1	59	1		13	22	531
Olympia		372	1		37	7				417
Wahkiakum	1	42			3			9	18	73
Walla Walla										
Rural		180	2		51	4		38	10	285
Walla Walla		394	8		91	2		30	24	549
Whatcom										
Rural		365		1	181	1		16	22	586
Bellingham		597		3	186	1		31	17	835
Whitman		448	5		74	3		30	39	599
Yakima										
Rural	5	1,334	3	9	591	9		83	123	2,157
Yakima	3	740	2	4	278	6		19	22	1,074
URBAN TOTAL	44	19,531	45	64	4,353	49	2	637	614	25,339
RURAL TOTAL	58	18,932	47	46	5,214	68	8	802	1,427	26,602
GRAND TOTAL	102	38,463	92	110	9,567	117	10	1,439	2,041	51,941

Antenatal serologic tests were reported for the mothers of 49,900, or 96 percent of the 51,941 livebirths during 1946. Seventy-four percent of these tests were performed before the fifth month of pregnancy while 19 percent were performed during or after the fifth month of pregnancy. In 1,439 cases, or 2.8 percent, the periods during pregnancy in which the blood tests were performed were not stated. No serologic tests were recorded for 2,041, or 3.9 percent of the total livebirths.

Syphilis was indicated in a total of 222 mothers, a rate of 4.3 per 1,000 livebirths. In the tests given before the fifth month of pregnancy, syphilis was found in the mothers of 102 of the 38,667 livebirths. This resulted in a rate of 2.6 per 1,000 livebirths. In the tests given during or after the fifth month of pregnancy, syphilis was indicated in the mothers of 110 of the 9,794 livebirths, a rate of 11.2 per 1,000 livebirths.

As the purpose of the serologic test is to discover syphilis in its early stages when most effective treatment can be given to the expectant mother and her unborn child, it is noted that 110, or nearly 50 percent of those mothers having syphilis were not discovered before the fifth month of pregnancy but were discovered later in pregnancy.

* Non-syphilitic includes "doubtful" blood tests.

SECTION II

* * * *

MORTALITY

General death rates[1]

A total of 21,995 certificates of death was filed with the public health statistics section for the year 1946, giving the state an annual death rate of 10.7 per 1,000 estimated population. In allocating the deaths to residence of decedent, this figure was reduced to 21,620 deaths, or a rate of 10.5 per 1,000 estimated population. While this was the greatest number of deaths ever recorded in the State of Washington during any one year, the rate was the same as that experienced in 1945. However, this rate was 4.7 percent higher than the provisional death rate of 10.0 per 1,000 estimated population in the United States Registration Area during 1946.

The trend in the general death rate during the ten-year period, 1937 to 1946, showed a 5.4 percent decline from 11.1 to 10.5 per 1,000 estimated population. Table I shows the general death rates from 1910 through 1946 in the state.

Leading causes of death[2]

Figure 5 shows the number of deaths and corresponding rates for the ten leading causes of death in the state in 1946. It is observed that diseases associated with old age again lead the list of causes of death. Diseases of the heart, with death rate of 343.2 per 100,000 estimated population, lead this list followed by cancer (135.4), cerebrovascular accidents (94.4), nephritis (47.8), influenza and pneumonia (42.0), tuberculosis (34.2), prematurity (32.7), motor vehicle accidents (28.5), diabetes mellitus (23.4), and suicide (16.8). These ten leading causes accounted for 75.7 percent of all deaths during the year with the first four mentioned causing 58.9 percent of the total deaths. With the exception of tuberculosis, nephritis, influenza and pneumonia, the death rates for Washington were higher than the corresponding rates for the United States Registration Area.

The trends of death rates due to the degenerative diseases of the middle- and older-aged populations have shown decisive increases. These increases can be explained for the most part by two factors: (1) a larger percentage of the population now lives through the younger age groups to become amenable to the degenerative diseases; and (2) facilities and techniques for the diagnosis of diseases of the heart, cancer, and intracranial lesions have been improved.

The death rate from disease of the heart has experienced the tremendous increase of 86.7 in 1910 to 343.2 per 100,000 estimated population in 1946. This increase assumed a ratio of one to four, which means that for every death from disease of the heart in 1910 there were four in 1946. Likewise, the death rate from all forms of cancer has increased from 51.7 in 1910 to 135.4 per 100,000 estimated population in 1946, a ratio of one to 2.6. Death rates from intracranial lesions of vascular origin resulted in a ratio of one to two for the same period.

Forecasts of several specific mortality rates to give some indication of what may be expected in the State of Washington in the succeeding ten to fifteen years

Cont. P.46

1 See Table XV.

2 See Tables XVI, XVII, Figures 5 and 6.

TABLE XV

DEATHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 1,000 ESTIMATED POPULATION, ALLOCATED TO RESIDENCE OF DECEASED AND BY PLACE OF OCCURRENCE, 1946

County or City	Residence		Occurrence	
	No.	Rate	No.	Rate
Adams	42	7.0	38	6.3
Asotin	90	10.8	56	6.7
Benton	174	5.0	111	3.2
Chelan	341	9.3	364	10.0
Rural	184	7.7	146	6.1
Wenatchee	157	12.6	218	7.4
Clallam	230	10.5	233	10.6
Rural	102	8.6	56	4.7
Port Angeles	128	12.5	177	17.4
Clark	682	8.0	695	8.2
Rural	393	8.5	216	4.6
Vancouver	289	7.5	479	12.4
Columbia	46	8.4	49	8.9
Cowlitz	343	7.1	332	6.9
Rural	252	7.7	107	3.3
Longview	91	6.0	225	14.8
Douglas	58	6.8	32	3.8
Ferry	30	7.1	15	3.6
Franklin	76	6.3	124	10.3
Garfield	29	9.4	22	7.1
Grant	88	6.8	79	6.1
Grays Harbor	611	12.2	601	12.0
Rural	240	12.2	161	8.2
Aberdeen	234	12.4	380	20.1
Hoquiam	137	11.9	60	5.2
Island	82	11.2	78	10.7
Jefferson	95	10.6	88	9.8
King	6,789	10.9	7,017	11.2
Rural	1,844	11.9	1,410	9.1
Seattle	4,945	10.5	5,607	11.2
Kitsap	671	7.4	635	7.0
Rural	407	15.4	214	8.1
Bremerton	264	4.1	421	6.6
Kittitas	203	9.4	232	10.8
Klickitat	79	7.2	69	6.3
Lewis	450	10.7	472	11.2
Lincoln	101	9.2	63	5.7
Mason	123	9.1	104	7.7
Okanogan	216	8.0	211	7.8
Pacific	151	10.1	131	8.7
Pend Oreille	46	6.6	46	6.6
Pierce	2,154	10.7	2,733	13.5
Rural	718	11.1	923	14.3
Tacoma	1,436	10.5	1,810	13.2
San Juan	41	12.8	20	6.2
Skagit	470	11.2	678	16.1

TABLE XV (Continued)

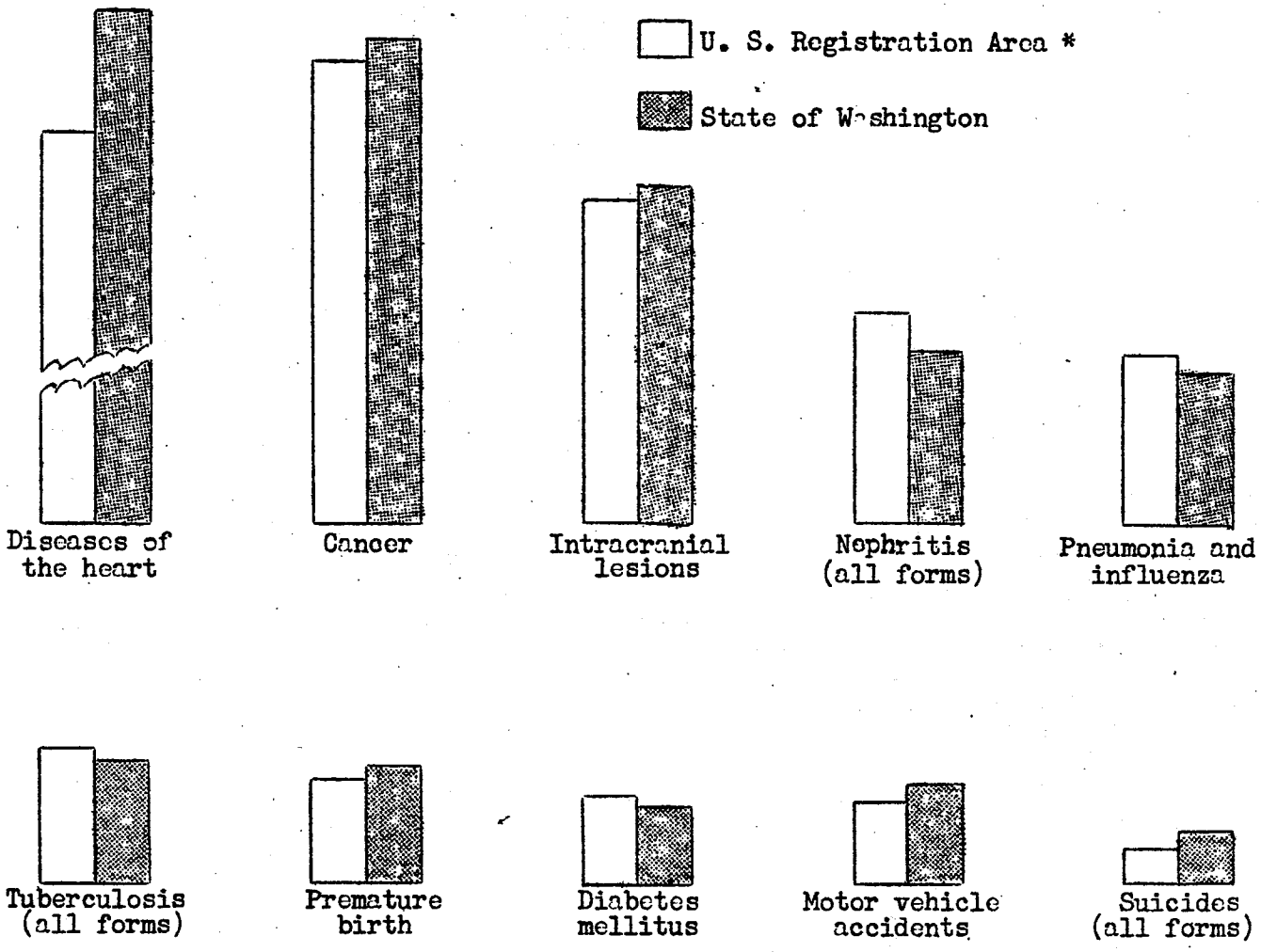
DEATHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 1,000 ESTIMATED POPULATION, ALLOCATED TO RESIDENCE OF DECEASED AND BY PLACE OF OCCURRENCE, 1946

County or City	Residence		Occurrence	
	No.	Rate	No.	Rate
Skamania	30	6.8	24	5.3
Snohomish	1,068	11.3	1,024	10.8
Rural	655	11.0	495	8.3
Everett	413	11.8	529	15.1
Spokane	2,122	11.1	2,565	13.4
Rural	410	8.6	577	12.1
Spokane	1,712	11.9	1,988	13.8
Stevens	176	9.8	170	9.4
Thurston	411	10.4	358	9.1
Rural	226	9.6	114	4.8
Olympia	185	11.6	244	15.2
Wahkiakum	35	8.8	19	4.8
Walla Walla	388	12.1	491	15.3
Rural	121	15.9	82	10.8
Walla Walla	267	10.9	409	16.7
Whatcom	723	11.9	724	11.9
Rural	303	10.4	306	10.5
Bellingham	420	13.2	418	13.1
Whitman	236	8.1	219	7.6
Yakima	1,093	9.8	1,073	9.6
Rural	629	8.0	518	6.6
Yakima	464	13.9	555	16.6
Northern State Hospital	240*			
Western State Hospital	344*			
Eastern State Hospital	220*			
Eastern State Cus. School	12*			
Western State Cus. School	11*			
URBAN TOTAL	11,142	10.5	13,520	12.7
RURAL TOTAL	10,478	10.6	8,475	8.6
GRAND TOTAL	21,620	10.5	21,995	10.7

*Included in Rural Total when rates worked.

FIGURE 5

DEATH RATES (PER 100,000 ESTIMATED POPULATION) FROM LEADING CAUSES IN THE UNITED STATES REGISTRATION AREA AND IN THE STATE OF WASHINGTON, BY RESIDENCE, 1946



Cause of death	1946 Rates U.S. Reg. area*	1946 Rates Washington
Diseases of the heart	306.6	343.2
Cancer and other malignant tumors	129.6	135.4
Intracranial lesions of vascular origin	90.5	94.4
Nephritis (all forms)	58.0	47.8
Pneumonia (all forms) and influenza	46.1	42.0
Tuberculosis (all forms)	37.2	34.2
Premature birth	29.1	32.7
Diabetes mellitus	24.7	23.4
Motor vehicle accidents	24.1	28.5
Suicides (all forms)	10.8	16.8

* Estimated figures from Current Mortality Analysis, Vol. 4, No. 13, National Office of Vital Statistics, July 31, 1947.

TABLE XVI

SUMMARY OF THE NUMBER OF DEATHS FROM LEADING CAUSES, WITH RATES PER 100,000 POPULATION, STATE OF WASHINGTON, 1910 - 1946 *

Year	Diseases of the heart (90-95)		Cancer and other malignant tumors (45-55)		Intracranial lesions of vascular origin (83)		Nephritis (all forms) (130-132)		Pneumonia (all forms) (107-109)		Tuberculosis (all forms) (13-22)	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
1910	995	86.7	593	51.7	535	46.6	634	55.3	841	73.3	1,243	108.4
1911	1,105	94.5	562	48.1	605	51.8	670	57.3	789	67.5	1,299	111.1
1912	1,111	93.3	679	57.0	561	47.1	639	53.7	645	54.2	1,174	98.6
1913	1,271	104.8	720	59.4	645	53.2	748	61.7	793	65.4	1,242	102.4
1914	1,258	101.9	871	70.6	665	53.9	764	61.9	713	57.8	1,246	101.0
1915	1,403	111.7	841	70.0	677	53.9	787	62.7	840	66.9	1,275	101.5
1916	1,411	110.4	952	74.5	746	58.4	757	59.2	820	64.2	1,248	97.7
1917	1,440	110.8	935	71.9	738	56.8	735	56.6	865	66.6	1,300	100.0
1918	1,653	125.1	994	75.2	811	61.4	795	60.2	1,953	147.8	1,341	101.5
1919	1,583	117.8	1,045	77.8	860	64.0	824	61.3	1,164	86.7	1,385	103.1
1920	1,815	133.0	1,123	82.3	925	67.8	844	61.8	1,281	93.8	1,346	98.6
1921	1,831	132.2	1,192	86.0	1,005	72.5	828	59.8	793	57.2	1,150	83.0
1922	1,948	138.6	1,281	91.1	1,131	80.4	832	59.2	903	64.2	1,104	78.5
1923	1,952	136.9	1,303	91.4	1,110	77.8	805	56.4	852	59.7	1,113	78.0
1924	2,236	154.6	1,394	96.4	1,117	77.2	906	62.6	839	58.0	1,087	75.1
1925	2,269	154.7	1,509	102.9	1,198	81.7	1,080	73.6	877	59.8	1,195	81.5
1926	2,495	167.7	1,626	109.3	1,181	79.4	1,036	69.6	975	65.6	1,127	75.8
1927	2,788	184.9	1,537	101.9	1,315	87.2	989	65.6	938	62.2	1,053	69.8
1928	3,030	198.3	1,718	112.4	1,388	90.8	1,098	71.8	986	64.5	1,055	69.0
1929	3,064	197.9	1,661	107.3	1,341	86.6	1,066	68.8	964	62.2	1,032	66.6
1930	3,347	213.3	1,764	112.4	1,490	95.0	1,183	75.4	994	63.4	921	58.7
1931	3,232	203.9	1,833	115.7	1,501	94.7	1,084	68.4	869	54.8	951	60.0
1932	3,535	220.9	1,800	112.5	1,494	93.4	1,268	79.2	861	53.8	847	52.9
1933	3,799	234.6	1,946	120.2	1,528	94.4	1,157	71.5	787	48.6	857	52.9
1934	4,010	244.1	2,058	125.3	1,545	94.1	1,196	72.8	858	52.2	746 ~~773~~	~~47.1~~ 45.1
1935	4,308	259.4	2,146	129.2	1,615	97.2	1,288	77.6	905	54.5	794	47.8
1936	4,589	273.7	2,273	135.6	1,699	101.3	1,218	72.6	1,276	76.1	793	47.3
1937	4,637	273.8	2,162	127.6	1,670	98.6	1,237	73.0	1,133	66.9	750	44.3
1938	4,711	275.6	2,307	134.9	1,782	104.2	1,145	67.0	1,100	64.3	692	40.5
1939	4,980	288.6	2,400	139.1	1,782	103.3	1,110	64.3	878	50.9	693	40.2
1940	5,859	336.3	2,515	144.4	1,841	105.7	1,239	71.1	827	47.5	665	38.2
1941	5,887	323.9	2,428	133.6	1,804	99.2	1,190	65.5	685	37.7	663	36.5
1942	6,186	326.5	2,477	130.7	2,017	106.5	1,174	62.0	880	46.4	634	33.5
1943	6,812	343.6	2,563	129.3	1,970	99.4	1,179	59.5	1,065	53.7	674	34.0
1944	6,607	332.6	2,585	130.1	1,989	100.1	1,079	54.3	941	47.4	653	32.9
1945	6,661	327.6	2,692	132.4	1,856	91.3	1,107	54.4	844	41.5	667	32.8
1946	7,037	343.2	2,776	135.4	1,936	94.4	981	47.8	784	38.2	702	34.2

* Source: 1910 - 1933 place of occurrence figures from published reports of the National Office of Vital Statistics.

1934 - 1946 place of residence figures (except for 1936, which are by place of occurrence since residence figures are not available for that year) from Section of Public Health Statistics, Washington State Department of Health.

TABLE XVI (Continued)

SUMMARY OF THE NUMBER OF DEATHS FROM LEADING CAUSES, WITH RATES PER 100,000 POPULATION, STATE OF WASHINGTON, 1910 - 1946 *
(Continued)

Year	Accidental Fall (186a)		Diabetes Mellitus (61)		Motor Vehicle Accidents (170)		Pre-maturity (159)		Suicides (all forms) (163-164)		Syphilis (all forms) (30)		Arterio-sclerosis (97) **	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
1910	129	11.2	124	10.8	17	1.5	308	26.8	230	20.0	54	4.7		
1911	112	9.6	123	10.5	24	2.0	321	27.5	252	21.6	40	3.4		
1912	128	10.8	121	10.2	35	2.9	328	27.5	264	22.2	39	3.3		
1913	132	10.9	172	14.2	40	3.3	350	28.9	246	20.3	58	4.8		
1914	139	11.3	171	13.9	67	5.4	421	34.1	303	24.6	67	5.4		
1915	133	10.6	192	15.3	105	8.4	372	29.6	304	24.2	57	4.5		
1916	114	8.9	187	14.6	82	6.4	419	32.8	184	14.4	84	6.6		
1917	128	9.8	198	15.2	117	9.0	400	30.8	188	14.5	111	8.5		
1918	157	11.9	222	16.8	151	11.4	490	37.1	176	13.3	87	6.6		
1919	118	8.8	207	15.4	148	11.0	415	30.9	190	14.1	113	8.4		
1920	154	11.3	190	13.9	184	13.5	517	37.9	246	18.0	131	9.6		
1921	140	10.1	210	15.2	202	14.6	427	30.8	288	20.8	96	6.9		
1922	145	10.3	289	20.6	173	12.3	436	31.0	273	19.4	138	9.8		
1923	154	10.8	249	17.5	240	16.8	415	29.1	236	16.5	127	8.9		
1924	187	12.9	233	16.1	265	18.3	418	28.9	285	19.7	147	10.2		
1925	200	13.6	236	16.1	299	20.4	386	26.3	318	21.7	180	12.3		
1926	184	12.4	264	17.7	342	23.0	373	25.1	293	19.7	157	10.6		
1927	210	13.9	271	18.0	365	24.2	334	22.2	310	20.6	150	9.9		
1928	218	14.3	286	18.7	424	27.7	351	23.0	351	23.0	171	11.2		
1929	237	15.3	271	17.5	441	28.5	323	20.9	342	22.1	156	10.1		
1930	240	15.3	309	19.7	413	26.3	340	21.7	384	24.5	164	10.4	327	20.8
1931	254	16.0	315	19.9	462	29.2	304	19.2	411	25.9	176	11.1	306	19.3
1932	283	17.7	353	22.1	415	25.9	303	18.9	450	28.1	169	10.6	324	20.2
1933	301	18.6	354	21.9	448	27.7	274	16.9	380	23.5	148	9.1	338	20.9
1934	384	23.4	343	20.9	555	33.8	320	19.5	355	21.6	157	9.6	372	22.6
1935	397	23.9	379	22.8	572	34.4	330	19.9	356	21.4	159	9.6	346	20.8
1936	411	24.5	416	24.8	629	37.5	361	21.5	408	24.3	158	9.4	393	23.4
1937	382	22.6	362	22.6	539	31.8	321	19.0	404	23.8	193	11.4	377	22.2
1938	384	22.5	412	24.1	466	27.2	359	21.0	447	26.1	180	10.5	406	23.7
1939	390	22.6	440	25.5	477	27.6	335	19.4	348	20.2	163	9.4	449	26.0
1940	429	24.6	458	26.3	524	30.1	325	18.7	395	22.7	223	12.8	331	19.0
1941	397	21.8	438	24.1	693	38.1	423	23.3	354	19.5	225	12.4	227	15.2
1942	361	19.1	478	25.2	455	24.0	466	24.6	356	18.8	205	10.8	320	16.9
1943	460	23.2	495	25.0	372	18.8	499	25.2	284	14.3	210	10.6	484	24.4
1944	397	20.0	452	22.8	375	18.9	466	23.5	273	13.7	192	9.7	430	21.6
1945	391	19.2	463	22.8	537	26.4	549	27.0	290	14.3	175	8.6	431	21.2
1946	381	18.6	479	23.4	585	28.5	671	32.7	344	16.8	167	8.1	344	16.8

* Source: 1910 - 1933 place of occurrence figures from published reports of the National Office of Vital Statistics.

1934 - 1946 place of residence figures (except for 1936, which are by place of occurrence since residence figures are not available for that year) from Section of Public Health Statistics, Washington State Department of Health.

