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PUBLIC HEALTH STATISTICS SECTION

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June 1, 1950

The Honorable Arthur B. Langlie
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 1948, 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 1948, 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 "1948 Annual Report" of this Department by supplying detailed tabulations of vital statistics.

Respectfully submitted,

J. A. Kahl M.D.

JOHN A. KAHL, M. D., M. P. H.
Acting State Director of Health

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SECTION I

* * * *

POPULATION

1948 population

The civilian population of the State of Washington in 1948 has been estimated at 2,148,000. This figure excludes members of the armed forces stationed in the State and military personnel from Washington stationed outside the State. There were thirty-three cities having estimated populations of 2,500 to 10,000; fifteen cities having estimated populations of 10,000 to 100,000; and three cities having estimated populations in excess of 100,000.[1]

Of the total population 891,500, or 41.5 per cent, lived in areas having no cities of more than 2,500 population whereas 58.5 per cent of the State's population lived in cities of 2,500 or more population. It was estimated that 158,400 persons lived in cities of 2,500 to 10,000 population, comprising 12.6 per cent of the total urban population. The 333,400 persons living in cities of 10,000 to 100,000 population constituted 26.5 per cent of the total urban population. The remaining 60.9 per cent or 764,700 of the urban population resided in the three major city areas of more than 100,000 population. Of the rural population 14.1 per cent were non-farm and 85.9 per cent were farm members.[2]

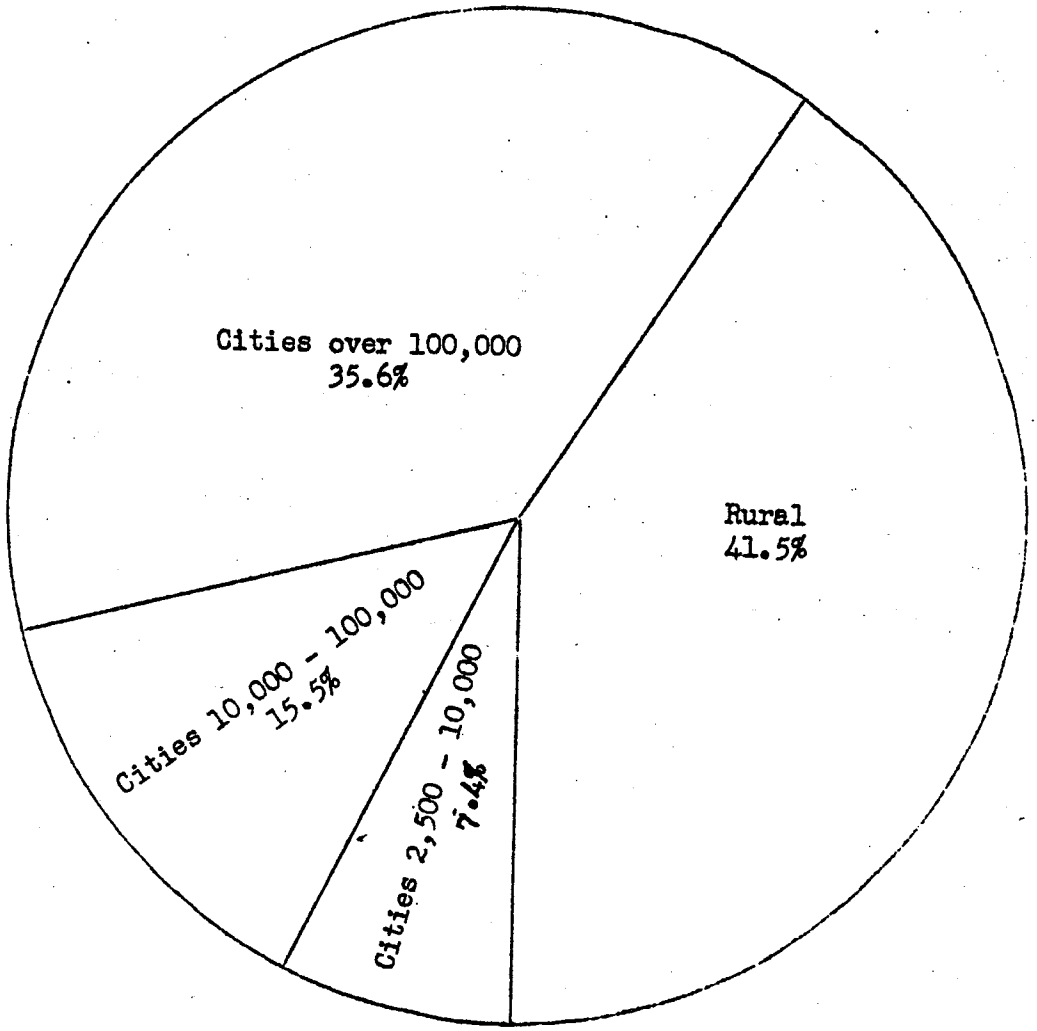
A percentage distribution of the State's population in 1948 indicated that the age group 15 to 24 years contained the highest percentage, 17.4, with the age group 5 to 14 years ranking second with 16.7 per cent. The age group 65 years and over had the smallest percentage of the population, 7.1 per cent, with the age group 0 through 4 ranking next to the lowest with 7.8 per cent of the total population.[3]

Population trends

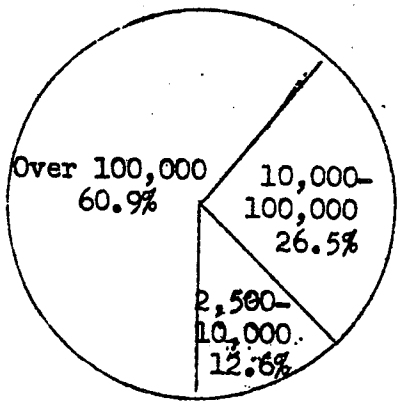
In a population forecast for the State of Washington prepared by the Office of Population Research of the University of Washington and published by the Pacific Coast Board of Intergovernmental Relations in 1949 a steady increase in the age groups 45 years and over is shown with a decline indicated in the age groups 20 through 29 years. This forecast considered the trends in population in the State from 1890 through 1948 and forecasts the population groupings for the years 1950 and 1960. A population of approximately 3,218,000 is forecast for the year 1960 if the State's population tends to increase at its present rate.[4]

1 Table 2, page 9
2. Figure 1, page 2
3. Figure 2, page 3
4. Figure 3, page 4

FIGURE 1 - PERCENTAGE DISTRIBUTION OF ESTIMATED POPULATION OF THE STATE OF WASHINGTON, BY MAJOR AREAS, 1948



Percentage Distribution of Urban Population



Percentage Distribution of Rural Population

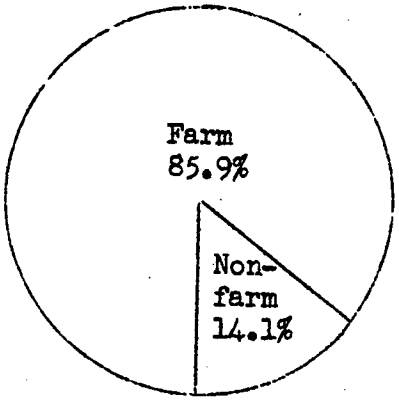


FIGURE 2 - PERCENTAGE DISTRIBUTION OF THE ESTIMATED POPULATION OF THE STATE OF WASHINGTON, BY SPECIFIC AGE GROUPS, FOR THE YEAR 1948