** No figures for "arteriosclerosis" are available prior to 1930.

TABLE XVII

NUMBER OF DEATHS AND DEATH RATES (PER 100,000 ESTIMATED POPULATION), FROM LEADING CAUSES IN THE STATE OF WASHINGTON, BY RESIDENCE, 1942 - 1946

Cause of Death	1942		1943		1944		1945		1946	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Diseases of the heart	6,186	326.5	6,812	343.6	6,607	332.6	6,661	327.6	7,037	343.2
Cancer and other malignant tumors	2,477	130.7	2,563	129.3	2,585	130.1	2,692	132.4	2,776	135.4
Cerebrovascular accidents	2,075	109.5	2,053	103.6	2,039	102.6	2,068	101.7	1,936	94.4
Nephritis (all forms)	1,174	62.0	1,179	59.5	1,079	54.3	1,107	54.4	981	47.8
Pneumonia and influenza	1,027	54.2	1,290	65.1	1,188	59.8	939	46.3	862	42.0
Tuberculosis (all forms)	634	33.5	674	34.0	653	32.9	667	32.8	702	34.2
Prematurity	466	24.5	499	25.1	466	23.4	549	27.0	671	32.7
Motor vehicle accidents	462	24.4	377	19.0	385	19.4	537	26.4	585	28.5
Diabetes mellitus	478	25.2	495	25.0	452	22.8	463	22.8	479	23.4
Suicides (all forms)	356	18.8	284	14.3	273	13.7	290	14.3	344	16.8

FIGURE 6

DEATH RATES (PER 100,000 ESTIMATED POPULATION) FROM LEADING CAUSES IN THE STATE OF WASHINGTON, BY RESIDENCE, 1942 - 1946

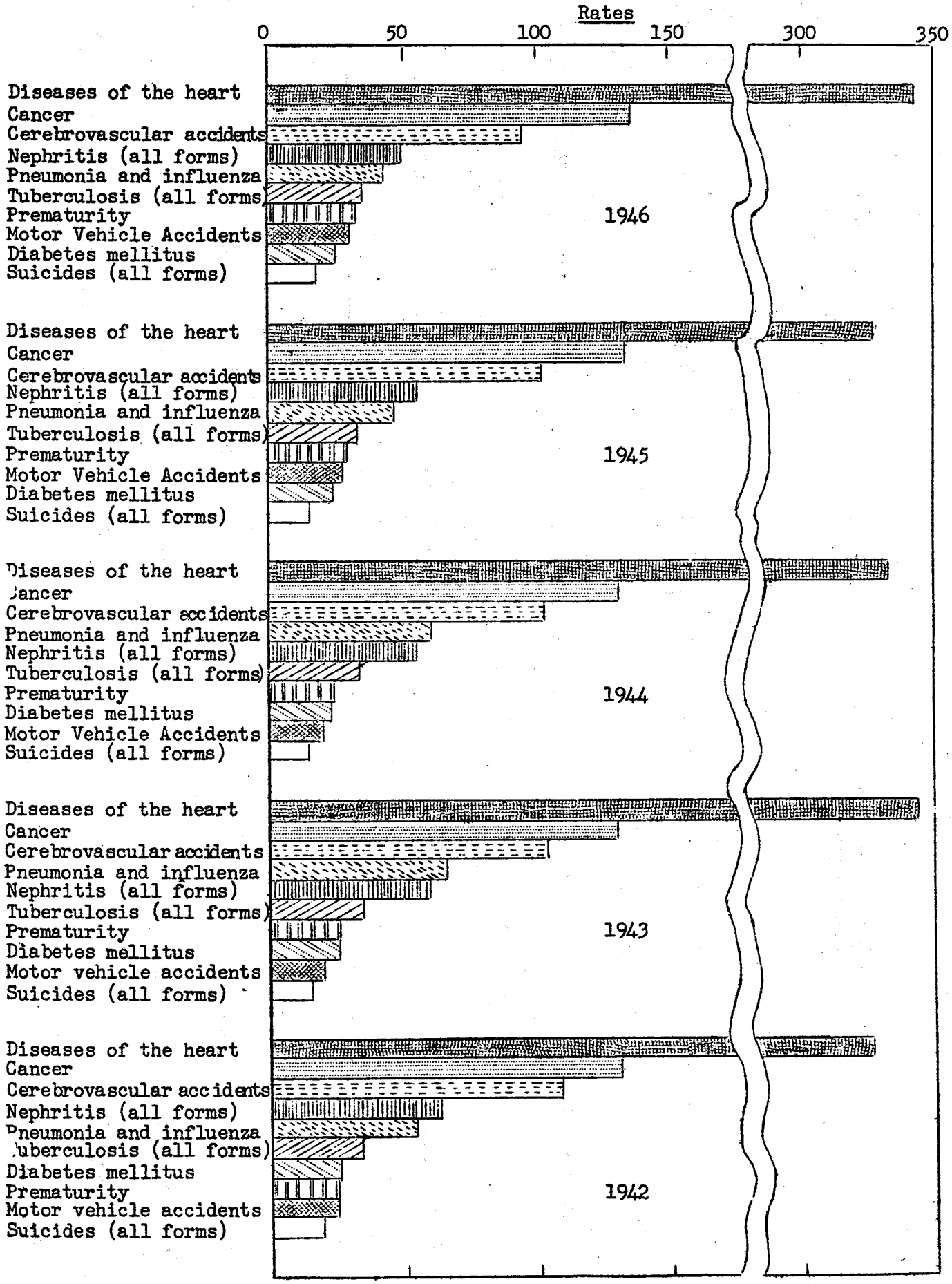


TABLE XVIII

DEATHS FROM LEADING CAUSES AND ALL CAUSES IN THE STATE OF WASHINGTON, BY SEX AND BY AGE GROUPS, ALLOCATED TO RESIDENCE OF DECEASED, 1946

CAUSE OF DEATH	Sex	Total	Under 1 year	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75 yrs and over	Unk. age
Diseases of the Heart	M	4601	1	3	3	11	42	146	490	1061	1395	1446	3
	F	2436	1	3	5	10	31	64	149	405	688	1075	5
	T	7037	2	6	8	21	73	210	639	1466	2083	2521	8
Cancer and other malignant tumors	M	1444	1	7	8	9	20	43	141	375	453	387	0
	F	1332	0	5	5	3	42	90	229	349	338	271	0
	T	2776	1	12	13	12	62	133	370	724	791	658	0
Cerebrovascular accidents	M	1007	1	2	0	3	10	14	66	198	312	401	0
	F	929	1	0	1	1	8	22	74	150	260	412	0
	T	1936	2	2	1	4	18	36	140	348	572	813	0
Nephritis (all forms)	M	561	1	0	2	5	8	24	51	106	150	214	0
	F	420	2	2	4	8	11	22	42	62	103	164	0
	T	981	3	2	6	13	19	46	93	168	253	378	0
Influenza and pneumonia (all forms)	M	503	85	19	9	3	10	21	39	62	71	184	0
	F	359	77	18	9	6	6	17	12	20	49	145	0
	T	862	162	37	18	9	16	38	51	82	120	329	0
Tuberculosis (all forms)	M	470	4	8	11	28	59	74	91	105	61	29	0
	F	232	2	10	6	46	50	46	22	15	22	13	0
	T	702	6	18	17	74	109	120	113	120	83	42	0
Prematurity	M	406	406	0	0	0	0	0	0	0	0	0	0
	F	265	265	0	0	0	0	0	0	0	0	0	0
	T	671	671	0	0	0	0	0	0	0	0	0	0
Motor Vehicle Accidents	M	445	4	19	22	75	58	42	55	63	55	52	0
	F	140	0	10	7	16	17	16	23	24	16	11	0
	T	585	4	29	29	91	75	58	78	87	71	63	0
Diabetes Mellitus	M	190	0	0	3	2	4	6	18	42	56	59	0
	F	289	1	2	1	5	8	3	13	75	105	76	0
	T	479	1	2	4	7	12	9	31	117	161	135	0
Arteriosclerosis	M	214	0	0	0	0	1	0	0	9	43	161	0
	F	130	0	0	0	0	0	0	0	6	25	99	0
	T	344	0	0	0	0	1	0	0	15	68	260	0
Suicides (all forms)	M	261	0	0	1	12	27	51	53	56	35	26	0
	F	83	0	0	0	5	9	21	20	14	11	3	0
	T	344	0	0	1	17	36	72	73	70	46	29	0
All other Causes	M	3102	516	100	89	122	177	268	376	471	453	526	4
	F	1801	355	87	50	67	107	152	133	179	212	459	0
	T	4903	871	187	139	189	284	420	509	650	665	985	4
All Causes	M	13204	1019	158	148	270	416	689	1380	2548	3084	3485	7
	F	8416	704	137	88	167	289	453	717	1299	1829	2728	5
	T	21620	1723	295	236	437	705	1142	2097	3847	4913	6213	12

TABLE XIX

DEATHS FROM LEADING CAUSES IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, ALLOCATED TO RESIDENCE OF DECEASED, 1946

County and City	Diseases of the heart		Cancer & other mal. tumors		Cerebro-vascular accidents		Nephritis (all forms)		Influenza & pneumonia (all forms)		Tuberculosis (all forms)		Prematurity		Motor Vehicle Accidents		Diabetes mellitus		Arterio-sclerosis		Suicide (all forms)	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Adams	12	200.0	5	83.3	7	116.6	5	83.3	1	16.7	1	16.7	1	16.7	-	-	1	16.7	-	-	1	16.7
Asotin	23	277.1	16	192.8	7	84.3	7	84.3	6	72.3	1	12.0	2	24.1	5	60.2	-	-	1	12.0	1	12.0
Benton	50	142.8	13	37.1	10	28.6	6	17.1	9	25.7	3	8.6	16	45.7	9	25.7	5	14.3	-	-	2	5.7
Chelan																						
Rural	50	208.3	21	87.5	18	75.0	3	12.5	8	33.3	4	16.7	8	33.3	9	37.5	2	8.3	8	33.3	3	12.5
Wenatchee	50	400.0	18	144.0	8	64.0	8	64.0	7	56.0	7	56.0	3	24.0	5	40.0	3	24.0	4	32.0	1	8.0
Clallam																						
Rural	38	322.0	12	101.7	9	76.3	4	33.9	3	25.4	6	50.8	3	25.4	4	33.9	2	16.9	2	16.9	1	8.5
Port Angeles	52	509.8	16	156.9	10	98.0	11	107.8	2	19.6	3	29.4	3	29.4	1	9.8	1	9.8	-	-	3	29.4
Clark																						
Rural	101	217.7	44	94.8	33	71.1	25	53.9	16	34.5	18	38.8	20	43.1	16	34.5	9	19.4	4	8.6	7	15.1
Vancouver	92	238.3	44	114.0	21	54.4	18	46.6	6	15.5	8	20.7	14	36.3	9	23.3	5	13.0	3	7.8	9	23.3
Columbia	15	272.7	4	72.7	9	163.6	3	54.5	1	18.2	-	-	2	36.4	2	36.4	2	36.4	-	-	-	-
Cowlitz																						
Rural	83	253.0	25	76.2	22	67.1	10	30.5	7	21.2	12	36.6	4	12.2	12	36.6	3	9.1	1	3.0	2	6.1
Longview	26	171.0	15	98.7	8	52.6	1	6.6	4	26.3	2	13.2	5	32.9	3	19.7	3	19.7	1	6.6	1	6.6
Douglas	19	223.5	7	82.4	6	70.6	2	23.5	3	35.3	1	11.8	2	23.5	1	11.8	1	11.8	-	-	4	47.0
Ferry	10	238.1	5	119.0	1	23.8	1	23.8	2	47.6	-	-	-	-	-	-	1	23.8	1	23.8	1	23.8
Franklin	22	183.3	5	41.7	7	58.3	5	41.7	1	8.3	-	-	6	50.0	3	25.0	-	-	-	-	2	16.7
Garfield	8	258.1	4	129.0	3	96.8	3	96.8	1	32.3	1	32.3	-	-	1	32.3	-	-	2	64.5	-	-
Grant	23	176.9	10	76.9	6	46.2	3	23.1	5	38.5	1	7.7	3	23.1	5	38.5	2	15.4	1	7.7	1	7.7
Grays Harbor																						
Rural	67	341.8	32	163.3	23	117.3	8	40.8	9	45.9	12	61.2	11	56.1	12	61.2	9	45.9	2	10.2	3	15.3
Aberdeen	69	365.1	37	195.8	23	121.7	9	47.6	5	26.4	8	42.3	7	37.0	4	21.2	4	21.2	3	15.9	3	15.9
Hoquiam	35	304.3	20	173.9	12	104.3	8	69.6	8	69.6	2	17.4	1	8.7	4	34.8	2	17.4	-	-	3	26.1
Island	23	315.1	9	123.3	11	150.7	2	27.4	3	41.1	3	41.1	2	27.4	2	27.4	1	13.7	-	-	5	68.5
Jefferson	27	300.0	10	111.1	10	111.1	2	22.2	5	55.6	2	22.2	1	11.1	5	55.6	5	55.6	-	-	-	-
King																						
Rural	637	411.0	247	159.4	159	102.6	75	48.4	77	49.7	49	31.6	69	44.5	59	38.1	40	25.8	25	16.1	31	20.0
Seattle	1880	400.0	686	146.0	385	81.9	171	36.4	134	28.5	189	40.2	134	28.5	95	20.2	92	19.6	36	7.6	106	22.6
Kitsap																						
Rural	121	458.3	45	170.4	50	189.4	14	53.0	13	49.2	18	68.2	18	68.2	14	53.0	8	30.3	4	15.2	4	15.2
Bremerton	68	106.2	35	54.7	22	34.4	10	15.6	6	9.4	8	12.5	22	34.4	3	4.7	5	7.8	1	1.6	2	3.1
Kittitas	54	251.2	23	107.0	20	93.0	11	51.2	10	46.5	2	9.3	16	74.4	10	46.5	5	23.2	1	4.6	2	9.3
Klickitat	19	172.7	14	127.3	10	90.9	5	45.4	2	18.2	1	9.1	1	9.1	1	9.1	3	27.3	-	-	1	9.1
Lewis	140	331.8	57	135.1	48	113.7	22	52.1	17	40.3	8	19.0	8	19.0	20	47.4	10	23.7	7	16.6	5	11.8
Lincoln	32	290.9	9	81.8	8	72.7	13	118.2	6	54.5	-	-	3	27.3	5	45.4	2	18.2	1	9.1	1	9.1
Mason	41	303.7	13	96.3	11	81.5	6	44.4	7	51.8	5	37.0	1	7.4	4	29.6	2	14.8	-	-	1	7.4

TABLE XIX (Continued)

DEATHS FROM LEADING CAUSES IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, ALLOCATED TO RESIDENCE OF DECEASED, 1946

County and City	Diseases of the heart		Cancer & other mal. tumors		Cerebro-vascular accidents		Nephritis (all forms)		Influenza and pneumonia (all forms)		Tuberculosis (all forms)		Prematurity		Motor Vehicle Accidents		Diabetes Mellitus		Arterio-sclerosis		Suicide (all forms)	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Okanogan	50	185.2	37	137.0	17	63.0	15	55.6	10	37.0	6	22.2	8	29.6	10	37.0	1	3.7	1	3.7	2	7.4
Pacific	49	326.7	24	160.0	17	113.3	1	6.7	6	40.0	6	40.0	3	20.0	4	26.7	3	20.0	1	6.7	-	-
Pend Oreille	11	157.1	7	100.0	7	100.0	4	57.1	1	14.3	-	-	1	14.3	2	28.6	1	14.3	-	-	-	-
Pierce																						
Rural	239	369.4	86	132.9	51	78.8	42	64.9	19	29.4	18	27.8	25	38.6	29	44.8	13	20.1	7	10.8	8	12.4
Tacoma	442	322.6	205	149.6	144	105.1	91	66.4	26	19.0	49	35.8	52	38.0	21	15.3	30	21.9	22	16.0	32	23.4
San Juan	13	406.2	5	156.2	5	156.2	-	-	1	31.2	1	31.2	-	-	-	-	5	156.2	-	-	1	11.8
Skagit	144	342.0	59	140.1	39	92.6	14	33.2	28	66.5	21	49.9	16	38.0	14	33.2	10	23.8	7	16.6	7	16.6
Skamania	13	288.9	3	66.7	3	66.7	1	22.2	1	22.2	1	22.2	1	22.2	-	-	-	-	-	-	1	22.2
Snohomish																						
Rural	237	398.3	82	137.8	81	136.1	26	43.7	24	40.3	14	23.5	21	35.3	23	38.6	19	31.9	15	25.2	10	16.8
Everett	121	345.7	69	197.1	63	180.0	15	42.8	13	37.1	13	37.1	13	37.1	11	31.4	7	20.0	11	31.4	-	-
Spokane																						
Rural	120	252.6	54	113.7	37	77.9	26	54.7	21	44.2	10	21.0	12	25.3	8	16.8	11	23.2	8	16.8	5	10.5
Spokane	573	397.9	220	152.8	165	114.6	112	77.8	79	54.9	33	22.9	45	31.2	31	21.5	46	31.9	31	21.5	32	22.2
Stevens	48	266.7	22	122.2	19	105.6	8	44.4	17	94.4	2	11.1	3	16.7	12	66.7	1	5.6	4	22.2	1	5.6
Thurston																						
Rural	70	297.9	36	153.2	21	89.4	7	29.8	9	38.3	4	17.0	1	4.2	5	21.3	6	25.5	4	17.0	4	17.0
Olympia	54	337.5	28	175.0	14	87.5	8	50.0	5	31.2	5	31.2	9	56.2	6	37.5	4	25.0	4	25.0	3	18.8
Wahkiakum	10	250.0	3	75.0	-	-	-	-	2	50.0	-	-	-	-	2	50.0	-	-	1	25.0	-	-
Walla Walla																						
Rural	29	381.6	19	250.0	8	105.3	7	92.1	5	65.8	-	-	1	13.2	-	-	5	65.8	5	65.8	1	13.2
Walla Walla	72	293.9	36	146.9	28	114.3	16	65.3	6	24.5	5	20.4	9	36.7	10	40.8	9	36.7	6	24.5	2	8.2
Whatcom																						
Rural	85	291.1	32	109.6	25	85.6	16	54.8	19	65.1	11	37.7	7	24.0	9	30.8	12	41.1	7	24.0	4	13.7
Bellingham	117	367.9	56	176.1	56	176.1	18	56.6	14	44.0	11	34.6	15	47.2	6	18.9	12	37.7	10	31.4	3	9.4
Whitman	73	251.7	27	93.1	22	75.9	13	44.8	8	27.6	4	13.8	14	48.2	8	27.6	6	20.7	1	3.4	5	17.2
Yakima																						
Rural	170	216.3	58	73.8	45	57.2	26	33.1	53	67.4	26	33.1	20	25.4	37	47.1	19	24.2	3	3.8	6	7.6
Yakima	135	404.2	73	218.6	42	125.7	22	65.9	19	56.9	12	35.9	9	26.9	14	41.9	12	35.9	5	15.0	6	18.0
West. St. Hosp.	124		12		16		14		46		29		-		-		8		27		3	
W.St.Cust.Sch.	2		-		1		-		1		-		-		-		-		-		-	
North.St.Hosp.	63		9		14		5		25		29		-		-		5		32		-	
East.St.Hosp.	83		12		19		3		20		11		-		-		6		24		2	
E.St.Cust.Sch.	3		1		-		-		-		6		-		-		-		-		-	
RURAL TOTAL	3,251	329.2	1218	123.3	935	94.7	463	46.9	528	53.5	347	35.1	330	33.4	362	36.6	244	24.7	207	21.0	138	14.0
URBAN TOTAL	3,786	356.5	1558	146.7	1001	94.2	518	48.8	334	31.4	355	33.4	341	32.1	223	21.0	235	22.1	137	12.9	206	19.4
GRAND TOTAL	7,037	343.2	2776	135.4	1936	94.4	981	47.8	862	42.0	702	34.2	671	32.7	585	28.5	479	23.4	344	16.8	344	16.8

are stated below. These forecasts are quite problematical since they are based on the uninterrupted prevalence of such forces as birth and death indices, industrial, scientific, social and economic developments (including the possibility of war) and their effects on population and mortality trends. These forecasts are that:

A specific mortality rate as great as 400 per 100,000 population can be expected from diseases of the heart by the year 1960. This would cause a loss of life in the state from this group of diseases in excess of 10,000 persons annually instead of the 7,037 deaths recorded in 1946.

A specific mortality rate as great as 165 per 100,000 population can be expected from cancer by the year 1960. This would cause a loss of life in the state from all forms of cancer in excess of 4,000 persons instead of the 2,776 deaths recorded in 1946.

It is anticipated that with increased education of the laity and the professions to obtain early diagnosis and early adequate treatment, the mortality rate from cancer will be appreciably lower than that rate which has been projected for 1960. It is hoped, in addition, that fundamental discoveries in the cause, methods of diagnosis and treatment of cancer will still further effect a reduction of the death rate.

A specific mortality rate as great as 125 per 100,000 population can be expected from intracranial lesions of vascular origin by the year 1960. This would cause a loss of life in the state from this group of diseases in excess of 3,000 persons annually instead of the 1,936 deaths recorded in 1946.

It is observed from Tables XVI and XVII that the death rate from nephritis has varied from year to year but has remained in the modified range of 50 to 70 per 100,000 estimated population throughout the 37-year period 1910 to 1946, except for the year 1932 when the rate rose to an all-time high of 79.2. Pneumonia has shown a decline of almost 100 percent of its mortality rate, and tuberculosis mortality has been reduced two-thirds within this period.

Deaths by attendant[1]

Of the 21,620 residents of the State of Washington whose deaths were reported during the year, 19,882 were attended by doctors of medicine, 6 by chiropractors, 227 by osteopathic physicians, 9 by sanipractors, 1,360 by coroners, 98 by health officers, and 38 by other and unspecified attendants.

Deaths by place of death[2]

Of the deaths reported 11,671 occurred in hospitals, 1,316 in other institutions, 7,177 in private homes, 3 while at work, and 1,433 at all other places. Table XXI shows the distribution by place of death for each county and major city with percentages shown for the state totals only.

Tuberculosis morbidity and mortality[3]

During the period 1937 through 1946 there was a marked increase in the number of cases of tuberculosis reported within the State of Washington. During the same

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1 See Table XX.
2 See Table XXI.
3 See Figures 7 and 8.

TABLE XX

DEATHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY PERSON IN ATTENDANCE, ALLOCATED TO RESIDENCE OF DECEASED, 1946

County or City	M. D.	Chiro-prac-tor	Osteo-path	Sani-prac tor	Emer-gency	Other	Health Offic-er	Coro-ner	In-dian Agent	Not Stat-ed	Total
Adams	38							4			42
Asotin	79			1				10			90
Benton	159		1					14			174
Chelan											
Rural	168		1			1		14			184
Wenatchee	147							10			157
Clallam											
Rural	96		3					3			102
Port Angeles	126							2			128
Clark											
Rural	365		4			1		23			393
Vancouver	267		2					20			289
Columbia	46										46
Cowlitz											
Rural	227		7				1	17			252
Longview	88		1					2			91
Douglas	52							6			58
Ferry	28							2			30
Franklin	71		1					4			76
Garfield	28							1			29
Grant	74					1		13			88
Grays Harbor											
Rural	203		1					36			240
Aberdeen	197						1	36			234
Hoquiam	112							25			137
Island	74							8			82
Jefferson	93							2			95
King											
Rural	1788	1	22					33			1844
Seattle	4766	1	65	3				110			4945
Kitsap											
Rural	352		1			1		53			407
Bremerton	246							18			264
Kittitas	176		2					25			203
Klickitat	68				1	2		8			79
Lewis	422		1			4	1	22			450
Lincoln	89		2			1	3	6			101
Mason	112							11			123
Okanogan	175		15			2		23		1	216
Pacific	143					1	1	6			151
Pend Oreille	41							5			46
Pierce											
Rural	639		5	2		2		70			718
Tacoma	1349		2	1				84			1436
San Juan	35							6			41
Skagit	433		1			5	6	25			470

TABLE XX (Continued)

DEATHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY PERSON IN ATTENDANCE, ALLOCATED TO RESIDENCE OF DECEASED, 1946

County or City	M. D.	Chiro-prac-tor	Osteo-path	Sani-prac-tor	Emer-gency	Other	Health Offic-er	Coro-ner	In-dian Agent	Not Stat-ed	Total
Skamania	25							5			30
Snohomish											
Rural	571	2	1					81			655
Everett	373	1	4			1	1	33			413
Spokane											
Rural	351		1				1	57			410
Spokane	1467		4	1		2	3	235			1712
Stevens	170					1		5			176
Thurston											
Rural	202		4			1		19			226
Olympia	175							10			185
Wahkiakum	32			1				2			35
Walla Walla											
Rural	120							1			121
Walla Walla	262		1					4			267
Whatcom											
Rural	280		2					21			303
Bellingham	385		5					30			420
Whitman	219		3				1	13			236
Yakima											
Rural	487	1	28			6	50	57			629
Yakima	371		37			4	29	23			464
Western St. Hosp.	338							6			344
West. St. C. Sch.	11										11
Eastern St. Hosp.	219							1			220
East. St. C. Sch.	12										12
Northern St. Hosp.	240										240
URBAN TOTAL	10331	2	121	5	0	7	34	642	0	0	11142
RURAL TOTAL	9551	4	106	4	1	29	64	718	0	1	10478
GRAND TOTAL	19882	6	227	9	1	36	98	1360	0	1	21620
Percent of Total	92.0	*	1.0	*	*	0.2	0.4	6.3	0.0	*	100.0

* Less than 0.1%

TABLE XXI

DEATHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY PLACE OF DEATH, ALLOCATED TO RESIDENCE OF DECEASED, 1946

County or City	Hospital	Other Institution	Home	At Work	Fell Dead	Other	Not Stated	Total
Adams	18	2	15			7		42
Asotin	36	8	40			6		90
Benton	90	6	60			18		174
Chelan								
Rural	85	14	68			17		184
Wenatchee	94	11	42			10		157
Clallam								
Rural	56	3	34			9		102
Port Angeles	72	8	38			10		128
Clark								
Rural	216	21	120			36		393
Vancouver	188	21	55			25		289
Columbia	20	6	17			3		46
Cowlitz								
Rural	125	25	80			22		252
Longview	61	2	24			4		91
Douglas	25	1	27			5		58
Ferry	13	4	10			3		30
Franklin	43		25			7	1	76
Garfield	8	1	19			1		29
Grant	51	29				8		88
Grays Harbor								
Rural	131	15	64			30		240
Aberdeen	134	16	64			20		234
Hoquiam	74	10	34	1	1	17		137
Island	25	9	38			10		82
Jefferson	57	2	24			12		95
King								
Rural	909	95	733	1		106		1844
Seattle	2642	224	1774			304	1	4945
Kitsap								
Rural	218	33	133			23		407
Bremerton	184	7	56			17		264
Kittitas	121	9	53			20		203
Klickitat	43	2	27			7		79
Lewis	173	63	184			29	1	450
Lincoln	43	9	43			6		101
Mason	85	6	23			9		123
Okanogan	103	7	83		1	21	1	216
Pacific	72	10	55			14		151
Pend Oreille	25	2	16			3		46
Pierce								
Rural	351	50	268			49		718
Tacoma	883	92	405			56		1436
San Juan	19	1	18			3		41
Skagit	283	12	146			29		470

TABLE XXI (Continued)

DEATHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY PLACE OF DEATH, ALLOCATED TO RESIDENCE OF DECEASED, 1946

County or City	Hospital	Other Institution	Home	At Work	Fell Dead	Other	Not Stated	Total
Skamania	11	4	11			4		30
Snohomish								
Rural	277	29	302			47		655
Everett	230	8	151			24		413
Spokane								
Rural	187	46	146			31		410
Spokane	835	143	625	1		108		1712
Stevens	105	12	38			21		176
Thurston								
Rural	106	7	96			17		226
Olympia	106	10	60			9		185
Wahkiakum	16		15			4		35
Walla Walla								
Rural	56	12	47			6		121
Walla Walla	138	24	85			20		267
Whatcom								
Rural	152	5	125			21		303
Bellingham	259	6	136			19		420
Whitman	118	41	57			20		236
Yakima								
Rural	276	58	229			66		629
Yakima	229	52	139			44		464
West. St. Hosp.	344							344
West. St. C. Sch.		11						11
North. St. Hosp.	240							240
East. St. Hosp.	220							220
East. St. C. Sch.		12						12
URBAN TOTAL	6129	634	3688	2	1	687	1	11142
RURAL TOTAL	5542	682	3489	1	1	740	3	10478
GRAND TOTAL	11671	1316	7177	3	2	1427	4	21620
Percent of Total	54.0	6.1	33.2	*	*	6.6	*	100.0

* Less than 0.1 %

period, however, the number of deaths resulting from this disease decreased. In 1937 there were 1,569 cases and 750 deaths from tuberculosis, a ratio of 2 cases to each death. In 1946 there were 2,597 cases and 702 deaths from this disease, a ratio of approximately 4 cases to each death. The increased ratio between number of reported cases and deaths from tuberculosis may be partially explained by the increased emphasis that has been placed on case finding and the subsequent treatment of the disease while in its early stages.

In 1946 the highest rate of death from tuberculosis, 80.5 per 100,000 estimated population, occurred in persons 75 years of age or older. The lowest rate, 6.0, occurred in children 5 through 14 years of age. It is significant that over the age of 25 years the number of male deaths sharply increased over the number of female deaths. Figure 8 shows the divergence between male and female deaths, and further points out that the number of male and female deaths combined approached a peak in the 35 through 44 year age group, remained fairly constant through the 55 to 64 year age group, and then sharply declined. The smaller population in these latter age groups, however, produced a relatively higher death rate per 100,000 estimated population than that in the lower age groups.

In view of the trend in tuberculosis mortality prior to and including the year 1946 in the state, and subject to the implications of forces stated on page 46 of this report, a forecast relative to tuberculosis mortality in the state is released.

If the specific mortality rate of 108.4 from tuberculosis in 1910 had prevailed in 1946, there would have been approximately 2,200 deaths from this cause instead of the 702 recorded during 1946. Conservative indications show that by 1960 the specific mortality from tuberculosis can be expected to reach 20 per 100,000 estimated population. If this objective is achieved, there would be about 500 deaths annually instead of the 702 recorded in 1946, an additional saving of perhaps 200 lives annually over the 1946 experience.