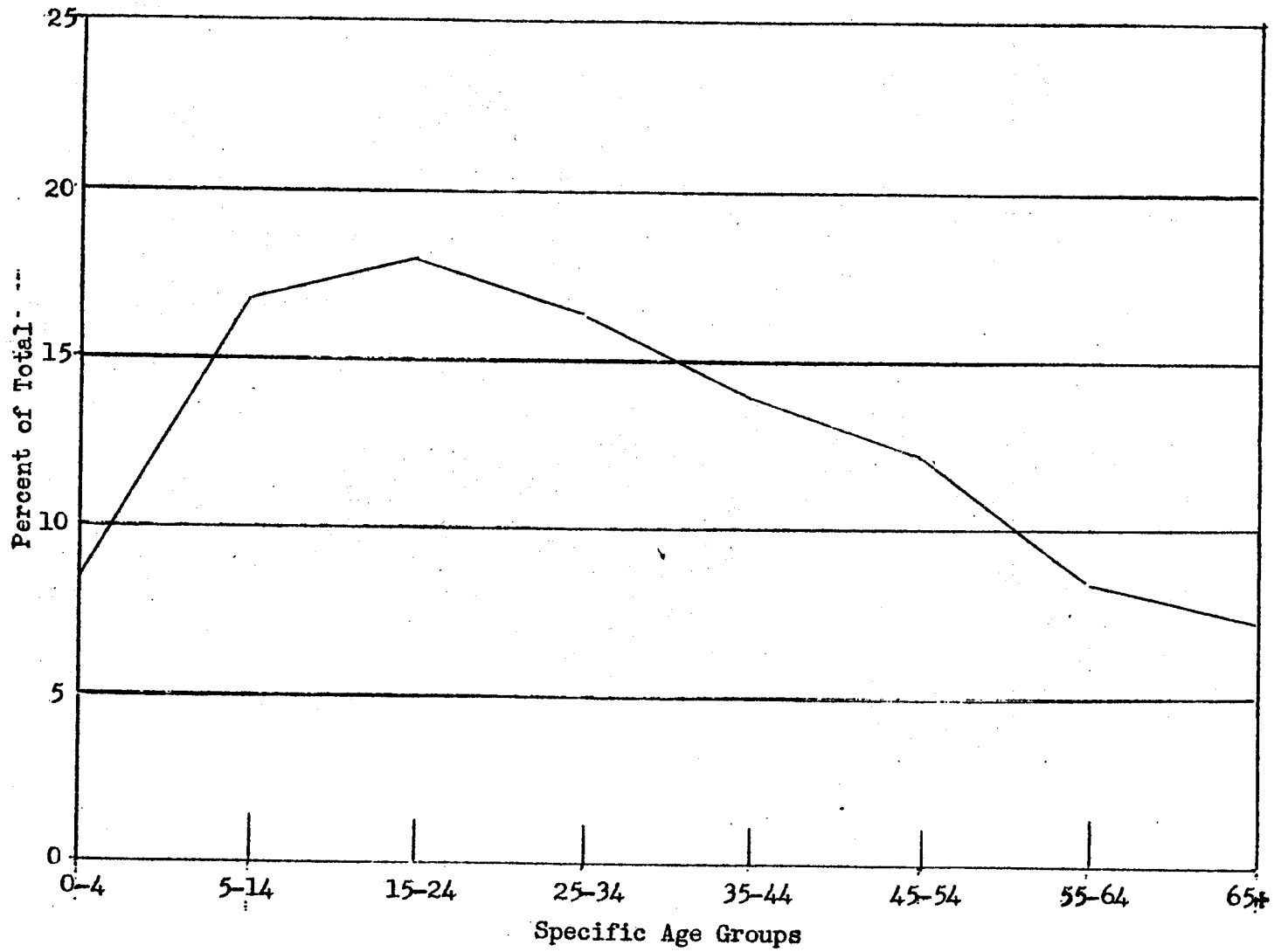
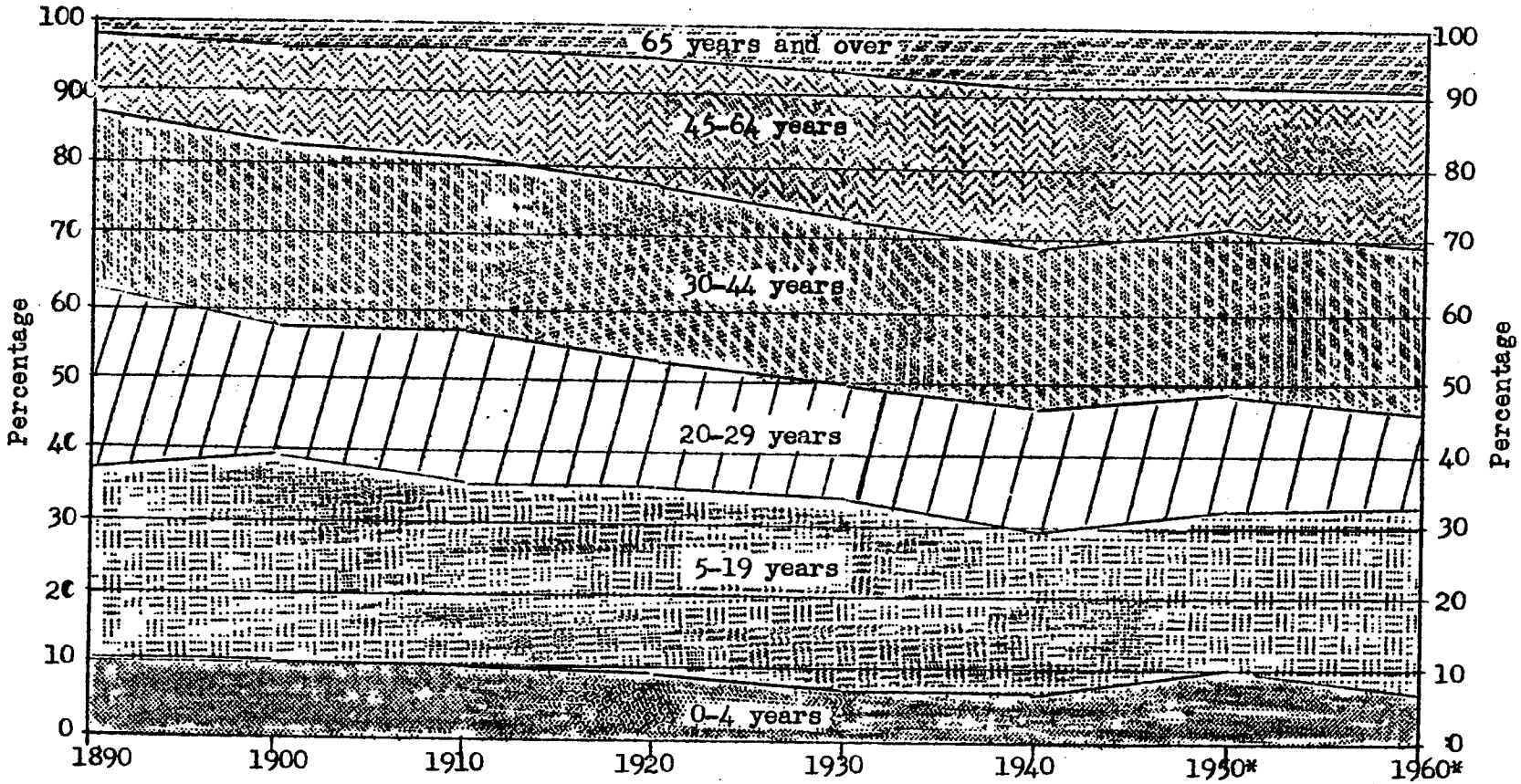


FIGURE 3 - POPULATION TRENDS BY AGE STATE OF WASHINGTON: 1890 TO 1960



Courtesy of Office of Population Research
University of Washington

* Figures for 1950 and 1960 represent forecasts

SECTION II

* * * * *

NATALITY

1948 Natality

Final tabulations of the number of livebirths in the State of Washington during 1948 show 57,045 of these events reported. Allocations by residence reduced this total to 55,460 livebirths to mothers whose residence was within this State. The respective birth rates by occurrence and place of residence were 26.6 and 25.8 per 1,000 estimated population.[5]

Age of mother

Of the infants born to resident mothers of the State of Washington 63.2 per cent were to mothers between the ages of 20 and 30 years. Of these births 34.1 per cent were to mothers between the ages of 20 and 25 years while 29.1 per cent were to mothers between the ages of 25 and 30 years. There were 30 births to mothers under 15 years of age and 46 births to mothers 45 years and over. There were 28,255 male and 27,205 female births. Mothers in the age groups 20 to 24, 25 to 29, 30 to 34, and 40 to 44 years gave birth to more male infants whereas those in the age groups under 15, 15 to 19, 35 to 39, and 45 years and over gave birth to more female infants.[6]

ttendant

Of the births by place of residence 54,157, or 97.6 per cent, were attended by medical physicians; 1,204, or 2.2 per cent, were attended by osteopaths; and 98, or 0.2 per cent, were attended by other persons.[7]

Place of birth

The greater portion of the births in Washington occurred in institutions having facilities for the care of mothers and infants. Of the total number of resident livebirths 96.8 per cent occurred in general hospitals, 1.8 per cent occurred in maternity homes, and less than 2 per cent occurred in private homes and other places.[8]

Multiple births

A total of 633 multiple births to resident mothers was recorded during 1948. Of this number there were four sets of triplets. Multiple births constituted 1.1 per cent of the total number of livebirths, or approximately one out of every 100 livebirths was a multiple birth. This figure represents a decline from the 1947 figure of 2.1 per cent.[9]