Developments on the horizon give public health officials in the state visions of reducing mortality from tuberculosis in the state to ten or less per 100,000 estimated population by 1960. Realization of this goal would mean a loss of 250 persons from this cause annually instead of the 702 recorded in 1946. In other words, there would be a saving of about 450 additional lives annually over the experience in 1946.

Accidental deaths[1]

Nearly 60 percent of all accidental deaths in the state during 1946 occurred in public places while only five percent occurred in industrial areas. Motor vehicles caused over half of the accident fatalities which occurred in public places while only 32 percent of all accidental deaths were caused by motor vehicles.

Twenty-one percent of all deaths from accidental means were attributed to accidental fall. Sixty-two percent of all deaths from accidental fall occurred in homes and 29 percent occurred in public places.

Deaths from accidental drowning was the third largest group of accidental deaths. Mortality from this cause totaled 149, or eight percent of all accidental deaths. The rate per 100,000 estimated population in 1946 was 7.3, or 19 percent higher than the 1945 rate of 6.2.

Accidents claimed the lives of 341 persons 75 years of age or older. The estimated population in this age group was 52,000, which produced an age and cause

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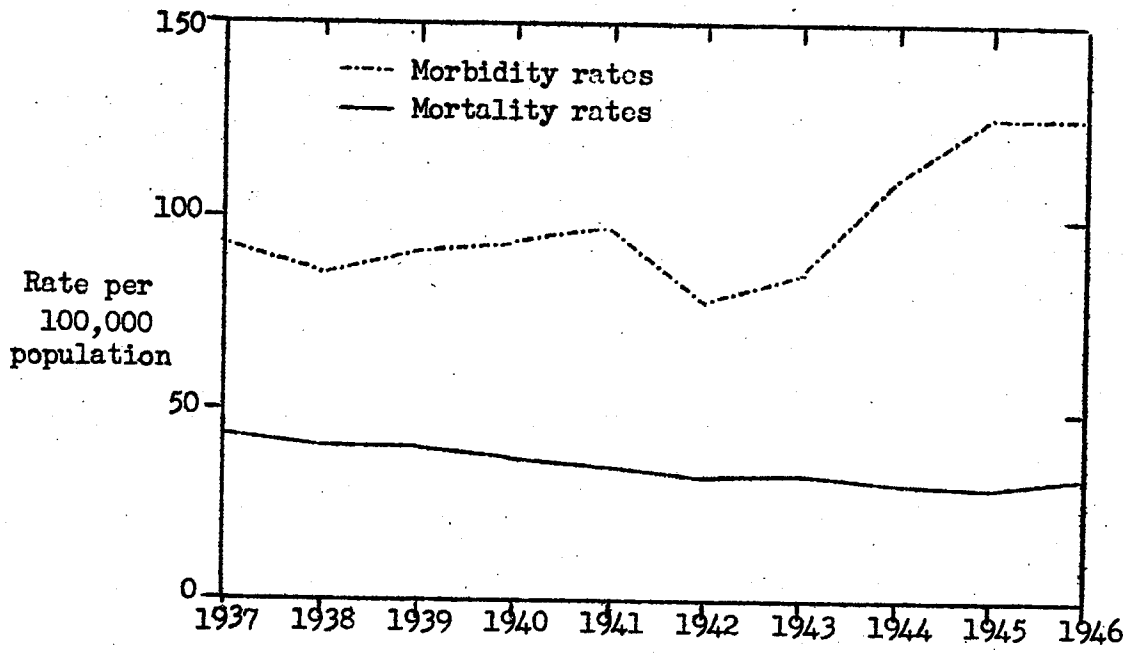
1 See Tables XXII and XXIII.

Figure 7

TREND OF MORBIDITY RATES AND MORTALITY RATES (PER 100,000 ESTIMATED POPULATION) FROM TUBERCULOSIS (ALL FORMS) IN THE STATE OF WASHINGTON, BY RESIDENCE, 1937 - 1946



NUMBER OF DEATHS FROM TUBERCULOSIS (ALL FORMS), BY SEX AND BY AGE GROUPS, WITH RATES PER 100,000 ESTIMATED POPULATION, IN THE STATE OF WASHINGTON, BY RESIDENCE, 1946

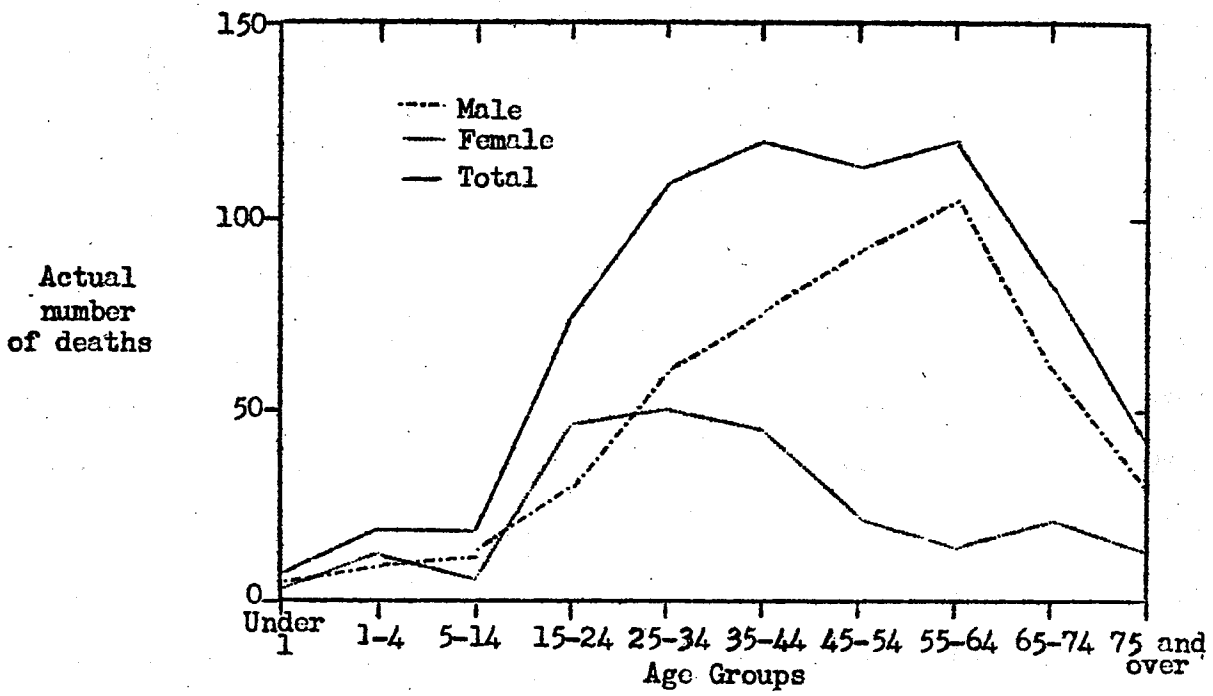
Sex	Under 1 year		1-4 years		5-14 years		15-24 years		25-34 years		35-44 years		45-54 years		55-64 years		65-74 years		75 years and over	
M	4	27.3	8	13.8	6	7.6	28	15.7	59	34.3	74	49.2	91	62.2	105	92.7	61	95.3	29	104.1
F	2	14.3	10	17.9	11	4.3	46	27.0	50	31.0	46	32.9	22	17.2	15	16.2	22	40.8	13	53.5
Tot	6	20.9	18	15.8	17	6.0	74	21.2	109	32.7	120	41.3	113	41.2	120	58.3	83	70.4	42	80.5

MORBIDITY RATES AND MORTALITY RATES (PER 100,000 ESTIMATED POPULATION) FROM TUBERCULOSIS (ALL FORMS) IN THE STATE OF WASHINGTON, BY RESIDENCE, 1946

	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946
Morbidity rates	92.6	85.5	92.1	94.5	97.8	78.0	86.6	110.7	126.4	126.7
Mortality rates	44.3	40.5	40.2	38.2	36.5	33.5	34.0	32.9	32.8	34.2

Figure 8

NUMBER OF DEATHS AND DEATH RATES (PER 100,000 ESTIMATED POPULATION) FROM TUBERCULOSIS (ALL FORMS), BY SEX, BY AGE GROUPS, IN THE STATE OF WASHINGTON, BY RESIDENCE, 1946



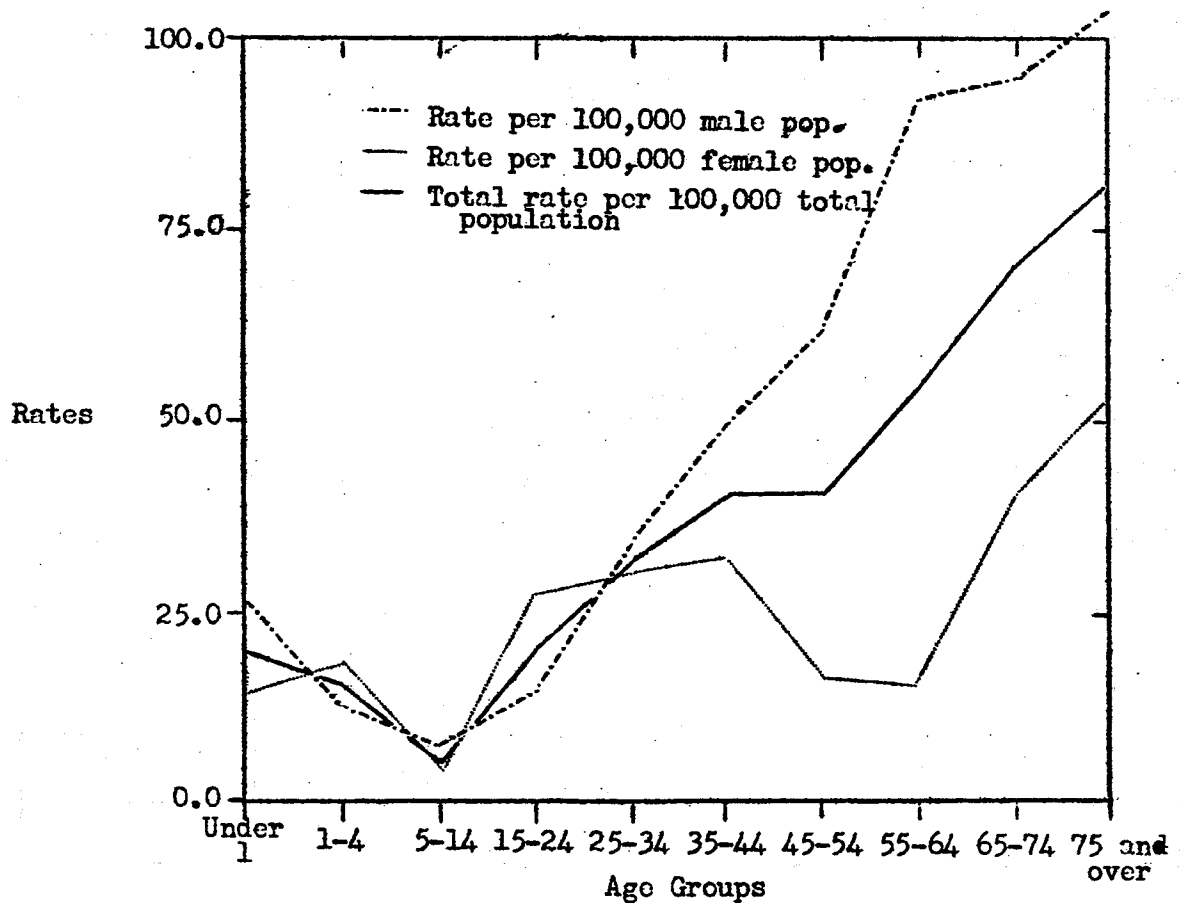


TABLE XXII

NUMBER OF DEATHS FROM ACCIDENTAL CAUSES, BY TYPE AND PLACE OF ACCIDENT, WITH PERCENTAGES OF TOTAL, STATE OF WASHINGTON, 1946

Cause of Accidental Death	Code No.	Place of Accident					
		Occupation	Home	Public Place	Farm	Unknown and not Stated	Totals
Railway accidents	169	7		35			42
Motor vehicle accidents	170	1	3	581			585
Automobile and train	170a			22			22
Auto accidents (except 170a)	170c	1	3	548			552
Motorcycle accidents	170d			11			11
Other road-transport accidents	171b			3			3
Water-transport accidents	172			33		3	36
Air-transport accidents	173			27			27
Accidents in mines and quarries	174	5		2			7
Agricultural and forestry acc.	175	16	11	54	4		85
Agricultural machinery	175a		7	4			11
Injury by animals in agriculture	175b		2	1	1		4
Other agricultural accidents	175c		1		3		4
Forestry machinery	175d	1		6			7
Other forestry accidents	175e	15	1	43			59
All other machinery accidents	176	16	1	3			20
Food poisoning	177					4	4
Absorption of poisonous gas	178	1	55	11		3	70
Illuminating gas	178a		43	5		1	49
Motor vehicle exhaust gas	178b		3	3		1	7
Other carbon monoxide gas	178c		7	1			8
Other poisonous gases	178x	1	2	2		1	6
Acute poisoning by solids or liquids	179	1	21			2	24
Arsenic and compounds	179a		1				1
Barbituric acid and derivatives	179b		4			2	6

TABLE XXII (Continued)

NUMBER OF DEATHS FROM ACCIDENTAL CAUSES, BY TYPE AND PLACE OF ACCIDENT, WITH PERCENTAGES OF TOTAL, STATE OF WASHINGTON, 1946

Cause of Accidental Death	Code No.	Place of Accident					
		Occupation	Home	Public Place	Farm	Unknown and not Stated	Totals
Mercury and compounds	179d		2				2
Lye and potash	179g		1				1
Narcotics	179m		1				1
Other substances	179x	1	12				13
Conflagration	180		75	5			80
Accidental burns	181	5	39	4			48
Mechanical suffocation	182		23	3		3	29
Drowning	183	3	10	130	2	4	149
Injury by firearms	184		19	23	2	4	48
Injury by cutting or piercing struments	185			2			2
Injury by fall or crushing	186	24	239	110		16	389
Fall	186a	18	238	109		16	381
Crushing	186b	6	1	1			8
Injury by animals	188			2			2
Excessive cold	190			4		2	6
Excessive heat	191		1			1	2
Electric currents (except lightning)	193	3	2	14			19
Poisoning by venomous animals	194					1	1
Other accidents	195	14	47	30	3	41	135
Sequelae of preventive immunization, inoculation, etc.	195a					3	3
Medical or surgical intervention	195b		1				1
Obstruction by ingested objects	195d	1	24	5		10	40
Other and unspecified accidents	195e	13	22	25	3	28	91
All causes		96	546	1,076	11	84	1,813
Percent of total		5.3	30.1	59.3	0.6	4.6	100.0

TABLE XXIII

NUMBER OF DEATHS FROM ACCIDENTAL CAUSES IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE GROUPS, WITH SPECIFIC AGE GROUP RATES FOR TOTALS, PER 100,000 ESTIMATED POPULATION, 1946

County or City	Under 5 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 & over	Un-known	Total
Adams	1			2	1				1	1		6
Asotin	2		1	3	2		1		1			10
Benton	3	6	4	1	4	5	2	3				28
Chelan												
Rural	3	5	3	3	2	1	2	2	2	2		25
Wenatchee	1		1	1	2	2		1	2	3		13
Clallam												
Rural	1	3				3		1	1			9
Port Angeles	1	3	1		1	1			2	2		11
Clark												
Rural	4	4	12	5	4	4	2	1	4	5		45
Vancouver		2	2	5	2	2	1	1	4			19
Columbia					1	1		1				3
Cowlitz												
Rural	4	3	2	7	5	9	4	2	2	1		39
Longview						2	1					3
Douglas		2				1			1			4
Ferry	1			1								2
Franklin	2	1	1	1		2	2	2				11
Garfield					1			1				2
Grant	1	2	1	2		3	1	1	1	2		14
Grays Harbor												
Rural	2	4	6	1		4	6	3	1	1		28
Aberdeen		1			2		8		3	1		15
Hoquiam	1	1	1	3	4		1		2	2		15
Island	1		1	1		3	1	1	1			9
Jefferson	1		4		3	1	2	4		1		16
King												
Rural	16	9	11	13	11	20	20	16	13	13		142
Seattle	25	6	17	31	32	43	52	54	60	19	1	340
Kitsap												
Rural	6	1	5	9	7	5	3	2	2	2		42
Bremerton	5		2	3	1		2	1	4			18
Kittitas	5		5	2	5	4	3	3	1	3		31
Klickitat	1		1	1	1	2	1		1			8
Lewis	2	4	4	9	5	2	7	2	7	5		47
Lincoln	1			1	3	1	1	2	1	1		11
Mason	2		5	2		2	3		3	1		18
Okanogan	4	3	3	4	4	2	3	2	1	1		27
Pacific	2		3	3	3	1	3	1	3	1		20
Pend Oreille	1		2	1	1	2		1				8
Pierce												
Rural	9	4	9	9	12	8	6	6	6	4		73
Tacoma	5	2	5	8	9	13	11	19	15	10		97
San Juan							1		1			2
Skagit	3	3	3	9	6	6	5	3	4	2		44

TABLE XXIII (Continued)

NUMBER OF DEATHS FROM ACCIDENTAL CAUSES IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE GROUPS, WITH SPECIFIC AGE GROUP RATES FOR TOTALS, PER 100,000 ESTIMATED POPULATION, 1946

County or City	Under 5 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 & over	Un-known	Total
Skamania				1			1					2
Snohomish												
Rural	6	5	6	4	6	5	8	5	7	2		54
Everett	1	1	1	4	1	3	6	4	3	1		25
Spokane												
Rural	6	4	4	3	5	4	4	3	8	3		44
Spokane	7	6	8	7	8	16	20	26	15	5		118
Stevens	2		4	4	3	3	1	2	8	1		28
Thurston												
Rural	4	2	1	3	2	2	4	2	2	1	1	24
Olympia				1			1	2	4			8
Wahkiakum			1	1		2			1			5
Walla Walla												
Rural			2	1	2							5
lla Walla			3	5	1	2	2	3	3	1		20
tcom												
Rural	7	2	1	2	2	5	4	2	4	1		30
Bellingham	2		2	1	5	5	2	3	9	3		32
Whitman	1	1	2	5	2	2		2	4			19
Yakima												
Rural	16	8	10	11	15	9	5	7	2	1		84
Yakima	7	2	2	6	2	5	1	5	7	2		39
West. St.Hosp.				1			1		2			4
North.St.Hosp.						1	1	4	1	1		8
East. St.Hosp.						1		2	3	3		9
URBAN TOTAL	55	24	45	75	70	94	108	119	133	49	1	773
RURAL TOTAL	120	76	117	126	118	126	108	89	100	59	1	1,040
GRAND TOTAL	175	100	162	201	188	220	216	208	233	108	2	1,813
Rate	64.3		46.5	60.2	64.8	80.3	105.0	176.5	653.5			88.4

specific mortality rate of 653.5 per 100,000 estimated population. The lowest rate, 46.5 per 100,000 estimated population, was observed in the 15 to 24 year age group. These mortality rates appear higher than other specific mortality rates. However, the rates for accidental deaths were limited to specific age groups while the rates for other leading causes have been calculated for all age groups combined and are specific for cause only.

Infant mortality[1]

The trend in the infant mortality rate in the State of Washington from 1910 to 1946 has revealed a reduction of almost two-thirds. These rates were 93.5 and 33.2 per 1,000 livebirths respectively.

Figure 9 shows that deaths attributed to premature birth, the leading cause, accounted for approximately one-third of all infant deaths during the period of 1942 through 1946. Congenital malformation was the second largest cause of infant deaths during this five-year interval.

There were 1,737 infants under one year of age who died in the state during 1946, and since 52,772 infants were born in the state during this period, the infant mortality rate by place of occurrence was 32.8 per 1,000 livebirths. By allocation to residence of the mother, there were 1,723 infant deaths and 51,941 livebirths, producing a resident infant mortality rate of 33.2 per 1,000 livebirths.

During 1946 over one-third of all infant deaths were infants within the first day of life. It is common knowledge that premature birth was the greatest offender in this group. Within the first month of life, the neonatal period, premature birth accounted for 51 percent of all infant deaths. This percentage is unfavorable when compared with the national figure of 46 percent in 1945.

Maternal mortality[2]

Column 10 of Table I shows a consistent downward trend in the maternal mortality rate for the 37-year period shown. Table XXVIII sets forth the number of maternal deaths which occurred in the years 1940 through 1946, by cause, with the percentage each cause comprised of the total. It is of interest to note that infection during childbirth and the puerperium caused the highest percentage of maternal deaths except for the years 1942 and 1946. In each of these years puerperal toxemia (excluding death before delivery) was the leading cause of maternal mortality.

The comparative rank of the causes of maternal death for the years 1942 through 1946 is shown in Figure 10. In this figure all causes have been grouped into four main classes. It is observed that septicemia ranked first in 1943 and 1945. While hemorrhage was fourth during the years 1942 through 1945, it is noteworthy that it was second in 1946.

Diseases of childbirth and the puerperium took the lives of 66 mothers in the state during 1946, resulting in a maternal mortality rate of 1.2 per 1,000 livebirths. The number of mothers who were residents of the state and died of this cause was 65, a resident maternal mortality rate of 1.2. This state rate compared favorably with the latest available national rate of 2.1 for the year 1945.

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1 See Tables I, XXIV, XXV, XXVI, and Figure 9.
2 See Tables I, XXVII, XXVIII, XXIX, XXX, and Figure 10.

TABLE XXIV

DEATHS OF INFANTS UNDER ONE YEAR OF AGE IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 1,000 LIVE BIRTHS, ALLOCATED TO RESIDENCE OF MOTHER AND BY PLACE OF OCCURRENCE, 1946

County or City	Residence		Occurrence	
	No.	Rate	No.	Rate
Adams	3	25.6	2	19.6
Asotin	4	31.0	1	200.0*
Benton	29	38.6	14	30.4
Chelan	34	36.2	43	39.8
Rural	18	31.4	7	50.7
Wenatchee	16	43.6	36	38.2
Clallam	13	23.2	13	24.3
Rural	4	15.4	2	29.0
Port Angeles	9	29.8	11	21.8
Clark	71	33.1	68	31.2
Rural	42	27.9	13	53.1
Vancouver	29	45.3	55	28.5
Columbia	2	18.9	3	26.5
Cowlitz	32	28.3	41	33.4
Rural	22	21.4	8	87.9
Longview	10	23.2	33	29.0
Douglas	6	33.1	2	400.0*
Ferry	2	25.0	0	0.0
Franklin	16	57.3	26	44.8
Garfield	2	41.7	0	0.0
Grant	11	32.7	7	41.7
Grays Harbor	50	44.4	53	47.2
Rural	21	47.0	3	20.1
Aberdeen	19	41.5	47	48.2
Hoquiam	10	45.0	3	**
Island	7	40.5	6	28.3
Jefferson	9	40.0	2	9.7
King	505	30.4	522	30.4
Rural	197	32.3	94	42.0
Seattle	308	29.2	428	28.6
Kitsap	93	33.0	84	32.5
Rural	46	33.4	12	315.8*
Bremerton	47	32.7	72	28.3
Kittitas	26	58.8	25	53.4
Klickitat	4	17.8	5	36.5
Lewis	27	27.7	27	26.4
Lincoln	10	44.0	1	13.9
Mason	6	19.8	5	18.9
Okanogan	27	40.8	23	28.1
Pacific	8	26.3	8	35.2
Pend Oreille	3	21.0	1	5.7
Pierce	168	30.5	185	30.7
Rural	63	31.6	27	29.3
Tacoma	105	29.9	158	31.0
San Juan	0	0.0	0	0.0
Skagit	44	50.7	45	50.6

TABLE XXIV (Continued)

DEATHS OF INFANTS UNDER ONE YEAR OF AGE IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 1,000 LIVE BIRTHS, ALLOCATED TO RESIDENCE OF MOTHER AND BY PLACE OF OCCURRENCE, 1946

County or City	Residence		Occurrence	
	No.	Rate	No.	Rate
Skamania	2	27.4	0	0.0
Snohomish	73	32.4	81	40.0
Rural	48	36.0	18	50.6
Everett	25	27.3	63	37.7
Spokane	153	32.8	175	32.4
Rural	36	35.0	7	47.9
Spokane	117	32.1	168	31.9
Stevens	11	30.5	12	35.1
Thurston	32	33.8	25	29.4
Rural	11	20.7	2	45.4
Olympia	21	50.4	23	28.5
Wahkiakum	8	109.6	1	**
Walla Walla	29	34.8	35	33.1
Rural	10	35.1	1	500.0*
Walla Walla	19	34.6	34	32.2
Whatcom	53	37.3	56	38.0
Rural	25	42.7	8	119.4*
Bellingham	28	33.5	48	34.1
Whitman	22	36.7	12	23.7
Yakima	128	39.6	128	39.7
Rural	88	40.8	38	58.0
Yakima	40	37.2	90	35.0
URBAN TOTAL	803	31.7	1,269	31.1
RURAL TOTAL	920	34.6	468	39.3
GRAND TOTAL	1,723	33.2	1,737	32.9

* These rates are very high due to the small number of births in relationship to the number of infant deaths.

** Since no births occurred in these areas, no infant mortality rates can be figured.

TABLE XXV

DEATHS OF INFANTS UNDER ONE YEAR OF AGE IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE OF CHILD, WITH RATES PER 1,000 LIVE BIRTHS, ALLOCATED TO RESIDENCE OF MOTHER, 1946

County or City	Under 1 day		1 day - 1 week		1 week - 1 month		1 month - 11 months		Unknown age		Total	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Adams	2	17.1					1	8.5			3	25.6
Asotin	2	15.5			1	7.8	1	7.8			4	31.0
Benton	16	21.3	8	10.6	1	1.3	4	5.3			29	38.6
Chelan											34	36.2
Rural	8	14.0	7	12.2	1	1.7	2	3.5			18	31.4
Wenatchee	4	10.9	5	13.6	3	8.2	4	10.9			16	43.6
Clallam											13	23.2
Rural	3	11.6					1	3.9			4	15.4
Port Angeles	2	6.6	6	19.9	1	3.3					9	29.8
Clark											71	33.1
Rural	14	9.3	15	10.0	4	2.7	9	6.0			42	27.9
Vancouver	11	17.2	14	21.9	3	4.7	1	1.6			29	45.3
Columbia	1	9.4	1	9.4							2	18.9
Cowlitz											32	28.3
Rural	6	8.6	6	8.6	2	2.8	8	11.4			22	31.4
Longview	6	14.0	3	7.0			1	2.3			10	23.2
Douglas	2	11.0	1	5.5	1	5.5	2	11.0			6	33.1
Ferry			1	12.5			1	12.5			2	25.0
Franklin	4	14.3	9	32.2	2	7.2	1	3.6			16	57.3
Garfield	1	20.8	1	20.8							2	41.7
Grant	2	6.0	3	8.9	3	8.9	3	8.9			11	32.7
Grays Harbor											50	44.4
Rural	7	15.6	2	4.5	5	11.2	7	15.6			21	47.0
Aberdeen	4	8.7	8	17.5	6	13.1	1	2.2			19	41.5
Hoquiam			3	13.5	2	9.0	5	22.5			10	45.0
Island	1	5.8	1	5.8	2	11.6	3	17.3			7	40.5
Jefferson	3	13.3	2	8.9	1	4.4	3	13.3			9	40.0
King											505	30.4
Rural	69	11.3	52	8.5	21	3.4	55	9.0			197	32.3
Seattle	146	13.8	68	6.4	35	3.3	59	5.6			308	29.2
Kitsap											93	33.0
Rural	25	18.1	3	2.2	3	2.2	15	10.9			46	33.4
Bremerton	24	16.7	10	7.0	7	4.9	6	4.2			47	32.7
Kittitas	8	18.1	11	24.9	3	6.8	4	9.1			26	58.8
Klickitat			2	8.9			2	8.9			4	17.8
Lewis	12	12.3	10	10.2	2	2.0	3	3.1			27	27.7
Lincoln	3	13.2	2	8.8	2	8.8	3	13.2			10	44.0
Mason	1	3.3	2	6.6	1	3.3	2	6.6			6	19.8
Okanogan	13	19.6	3	4.5	4	6.0	7	10.6			27	40.8
Pacific	1	3.3	3	9.9	1	3.3	3	9.9			8	26.3
end Oreille	1	7.0			1	7.0	1	7.0			3	21.0
Pierce											168	30.5
Rural	25	12.6	20	10.0	6	3.0	12	6.0			63	31.6
Tacoma	48	13.6	31	8.8	6	1.7	19	5.4	1	0.3	105	29.9
San Juan											0	0.0
Skagit	15	17.3	12	13.8	3	3.5	14	16.1			44	50.7

TABLE XXV (Continued)

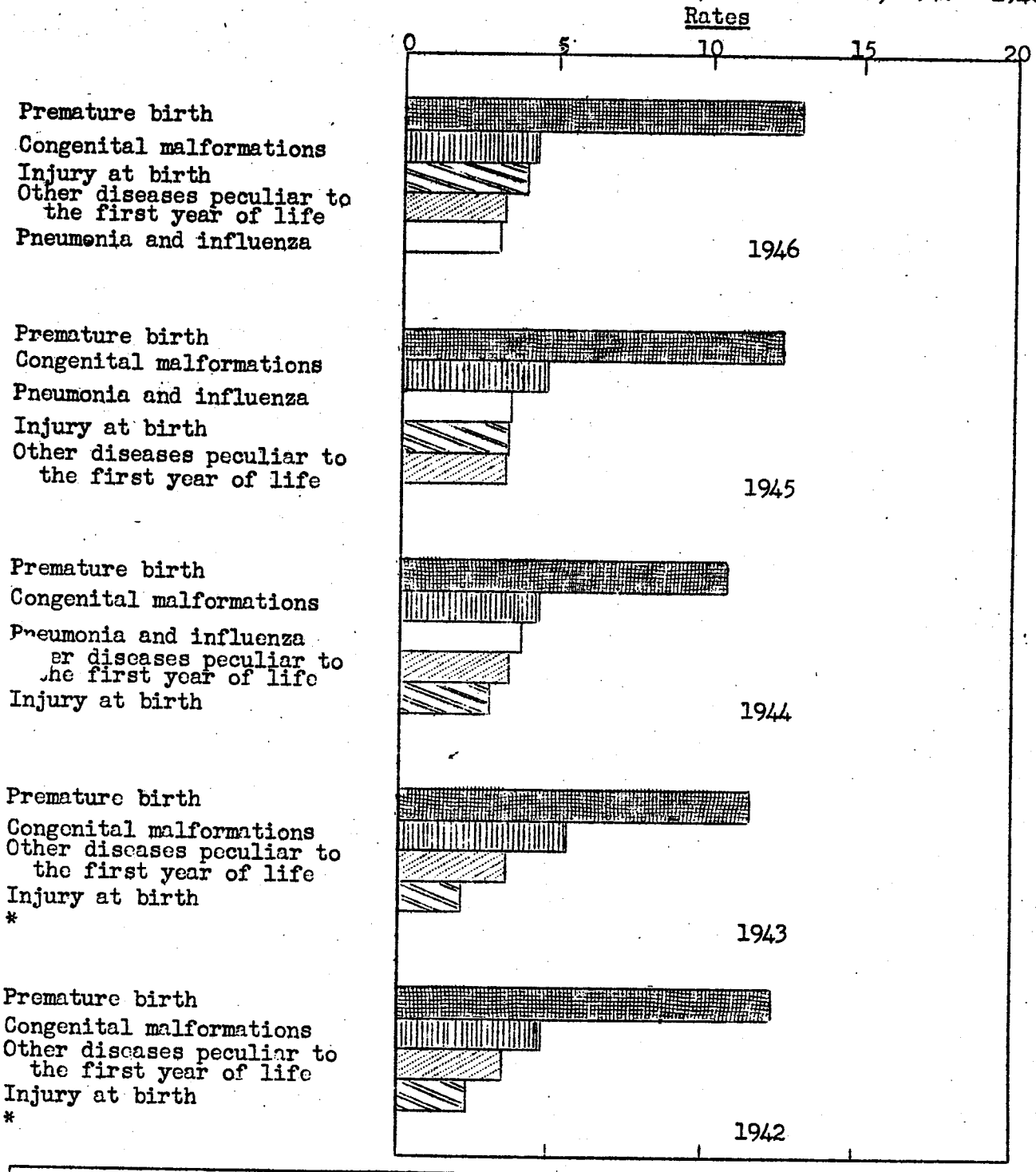
DEATHS OF INFANTS UNDER ONE YEAR OF AGE IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE OF CHILD, WITH RATES PER 1,000 LIVE BIRTHS, ALLOCATED TO RESIDENCE OF MOTHER, 1946

County or City	Under 1 day		1 day - 1 week		1 week - 1 month		1 month - 11 months		Unknown age		Total	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Skamania	1	13.7					1	13.7			2	27.4
Snohomish											73	32.4
Rural	12	9.0	14	10.5	7	5.2	15	11.2			48	36.0
Everett	12	13.1	8	8.7	2	2.2	3	3.3			25	27.3
Spokane											153	32.8
Rural	11	10.7	10	9.7	6	5.8	9	8.8			36	35.0
Spokane	42	11.5	26	7.1	23	6.3	26	7.1			117	32.1
Stevens	2	5.5	3	8.3	1	2.8	5	13.8			11	30.5
Thurston											32	33.8
Rural	2	3.8			1	1.9	8	15.1			11	20.7
Olympia	8	19.2	8	19.2	1	2.4	4	9.6			21	50.4
Wahkiakum			3	41.1	3	41.1	2	27.4			8	109.6
Walla Walla											29	34.8
Rural	3	10.5	2	7.1			5	17.5			10	35.1
Walla Walla	7	12.8	6	10.9	4	7.3	2	3.6			19	34.6
Whatcom											53	37.3
Rural	5	8.5	5	8.5	2	3.4	13	22.2			25	42.7
Bellingham	10	12.0	15	18.0			3	3.6			28	33.5
Whitman	14	23.4	5	8.3	3	5.0					22	36.7
Yakima											128	39.6
Rural	21	9.7	18	8.3	9	4.2	40	18.5			88	40.8
Yakima	10	9.3	13	12.1	1	0.9	16	14.9			40	37.2
URBAN TOTAL	334	13.2	224	8.8	94	3.7	150	5.9	1	*	803	31.7
RURAL TOTAL	316	11.9	237	8.9	102	3.8	265	10.0			920	34.6
GRAND TOTAL	650	12.5	461	8.9	196	3.8	415	8.0	1	*	1723	33.2

* Less than 0.05

Figure 9

DEATHS AND DEATH RATES (PER 1,000 LIVEBIRTHS) OF INFANTS UNDER ONE YEAR OF AGE, FROM LEADING CAUSES IN THE STATE OF WASHINGTON, BY RESIDENCE, 1942 - 1946



Cause of infant death	1942		1943		1944		1945		1946	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Premature birth	466	12.02	499	11.27	466	10.53	548	12.37	671	12.91
genital malformations	175	4.51	237	5.35	196	4.42	208	4.69	222	4.27
Injury at birth	85	2.19	85	1.92	125	2.82	154	3.47	206	3.96
Other diseases peculiar to the first year of life	131	3.38	148	3.34	152	3.43	146	3.29	170	3.27
* Pneumonia and Influenza	Not tabulated				164	3.70	155	3.49	162	3.11

TABLE XXVI

IFANT MORTALITY, BY CAUSE, IN THE COUNTIES AND CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 1,000 LIVEBIRTHS, ALLOCATED TO MOTHER'S RESIDENCE, 1946

County or City	Whooping cough (9)		Diphtheria (10)		Tuberculosis (all forms) (13-22)		All other infectious and parasitic diseases (1-8, 11, 12, 23-26, 28, 32, 34-44)		Dysentery (27), diarrhea and enteritis (119a)		Influenza (33), pneumonia (all forms) (107-109)		Congenital malformations (157)	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Adams													1	8.5
Asotin														
Benton									1	1.3	1	1.3	2	2.6
Chelan														
Rural							1	1.7	1	1.7			2	3.5
Wenatchee									3	8.2	3	8.2	3	8.2
Clallam														
Rural														
Port Angeles											1	3.3	1	3.3
Clark														
Rural							1	0.7			2	1.3	5	3.3
Vancouver													7	10.9
Columbia														
Cowlitz														
Rural					1	1.4					2	2.8	2	2.8
Longview													3	7.0
Douglas													1	5.5
Ferry									1	12.5	1	12.5		
Franklin													3	10.3
Garfield													1	20.8
Grant									1	3.0	2	6.0	1	3.0
Grays Harbor														
Rural							1	2.2			4	8.9	2	4.5
Aberdeen									2	4.4			3	6.6
Hoquiam									1	4.5	1	4.5	3	13.5
Island													1	5.3
Jefferson					1	4.4					1	4.4	1	4.4
King														
Rural	2	0.3					4	0.6	2	0.3	24	3.9	28	4.6
Seattle							1	0.1	6	0.6	14	1.3	50	4.7
itsap														
Rural					1	0.7			3	2.1	3	2.1	4	2.9
Bremerton									2	1.4	2	1.4	3	2.1
Kittitas	1	2.3									1	2.3		
Klickitat														
Lewis											2	2.0	5	5.1

TABLE XXVI (Continued)

INFANT MORTALITY, BY CAUSE, IN THE COUNTIES AND CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 1,000 LIVEBIRTHS, ALLOCATED TO MOTHER'S RESIDENCE, 1946

County or City	Whooping cough (9)		Diphtheria (10)		Tuberculosis (all forms) (13-22)		All other infectious and parasitic diseases (1-8, 11, 12, 23-26, 28, 32, 34-44)		Dysentery (27), diarrhea and enteritis (119a)		Influenza (33), pneumonia (all forms) (107-109)		Congenital malformations (157)	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Lincoln							1	4.4	1	4.4	1	4.4	1	4.4
Mason											3	9.9		
Okanogan									2	3.0	4	6.0	3	4.5
Pacific	1	3.3					1	3.3			2	6.6		
Pend Oreille	1	7.0												
Pierce														
Rural									1	0.5	2	1.0	12	6.0
Tacoma							1	0.3	1	0.3	4	1.1	16	4.6
San Juan														
Skagit					1	1.2			2	2.3	10	11.5	5	5.8
Skamania													1	13.7
Snohomish														
Rural	1	0.7							2	1.5	10	7.5	5	3.7
Everett							1	1.1			1	1.1	2	2.2
Spokane														
Rural									1	1.0	4	3.9	6	5.8
Spokane	1	0.3					3	0.8	11	3.0	11	3.0	6	1.6
Stevens											2	5.5	2	5.5
Thurston														
Rural	1	1.9					1	1.9			2	3.8	1	1.9
Olympia											3	7.2	3	7.2
Wahkiakum									2	27.4	1	13.7	2	27.4
Walla Walla														
Rural											1	3.5	2	7.0
Walla Walla											1	1.8	1	1.8
Whatcom														
Rural	1	1.7					1	1.7			5	8.5	2	3.4
Bellingham									1	1.2	1	1.2	4	4.8
Whitman							1	1.7			2	3.3	1	1.7
Yakima														
Rural	1	0.5			1	0.5	1	0.5	2	0.9	24	11.1	8	3.7
Yakima			1	0.9	1	0.9			3	2.8	4	3.7	7	6.5
URBAN TOTAL	1	*	1	*	1	*	6	0.2	30	1.2	46	1.8	112	4.4
RURAL TOTAL	9	0.3	0	0.0	5	0.2	13	0.5	22	0.8	116	4.4	110	4.1
GRAND TOTAL	10	0.2	1	*	6	0.1	19	0.4	52	1.0	162	3.1	222	4.3

* less than 1%

TABLE XXVI (Continued)

INFANT MORTALITY, BY CAUSE, IN THE COUNTIES AND CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 1,000 LIVEBIRTHS, ALLOCATED TO MOTHER'S RESIDENCE, 1946

County or City	Prematurity (159)		Injury at birth (160)		Congenital debility (158) Other diseases peculiar to first year of life (161)		Ill-defined and unknown causes (199, 200)		All other causes		All causes	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Adams	1	8.5							1	8.5	3	25.6
Asotin	2	15.5							2	15.5	4	31.0
Benton	16	21.3	5	6.6	4	5.3					29	38.6
Chelan											34	36.2
Rural	8	14.0	1	1.7	4	7.0	1	1.7			18	31.4
Wenatchee	3	8.2	3	8.2					1	2.7	16	43.6
Clallam											13	23.2
Rural	3	11.6	1	3.9							4	15.4
Port Angeles	3	9.9	3	9.9	1	3.3					9	29.8
Clark											71	33.1
Rural	20	13.3	4	2.7	6	4.0			4	2.7	42	27.9
Vancouver	14	21.9	5	7.8	2	3.1			1	1.6	29	45.3
Columbia	2	18.9									2	18.9
Cowlitz											32	28.3
Rural	4	5.7	5	7.1	3	4.3			5	7.1	22	31.4
Longview	5	11.6	1	2.3			1	2.3			10	23.2
Douglas	2	11.0					1	5.5	2	11.0	6	33.1
Ferry											2	25.0
Franklin	6	21.5	3	10.8	3	10.8			1	3.6	16	57.3
Garfield					1	20.8					2	41.7
Grant	3	8.9			2	6.0			2	6.0	11	32.7
Grays Harbor											50	44.4
Rural	11	24.6	1	2.2	2	4.5					21	47.0
Aberdeen	7	15.3	2	4.4	5	10.9					19	41.5
Hoquiam	1	4.5			3	13.5			1	4.5	10	45.0
Island	2	11.6	1	5.8					3	17.3	7	40.5
Jefferson	1	4.4	3	13.3					2	8.9	9	40.0
King											505	30.4
Rural	69	11.3	28	4.6	15	2.5			25	4.1	197	32.3
Seattle	134	12.7	36	3.4	25	2.4	2	0.2	40	3.8	308	29.2
Kitsap											93	33.0
Rural	18	13.1	5	3.6	5	3.6			7	5.1	46	33.4
Bremerton	22	15.3	10	7.0	4	2.8			4	2.8	47	32.7
Kittitas	16	36.2	1	2.3	3	6.8			4	9.0	26	58.8
Klickitat	1	4.4			2	8.9	1	4.4			4	17.8
Lewis	8	8.2	6	6.1	5	5.1			1	1.0	27	27.7

TABLE XXVI (Continued)

INFANT MORTALITY, BY CAUSE, IN THE COUNTIES AND CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 1,000 LIVEBIRTHS, ALLOCATED TO MOTHER'S RESIDENCE, 1946

County or City	Prematurity (159)		Injury at birth (160)		Congenital debility (158) Other diseases peculiar to first year of life (161)		Ill-defined and unknown causes (199, 200)		All other causes		All causes	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Lincoln	3	13.2	1	4.4					2	8.8	10	44.0
Mason	1	3.3	1	3.3					1	3.3	6	19.8
Okanogan	8	12.1	1	1.5	6	9.1			3	4.5	27	40.8
Pacific	3	9.9			1	3.3					8	26.3
Pend Oreille	1	7.0							1	7.0	3	21.0
ierce												
Rural	25	12.6	10	5.0	3	1.5	2	1.0	8	4.0	168	30.5
Tacoma	52	14.8	14	4.0	7	2.0	2	0.6	8	2.3	63	31.6
San Juan											105	29.9
Skagit	16	18.4	2	2.3	3	3.5	2	2.3	3	3.5	44	50.7
Skamania	1	13.7									2	27.4
Snohomish											73	32.4
Rural	21	15.7	2	1.5	3	2.2	1	0.7	3	2.2	48	36.0
Everett	13	14.2	4	4.4	3	3.3			1	1.1	25	27.5
Spokane											153	32.8
Rural	12	11.7	3	2.9	6	5.8	3	2.9	1	1.0	36	35.0
Spokane	45	12.4	12	3.3	20	5.5			8	2.2	117	32.1
Stevens	3	8.3			3	8.3			1	2.8	11	30.5
Thurston											32	33.8
Rural	1	1.9	1	1.9					4	7.5	11	20.7
Olympia	9	21.6	4	9.6	2	4.8					21	50.4
Wahkiakum			2	27.4					1	13.7	8	109.6
Walla Walla											29	34.8
Rural	1	3.5	1	3.5	2	7.0			3	10.5	10	35.1
Walla Walla	9	16.4	6	10.9	1	1.8			1	1.8	19	34.6
Whatcom											53	37.3
Rural	7	11.9	1	1.7	2	3.4			6	10.2	25	42.7
Bellingham	15	18.0	3	3.6	2	2.4					28	33.5
Whitman	14	23.4	1	1.7	2	3.3			1	1.7	22	36.7
Yakima											128	39.6
Rural	20	9.3	7	3.2	7	3.2	3	1.4	14	6.5	88	40.8
Yakima	9	8.4	6	5.6	2	1.9	3	2.8	4	3.7	40	37.2
URBAN TOTAL	341	13.4	109	4.3	77	3.0	10	0.4	69	2.7	803	31.7
RURAL TOTAL	330	12.4	97	3.6	93	3.5	14	0.5	111	4.2	920	34.6
GRAND TOTAL	671	12.9	206	4.0	170	3.3	24	0.5	180	3.5	1,723	33.2

TABLE XXVII

MATERNAL MORTALITY IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 1,000 LIVE BIRTHS. ALLOCATED TO RESIDENCE OF DECEASED, AND BY PLACE OF OCCURRENCE, 1946

County or City	Residence		Occurrence	
	No.	Rate	No.	Rate
Adams	0	0.0	0	0.0
Asotin	0	0.0	0	0.0
Benton	1	1.3	1	2.2
Chelan	1	1.1	1	0.9
Rural	1	1.7	0	0.0
Wenatchee	0	0.0	1	1.1
Clallam	1	1.8	1	1.9
Rural			0	0.0
Port Angeles	1	3.3	1	2.0
Clark	1	0.5	3	1.4
Rural	1	0.7	1	4.1
Vancouver	0	0.0	2	1.0
Columbia				
Cowlitz	2	1.8	3	2.4
Rural	1	1.4	0	0.0
Longview	1	2.3	3	2.6
Douglas	0	0.0	0	0.0
Ferry	0	0.0	0	0.0
Franklin	1	3.6	1	1.7
Garfield	1	20.8	1	90.9
Grant	0	0.0	0	0.0
Grays Harbor	3	2.7	3	2.7
Rural	1	2.2	1	6.7
Aberdeen	2	4.4	2	2.1
Hoquiam	0	0.0	0	0.0
Island	0	0.0	0	0.0
Jefferson	0	0.0	0	0.0
King	19	1.1	19	1.1
Rural	5	0.8	2	0.9
Seattle	14	1.3	17	1.1
Kitsap	4	1.4	4	1.5
Rural	2	1.4	0	0.0
Bremerton	2	1.4	4	1.6
Kittitas	1	2.3	1	2.1
Klickitat	0	0.0	0	0.0
Lewis	1	1.0	1	1.0
Lincoln	0	0.0	0	0.0
Mason	0	0.0	0	0.0
Okanogan	0	0.0	0	0.0
Pacific	1	3.3	0	0.0
Pend Oreille	0	0.0	0	0.0
Pierce	4	0.7	4	0.7
Rural	1	0.5	0	0.0
Tacoma	3	0.8	4	0.8
San Juan	0	0.0	0	0.0
Skagit	0	0.0	0	0.0

TABLE XXVII (Continued)

MATERNAL MORTALITY IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 1,000 LIVE BIRTHS, ALLOCATED TO RESIDENCE OF DECEASED, AND BY PLACE OF OCCURRENCE, 1946

County or City	Residence		Occurrence	
	No.	Rate	No.	Rate
Skamania	0	0.0	0	0.0
Snohomish	2	0.9	1	0.5
Rural	1	0.7	1	2.8
Everett	1	1.1	0	0.0
Spokane	6	1.3	7	1.3
Rural	3	2.9	1	6.8
Spokane	3	0.8	6	1.1
Stevens	1	2.8	1	2.9
Thurston	1	1.0	1	1.2
Rural	0	0.0	0	0.0
Olympia	1	2.4	1	1.2
Wahkiakum	0	0.0	0	0.0
Walla Walla	3	3.6	3	2.8
Rural	2	7.0	0	0.0
Walla Walla	1	1.8	3	2.8
Whatcom	3	2.1	3	2.0
Rural	1	1.7	0	0.0
Bellingham	2	2.4	3	2.1
Whitman	1	1.7	0	0.0
Yakima	7	2.2	7	2.2
Rural	5	2.3	1	1.5
Yakima	2	1.9	6	2.3
URBAN TOTAL	33	1.3	53	1.3
RURAL TOTAL	32	1.2	13	1.1
GRAND TOTAL	65	1.2	66	1.2

TABLE XXVIII

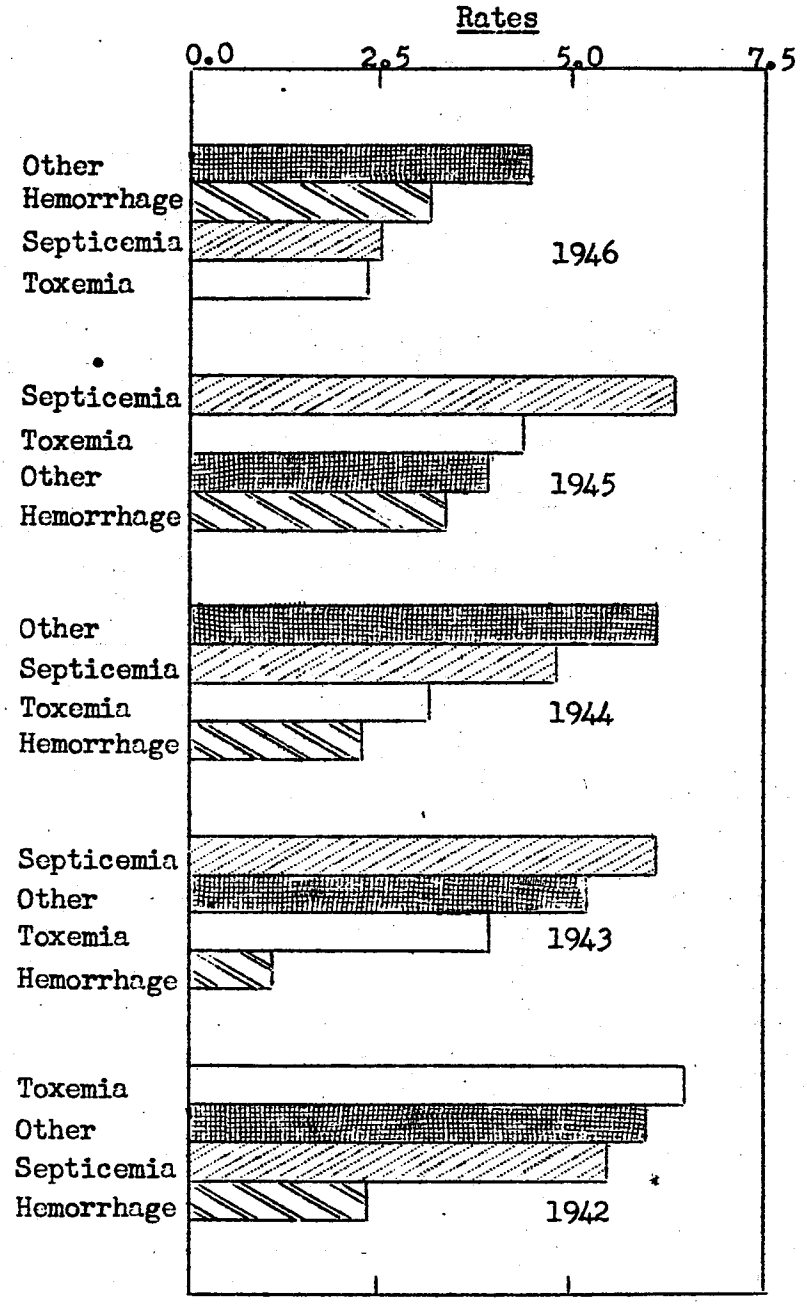
RESIDENT MATERNAL DEATHS IN THE STATE OF WASHINGTON, BY CAUSE OF DEATH, WITH RATES FOR ALL CAUSES AND PERCENTAGES OF TOTAL, 1940 - 1946