Table 2, page 9
-. Table 3, page 12
7. Table 4, page 14
8. Table 5, page 16
9. Table 6, page 18

Illegitimate parentage

Distribution of births by marital status of the parents disclosed 1,125, or 2.0 per cent of the total number of livebirths, issued from illegitimate parentage. The year 1948 showed a slight reduction in the over-all rate for this type of birth from that of the preceding year. Of the 30 births to mothers under 15 years of age, 16, or 53.3 per cent, were of illegitimate parentage. Of the total births to mothers in the age group of 15 through 19 years, 431, or 6.7 per cent, were of this parentage, and in the age group 20 through 24 years, 389, or 2.0 per cent, were of this parentage. There were 165 illegitimate births to mothers in the age group 25 through 29 years, which represented 1.0 per cent of the total births to mothers in this age group.[10]

Premature births

There was a total of 4,382 premature births in 1948 with a rate of 79.0 per 1,000 livebirths. While the largest number of premature births, 1,399, were to mothers in the age group 20 through 24 years, the largest percentage of premature births, 8.9 per cent, was to mothers in the age group 30 through 34 years. The percentage of premature livebirths in the State of Washington during 1948 was 7.9 per cent, which was higher than the 1947 figure of 6.9 per cent and the 1946 figure of 7.1 per cent.[11]

Congenital malformations

Of the total resident livebirths reported during 1948, 562, or 1.0 per cent, were reported as congenitally malformed infants. This percentage of malformation was the same as the figure of 1.0 per cent for 1947 but slightly higher than the 0.9 per cent for 1946.

A slightly higher percentage of malformation was noted in the rural area population than the urban areas. These percentages were 1.1 and 0.9 respectively. The importance of this as a reportable item lies in the fact that here we have a basic index of future children who have physicial impairment which may lend themselves to correction. Many of these impairments can be totally corrected if the need is discovered and proper therapy applied at the earliest moment possible.[12]

Prenatal serology

Washington statute requires that a prenatal blood test be made on all pregnant women. Of the tests made in 1948, there were 143 which showed a positive serology and in which the physicians in attendance made a diagnosis of syphilis being present. Of the women of the white race listed 0.2 per cent were diagnosed as syphilitic while 2.5 per cent of the mothers of other races were diagnosed as syphilitic. While the percentage of white women found with syphilis remained fairly constant with that of 1947, there was a 30.6 per cent reduction of syphilitic findings among the non-white race during this period.[13]

10. Table 7, page 20
11. Table 8, page 22
12. Table 9, page 24
13. Table 10, page 26, and Table 11, page 29

Birth trends

During the ten-year period of 1939 through 1948 there has been a marked increase in the birth rate of the State of Washington. The peak of registration was reached in 1947 and a slight decline from the peak was observed in 1948. The decline, however, did not reach the 1946 rate level.

Prior to 1943 the Washington State birth rates were relatively lower than those for the United States Registration Area. However, the rates for 1943 and succeeding years show a higher birth rate for the State than those for the United States Registration Area. These figures can be interpreted to mean that a younger and virile age group are migrating to the State as evidenced by the population increase.[14]

14. Figure 6, page 35

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 - 1948

Year	Population	Livebirths		Deaths		Infant Deaths		Maternal Deaths		Stillbirths	
		Number	Rate**	Number	Rate**	Number	Rate*	Number	Rate*	Number	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	1,533	34.6	72	1.6	575	13.0
1944	1,986,192	44,246	22.2	21,144	10.6	1,493	33.7	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
1947	2,085,640	58,230	27.9	21,763	10.4	1,630	28.0	59	1.0	907	15.6
1948	2,148,000	55,460	25.8	21,925	10.2	1,525	27.5	36	0.6	776	14.0

* 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 - 1948 place of residence figures from Section of Public Health Statistics, Washington State Department of Health.