Cause of Maternal Death		Number of Deaths							Percentage of Total						
		1940	1941	1942	1943	1944	1945	1946	1940	1941	1942	1943	1944	1945	1946
All Causes	Number	89	66	78	72	72	79	65							
	Rate *	3.2	2.1	2.0	1.6	1.6	1.8	1.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Abortion with mention of infection (140)		6	6	7	5	7	9	4	6.7	9.1	9.0	6.9	9.7	11.4	6.2
Abortion without mention of infection (141)		3	5	7	3	8	5	6	3.4	7.6	9.0	4.2	11.1	6.3	9.2
Ectopic gestation (142)		3	5	6	7	4	2	5	3.4	7.6	7.7	9.7	5.6	2.5	7.7
Hemorrhage of pregnancy (death before delivery) (143)		4	1	1	0	1	1	3	4.5	1.5	1.3	0.0	1.4	1.3	4.6
Toxemias of pregnancy (death before delivery) (144)		13	5	8	4	5	8	1	14.6	7.6	10.3	5.6	6.9	10.1	1.5
Other diseases and accidents of pregnancy (death before delivery) (145)		2	3	1	4	4	3	3	2.2	4.5	1.3	5.6	5.6	3.8	4.6
Hemorrhages of childbirth and the puerperium (146)		10	5	8	5	9	14	14	11.2	7.6	10.3	6.9	12.5	17.7	21.5
Infection during childbirth and the puerperium (147)		17	16	13	21	13	19	9	19.1	24.2	16.7	29.1	18.0	24.0	13.8
Puerperal toxemias (excluding death before delivery) (148)		17	13	14	13	8	10	11	19.1	19.7	17.9	18.0	11.1	12.7	16.9
Other accidents and specified conditions of childbirth (149)		13	7	9	8	13	8	7	14.6	10.6	11.5	11.1	18.0	10.1	10.8
Other and unspecified conditions of childbirth and the puerperium (150)		1	0	4	2	0	0	2	1.1	0.0	5.1	2.8	0.0	0.0	3.1

* Rate per 1,000 livebirths

Figure 10

DEATHS AND DEATH RATES (PER 10,000 LIVEBIRTHS) FROM PUERPERAL CAUSES IN THE STATE OF WASHINGTON, BY RESIDENCE, 1942 - 1946



Cause of maternal death	1942		1943		1944		1945		1946	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Puerperal infection (septicemia) (140, 142A, 147)	21	5.42	27	6.10	21	4.75	28	6.32	13	2.50
Toxemias (141A, 141C, 144, 148)	25	6.45	17	3.84	14	3.16	19	4.29	12	2.31
Hemorrhage (143, 146)	9	2.32	5	1.13	10	2.26	15	3.39	17	3.27
Other (141B, 141D, 141E, 141F, 142B, 145, 149, 150)	23	5.94	23	5.20	27	6.10	17	3.84	23	4.43
Totals	78	20.13	72	16.27	72	16.27	79	17.83	65	12.51

TABLE XXIX

MATERNAL MORTALITY IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY CAUSE OF DEATH, WITH RATES PER 1,000 LIVE BIRTHS, 1946

County or City	Abortion with mention of infection (140)	Abortion without mention of infection (141)	Ectopic gestation (142)	Hemorrhage of pregnancy (death before delivery) (143)	Toxemias of pregnancy (death before delivery) (144)	Other dis. & accidents of preg. (death before delivery) (145)	Hemorrhage of childbirth and the puerperium (146)	Infection during childbirth and the puerperium (147)	Puerperal toxemias (excluding death before delivery) (148)	Other accidents and specified conditions of childbirth (149)	Other and unspecified conditions of childbirth and the puerperium (150)	All Causes	Rate per 1,000 live births
Adams												0	0.0
Asotin												0	0.0
Benton							1					1	1.3
Chelan												1	1.1
Rural								1				1	1.7
Wenatchee												0	0.0
Clallam												1	1.8
Rural												0	0.0
Port Angeles								1				1	3.3
Clark												1	0.5
Rural		1										1	0.7
Vancouver												0	0.0
Columbia												0	0.0
Cowlitz												2	1.8
Rural				1								1	1.4
Longview	1											1	2.3
Douglas												0	0.0
Ferry												0	0.0
Franklin	1											1	3.6
Garfield											1	1	20.8
Grant												0	0.0
Grays Harbor												3	2.7
Rural										1		1	2.2
Aberdeen		1	1									2	4.4
Hoquiam												0	0.0
Island												0	0.0
Jefferson												0	0.0
King												19	1.1
Rural		1	1	1			1		1			5	0.8
Seattle		3	1			1	3	1	3	2		14	1.3
Kitsap												4	1.4
Rural	1						1					2	1.4
Bremerton								1			1	2	1.4
Kittitas				1								1	2.3
Klickitat												0	0.0
Lewis						1						1	1.0

TABLE XXIX (Continued)

MATERNAL MORTALITY IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY CAUSE OF DEATH, WITH RATES PER 1,000 LIVE BIRTHS, 1946

County or City	Abortion with mention of infection (140)	Abortion without mention of infection (141)	Ectopic gestation (142)	Hemorrhage of pregnancy (death before delivery) (143)	Toxemias of pregnancy (death before delivery (144)	Other dis. & accidents of preg. (death before delivery (145)	Hemorrhage of childbirth and the puerperium (146)	Infection during childbirth and the puerperium (147)	Puerperal toxemias (excluding death before delivery (148)	Other accidents and specified conditions of childbirth (149)	Other and unspecified conditions of childbirth and the puerperium (150)	All causes	Rate per 1,000 live births
Lincoln												0	0.0
Mason												0	0.0
Okanogan												0	0.0
Pacific									1			1	3.3
Pend Oreille													
Pierce												4	0.7
Rural										1		1	0.5
Tacoma	1					1			1			3	0.8
San Juan												0	0.0
Skagit												0	0.0
Skamania												0	0.0
Snohomish												2	0.9
Rural								1				1	0.7
Everett							1					1	1.1
Spokane												6	1.3
Rural							1	1	1			3	2.9
Spokane			1				1			1		3	0.8
Stevens									1			1	2.8
Thurston												1	1.0
Rural												0	0.0
Olympia							1					1	2.4
Wahkiakum												0	0.0
Walla Walla												3	3.6
Rural								1		1		2	7.0
Walla Walla									1			1	1.8
Whatcom												3	2.1
Rural							1					1	1.7
Bellingham					1			1				2	2.4
Whitman							1					1	1.7
Yakima												7	2.2
Rural			1				1	1	1	1		5	2.3
Yakima							1		1			2	1.9
URBAN TOTAL	2	4	3	0	1	2	7	4	6	3	1	33	1.3
RURAL TOTAL	2	2	2	3	0	1	7	5	5	4	1	32	1.2
GRAND TOTAL	4	6	5	3	1	3	14	9	11	7	2	65	1.2

TABLE XXX

MATERNAL MORTALITY IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE GROUPS, WITH RATES PER 1,000 LIVE BIRTHS, ALLOCATED TO RESIDENCE OF DECEASED, 1946

County or City	15-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40 years and over	Total
Adams							0
Asotin							0
Benton					1		1
Chelan							1
Rural	1						1
Wenatchee							0
Clallam							1
Rural							0
Port Angeles						1	1
Clark							1
Rural			1				1
Vancouver							0
Columbia							0
Cowlitz							2
Rural		1					1
Longview				1			1
Douglas							0
Ferry							0
Franklin		1					1
Garfield				1			1
Grant							0
Grays Harbor							3
Rural				1			1
Aberdeen				2			2
Hoquiam							0
Island							0
Jefferson							0
King							19
Rural				3	2		5
Seattle	1	3	5	2	1	2	14
Kitsap							4
Rural				2			2
Bremerton		1	1				2
Kittitas		1					1
Klickitat							0
Lewis		1					1
Lincoln							0
Mason							0
Okanogan							0
Pacific			1				1
Pend Oreille							0
Pierce							4
Rural						1	1
Tacoma		1			1	1	3
San Juan							0
Skagit							0

TABLE XXX (Continued)

MATERNAL MORTALITY IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE GROUPS, WITH RATES PER 1,000 LIVE BIRTHS, ALLOCATED TO RESIDENCE OF DECEASED, 1946

County or City	15-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40 years and over	Total
Skamania							0
Snohomish							2
Rural				1			1
Everett			1				1
Spokane							6
Rural		1			1	1	3
Spokane				2	1		3
Stevens		1					1
Thurston							1
Rural							0
Olympia		1					1
Wahkiakum							0
Walla Walla							3
Rural					2		2
Walla Walla	1						1
Whatcom							3
Rural				1			1
Bellingham			2				2
Whitman				1			1
Yakima							7
Rural		2		2	1		5
Yakima					2		2
URBAN TOTAL	2	6	9	7	5	4	33
RURAL TOTAL	1	8	2	12	7	2	32
GRAND TOTAL	3	14	11	19	12	6	65
Rate	0.6	0.8	0.7	2.2	2.9	6.1	1.2

It is very important to bear in mind when considering statistics such as presented in maternal mortality rates that such rates are considerably affected by the chance variation inherent in small numbers. One or two maternal deaths in a sparsely populated area may increase or decrease the observed rate beyond certain limits.

In 1946, maternal mortality in the state by age groups showed a variation from 0.6 per 1,000 livebirths to mothers in the specific age group 15 to 19 years, to 6.1 per 1,000 livebirths to mothers in the specific age group 40 years and older. The smallest number of livebirths (986) in any age group of mothers was to those 40 years and older. The two age groups which revealed very low rates (the 20 to 24 and the 25 to 29 year groups) showed the highest number of births, 17,972 and 15,292 respectively.

Stillbirths[1]

The trend in the stillbirth rate in the State of Washington during the 37-year period, 1910 through 1946, was a favorable one. In 1910, the rate was 35.4 per 1,000 livebirths as compared with a rate of 16.7 per 1,000 livebirths in 1946. In this period of time, the stillbirth rate improved by a ratio of more than two to one.

The stillbirth rate by place of occurrence during 1946 was 17.0 per 1,000 livebirths, and by residence of mother was 16.7 per 1,000 livebirths. Disease in, or accident to the mother (toxemia, albuminuria and antepartum hemorrhage) caused almost one-third of all stillbirths in this year. Two hundred eighty-two, or 32.5 percent of the 869 stillbirths, were in this group. The next highest cause of stillbirth was death to the fetus by injury or other cause (inertia or rupture of uterus, prolapse, compression and thrombosis of cord, malpresentation and difficult labor), which caused 21.8 percent of the total number of stillbirths. Abortion, miscarriage and premature birth caused 12.6 percent, and anomalies of the fetus, placenta and cord caused 9.2 percent of the stillbirths.

1 See Tables I, XXXI and XXXII.

TABLE XXXI

STILLBIRTHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 1,000 LIVEBIRTHS, ALLOCATED TO RESIDENCE OF MOTHER AND BY PLACE OF OCCURRENCE, 1946

County or City	Residence		Occurrence	
	No.	Rate	No.	Rate
Adams	2	17.1	2	19.6
Asotin	0	0.0	0	0.0
Benton	8	10.6	5	10.9
Chelan	15	16.0	19	17.6
Rural	11	19.2	3	21.7
Wenatchee	4	10.9	16	17.0
Clallam	5	8.9	5	9.3
Rural	1	3.9	0	0.0
Port Angeles	4	13.2	5	9.9
Clark	28	13.1	36	16.5
Rural	18	12.0	8	32.6
Vancouver	10	15.6	28	14.5
Columbia	1	9.4	1	8.8
Cowlitz	28	24.7	27	22.0
Rural	22	31.4	0	0.0
Longview	6	13.9	27	23.7
Douglas	6	33.1	0	0.0
Ferry	0	0.0	0	0.0
Franklin	4	14.3	9	15.5
Garfield	0	0.0	0	0.0
Grant	4	11.9	3	17.8
Grays Harbor	22	19.5	22	19.6
Rural	11	24.6	2	13.4
Aberdeen	8	17.5	20	20.5
Hoquiam	3	13.5	0	0.0
Island	5	28.9	2	9.4
Jefferson	2	8.9	2	9.7
King	286	17.2	294	17.1
Rural	88	14.4	43	19.2
Seattle	198	18.8	251	16.8
Kitsap	45	16.0	42	16.3
Rural	27	19.6	0	0.0
Bremerton	18	12.5	42	16.5
Kittitas	10	22.6	10	21.4
Klickitat	1	4.4	1	7.3
Lewis	13	13.3	16	15.6
Lincoln	4	17.6	1	13.9
Mason	4	13.2	3	11.3
Okanogan	12	18.1	15	18.3
Pacific	8	26.3	9	39.6
Pend Oreille	1	7.0	0	0.0
Pierce	110	20.0	118	19.6
Rural	43	21.6	15	16.3
Tacoma	67	19.1	103	20.2
San Juan	0	0.0	0	0.0
Skagit	9	10.4	12	13.5

TABLE XXXI (Continued)

STILLBIRTHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 1,000 LIVEBIRTHS, ALLOCATED TO RESIDENCE OF MOTHER AND BY PLACE OF OCCURRENCE, 1946

County or City	Residence		Occurrence	
	No.	Rate	No.	Rate
Skamania	0	0.0	0	0.0
Snohomish	35	15.6	31	15.3
Rural	27	20.2	11	30.9
Everett	8	8.7	20	12.0
Spokane	69	14.8	86	15.9
Rural	11	10.7	3	20.5
Spokane	58	15.9	83	15.8
Stevens	3	8.3	2	5.8
Thurston	23	24.3	16	18.8
Rural	12	22.6	1	22.7
Olympia	11	26.4	15	18.6
Wahkiakum	0	0.0	0	0.0
Walla Walla	13	15.6	14	13.2
Rural	5	17.5	0	0.0
Walla Walla	8	14.6	14	13.2
Whatcom	28	19.7	29	19.7
Rural	15	25.6	1	14.9
Bellingham	13	15.6	28	19.9
Whitman	10	16.7	6	11.8
Yakima	55	17.0	59	18.3
Rural	38	17.6	12	18.3
Yakima	17	15.8	47	18.3
URBAN TOTAL	433	17.1	699	17.1
RURAL TOTAL	436	16.4	198	16.6
GRAND TOTAL	869	16.7	897	17.0

TABLE XXXII

STILLBIRTHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY CAUSE, WITH RATES PER 1,000 LIVEBIRTHS, ALLOCATED TO RESIDENCE OF MOTHER, 1946

County or City	Diseases in, or accidents to mother	Anomalies of fetus, placenta or cord	Death of fetus by injury or other causes	Abortion, miscarriage or premature birth	Other specified causes	Cause unspecified or unknown	Totals	Rate per 1,000 livebirths
Adams	1	1					2	17.1
Asotin							0	0.0
Benton	5		1		1	1	8	10.6
Chelan							15	16.0
Rural	4		2	1	3	1	11	19.2
Wenatchee	2				1	1	4	10.9
Clallam							5	8.9
Rural						1	1	3.9
Port Angeles	1		1		1	1	4	13.2
Clark							28	13.1
Rural	11		2		2	3	18	12.0
Vancouver	4		3	2	1		10	15.6
Columbia	1						1	9.4
Cowlitz							28	24.7
Rural	8	4	2	4	2	2	22	31.4
Longview			1	1	1	3	6	13.9
Douglas	3		3				6	33.1
Ferry							0	0.0
Franklin		1	3				4	14.3
Garfield							0	0.0
Grant	1		1	1		1	4	11.9
Grays Harbor							22	19.5
Rural	6	1	1	2	1		11	24.6
Aberdeen	3	1	1	1	1	1	8	17.5
Hoquiam	2			1			3	13.5
Island	1		3		1		5	28.9
Jefferson	1			1			2	8.9
King							286	17.2
Rural	20	11	18	10	11	18	88	14.4
Seattle	61	19	35	36	27	20	198	18.8
Kitsap							45	16.0
Rural	12	2	6	3	3	1	27	19.6
Bremerton	5	1	8	1	1	2	18	12.5
Kittitas	5		2	1	1	1	10	22.6
Klickitat			1				1	4.4
Lewis	2	4	2	2	3		13	13.3
Lincoln	1		2		1		4	17.6
Mason			1	2		1	4	13.2
Okanogan	3		6		1	2	12	18.1
Pacific	4		3	1			8	26.3
Pend Oreille	1						1	7.0
Pierce							110	20.0
Rural	13	4	11	4	2	9	43	21.6
Tacoma	16	11	12	10	8	10	67	19.1
San Juan							0	0.0
Skagit	4		1			4	9	10.4

TABLE XXXII (Continued)

STILLBIRTHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY CAUSE, WITH RATES PER 1,000 LIVEBIRTHS, ALLOCATED TO RESIDENCE OF MOTHER, 1946

County or City	Diseases in, or accidents to mother	Anomalies of fetus, placenta or cord	Death of fetus by injury or other causes	Abortion, miscarriage or premature birth	Other specified causes	Cause unspecified or unknown	Totals	Rate per 1,000 livebirths
Skamania							0	0.0
Snohomish							35	15.6
Rural	7	3	10		3	4	27	20.2
Everett	2		3		2	1	8	8.7
Spokane							69	14.8
Rural	6		3		2		11	10.7
Spokane	19	7	6	10	5	11	58	15.9
Stevens	1		1			1	3	8.3
Thurston							23	24.3
Rural	5		5	2			12	22.6
Olympia	3		2	2		4	11	26.4
Wahkiakum							0	0.0
Walla Walla							13	15.6
Rural	2	1	1	1			5	17.5
Walla Walla	2	1	4			1	8	14.6
Whatcom							28	19.7
Rural	6	3	3	1	1	1	15	25.6
Bellingham	8	2	1			2	13	15.6
Whitman	2		2	1	2	3	10	16.7
Yakima							55	17.0
Rural	13	2	10	6	3	4	38	17.6
Yakima	5	1	7	2	1	1	17	15.8
URBAN TOTAL	133	43	84	66	49	58	433	17.1
RURAL TOTAL	149	37	106	43	43	58	436	16.4
GRAND TOTAL	282	80	190	109	92	116	869	16.7

SECTION III

* * * * *

COMMUNICABLE DISEASE

CASES AND DEATHS

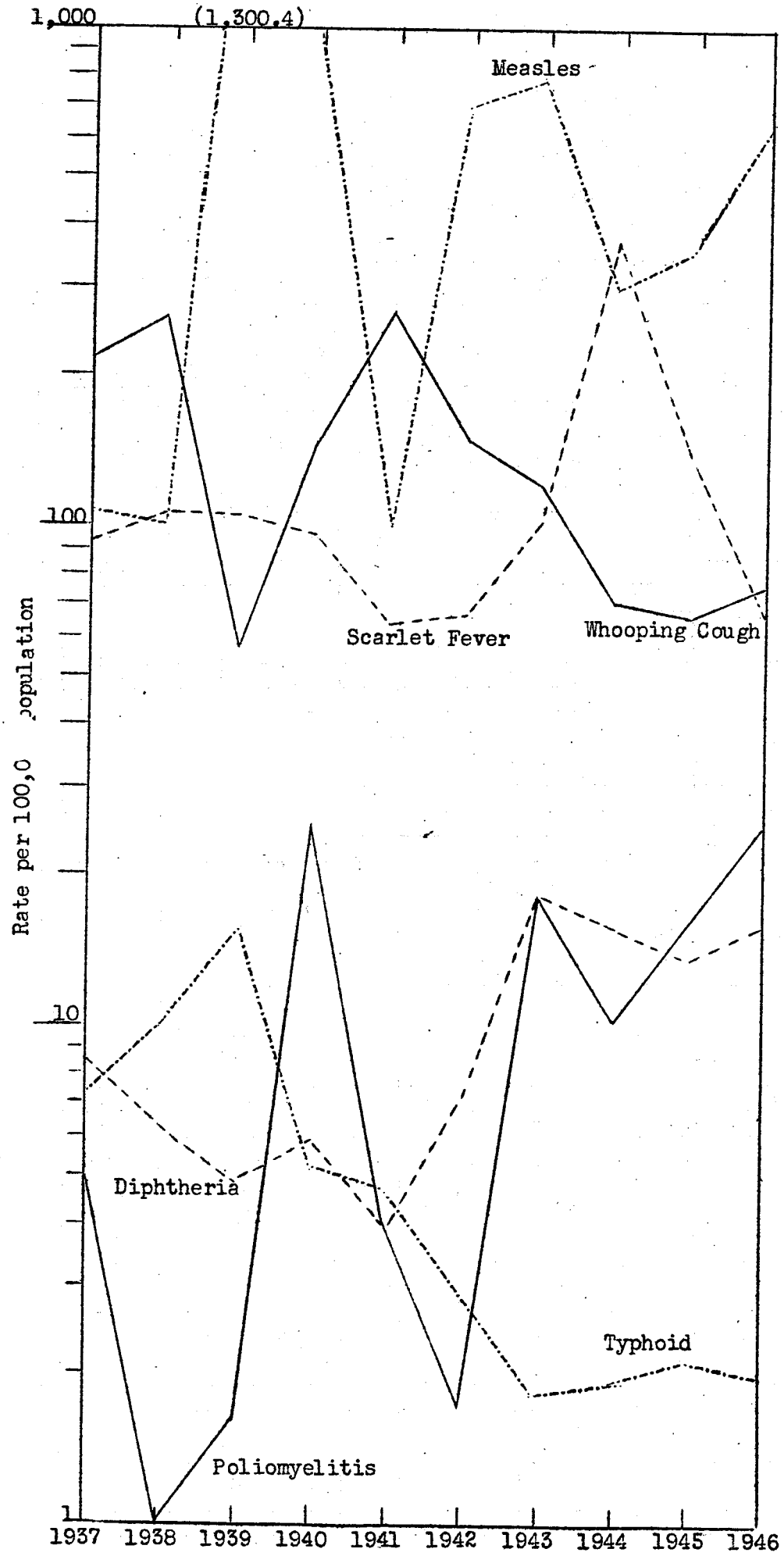


Figure 11

RATES PER 100,000 ESTIMATED POPULATION FOR CASES OF SELECTED COMMUNICABLE DISEASES REPORTED IN THE STATE OF WASHINGTON, 1937 - 1946

TABLE XXXIV

REPORTED CASES OF DIPHTHERIA, POLIOMYELITIS AND WHOOPING COUGH IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY SINGLE YEARS OF AGE UNDER 5 YEARS, ALLOCATED TO RESIDENCE OF DECEASED, 1946

County or City	DIPHTHERIA					POLIOMYELITIS					WHOOPING COUGH				
	Under 1 yr	1 yr	2 yrs	3 yrs	4 yrs	Under 1 yr	1 yr	2 yrs	3 yrs	4 yrs	Under 1 yr	1 yr	2 yrs	3 yrs	4 yrs
Adams											1	3	4	5	
Asotin											2				
Benton		2		1		1	1		2	1	1		1	3	2
Chelan															
Rural		1		2					1	1	1	2	2	5	4
Wenatchee										1	1	3	3	4	2
Clallam															
Rural											2		3	2	1
Port Angeles											3	1	3		2
Clark															
Rural					1				1		2	1	2		2
Vancouver										1	2	3	2	5	1
Columbia									1						
Cowlitz															
Rural								2			1		1		1
Longview					1					2	3	2		1	1
Douglas											1	1	2	2	1
Ferry															
Franklin				1						1					
Garfield															
Grant										1		1	2		1
Grays Harbor															
Rural															
Aberdeen								1	2					1	
Hoquiam												1			
Island															
Jefferson											1	2	5	2	2
King															
Rural		2	1	2	2		2		2	4	25	14	26	24	36
Seattle		1	2	4	6	2	3	1	2	3	3	3	6	6	7
Kitsap															
Rural		1	1					1			4	6	5	2	5
Bremerton							1				1		2	2	1
Kittitas				1	2		1			1	1	1	1		1
Klickitat															
Lewis		1	2	2	1				1	1			1		
Lincoln															
Mason					1										
Okanogan	2	1	1	2	1						1	1	2	2	2
Pacific															
Pend Oreille								1							
Pierce															
Rural			2				1		3	1	9	10	4	7	4
Tacoma					1	1	1	1		1	24	18	22	26	10
San Juan															
Skagit						2		3	2	1		1			

TABLE XXXIII

NUMBER OF CASES OF REPORTABLE DISEASES IN THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, TEN-YEAR AVERAGES AND TEN-YEAR MEDIANS, 1957 - 1946

Disease		Ten year average	Ten year median	1946	1945	1944	1943	1942	1941	1940	1939	1938	1937
Botulism	No.	4	3	1	0	6	2	1	1	4	16	8	6
	Rate	0.2		*	0	0.3	0.1	*	*	0.2	0.9	0.5	0.4
Chickenpox	No.	6,950	7,028	4,647	8,357	8,112	7,759	7,843	7,158	5,540	6,879	6,899	6,309
	Rate	373.0		226.7	411.1	408.4	391.4	414.0	393.8	318.0	398.6	403.5	372.4
Diphtheria	No.	192	139	326	278	313	357	133	71	103	84	106	145
	Rate	10.3		15.9	13.7	15.8	18.0	7.0	3.9	5.9	4.9	6.2	8.6
Dysentery, amebic	No.	6	7	13	7	4	8	2	7	8	7	2	5
	Rate	0.3		0.6	0.3	0.2	0.4	0.1	0.4	0.4	0.4	0.1	0.3
Bacillary	No.	42	22	54	237	7	7	5	21	35	6	22	28
	Rate	2.3		2.6	11.6	0.4	0.4	0.3	1.2	2.0	0.3	1.3	1.6
Unspecified	No.	-	-	175	549	-	-	-	-	-	-	-	-
	Rate	-		8.5	27.0	-	-	-	-	-	-	-	-
Epidemic diarrhea of newborn	No.	-	-	19	105	-	-	-	-	-	-	-	-
	Rate	-		0.9	5.2	-	-	-	-	-	-	-	-
Encephalitis	No.	41	36	33	39	11	25	43	43	112	54	22	27
	Rate	2.2		1.6	1.9	0.6	1.3	2.3	2.4	6.4	3.1	1.3	1.6
Erysipelas	No.	57	60	41	65	100	74	35	21	44	62	58	74
	Rate	3.1		2.0	3.2	5.0	3.7	1.8	1.2	2.5	3.6	3.4	4.4
Food poisoning	No.	276	15	82	187	9	2,278	8	2	169	21	2	5
	Rate	14.8		4.0	9.2	0.4	114.9	0.4	0.1	9.7	1.2	0.1	0.3
German measles	No.	2,268	984	911	1,134	2,000	5,257	1,057	11,269	570	166	136	176
	Rate	121.7		44.4	55.8	100.7	265.2	55.8	620.0	32.7	9.6	8.0	10.4
Influenza	No.	2,863	964	278	10,251	600	4,036	351	1,329	9,539	180	196	1,873
	Rate	153.6		13.6	504.2	30.2	203.6	18.5	73.1	547.6	10.4	11.5	110.6
Leprosy	No.	*	*	1	1	0	0	0	1	0	0	0	0
	Rate	*		*	*	0	0	0	*	0	0	0	0
Malaria	No.	6	2	29	10	1	1	3	8	2	1	5	0
	Rate	0.3		1.4	0.5	*	*	0.2	0.4	0.1	*	0.3	0
Measles	No.	9,890	9,783	12,405	7,161	5,893	15,458	12,926	1,857	17,254	22,439	1,709	1,798
	Rate	530.7		605.1	352.2	296.7	779.8	682.3	102.2	990.4	1,300.4	100.0	106.1
Meningococcic meningitis	No.	80	52	60	71	240	242	49	25	23	17	20	55
	Rate	4.3		2.9	3.5	12.1	12.2	2.6	1.4	1.3	1.0	1.2	3.2
Mumps	No.	5,879	5,146	4,409	7,327	5,081	6,447	12,367	8,336	2,911	2,069	5,211	4,633
	Rate	315.5		215.1	360.4	255.8	325.2	652.8	458.6	167.1	119.9	304.8	273.5

TABLE XXXIII (Continued)

NUMBER OF CASES OF REPORTABLE DISEASES IN THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, TEN-YEAR AVERAGES AND TEN-YEAR MEDIANS, 1937 - 1946

Disease		Ten year average	Ten year median	1946	1945	1944	1943	1942	1941	1940	1939	1938	1937
Paratyphoid	No.	-	-	10	17	9	6	10	-	-	-	-	-
	Rate	-		0.5	0.8	0.4	0.3	0.5	-	-	-	-	-
Pneumonia, bacterial	No.	969	954	821	1,345	2,014	1,221	529	361	348	703	1,086	1,261
	Rate	52.0		40.0	66.2	101.4	61.6	27.9	19.9	20.0	40.7	63.5	74.4
Virus	No.	-	-	15	33	-	-	-	-	-	-	-	-
	Rate	-		0.7	1.6	-	-	-	-	-	-	-	-
Poliomyelitis	No.	210	145	519	328	203	359	33	74	449	27	18	87
	Rate	11.2		25.3	16.1	10.2	18.1	1.7	4.1	25.8	1.6	1.0	5.1
Rheumatic Fever	No.	-	-	294	259	-	-	-	-	-	-	-	-
	Rate	-		12.7	14.3	-	-	-	-	-	-	-	-
Rocky Mountain Spotted Fever	No.	4	4	5	0	1	3	5	6	5	9	1	1
	Rate	0.2		0.2	0	*	0.2	0.3	0.3	0.3	0.5	*	0.1
Scarlet Fever	No.	2,283	1,750	1,378	2,809	7,324	2,031	1,260	1,147	1,696	1,818	1,803	1,565
	Rate	122.5		67.2	138.2	368.7	102.4	66.5	63.1	97.4	105.4	105.5	92.4
Septic Sore Throat	No.	89	94	107	183	110	119	108	45	39	78	82	22
	Rate	4.8		5.2	9.0	5.5	6.0	5.7	2.5	2.2	4.5	4.8	1.3
Smallpox	No.	168	22	68	10	11	6	10	31	14	89	966	479
	Rate	9.0		3.3	0.5	0.6	0.3	0.5	1.7	0.8	5.2	56.5	28.3
Trachoma	No.	12	6	1	0	3	32	0	28	24	6	5	25
	Rate	0.7		*	0	0.2	1.6	0	1.5	1.4	0.3	0.3	1.5
Tularemia	No.	2	2	0	2	0	3	2	4	1	5	1	0
	Rate	0.1		0	0.1	0	0.2	0.1	0.2	*	0.3	*	0
Typhoid Fever	No.	94	70	40	42	37	35	55	84	93	263	167	120
	Rate	5.0		2.0	2.1	1.9	1.8	2.9	4.6	5.3	15.2	9.8	7.1
Undulant Fever	No.	44	42	54	54	54	43	72	42	28	25	38	26
	Rate	2.3		2.6	2.6	2.7	2.2	3.8	2.3	1.6	1.4	2.2	1.5
Whooping Cough	No.	2,628	2,491	1,559	1,352	1,401	2,406	2,860	4,960	2,576	991	4,507	3,669
	Rate	141.0		76.0	66.5	70.5	121.4	151.0	272.9	147.9	57.4	263.6	216.6

*Indicates a rate of 0.05 or less.
-Disease not reportable.

TABLE XXXIV (Continued)

REPORTED CASES OF DIPHTHERIA, POLIOMYELITIS AND WHOOPING COUGH IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY SINGLE YEARS OF AGE UNDER 5 YEARS, ALLOCATED TO RESIDENCE OF DECEASED, 1946

County or City	DIPHTHERIA					POLIOMYELITIS					WHOOPING COUGH				
	Under 1 yr	1 yr	2 yrs	3 yrs	4 yrs	Under 1 yr	1 yr	2 yrs	3 yrs	4 yrs	Under 1 yr	1 yr	2 yrs	3 yrs	4 yrs
Skamania											2	1	1		1
Snohomish															
Rural						1				2	4	3	4	1	5
Everett									1						
Spokane															
Rural											3	1			1
Spokane			1				2			3		1	1	2	1
Stevens														1	1
Thurston															
Rural									1		3	2	3	1	3
Olympia													2	2	3
Wahkiakum								1		1					
Walla Walla															
Rural									1			1			
Walla Walla							1			1					
atcom															
Rural					1	1				1	1	1			
Bellingham						1				1					1
Whitman											3	2	1	3	5
Yakima															
Rural		2	2	2	2		1		1	2	9	6	15	6	9
Yakima	1						1		1	2	5	10	9	10	12
URBAN TOTAL	1	1	3	4	8	4	9	3	6	15	42	42	50	59	41
RURAL TOTAL	2	10	9	13	11	5	6	8	16	18	77	60	85	66	87
GRAND TOTAL	3	11	12	17	19	9	15	11	22	33	119	102	135	125	128

TABLE XXXV

EATHS FROM DIPHTHERIA, POLIOMYELITIS AND WHOOPING COUGH IN THE COUNTIES* AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY SINGLE YEARS OR AGE UNDER 5 YEARS ALLOCATED TO RESIDENCE OF DECEASED, 1946

County or City	DIPHTHERIA					POLIOMYELITIS					WHOOPING COUGH				
	Under 1 yr	1 yr	2 yrs	3 yrs	4 yrs	Under 1 yr	1 yr	2 yrs	3 yrs	4 yrs	Under 1 yr	1 yr	2 yrs	3 yrs	4 yrs
Chelan															
Rural				1						1					
Cowlitz															
Longview				1											
King															
Rural		1									2				
Seattle		1						1							
Kitsap															
Rural													1		
Kittitas											1				
Lewis		1	1												
Pacific											1				
Pend Oreille											1				
Pierce															
Rural			1									1			
igit							1								
Snohomish															
Rural										1	1	1			
Spokane															
Spokane											1	1			
Thurston															
Rural											1				
Whatcom															
Rural						1					1				
Yakima															
Rural											1	1			
Yakima	1														
URBAN TOTAL	1	1	0	1	0	0	0	1	0	0	1	1	0	0	0
RURAL TOTAL	0	2	2	1	0	1	1	0	0	2	9	3	1	0	0
GRAND TOTAL	1	3	2	2	0	1	1	1	0	2	10	4	1	0	0

* In this table when no deaths occurred in a county, that county is not listed.

TABLE XXXVI

REPORTED CASES OF DIPHTHERIA IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, BY AGE GROUPS, WITH PERCENTAGES, ALLOCATED TO RESIDENCE, 1946

County or City	Under 1 yr	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 & over	Unknown age	All ages	Rate
Adams													0	0.0
Asotin													0	0.0
Benton		3				1							4	11.4
Chelan													9	24.6
Rural		3	1									1	5	20.8
Wenatchee				1							2	1	4	32.0
Clallam													2	9.1
Rural													0	0.0
Port Angeles					1							1	2	19.6
Clark													3	3.5
Rural		1											1	2.2
Vancouver					1	1							2	5.2
Columbia													0	0.0
Cowlitz													4	8.3
Rural													0	0.0
Longview		1	2	1									4	26.3
Douglas													0	0.0
Ferry							1					1	2	47.6
Franklin		1										1	2	16.7
Garfield													0	0.0
Grant													0	0.0
Grays Harbor													3	6.0
Rural										1			1	5.1
Aberdeen			2										2	10.6
Hoquiam													0	0.0
Island													0	0.0
Jefferson													0	0.0
King													127	20.3
Rural		7	4	1	1		3	4	2		2	2	26	16.8
Seattle		13	18	17	8	5	5	7	4	6	12	6	101	21.5
Kitsap													7	7.7
Rural		2	1		2		1	1					7	26.5
Bremerton													0	0.0
Kittitas		3						1					4	18.6
Klickitat													0	0.0
Lewis		6	3	1	1			2	1		1	1	16	37.9
Lincoln													0	0.0
Mason		1		1									2	14.8
Okanogan	2	5	10	6	2	5	4	1	1	2	2	2	42	155.6
cific			1		1								2	13.3
ad Oreille													0	0.0
Pierce													31	15.4
Rural		2	4	2	3	1	1	1	1			3	18	27.8
Tacoma		1	5		1	1		1	1		3		13	9.5
San Juan													0	0.0
Skagit					1				1	1			3	7.1

TABLE XXXVI (Continued)

REPORTED CASES OF DIPHTHERIA IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, BY AGE GROUPS, WITH PERCENTAGES, ALLOCATED TO RESIDENCE, 1946

County or City	Under 1 yr	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 & over	Unknown age	All ages	Rate
Skamania												1	1	22.2
Snohomish													4	4.2
Rural													0	0.0
Everett			1	2							1		4	11.4
Spokane													1	0.5
Rural													0	0.0
Spokane		1											1	0.7
Stevens				1				1					2	11.1
Thurston													2	5.1
Rural			1							1			2	8.5
Olympia													0	0.0
Wahkiakum													0	0.0
Walla Walla													0	0.0
Rural													0	0.0
Walla Walla													0	0.0
atcom													10	16.4
Rural		1		2	1					1	1		6	20.5
Bellingham				1					1		1	1	4	12.6
Whitman												2	2	6.9
Yakima													41	36.6
Rural		8	9	3	1		2	2					25	31.8
Yakima	1		4	2	3	5		1					16	47.9
URBAN TOTAL	1	16	32	24	14	12	5	9	6	6	19	9	153	14.4
RURAL TOTAL	2	43	34	17	13	7	12	13	6	6	6	14	173	17.5
GRAND TOTAL	3	59	66	41	27	19	17	22	12	12	25	23	326	15.9
Percent	0.9	18.1	20.2	12.6	8.3	5.8	5.2	6.7	3.7	3.7	7.7	7.1	100.0	

TABLE XXXVII

DEATHS FROM DIPHTHERIA IN THE COUNTIES* AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, BY AGE GROUPS, WITH PERCENTAGES, ALLOCATED TO RESIDENCE, 1946

County or City	Under 1 yr	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 and over	Not stated	All ages	Rate
Chelan														
Rural		1											1	2.7
Cowlitz													1	4.2
Longview		1											1	2.1
King													1	6.6
Rural		1	1								1		10	1.6
Seattle		1	1							1	4		3	1.9
Lewis		2	1					1					7	1.5
Okanogan											1		4	9.5
Pierce													1	3.7
Rural		1	1										2	1.0
Whatcom													2	3.1
Bellingham									1		1		2	3.3
Yakima													2	6.3
Yakima	1		1										2	1.8
													2	6.0
URBAN TOTAL	1	2	2	0	0	0	0	0	1	1	5	0	12	1.1
RURAL TOTAL	0	5	3	0	0	0	0	1	0	0	2	0	11	1.1
GRAND TOTAL	1	7	5	0	0	0	0	1	1	1	7	0	23	1.1
Percent	4.4	30.4	21.6	0.0	0.0	0.0	0.0	4.4	4.4	4.4	30.4	0.0	100.0	

*In this table when no deaths occurred in a county, that county is not listed.

TABLE XXXVIII

EPORTED CASES OF POLIOMYELITIS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, BY AGE GROUPS, WITH PERCENTAGES, ALLOCATED TO RESIDENCE, 1946

County or City	Under 1 yr	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 and over	Not stated	All ages	Rate
Adams			1				1						2	33.3
Asotin													0	0.0
Benton	1	4	2		1				1				9	25.7
Chelan													13	35.6
Rural		2	1	1	3	1							8	33.3
Wenatchee		1	2		1	1							5	40.0
Clallam													1	4.5
Rural													0	0.0
Port Angeles							1						1	9.8
Clark													13	15.3
Rural		1	1	2	3	1		1					9	19.4
Vancouver		1	1			1		1					4	10.4
Columbia		1											1	18.2
Cowlitz													26	54.2
Rural		2	4	3	2	1	1	1					14	42.7
ongview		2	5	2				2				1	12	78.9
uglas													0	0.0
Ferry						1							1	23.8
Franklin		1											1	8.3
Garfield													0	0.0
Grant		1	4		1					3			9	69.2
Grays Harbor													12	24.0
Rural			2	1	1							2	6	30.6
Aberdeen		3	2			1							6	31.7
Hoquiam													0	0.0
Island			1										1	13.7
Jefferson			2	3		1							6	66.7
King													133	21.3
Rural		8	7	12	10	5	5	1	4			1	53	34.2
Seattle	2	9	15	16	10	14	5	3	4			2	80	17.0
Kitsap													20	22.1
Rural		1	2	1	2	1			1			2	10	37.9
Bremerton		1	3	1			3	1		1			10	15.6
Kittitas		2	1	1	1		2						7	32.6
Klickitat													0	0.0
Lewis		2	5		3	1							11	26.1
Lincoln			1	2									3	27.3
Mason													0	0.0
Okanogan			1										1	3.7
Pacific													0	0.0
nd Oreille		1				1							2	28.6
erce													30	14.9
Rural		5	3	2	3	1							14	21.6
Tacoma	1	3	5	4	1							2	16	11.7
San Juan				1	1				1			1	4	125.0
Skagit	2	6	7	4	1								20	47.5

TABLE XXXVIII (Continued)

REPORTED CASES OF POLIOMYELITIS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, BY AGE GROUPS, WITH PERCENTAGES, ALLOCATED TO RESIDENCE, 1946

County or City	Under 1 yr	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 and over	Not stated	All ages	Rate
Skamania													0	0.0
Snohomish													23	24.3
Rural	1	2	2	1	2		2					1	11	18.5
Everett		1	3	2	2	2		1		1			12	34.3
Spokane													83	43.3
Rural			10		2	4		1			1		18	37.9
Spokane		5	22	19	2	7	5	4	1				65	45.1
Stevens				1	2								3	16.7
Thurston													2	5.1
Rural		1						1					2	8.5
Olympia													0	0.0
Wahkiakum		2		1				1					4	100.0
Walla Walla													12	37.4
Rural		1	3					1					5	65.8
Walla Walla		2	2			1	2						7	28.6
Whatcom													26	42.6
Rural	1	1		3	7	1	2	2			1	1	19	65.1
Bellingham	1	1	1		1	1	1					1	7	22.0
Whitman				1	1								2	6.9
Yakima													37	33.0
Rural		4	4	5	4		2						19	24.2
Yakima		4	4	2	1	1		4				2	18	53.9
URBAN TOTAL	4	33	65	46	18	29	17	16	5	2	0	8	243	22.9
RURAL TOTAL	5	48	64	45	51	19	15	9	7	3	2	8	276	27.9
GRAND TOTAL	9	81	129	91	69	48	32	25	12	5	2	16	519	25.3
Percent	1.7	15.6	24.9	17.5	13.3	9.2	6.2	4.8	2.3	1.0	0.4	3.1	100.0	

TABLE XXXIX

DEATHS FROM POLIOMYELITIS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, BY AGE GROUPS, WITH PERCENTAGES, ALLOCATED TO RESIDENCE, 1946

County or City	Under 1 yr	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	34 to 39	40 to 44	45 and over	Not stated	All ages	Rate
Adams													0	0.0
Asotin													0	0.0
Benton			1			1							2	5.7
Chelan													2	5.5
Rural		1											1	4.2
Wenatchee			1										1	8.0
Clallam													0	0.0
Rural													0	0.0
Port Angeles													0	0.0
Clark													1	1.2
Rural						1							1	2.2
Vancouver													0	0.0
Columbia													0	0.0
Cowlitz													2	4.2
Rural													0	0.0
Longview				1		1							2	13.2
Douglas													0	0.0
Ferry						1							1	23.8
Franklin													0	0.0
Garfield													0	0.0
Grant										1			1	7.7
Grays Harbor													0	0.0
Rural													0	0.0
Aberdeen													0	0.0
Hoquiam													0	0.0
Island													0	0.0
Jefferson													0	0.0
King													13	2.1
Rural			1				1	1					3	1.9
Seattle		1			2	4			2		1		10	2.1
Kitsap													2	2.2
Rural					1	1							2	7.6
Bremerton													0	0.0
Kittitas							1						1	4.6
Klickitat													0	0.0
Lewis					1								1	2.4
Lincoln													0	0.0
Mason													0	0.0
Okanogan													0	0.0
Pacific													0	0.0
and Oreille													0	0.0
Pierce													0	0.0
Rural													0	0.0
Tacoma													0	0.0
San Juan													0	0.0
Skagit		1											1	2.4

TABLE XXXIX (Continued)

DEATHS FROM POLIOMYELITIS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, BY AGE GROUPS, WITH PERCENTAGES, ALLOCATED TO RESIDENCE, 1946

County or City	Under 1 yr	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	34 to 39	40 to 44	45 and over	Not stated	All ages	Rate
Skamania													0	0.0
Snohomish													2	2.1
Rural		1											1	1.7
Everett				1									1	2.8
Spokane													3	1.6
Rural													0	0.0
Spokane						1		2					3	2.1
Stevens													0	0.0
Thurston													0	0.0
Rural													0	0.0
Olympia													0	0.0
Wahkiakum													0	0.0
Walla Walla													0	0.0
Rural													0	0.0
Walla Walla													0	0.0
Whatcom													1	1.6
Rural	1												1	3.4
Bellingham													0	0.0
Whitman													0	0.0
Yakima													1	0.9
Rural													0	0.0
Yakima				1									1	3.0
URBAN TOTAL	0	1	1	3	2	6	0	2	2	0	1	0	18	1.7
RURAL TOTAL	1	3	2	0	2	4	2	1	0	1	0	0	16	1.6
GRAND TOTAL	1	4	3	3	4	10	2	3	2	1	1	0	34	1.6
Percent	2.9	11.8	8.8	8.8	11.8	29.5	5.9	8.8	5.9	2.9	2.9	0.0	100.0	

TABLE XL

REPORTED CASES OF RHEUMATIC FEVER IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, BY AGE GROUPS, WITH PERCENTAGES, ALLOCATED TO RESIDENCE, 1946

County or City	Under 1 yr	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 and over	Not stated	All ages	Rate
Adams											1		1	16.7
Asotin											1		1	12.0
Benton				1							1		2	5.7
Chelan													4	11.0
Rural											2		2	8.3
Wenatchee											2		2	16.0
Clallam													2	9.1
Rural													0	0.0
Port Angeles									1		1		2	19.6
Clark													18	21.2
Rural			2	1	1	1	1				2	1	9	19.4
Vancouver		1	2	1	1				1		2	1	9	23.3
Columbia				1							1		2	36.4
Cowlitz													15	31.2
Rural		1	2	4	1						3	1	12	36.6
Longview		1						1			1		3	19.7
Douglas											2		2	23.5
Ferry													0	0.0
Franklin											1		1	8.3
Garfield													0	0.0
Grant					1				1		2		4	30.8
Grays Harbor													0	0.0
Rural													0	0.0
Aberdeen													0	0.0
Hoquiam													0	0.0
Island													0	0.0
Jefferson			2										2	22.2
King													107	17.1
Rural		3	20	12	3		1			2	11	1	53	34.2
Seattle				1	3	2	1	1	7	6	33		54	11.5
Kitsap													14	15.5
Rural			2			1		1			7	1	12	45.5
Bremerton								1			1		2	3.1
Kittitas		1	3	1							3		8	37.2
Klickitat											1		1	9.1
Lewis				1		1		1	1		1		5	11.8
Lincoln				1							1		2	18.2
Mason											1		1	7.4
Okanogan													0	0.0
Pacific													0	0.0
nd Oreille								1					1	14.3
ierce													29	14.4
Rural				2	1		2	1	1		6		13	20.1
Tacoma				1		1	1	2		1	10		16	11.7
San Juan													0	0.0
Skagit				1					1		3		5	11.9

TABLE XL (Continued)

REPORTED CASES OF RHEUMATIC FEVER IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, BY AGE GROUPS, WITH PERCENTAGES, ALLOCATED TO RESIDENCE, 1946

County or City	Under 1 yr	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 and over	Not stated	All ages	Rate
Skamania													0	0.0
Snohomish													12	12.7
Rural				1			1	2		1	5		10	16.8
Everett										1	1		2	5.7
Spokane													25	13.0
Rural			2	3	2	2		1				1	11	23.2
Spokane			2	2	1	2	1	2	1		3		14	9.7
Stevens													0	0.0
Thurston													5	12.6
Rural								1			2		3	12.8
Olympia											2		2	12.5
Wahkiakum													0	0.0
Walla Walla													4	12.5
Rural			1								1		2	26.3
Walla Walla							1		1				2	8.2
atcom													3	4.9
Rural											1		1	3.4
Bellingham									1		1		2	6.3
Whitman					3						2		5	17.2
Yakima													13	11.6
Rural						2				1	3		6	7.6
Yakima			1	1				1	1		3		7	21.0
URBAN TOTAL	0	2	5	6	5	5	4	8	13	8	60	1	117	11.0
RURAL TOTAL	0	5	34	29	12	7	5	8	4	4	64	5	177	17.9
GRAND TOTAL	0	7	39	35	17	12	9	16	17	12	124	6	294	14.3
Percent	0.0	2.4	13.3	11.9	5.8	4.1	3.0	5.4	5.8	4.1	42.2	2.0	100.0	

TABLE XLI

DEATHS FROM RHEUMATIC FEVER AND RHEUMATIC HEART DISEASE IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, BY AGE GROUPS, WITH PERCENTAGES, ALLOCATED TO RESIDENCE, 1946

County or City	Under 1 yr	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 and over	Not stated	All ages	Rate
Adams													0	0.0
Asotin											4		4	48.2
Benton				1							3		4	11.4
Chelan													4	11.0
Rural											2		2	8.3
Wenatchee									1		1		2	16.0
Clallam													2	9.1
Rural													0	0.0
Port Angeles											2		2	19.6
Clark													11	12.9
Rural				1		1	1				4		7	15.1
Vancouver					1			1	1		1		4	10.4
Columbia											1		1	18.2
Cowlitz													6	12.5
Rural				1							2		3	9.1
Longview								1			2		3	19.7
Douglas											2		2	23.5
Ferry													0	0.0
Franklin											1		1	8.3
Garfield													0	0.0
Grant									1		1		2	15.4
Grays Harbor													0	0.0
Rural													0	0.0
Aberdeen													0	0.0
Hoquiam													0	0.0
Island													0	0.0
Jefferson													0	0.0
King													52	8.3
Rural										1	11		12	7.7
Seattle				1	2			1	4	6	26		40	8.5
Kitsap													9	10.0
Rural			1					1			3		5	18.9
Bremerton								1			3		4	6.2
Kittitas											2		2	9.3
Klickitat											1		1	9.1
Lewis				1		1		1	1		2		6	14.2
Lincoln											2		2	18.2
Mason											1		1	7.4
Okanogan													0	0.0
Pacific											1		1	6.7
Pend Oreille								1					1	14.3
Pierce													20	9.9
Rural					1			1	1		2		5	7.7
Tacoma						1	1	2		1	10		15	10.9
San Juan											1		1	31.2
Skagit									1		1		2	4.8

TABLE XLI (Continued)

DEATHS FROM RHEUMATIC FEVER AND RHEUMATIC HEART DISEASE IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, BY AGE GROUPS, WITH PERCENTAGES, ALLOCATED TO RESIDENCE, 1946

County or City	Under 1 yr	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 and over	Not Stated	All ages	Rate
Skamania													0	0.0
Snohomish													12	12.7
Rural			1					2		1	6		10	16.8
Everett											2		2	5.7
Spokane													11	5.7
Rural				1		1							2	4.2
Spokane				1		1			1		6		9	6.2
Stevens													0	0.0
Thurston													3	7.6
Rural											2		2	8.5
Olympia											1		1	6.2
Wahkiakum													0	0.0
Walla Walla													3	9.3
Rural											1		1	13.2
Walla Walla							1		1				2	8.2
hatcom													2	3.3
Rural											1		1	3.4
Bellingham									1				1	3.1
Whitman					1						1		2	6.9
Yakima													8	7.1
Rural										2	3		5	6.4
Yakima								1	1		1		3	9.0
West.St.Hosp.							2				1		3	
East.St.Hosp.				1				1			2		4	
North.St.Hosp.													0	
URBAN TOTAL	0	0	0	2	3	2	2	7	10	7	55	0	88	8.3
RURAL TOTAL	0	0	2	6	2	3	3	7	4	4	64	0	95	9.6
GRAND TOTAL	0	0	2	8	5	5	5	14	14	11	119	0	183	8.9
Percent	0.0	0.0	1.1	4.4	2.7	2.7	2.7	7.6	7.6	6.0	65.0	0.0	100.0	

TABLE XLII

REPORTED CASES OF SMALLPOX IN THE COUNTIES* AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, BY AGE GROUPS, WITH PERCENTAGES, ALLOCATED TO RESIDENCE, 1946

County or City	Under 1 yr	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 and over	Not stated	All ages	Rate
Clallam													7	31.8
Port Angeles		1				1			1	1	2	1	7	68.6
Cowlitz													1	2.1
Longview				1									1	6.6
Douglas											1		1	11.8
Ferry							1						1	23.8
King													51	8.2
Rural	4	4	1			1	1		5	2	7		25	16.1
Seattle	3	1	1			1		3	2		15		26	5.5
San Juan									1				1	31.2
Snohomish													6	6.3
Everett					1				4		1		6	17.1
URBAN TOTAL	3	2	1	1	1	2	0	3	7	1	18	1	40	3.8
RAL TOTAL	4	4	1	0	0	1	2	0	6	2	8	0	28	2.8
AND TOTAL	7	6	2	1	1	3	2	3	13	3	26	1	68	3.3
Percent	10.3	8.8	2.9	1.5	1.5	4.4	2.9	4.4	19.1	4.4	38.3	1.5	100.0	

*In this table when no deaths occurred in a county, that county is not listed.

TABLE XLIII

DEATHS FROM SMALLPOX IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, BY AGE GROUPS, WITH PERCENTAGES, ALLOCATED TO RESIDENCE, 1946

County or City	Under 1 yr	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	34 to 39	40 to 44	45 and over	Not stated	All ages	Rate
Adams													0	0.0
Asotin													0	0.0
Benton													0	0.0
Chelan													0	0.0
Rural													0	0.0
Wenatchee													0	0.0
Clallam													2	9.1
Rural													0	0.0
Port Angeles						1					1		2	19.6
Clark													0	0.0
Rural													0	0.0
Vancouver													0	0.0
Columbia													0	0.0
Cowlitz													0	0.0
Rural													0	0.0
Longview													0	0.0
ouglas													0	0.0
erry													0	0.0
Franklin													0	0.0
Garfield													0	0.0
Grant													0	0.0
Grays Harbor													0	0.0
Rural													0	0.0
Aberdeen													0	0.0
Hoquaim													0	0.0
Island													0	0.0
Jefferson													0	0.0
King													14	2.2
Rural	2								3		2		7	4.5
Seattle	1							1			5		7	1.5
Kitsap													0	0.0
Rural													0	0.0
Bremerton													0	0.0
Kittitas													0	0.0
Klickitat													0	0.0
Lewis													0	0.0
Lincoln													0	0.0
Mason													0	0.0
Okanogan													0	0.0
Pacific													0	0.0
Pend Oreille													0	0.0
Pierce													0	0.0
Rural													0	0.0
Tacoma													0	0.0
San Juan													0	0.0
Skagit													0	0.0

TABLE XLIII (Continued)

DEATHS FROM SMALLPOX IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, BY AGE GROUPS, WITH PERCENTAGES, ALLOCATED TO RESIDENCE, 1946

County or City	Under 1 yr	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	34 to 39	40 to 44	45 and over	Not stated	All ages	Rate
Skamania													0	0.0
Snohomish													3	3.2
Rural													0	0.0
Everett								1	1		1		3	8.6
Spokane													0	0.0
Rural													0	0.0
Spokane													0	0.0
Stevens													0	0.0
Thurston													0	0.0
Rural													0	0.0
Olympia													0	0.0
Wahkiakum													0	0.0
Walla Walla													0	0.0
Rural													0	0.0
Walla Walla													0	0.0
Whatcom													0	0.0
Rural													0	0.0
Bellingham													0	0.0
Whitman													0	0.0
Yakima													0	0.0
Rural													0	0.0
Yakima													0	0.0
URBAN TOTAL	1	0	0	0	0	1	0	2	1	0	7	0	12	1.1
RURAL TOTAL	2	0	0	0	0	0	0	0	3	0	2	0	7	0.7
GRAND TOTAL	3	0	0	0	0	1	0	2	4	0	9	0	19	0.9
Percent	15.8	0.0	0.0	0.0	0.0	5.3	0.0	10.5	21.0	0.0	47.4	0.0	100.0	

TABLE XLIV

REPORTED CASES OF TYPHOID FEVER IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, BY AGE GROUPS, WITH PERCENTAGES, ALLOCATED TO RESIDENCE, 1946

County or City	Under 1 yr	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 and over	Not stated	All ages	Rate
Adams													0	0.0
Asotin													0	0.0
Benton													0	0.0
Chelan													0	0.0
Rural													0	0.0
Wenatchee													0	0.0
Clallam													0	0.0
Rural													0	0.0
Port Angeles													0	0.0
Clark													0	0.0
Rural													0	0.0
Vancouver													0	0.0
Columbia													0	0.0
Cowlitz													1	2.1
Rural													0	0.0
Longview			1										1	6.6
Douglas													0	0.0
Ferry												1	1	23.8
Franklin													0	0.0
Garfield													0	0.0
Grant													0	0.0
Grays Harbor													0	0.0
Rural													0	0.0
Aberdeen													0	0.0
Hoquiam													0	0.0
Island													0	0.0
Jefferson								1					1	11.1
King													14	2.2
Rural					1	1		1					3	1.9
Seattle			3		1	1	1	2	2	1			11	2.3
Kitsap													0	0.0
Rural													0	0.0
Bremerton													0	0.0
Kittitas													0	0.0
Klickitat													0	0.0
Lewis													0	0.0
Lincoln													0	0.0
Mason													0	0.0
Okanogan								1					1	3.7
Pacific													0	0.0
and Oreille					1								1	14.3
Pierce													3	1.5
Rural			1							1			2	3.1
Tacoma		1											1	0.7
San Juan													0	0.0
Skagit													0	0.0

TABLE XLIV (Continued)

REPORTED CASES OF TYPHOID FEVER IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, BY AGE GROUPS, WITH PERCENTAGES, ALLOCATED TO RESIDENCE, 1946

County or City	Under 1 yr	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 and over	Not stated	All ages	Rate
Skamania													0	0.0
Snohomish													0	0.0
Rural													0	0.0
Everett													0	0.0
Spokane													1	0.5
Rural													0	0.0
Spokane							1						1	0.7
Stevens			1										1	5.6
Thurston													2	5.1
Rural				1									1	4.2
Olympia										1			1	6.2
Wahkiakum													0	0.0
Walla Walla													1	3.1
Rural													0	0.0
Walla Walla				1									1	4.1
Whatcom													2	3.3
Rural								1			1		2	6.8
Bellingham													0	0.0
Whitman													0	0.0
Yakima													11	9.8
Rural		1	4	1			1				3		10	12.7
Yakima			1										1	3.0
URBAN TOTAL	0	1	5	1	1	1	2	2	2	2	0	0	17	1.6
RURAL TOTAL	0	1	6	2	2	1	1	4	0	1	4	1	23	2.3
GRAND TOTAL	0	2	11	3	3	2	3	6	2	3	4	1	40	2.0
Percent	0.0	5.0	27.5	7.5	7.5	5.0	7.5	15.0	5.0	7.5	10.0	2.5	100.0	

TABLE XLV

DEATHS FROM TYPHOID FEVER IN THE COUNTIES*AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, BY AGE GROUPS, WITH PERCENTAGES, ALLOCATED TO RESIDENCE, 1946

County or City	Under 1 yr	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 and over	Not stated	All ages	Rate
Jefferson								1					1	11.1
Pierce													2	1.0
Tacoma										2			2	1.4
Yakima													1	1.0
Rural											1		1	1.3
URBAN TOTAL	0	0	0	0	0	0	0	0	0	2	0	0	2	0.2
RURAL TOTAL	0	0	0	0	0	0	0	1	0	0	1	0	2	0.2
GRAND TOTAL	0	0	0	0	0	0	0	1	0	2	1	0	4	0.2
Percent	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	0.0	50.0	25.0	0.0	100.0	

*In this table when no deaths occurred in a county, that county is not listed.

TABLE XLVI

REPORTED CASES OF UNDULANT FEVER IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, BY AGE GROUPS, WITH PERCENTAGES, ALLOCATED TO RESIDENCE, 1946

County or City	Under 1 yr	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 and over	Not stated	All ages	Rate
Adams												1	1	16.7
Asotin							1						1	12.0
Benton													0	0.0
Chelan													1	2.7
Rural													0	0.0
Wenatchee									1				1	8.0
Clallam													1	4.5
Rural							1						1	8.5
Port Angeles													0	0.0
Clark													3	3.5
Rural					2				1				3	6.5
Vancouver													0	0.0
Columbia													0	0.0
Cowlitz													5	10.4
Rural										2			2	6.1
Longview						2	1						3	19.7
Douglas							1						1	11.8
Ferry											1		1	23.8
Franklin													0	0.0
Garfield													0	0.0
Grant												1	1	7.7
Grays Harbor													0	0.0
Rural													0	0.0
Aberdeen													0	0.0
Hoquiam													0	0.0
Island													0	0.0
Jefferson													0	0.0
King													9	1.4
Rural								2	2	1	2	1	8	5.2
Seattle							1						1	0.2
Kitsap													1	1.1
Rural												1	1	3.8
Bremerton													0	0.0
Kittitas												2	2	9.3
Klickitat													0	0.0
Lewis				1				1					2	4.7
Lincoln													0	0.0
Mason						1							1	7.4
Okanogan								1*					1	3.7
Pacific													0	0.0
Pend Oreille													0	0.0
Pierce													3	1.5
Rural							1						1	1.5
Tacoma											2		2	1.5
San Juan													0	0.0
Skagit												1	1	2.4

TABLE XLVI (Continued)

REPORTED CASES OF UNDULANT FEVER IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, BY AGE GROUPS, WITH PERCENTAGES, ALLOCATED TO RESIDENCE, 1946

County or City	Under 1 yr	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 and over	Not stated	All ages	Rate
Skamania													0	0.0
Snohomish													5	5.3
Rural						1				1			2	3.4
Everett							1			1	1		3	8.6
Spokane													1	0.5
Rural											1		1	2.1
Spokane													0	0.0
Stevens					1								1	5.6
Thurston													1	2.5
Rural									1				1	4.3
Olympia													0	0.0
Wahkiakum													0	0.0
Walla Walla													3	9.3
Rural								1			1		2	26.3
Walla Walla											1		1	4.1
Whatcom													6	9.8
Rural						1		1	2	1			5	17.1
Bellingham											1		1	3.1
Whitman													0	0.0
Yakima													2	1.8
Rural				1							1		2	2.5
Yakima													0	0.0
URBAN TOTAL	0	0	0	0	0	2	3	0	3	1	5	0	14	1.3
RURAL TOTAL	0	0	0	2	3	3	4	6	4	5	6	7	40	4.1
GRAND TOTAL	0	0	0	2	3	5	7	6	7	6	11	7	54	2.6
Percent	0.0	0.0	0.0	3.7	5.5	9.2	13.0	11.1	13.0	11.1	20.4	13.0	100.0	

*This case resulted in the only death from this cause in the state.

TABLE XLVII

REPORTED CASES OF WHOOPING COUGH IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, BY AGE GROUPS, WITH PERCENTAGES, ALLOCATED TO RESIDENCE, 1946

County or City	Under 1 yr	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 and over	Not stated	All ages	Rate
Adams	1	12	4										17	283.3
Asotin	2												2	24.1
Benton	1	6	6									3	16	45.7
Chelan													72	197.3
Rural	1	13	17	5	1							3	40	166.7
Wenatchee	1	12	17	2									32	256.0
Clallam													22	100.0
Rural	2	6	2										10	84.7
Port Angeles	3	6	3										12	117.6
Clark													48	56.5
Rural	2	5	6	1									14	30.2
Vancouver	2	11	18	1								2	34	88.1
Columbia													0	0.0
Cowlitz													27	56.2
Rural	1	2	1									5	9	27.4
Longview	3	4	3	1								7	18	118.4
Douglas	1	6	7	1								3	18	211.8
Ferry												2	2	47.6
Franklin			2										2	16.7
Garfield													0	0.0
Grant		4	3										7	53.8
Grays Harbor													10	20.0
Rural													0	0.0
Aberdeen		1	3										4	21.2
Hoquiam		1										5	6	52.2
Island													0	0.0
Jefferson	1	11	14	4	2							2	34	377.8
King													348	55.7
Rural	25	100	120	14	1		1	1				7	269	173.5
Seattle	3	22	20	4				1				29	79	16.8
Kitsap													45	49.8
Rural	4	18	10			1						3	36	136.4
Bremerton	1	5	3										9	14.1
Kittitas	1	3	3									5	12	55.8
Klickitat													0	0.0
Lewis		1	1									4	6	14.2
Lincoln								1					1	9.1
Mason													0	0.0
Okanogan	1	7	8									11	27	100.0
Pacific													0	0.0
and Oreille													0	0.0
Pierce													269	133.4
Rural	9	25	18	8			1					14	75	115.9
Tacoma	24	76	73	15	1	1			1			3	194	141.6
San Juan													0	0.0
Skagit		1	2										3	7.1

TABLE XLVII (Continued)

REPORTED CASES OF WHOOPING COUGH IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, BY AGE GROUPS, WITH PERCENTAGES, ALLOCATED TO RESIDENCE, 1946

County or City	Under 1 yr	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 and over	Not stated	All ages	Rate
Skamania	2	3											5	111.1
Snohomish													61	64.6
Rural	4	13	30	3								7	57	95.8
Everett			4										4	11.4
Spokane													19	9.9
Rural	3	2	5									2	12	25.3
Spokane		5	2										7	4.9
Stevens		2	5									8	15	83.3
Thurston													50	126.6
Rural	3	9	24	2	1								39	166.0
Olympia		7	2	2									11	68.8
Wahkiakum												2	2	50.0
Walla Walla													1	3.1
Rural		1											1	13.2
Walla Walla													0	0.0
Whatcom													16	26.2
Rural	1	1	10									3	15	51.4
Bellingham		1											1	3.1
Whitman	3	11	11	1									26	89.6
Yakima													185	165.2
Rural	9	36	33	9							1	6	94	119.6
Yakima	5	41	37	5	1							2	91	272.4
URBAN TOTAL	42	192	185	30	2	1	0	1	1	0	0	48	502	47.2
RURAL TOTAL	77	298	342	48	5	1	2	2	0	0	1	90	866	87.7
GRAND TOTAL	119	490	527	78	7	2	2	3	1	0	1	138	1,559*	66.7
Percent	8.7	35.8	38.6	5.7	0.5	0.1	0.1	0.2	0.1	0.0	0.1	10.1	100.0	

*Includes 191 cases of unknown age or residence.

TABLE XLVIII

DEATHS FROM WHOOPING COUGH IN THE COUNTIES*AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, BY AGE GROUPS, WITH PERCENTAGES, ALLOCATED TO RESIDENCE, 1946

County or City	Under 1 yr	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 and over	Not stated	All ages	Rate
King													2	0.3
Rural	2												2	1.3
Kitsap													1	1.1
Rural		1											1	3.8
Kittitas	1												1	4.6
Pacific	1												1	6.7
Pend Oreille	1												1	14.3
Pierce													1	0.5
Rural		1											1	1.5
Snohomish													2	2.1
Rural	1	1											2	3.4
Spokane													2	1.0
Spokane	1	1											2	1.4
Thurston													1	2.5
Rural	1												1	4.2
Whatcom													1	1.6
Rural	1												1	3.4
Yakima													2	1.8
Rural	1	1											2	2.5
URBAN TOTAL	1	1	0	0	0	0	0	0	0	0	0	0	2	0.2
RURAL TOTAL	9	4	0	0	0	0	0	0	0	0	0	0	13	1.3
GRAND TOTAL	10	5	0	0	0	0	0	0	0	0	0	0	15	0.7
Percent	66.7	33.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	

*In this table when no deaths occurred in a county, that county is not listed.

SECTION IV

* * * * * *

TUBERCULOSIS CASES

TABLE XLIX - CASES OF TUBERCULOSIS REPORTED IN STATE OF WASHINGTON, BY RACE, SEX AND AGE GROUPS, 1946

Age Groups	White		Negro		Indian		Chinese		Japanese		Other		Not Stated			Totals			Grand Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Unknown sex	M	F	Unknown sex	
Under 1 year	2			1	3	1								1		5	3		8
1-4 years	4	9	1		4	8		1						1		9	19		28
5-9 years	2	5			10	11					1		1			14	16		30
10-14 years	4	14			5	12				1		1	1			10	28		38
15-19 years	48	54	7	2	12	20	1	1	1		1	2	4	3		74	82		156
20-24 years	123	95	10	8	13	34	2	1	3	3	3		2	5		156	146		302
25-29 years	121	96	8	13	13	16			1	1	2		4	13		149	139		288
30-34 years	125	85	4	6	5	8			2	1		2	4	5	1	140	107	1	248
35-39 years	117	93	9	1	4	1	2				1		2	11		135	106		241
40-44 years	99	70	5	1		2	4		2		4		5	5		119	78		197
45-49 years	115	50	4			3	2		1		4		6	1		132	54		186
50-54 years	124	39	6	2	5	1	5			2			6	6		146	50		196
55-59 years	131	34	4		2	1	2		1		1		8	3		149	38		187
60-64 years	108	33	3		2	1	2		1		1		7	2		124	36		160
65-69 years	70	18	1	1					1				6	1		78	20		98
70-74 years	43	18				1			2				2	4		47	23		70
75 years & over	43	28	1	1		3	1		3				2			50	32		82
Unknown Age	26	20		1	1	3	3			1			17	8	2	47	33	2	82
Total By Sex	1305	761	63	37	79	126	24	3	18	9	18	5	77	69	3	1584	1010	3	2597

.E L - CASES OF PULMONARY TUBERCULOSIS, BY STAGE, .D NON-PULMONARY TUBERCULOSIS REPORTED IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, 1946

AREA	PULMONARY							NON PULMONARY	UNKNOWN AND NOT STATED	TUBERCULOSIS (ALL FORMS)
	Minimal	Moderately Advanced	Far Advanced	Stage Unknown	Stage Not Stated	Pleurisy With Effusion	Total			
Adams	1				2		3			3
Asotin	2	3					5			5
Benton	4	6	3		4		17	1		18
Chelan	14	4	2		9		29	1		30
Rural	10	3	1		4		18	1		19
Wenatchee	4	1	1		5		11			11
Clallam	5	8	3		4		20	1		21
Rural	4	4	1		3		12	1		13
Port Angeles	1	4	2		1		8			8
Clark	94	56	17		8	7	182	6		188
Rural	49	31	11		5	1	97	5		102
Vancouver	45	25	6		3	6	85	1		86
Columbia		1					1			1
Cowlitz	30	11	16		4	2	63	3		66
Rural	17	6	14		3	1	41	2		43
Longview	13	5	2		1	1	22	1		23
Douglas	2		1		1		4	1		5
Ferry	1	2			1	1	5			5
Franklin	2	1	1		3		7	1		8
Garfield	1						1			1
Grant			2		1		3			3
Grays Harbor	12	16	18		3	1	50	5		55
Rural	4	8	7		2		21	3		24
Aberdeen	5	4	8		1		18	2		20
Hoquiam	3	4	3			1	11			11
Island		2	2		1		5	1		6
Jefferson	1						1	3		4
King	196	228	246	1	131	17	819	76	1	896
Rural	29	48	58		28	3	166	13		179
Seattle	167	180	188	1	103	14	653	63	1	717
Kitsap	60	33	19		15	2	129	2		131
Rural	23	15	13		7	1	59			59
Bremerton	37	18	6		8	1	70	2		72
Kittitas	4	2	2		2		10	1		11
Klickitat		4					4	1		5
Lewis	4	5	9		8	2	28	1		29
Lincoln	1						1			1

TABLE L - CASES OF PULMONARY TUBERCULOSIS, BY S[illegible]E, AND NON-PULMONARY TUBERCULOSIS REPORTED IN THE COUNTIES AND MAJOR CIT[illegible] OF THE STATE OF WASHINGTON, 1946

AREA	PULMONARY							NON-PULMONARY	UNKNOWN AND NOT STATED	TUBERCULOSIS (ALL FORMS)
	Minimal	Moderately Advanced	Far Advanced	Stage Unknown	Stage Not Stated	Pleurisy With Effusion	Total			
Mason	2	6	1		2		11	1		12
Okanogan	3	5	3		5	1	17	3		20
Pacific	2	4	3		2		11			11
Pend Oreille		1					1			1
Pierce	68	74	44		49	2	237	24		261
Rural	45	45	17		23		130	8		138
Tacoma	23	29	27		26	2	107	16		123
San Juan	1						1			1
Skagit	10	21	8		9	2	50	4		54
Skamania										0
Snohomish	27	22	10		16	1	76	8		84
Rural	20	13	5		9		47	7		54
Everett	7	9	5		7	1	29	1		30
Spokane	20	28	32		47	1	128	4		132
Rural	3	3	3		22	1	32	2		34
Spokane	17	25	29		25		96	2		98
Stevens	1	1	3		1		6			6
Thurston	1	6	5		4	1	17	1		18
Rural		2	3		3		8	1		9
Olympia	1	4	2		1	1	9			9
Wahkiakum	2	1					3			3
Walla Walla	16	14	4		2		36	1		37
Rural	8	3			1		12			12
Walla Walla	8	11	4		1		24	1		25
Whatcom	16	15	11		8	4	54	3		57
Rural	8	6	5		5	2	26	3		29
Bellingham	8	9	6		3	2	28			28
Whitman	3	5			4		12	1		13
Yakima	3	9	11		63		86	11		97
Rural	1	7	8		40		56	7		63
Yakima	2	2	3		23		30	4		34
Out of State	44	97	97		27	6	271	26		297
Unk. Address		1					1			1
URBAN TOTAL	341	330	292	1	208	29	1,201	93	1	1,295
RURAL TOTAL	268	264	184	0	201	15	932	72	0	1,004
GRAND TOTAL	653	692	573	1	436	50	2,405	191	1	2,597
Percent	25.1	26.6	22.1	**	16.8	1.9	92.6	7.4	**	126.7*

*Rate per 100,000 estimated population. **Less than 0.1 percent

SECTION V

* * * *

VENEREAL DISEASE CASES AND DEATHS

TABLE LI

CIVILIAN CASES OF SYPHILIS, GONORRHEA, CHANCROID, LYMPHOGRANULOMA AND VENEREAL DISEASES (ALL FORMS) REPORTED IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, ALLOCATED TO RESIDENCE, 1946

County or City	Syphilis		Gonorrhea		Chancroid		Lymphogranuloma		Total	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Adams	4	66.7							4	66.7
Asotin									0	0.0
Benton	11	31.4	21	60.0					32	91.4
Chelan	12	32.9	17	46.6					29	79.4
Rural	7	29.2	10	41.7					17	70.8
Wenatchee	5	40.0	7	56.0					12	96.0
Clallam	18	81.8	26	118.2					44	200.0
Rural	10	84.7	19	161.0					29	245.8
Port Angeles	8	78.4	7	68.6					15	147.0
Clark	109	128.2	222	261.2	21	24.7	9	10.6	361	424.7
Rural	70	150.9	129	278.0	16	34.5	8	17.2	223	480.6
Vancouver	39	101.0	93	240.9	5	13.0	1	2.6	138	357.5
Columbia	6	109.1							6	109.1
Cowlitz	50	104.2	24	50.0	1	2.1			75	156.2
Rural	29	88.4	22	67.1					51	155.5
Longview	21	138.2	2	13.2	1	6.6			24	157.9
Douglas	1	11.8							1	11.8
Ferry			1	23.8					1	23.8
Franklin	21	175.0	27	225.0					48	400.0
Garfield									0	0.0
Grant	10	76.9	16	123.1					26	200.0
Grays Harbor	36	72.0	35	70.0					71	142.0
Rural	18	91.8	10	51.0					28	142.8
Aberdeen	11	58.2	19	100.5					30	158.7
Hoquiam	7	60.9	6	52.2					13	113.0
Island	4	54.8	1	13.7					5	68.5
Jefferson	5	55.6	1	11.1					6	66.7
King	1,017	162.7	2,418	386.9	104	16.6	7	1.1	3,546	567.4
Rural	95	61.3	187	120.6	10	6.4			292	188.4
Seattle	922	196.2	2,231	474.7	94	20.0	7	1.5	3,254	692.3
Kitsap	156	172.6	249	275.4	6	6.6			411	454.6
Rural	52	197.0	86	325.8	3	11.4			141	534.1
Bremerton	104	162.5	163	254.7	3	4.7			270	421.9
Kittitas	4	18.6	5	23.2					9	41.9
Klickitat	3	27.3							3	27.3
Lewis	26	61.6	43	101.9					69	163.5
Lincoln	2	18.2	5	45.4					7	63.6
Mason	2	14.8	5	37.0					7	51.8
Okanogan	15	55.6	28	103.7					43	159.2
Pacific	11	73.3	1	6.7					12	80.0
Pend Oreille	2	28.6	1	14.3					3	42.8
Pierce	237	117.5	409	202.8	5	2.5			651	322.8
Rural	38	58.7	60	92.7	2	3.1			100	154.6
Tacoma	199	145.2	349	254.7	3	2.2			551	402.2
San Juan	1	31.2							1	31.2
Skagit	17	40.4	26	61.8					43	102.1

TABLE LI (Continued)

CIVILIAN CASES OF SYPHILIS, GONORRHEA, CHANCROID, LYMPHOGRANULOMA AND VENEREAL DISEASES (ALL FORMS) REPORTED IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, ALLOCATED TO RESIDENCE, 1946

County or City	Syphilis		Gonorrhea		Chancroid		Lymphogranuloma		Total	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Skamania	2	44.4	7	155.6					9	200.0
Snohomish	47	49.7	81	85.7					128	135.4
Rural	33	55.5	37	62.2					70	117.6
Everett	14	40.0	44	125.7					58	165.7
Spokane	200	85.7	367	191.6	2	1.0	2	1.0	571	298.2
Rural	20	42.1	24	50.5					44	92.6
Spokane	180	125.0	343	238.2	2	1.4	2	1.4	527	366.0
Stevens	2	11.1	5	27.8					7	38.9
Thurston	33	83.5	38	96.2					71	179.7
Rural	18	76.6	14	59.6					32	136.2
Olympia	15	93.8	24	150.0					39	243.8
Wahkiakum	3	75.0	1	25.0					4	100.0
Walla Walla	33	102.8	89	277.2					122	380.1
Rural	8	105.3	10	131.6					18	236.8
Walla Walla	25	102.0	79	322.4					104	424.5
Whatcom	35	57.4	77	126.2					112	183.6
Rural	13	44.5	16	54.8					29	99.3
Bellingham	22	69.2	61	191.8					83	261.0
Whitman	10	34.5	34	117.2					44	151.7
Yakima	153	136.6	233	208.0			2	1.8	388	346.4
Rural	84	106.9	125	159.0			1	1.3	210	267.2
Yakima	69	206.6	108	323.4			1	3.0	178	532.9
URBAN TOTAL	1,641	154.4	3,536	332.8	108	10.2	11	1.0	5,296	498.4
RURAL TOTAL	657	66.5	977	98.9	31	3.1	9	0.9	1,674	169.5
GRAND TOTAL	2,298	112.1	4,513	220.1	139	6.8	20	1.0	6,970	340.0

TABLE LII

CIVILIAN CASES OF SYPHILIS, BY STAGE, BY WHITE AND NON-WHITE, REPORTED IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, ALLOCATED TO RESIDENCE, 1946

County or City	Primary and Secondary		Early Latent		Late Latent		Ter-tiary		Congeni-tal		Unknown Stage		Total	
	White	Non-White	White	Non-White	White	Non-White	White	Non-White	White	Non-White	White	Non-White	White	Non-White
Adams	3										1		4	
Asotin														
Benton	3		3		2		1		1		1		11	
Chelan														
Rural	3		1		1		1				1		7	
Wenatchee	3		1		1								5	
Clallam														
Rural	2	2	2	3			1						5	5
Port Angeles	3		1				1				3		8	
Clark														
Rural	7	6	8	11	7	20	5	1	1	2	2		30	40
Vancouver	12	3	9	1	8	1	1		2	1		1	32	7
Columbia	5		1										6	
Klitz														
Rural	10		8		4		3				4		29	
Longview	8		4	1	4		3		1				20	1
Douglas						1								1
Ferry														
Franklin	6		4		3	4					1	3	14	7
Garfield														
Grant	1	1	2	1	3	1						1	6	4
Grays Harbor														
Rural	4	1	5		3		1		1		3		17	1
Aberdeen	3		1		2		2				3		11	
Hoquiam	2		2		2						1		7	
Island		3									1		1	3
Jefferson	1		1		1		1				1		5	
King														
Rural	30	3	5	4	24	7	11	1	3		7		80	15
Seattle	164	95	75	129	121	194	68	28	8	12	17	11	453	469
Kitsap														
Rural	7	6	3	4	7	8	4	1	2		7	3	30	22
Bremerton	17	14	9	5	9	14	7	2	2	1	7	17	51	53
Kittitas				1	1						2		3	1
Klickitat	2				1								3	
Lewis	9		5	1	9	1	1						24	2
Lincoln		1					1						1	1
Mason											2		2	
Okanogan	5	2	2	1	1		1				1	2	10	5
Pacific	7		3		1								11	
Pend Oreille	1						1						2	
Pierce														
Rural	8	5	12	2	9		1		1				31	7
Tacoma	40	10	38	37	30	12	20	1	5	1	2	3	135	64

TABLE LII (Continued)

CIVILIAN CASES OF SYPHILIS, BY STAGE, BY WHITE AND NON-WHITE, REPORTED IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, ALLOCATED TO RESIDENCE, 1946

County or City	Primary and Secondary		Early Latent		Late Latent		Tertiary		Congenital		Unknown Stage		Total	
	White	Non-White	White	Non-White	White	Non-White	White	Non-White	White	Non-White	White	Non-White	White	Non-White
San Juan			1										1	
Skagit	6	2	4		2		1				2		15	2
Skamania					2								2	
Snohomish														
Rural	10	3	7	3	5		2		1	1	1		26	7
Everett	3	1	5		1		2		1		1		13	1
Spokane														
Rural	4		5	1	2	1	7						18	2
Spokane	70	5	28	14	40	6	6		2	2	6	1	152	28
Stevens	1	1											1	1
Thurston														
Rural	2		5		5	1	1		1		3		17	1
Olympia	9		1		1		3					1	14	1
ahkiakum	2										1		3	
Walla Walla														
Rural	4		1		1		1		1				8	
Walla Walla	6	1	6	2	6		1		1	1		1	20	5
Whatcom														
Rural	2	4	3		1					2	1		7	6
Bellingham	9	1	3		2		7						21	1
Whitman	2	1	2	1	2				2				8	2
Yakima														
Rural	20	3	19	8	12	4	6		3	2	4	3	64	20
Yakima	22	3	15	10	4	3	2		3	2	3	2	49	20
URBAN TOTAL	371	133	198	199	231	230	123	31	25	20	43	37	991	650
RURAL TOTAL	167	44	112	41	109	48	51	3	17	7	46	12	502	155
GRAND TOTAL	538	177	310	240	340	278	174	34	42	27	89	49	1,493	805

TABLE LIII

CIVILIAN CASES OF GONORRHEA, CHANCROID AND LYMPHOGRANULOMA, BY WHITE AND NON-WHITE, REPORTED IN THE COUNTIES AND MAJOR CITIES IN THE STATE OF WASHINGTON, ALLOCATED TO RESIDENCE, 1946

County or City	Gonorrhea		Chancroid		Lymphogranuloma		Total	
	White	Non-White	White	Non-White	White	Non-White	White	Non-White
Adams								
Asotin								
Benton	20	1					20	1
Chelan								
Rural	9	1					9	1
Wenatchee	7						7	
Clallam								
Rural	12	7					12	7
Port Angeles	7						7	
Clark								
Rural	67	62	8	8	4	4	79	74
Vancouver	89	4	3	2	1		93	6
Columbia								
Cowlitz								
Rural	22						22	
Longview	2		1				3	
Douglas								
Ferry	1						1	
Franklin	23	4					23	4
Garfield								
Grant	14	2					14	2
Grays Harbor								
Rural	10						10	
Aberdeen	16	3					16	3
Hoquaim	6						6	
Island		1						1
Jefferson		1						1
King								
Rural	150	37	5	5			155	42
Seattle	1111	1120	35	59		7	1146	1186
Kitsap								
Rural	45	41	2	1			47	42
Bremerton	97	66		3			97	69
Kittitas	5						5	
Klickitat								
Lewis	42	1					42*	1
Lincoln	5*						5	
Mason	4	1					4	1
Okanogan	19	9					19	9
Pacific	1						1	
and Oreille	1						1	
Pierce								
Rural	43	17	2				45	17
Tacoma	201	148	3				204	148
San Juan								
Skagit	23	3					23	3

TABLE LIII (Continued)

CIVILIAN CASES OF GONORRHEA, CHANCROID AND LYMPHOGRANULOMA, BY WHITE AND NON-WHITE, REPORTED IN THE COUNTIES AND MAJOR CITIES IN THE STATE OF WASHINGTON, ALLOCATED TO RESIDENCE, 1946

County or City	Gonorrhea		Chancroid		Lymphogranuloma		Total	
	White	Non-White	White	Non-White	White	Non-White	White	Non-White
Skamania	7						7	
Snohomish								
Rural	28	9					28	9
Everett	44						44	
Spokane								
Rural	17	7					17	7
Spokane	257	86	2		1	1	260	87
Stevens	3	2					3	2
Thurston								
Rural	14						14	
Olympia	24						24	
Wahkiakum		1						1
Walla Walla								
Rural	10						10	
Walla Walla	68	11					68	11
Whatcom								
Rural	11	5					11	5
Bellingham	56	5					56	5
Whitman	32	2					32	2
Yakima								
Rural	81	44			1		82	44
Yakima	83	25			1		84	25
URBAN TOTAL	2068	1468	44	64	3	8	2115	1540
RURAL TOTAL	719	258	17	14	5	4	741	276
GRAND TOTAL	2787*	1726	61	78	8	12	2856*	1816

* Includes one case of unknown race.

TABLE LIV - CIVILIAN CASES OF SYPHILIS, BY STAGE, AND GONORRHEA, REPORTED IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY REPORTING AGENCY, 1946

County or City	Private Physician								Other Reporting Agencies								Totals All Reporting Agencies							
	Pri. & Sec.	Early Lat.	Late Lat.	Ter-tiary	Cong.	Not Stat.	Syph. Total	Gc.	Pri. & Sec.	Early Lat.	Late Lat.	Ter-tiary	Cong.	Not Stat.	Syph. Total	Gc.	Pri. & Sec.	Early Lat.	Late Lat.	Ter-tiary	Cong.	Not Stat.	Syph. Total	Gc.
Adams	1					1	2		2						2		3					1	4	
Asotin																								
Benton	3	1	2				6	16		2		1	1	1	5	5	3	3	2	1	1	1	11	21
Chelan																								
Rural	2	1	1				4	9	1			1		1	3	1	3	1	1	1		1	7	10
Wenatchee	1	1	1				3	7	2						2		3	1	1				5	7
Clallam																								
Rural		1		1			2	15	4	4					8	4	4	5		1			10	19
Port Angeles	1						1	3	2	1		1		3	7	4	3	1		1		3	8	7
Clark																								
Rural	2	2	4	2	1	1	12	7	11	17	23	4	2	1	58	122	13	19	27	6	3	2	70	129
Vancouver	6	2	2		1	1	12	25	9	8	7	1	2		27	68	15	10	9	1	3	1	39	93
Columbia	3						3		2	1					3		5	1					6	
Cowlitz																								
Rural	4	4	3	3		4	18	11	6	4	1				11	11	10	8	4	3		4	29	22
Longview	4	3	4	2			13	2	4	2		1	1		8		8	5	4	3	1		21	2
Douglas											1				1				1				1	
Ferry																1								1
Franklin	4	2	6			4	16	23	2	2	1				5	4	6	4	7			4	21	27
Garfield																								
Grant		1	3				4	14	2	2	1			1	6	2	2	3	4			1	10	16
Grays Harbor																								
Rural		1	2			3	6	1	5	4	1	1	1		12	9	5	5	3	1	1	3	18	10
Aberdeen	1		1	1		2	5	2	2	1	1	1		1	6	17	3	1	2	2		3	11	19
Hoquaim		1	1			1	3		2	1	1				4	6	2	2	2			1	7	6
Island	2					1	3	1	1						1		3					1	4	1
Jefferson	1	1	1	1		1	5									1	1	1	1	1		1	5	1
King																								
Rural	15	2	11	3	2	6	39	65	18	7	20	9	1	1	56	122	33	9	31	12	3	7	95	187
Seattle	74	56	83	35	6	18	272	475	185	148	232	61	14	10	650	1756	259	204	315	96	20	28	922	2231
Kitsap																								
Rural	10	3	10	3	1	5	32	14	3	4	5	2	1	5	20	72	13	7	15	5	2	10	52	86
Bremerton	8	9	13	5	2	6	43	13	23	5	10	4	1	18	61	150	31	14	23	9	3	24	104	163
Kittitas		1	1				2							2	2	5		1	1			2	4	5
Klickitat	1						1		1		1				2		2		1				3	
Lewis	5	4	6	1			16	36	4	2	4				10	7	9	6	10	1			26	43

TABLE LIV - CIVILIAN CASES OF SYPHILIS, BY STAGE, AND GONORRHEA, REPORTED IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY REPORTING AGENCY, 1946

County or City	Private Physician								Other Reporting Agencies								Totals All Reporting Agencies							
	Pri. & Sec.	Early Lat.	Late Lat.	Ter-tiary	Cong.	Not Stat.	Syph. Total	Gc.	Pri. & Sec.	Early Lat.	Late Lat.	Ter-tiary	Cong.	Not Stat.	Syph. Total	Gc.	Pri. & Sec.	Early Lat.	Late Lat.	Ter-tiary	Cong.	Not Stat.	Syph. Total	Gc.
Lincoln	1			1			2	5									1			1			2	5
Mason						2	2	4								1						2	2	5
Okanogan	6		1	1		3	11	27	1	3					4	1	7	3	1	1		3	15	28
Pacific	3	2	1				6	1	4	1					5		7	3	1				11	1
Pend Oreille								1	1			1			2		1			1			2	1
Pierce																								
Rural	6		3				9	7	7	14	6	1	1		29	53	13	14	9	1	1		38	60
Tacoma	14	11	11	6		2	44	34	36	64	31	15	6	3	155	315	50	75	42	21	6	5	199	349
San Juan										1					1			1					1	
Skagit	5	2	2	1		1	11	19	3	2				1	6	7	8	4	2	1		2	17	26
Skamania			2				2	7											2				2	7
Snohomish																								
Rural	3	2	3	1			9	13	10	8	2	1	2	1	24	24	13	10	5	2	2	1	33	37
Everett	1	1					2	11	3	4	1	2	1	1	12	33	4	5	1	2	1	1	14	44
Spokane																								
Rural	1	1	1	1			4	6	3	5	2	6			16	18	4	6	3	7			20	24
Spokane	23	5	10	1		6	45	57	52	37	36	5	4	1	135	286	75	42	46	6	4	7	180	343
Stevens								2	2						2	3	2						2	5
Thurston																								
Rural	2	4	4	1	1	2	14	13		1	2			1	4	1	2	5	6	1	1	3	18	14
Olympia	4	1	1	1		1	8	17	5			2			7	7	9	1	1	3		1	15	24
Wahkiakum	2					1	3	1									2					1	3	1
Walla Walla																								
Rural	1		1	1	1		4		3	1					4	10	4	1	1	1	1		8	10
Walla Walla	2	3			2		7	7	5	5	6	1		1	18	72	7	8	6	1	2	1	25	79
Whatcom																								
Rural	4						4	16	2	3	1		2	1	9		6	3	1		2	1	13	16
Bellingham	8	2	2	3			15	57	2	1		4			7	4	10	3	2	7			22	61
Whitman	2	1	2				5	15	1	2			2		5	19	3	3	2		2		10	34
Yakima																								
Rural	4	6	5	2	1	5	23	48	19	21	11	4	4	2	61	77	23	27	16	6	5	7	84	125
Yakima	5	6	3		1	2	17	15	20	19	4	2	4	3	52	93	25	25	7	2	5	5	69	108
URBAN TOTAL	152	101	132	54	12	39	490	725	352	296	329	100	33	41	1151	2811	504	397	461	154	45	80	1641	3536
RURAL TOTAL	93	42	75	23	7	40	280	397	118	111	82	31	17	18	377	580	211	153	157	54	24	58	657	977
GRAND TOTAL	245	143	207	77	19	79	770	1122	470	407	411	131	50	59	1528	3391	715	550	618	208	69	138	2298	4513

TABLE LV

DEATHS FROM SYPHILIS AND ALL OTHER VENEREAL DISEASES, IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, 1946

County or City	Syphilis		All Others		County or City	Syphilis		All Others	
	No.	Rate	No.	Rate		No.	Rate	No.	Rate
Adams					Mason				
Asotin					Okanogan				
Benton					Pacific	2	13.3		
Chelan	2	5.5			Pend Oreille				
Rural					Pierce	23	11.4		
Wenatchee	2	16.0			Rural	6	9.3		
Clallam					Tacoma	17	12.4		
Rural					San Juan				
Port Angeles					Skagit	1	2.4		
Clark	2	2.4			Skamania				
Rural	2	4.3			Snohomish	3	3.2		
Vancouver					Rural	2	3.4		
Columbia					Everett	1	2.8		
Cowlitz	1	2.1			Spokane	9	4.7		
Rural					Rural	1	2.1		
Longview	1	6.6			Spokane	8	5.6		
Douglas					Stevens	1	5.6	1	5.6
Ferry	1	23.8			Thurston	4	10.1		
Franklin					Rural	1	4.2		
Garfield					Olympia	3	18.8		
Grant					Wahkiakum				
Grays Harbor	9	18.0			Walla Walla	1	3.1		
Rural	2	10.2			Rural				
Aberdeen	3	15.9			Walla Walla	1	4.1		
Hoquiam	4	34.8			Whatcom	2	3.3		
Island					Rural	1	3.4		
Jefferson	1	11.1			Bellingham	1	3.1		
King	39	6.2	1	0.2	Whitman				
Rural	1	0.6			Yakima	6	5.4		
Seattle	38	8.1	1	0.6	Rural	3	3.8		
Kitsap	6	6.6			Yakima	3	9.0		
Rural	3	11.4			URBAN TOTAL	85 ~~32~~	~~3.0~~ 27	1	0.1
Bremerton	3	4.7			RURAL TOTAL	9 ~~21~~ 35	~~13.7~~ 8.6	1	0.1
Kittitas					GRAND TOTAL	167	8.1	2	0.1
Klickitat					West. St. Hosp.	28			
Lewis	4	9.5			North. St. Hosp.	11			
Lincoln					East. St. Hosp.	11			

SECTION VI

* * * * *

MEDICAL PERSONNEL AND HOSPITAL FACILITIES

TABLE LVI -- GENERAL HOSPITAL BEDS PER 1000 POPULATION BY COUNTIES, STATE OF WASHINGTON, 1946

County	Population 1/	Number of Hospitals	Number of Beds 2/ Normal	Number of Beds 2/ In Use	Beds/1000 Population 3/ Normal	Beds/1000 Population 3/ In Use
ADAMS	6,000	1	18	18	3.0	3.0
ASOTIN	8,300	1	12	12	1.5	1.5
BENTON	35,000	0			--	--
CHELAN	36,500	3	142	160	3.9	4.4
CLALLAM	22,000	2	148	148	6.7	6.7
CLARK	85,000	4	585	656	6.9	7.7
COLUMBIA	5,500	1	17	22	3.1	4.0
COWLITZ	48,000	2	143	149	3.0	3.1
DOUGLAS	8,500	0			--	--
FERRY	4,200	0			--	--
FRANKLIN	12,000	1	65	65	5.4	5.4
GARFIELD	3,100	0			--	--
GRANT	13,000	1	19	22	1.5	1.7
GRAYS HARBOR	50,000	3	156	186	3.1	3.7
ISLAND	7,300	0			--	--
JEFFERSON	9,000	1	90	90	10.0	10.0
KING	625,000	21	2,424 4/	2,619 4/	3.9	4.2
KITSAP	90,000	2	222	271	2.5	3.0
KITTITAS	21,500	4	106	119	4.9	5.5
KLICKITAT	11,000	2	42	45	3.8	4.1
LEWIS	42,000	3	81	101	1.9	2.4
LINCOLN	11,000	0			--	--
MASON	13,500	1	49	54	3.6	4.0
OKANOGAN	27,000	3	102	109	3.8	4.0
PACIFIC	15,000	2	53	54	3.5	3.6
PEND OREILLE	7,000	2	25	27	3.6	3.9
PIERCE	197,000	7	840	881	4.3	4.5
SAN JUAN	3,200	0			--	--
SKAGIT	40,000	5	167	188	4.2	4.7
SKAMANIA	4,500	0			--	--
SNOHOMISH	94,000	5	300	333	3.2	3.5
SPOKANE	188,000	6	818	908	4.4	4.8
STEVENS	18,000	3	113	118	6.3	6.6
THURSTON	39,500	1	114	134	2.9	3.4
WAHKIAKUM	4,000	0			--	--
WALLA WALLA	30,500	2	136	148	4.5	4.9
WHATCOM	61,000	3	268	298	4.4	4.9
WHITMAN	29,000	2	133	155	4.6	5.3
YAKIMA	112,000	4	319	356	2.9	3.2
ALL COUNTIES	2,037,100	98	7,707	8,446	3.8	4.2

1/ Civilian population excluding persons in institutions, estimates for July 1, 1946, as prepared cooperatively by the Washington State Census Board, Washington State Department of Health, and Washington State Department of Social Security.
2/ Excludes maternity homes and federally operated hospitals.
3/ Prepared by the Hospital Planning and Development Section from Survey records.
4/ Excludes King County Hospital for care of the aged at Georgetown with a normal capacity of 248 beds and a complement of 279 beds.

Table LVII - NUMBER OF BEDS IN NURSING HOMES PER 1000 POPULATION BY COUNTIES, STATE OF WASHINGTON, 1946

County	Population 1/	Number of Homes	Number of Beds 2/	Beds per 1000 Population
ADAMS	6,000	2	13	2.2
ASOTIN	8,300	6	41	4.9
BENTON	35,000			--
CHELAN	36,500	4	65	1.8
CLALLAM	22,000	2	49	2.2
CLARK	85,000	8	102	1.2
COLUMBIA	5,500	1	21	3.8
COWLITZ	48,000			--
DOUGLAS	8,500	1	17	2.0
FERRY	4,200			--
FRANKLIN	12,000			--
GARFIELD	3,100			--
GRANT	13,000			--
GRAYS HARBOR	50,000	7	132	2.6
ISLAND	7,300	3	52	7.1
JEFFERSON	9,000	1	9	1.0
KING	625,000	52	1,737	2.8
KITSAP	90,000	5	72	.8
KITTITAS	21,500	1	4	.2
KLICKITAT	11,000			--
LEWIS	42,000	8	182	4.3
LINCOLN	11,000	4	16	1.5
MASON	13,500			--
OKANOGAN	27,000	1	14	.5
PACIFIC	15,000	1	15	1.0
PEND OREILLE	7,000	1	6	.9
PIERCE	197,000	17	437	2.2
SAN JUAN	3,200			--
SKAGIT	40,000	2	56	1.4
SKAMANIA	4,500	1	30	6.7
SNOHOMISH	94,000	13	215	2.3
SPOKANE	188,000	18	564 3/	3.0
STEVENS	18,000	3	30	1.7
THURSTON	39,500	2	12	.3
WAHKIAKUM	4,000	2	26	6.5
WALLA WALLA	30,500	7	82	2.7
WHATCOM	61,000	4	177	2.9
WHITMAN	29,000	1	38	1.3
YAKIMA	112,000	9	120	1.1
ALL COUNTIES	2,037,100	187	4,334 3/	2.1

1/ Civilian population, excluding persons in institutions, estimates for July 1, 1946, as prepared cooperatively by the Washington State Census Board, Washington State Department of Health and Washington State Department of Social Security.

2/ Prepared by the Hospital Planning and Development Section from Hospital Survey records. Includes King County Hospital No. 2.

3/ Includes 80 beds used for nursing home care in the Community Hospital which is classified as a maternity home.

Table LVIII - PHYSICIANS IN ACTIVE PRACTICE AND NUMBER PER 1000 PERSONS BY COUNTIES, STATE OF WASHINGTON, 1946[1]

County	Population[2]	Number of Physicians[3]	Physicians Per 1000 Persons	Population Per Physician
ADAMS	6,000	4	.67	1,500
ASOTIN	8,300	4	.48	2,075
BENTON	35,000	14	.40	2,500
CHELAN	36,500	38	1.04	961
CLALLAM	22,000	14	.64	1,571
CLARK	85,000	69	.81	1,232
COLUMBIA	5,500	3	.55	1,833
COWLITZ	48,000	24	.50	2,000
DOUGLAS	8,500	1	.12	8,500
FERRY	4,200	1	.24	4,200
FRANKLIN	12,000	7	.58	1,714
GARFIELD	3,100	2	.65	1,550
GRANT	13,000	11	.85	1,182
GRAYS HARBOR	50,000	35	.70	1,429
ISLAND	7,300	3	.41	2,433
JEFFERSON	9,000	6	.67	1,500
KING	625,000	885	1.42	706
KITSAP	90,000	62	.69	1,451
KITTITAS	21,500	18	.84	1,194
KLICKITAT	11,000	5	.45	2,200
LEWIS	42,000	28	.67	1,500
LINCOLN	11,000	7	.64	1,571
MASON	13,500	5	.37	2,700
OKANOGAN	27,000	11	.41	2,455
PACIFIC	15,000	7	.47	2,143
PEND OREILLE	7,000	4	.57	1,750
PIERCE	197,000	232	1.18	849
SAN JUAN	3,200	2	.63	1,600
SKAGIT	40,000	35	.88	1,145
SKAMANIA	4,500	2	.44	2,250
SNOHOMISH	94,000	69	.73	1,362
SPOKANE	188,000	228	1.21	824
STEVENS	18,000	10	.56	1,800
THURSTON	39,500	36	.91	1,097
WAHKIAKUM	4,000	2	.50	2,000
WALLA WALLA	30,500	35	1.15	871
WHATCOM	61,000	53	.87	1,151
WHITMAN	29,000	30	1.03	967
YAKIMA	112,000	91	.81	1,230
ALL COUNTIES	2,037,100	2,093	1.03	973

1/ Prepared by the Hospital Planning and Development Section from data supplied by the State Department of Licenses and collected in the Child Health Survey.

2/ Civilian population excluding persons in institutions, estimates for July 1, 1946, as prepared cooperatively by the Washington State Census Board, Washington State Department of Health, and Washington State Department of Social Security.

3/ Exclusive of those physicians in the armed forces and in public health work, those who are known to have retired, have died, have out of State addresses, or could not be located, and those whose licenses or permits have lapsed.

Table LIX - NURSES IN RELATION TO POPULATION BY COUNTIES
STATE OF WASHINGTON, 1946

County	Population 1/	Number of Nurses 2/	Nurses Per 1000 Persons	Population Per Nurse
ADAMS	6,000	12	2.00	500
ASOTIN	8,300	9	1.08	922
BENTON	35,000	111	3.17	315
CHELAN	36,500	137	3.75	266
CLALLAM	22,000	90	4.09	244
CLARK	85,000	199	2.34	427
COLUMBIA	5,500	11	2.00	500
COWLITZ	48,000	126	2.63	381
DOUGLAS	8,500	9	1.06	944
FERRY	4,200	7	1.67	600
FRANKLIN	12,000	42	3.50	286
GARFIELD	3,100	3	0.97	1,033
GRANT	13,000	56	4.31	232
GRAYS HARBOR	50,000	170	3.40	294
ISLAND	7,300	18	2.47	406
JEFFERSON	9,000	29	3.22	310
KING	625,000	3,005	4.81	208
KITSAP	90,000	230	2.56	391
KITTITAS	21,500	73	3.40	295
KLICKITAT	11,000	7	0.64	1,571
LEWIS	42,000	84	2.00	500
LINCOLN	11,000	28	2.55	393
MASON	13,500	46	3.41	293
OKANOGAN	27,000	62	2.30	435
PACIFIC	15,000	26	1.73	577
PEND OREILLE	7,000	18	2.57	389
PIERCE	197,000	1,029	5.22	191
SAN JUAN	3,200	17	5.31	188
SKAGIT	40,000	138	3.45	290
SKAMANIA	4,500	5	1.11	900
SNOHOMISH	94,000	369	3.93	255
SPOKANE	188,000	803	4.27	234
STEVENS	18,000	36	2.00	500
THURSTON	39,500	121	3.06	326
WAHKIAKUM	4,000	7	1.75	571
WALLA WALLA	30,500	195	6.39	156
WHATCOM	61,000	249	4.08	245
WHITMAN	29,000	115	3.97	252
YAKIMA	112,000	323	2.88	347
ALL COUNTIES	2,037,100	8,015	3.93	254

1/ Civilian population excluding persons in institutions, estimates for July 1, 1946, as prepared cooperatively by the Washington State Census Board, Washington State Department of Health, and Washington State Department of Social Security.

2/ Registered nurses with Washington addresses, prepared by the Hospital Planning and Development Section from data supplied by the State Department of Licenses.