TABLE 2

LIVEBIRTHS 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, 1948

County or City	1948 Population	Residence		Occurrence	
		Number	Rate	Number	Rate
Adams	6,100	148	24.3	116	19.0
Asotin	10,250	132	12.9	150	14.6
Benton	46,600	1,225	26.3	1,024	22.0
Rural	25,400	699	27.5	254	10.0
Richland	21,200	526	24.8	770	36.3
Chelan	38,800	1,082	27.9	1,312	33.8
Rural	25,800	705	27.3	223	8.6
Wenatchee	13,000	377	29.0	1,089	83.8
Clallam	22,900	685	30.0	649	28.3
Rural	12,100	357	29.5	76	6.3
Port Angeles	10,800	328	30.4	573	53.1
Clark	75,100	2,147	28.6	2,194	29.2
Rural	44,700	1,398	31.3	259	5.8
Vancouver	30,400	749	24.6	1,935	63.6
Columbia	5,700	116	20.3	104	18.2
Cowlitz	53,450	1,494	28.0	1,640	30.7
Rural	34,050	831	24.4	30	0.9
Longview	19,400	663	34.2	1,610	83.0
Douglas	8,600	212	24.6	5	0.6
Ferry	4,200	104	24.8	49	11.7
Franklin	12,600	340	27.0	726	57.6
Garfield	2,900	66	22.8	44	15.2
Grant	12,500	432	34.6	264	21.1
Grays Harbor	53,850	1,369	25.4	1,344	25.0
Rural	21,300	583	27.4	142	6.7
Aberdeen	20,500	512	25.0	1,200	58.5
Hoquiam	12,050	274	22.7	2	0.2
Island	7,400	168	22.7	279	37.7
Jefferson	9,000	294	32.7	253	28.1
King	671,700	16,804	25.0	17,490	26.0
Rural	179,500	6,304	35.1	1,328	7.4
Renton	16,200	633	39.1	1,226	75.7
Seattle	476,000	9,867	20.7	14,936	31.4
Kitsap	77,650	2,025	26.1	1,969	25.4
Rural	45,150	991	22.0	38	0.8
Bremerton	32,500	1,034	31.8	1,931	59.4
Kittitas	23,600	553	23.4	562	23.8
Klickitat	11,100	302	27.2	224	20.2
Lewis	43,400	960	22.1	1,004	23.1
Lincoln	11,300	230	20.4	90	8.0
Mason	13,000	355	27.3	333	25.6
Okanogan	27,900	815	29.2	392	32.0
Pacific	15,700	369	23.5	311	19.8
Pend Oreille	7,500	152	20.3	196	26.1
Pierce	208,900	5,487	26.3	6,172	29.5
Rural	61,000	1,854	30.4	1,051	17.2
Puyallup	10,000	197	19.7	415	41.5
Tacoma	137,900	3,436	25.0	4,706	34.1

TABLE 2 (Continued)

LIVEBIRTHS 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, 1948

County or City	1948 Population	Residence		Occurrence	
		Number	Rate	Number	Rate
San Juan	5,300	65	12.3	17	3.2
Skagit	44,800	932	20.8	964	21.5
Skamania	4,500	91	20.2	2	0.4
Snohomish	96,750	2,536	26.2	2,282	23.6
Rural	61,150	1,532	25.1	514	8.4
Everett	35,600	1,004	28.2	1,768	49.7
Spokane	207,300	5,254	25.3	5,884	28.4
Rural	56,500	1,205	21.3	39	0.7
Spokane	150,800	4,049	26.8	5,845	38.8
Stevens	18,900	436	23.1	414	22.0
Thurston	39,750	1,093	27.5	992	25.0
Rural	23,450	688	29.3	32	1.4
Olympia	16,300	405	24.8	960	58.9
Wahkiakum	4,000	77	19.3	1	0.3
Walla Walla	32,550	855	26.3	1,174	36.1
Rural	8,950	339	37.9	0	0.0
Walla Walla	23,600	516	21.9	1,174	49.7
Whatcom	62,900	1,583	25.2	1,599	25.4
Rural	29,800	693	23.3	85	2.9
Bellingham	33,100	890	26.9	1,514	45.7
Whitman	29,600	725	24.5	617	21.9
Yakima	119,950	3,747	31.2	3,673	30.6
Rural	81,200	2,269	27.9	1,239	15.3
Yakima	38,750	1,478	38.1	2,434	62.8
URBAN TOTAL	1,098,100	26,938	24.5	44,088	40.1
RURAL TOTAL	1,049,900	28,522	27.2	12,957	12.3
GRAND TOTAL	2,148,000	55,460	25.8	57,045	26.6

FIGURE 4 - QUARTILE DISTRIBUTION OF CRUDE BIRTH RATES BY COUNTY OF MOTHER'S RESIDENCE, STATE OF WASHINGTON, 1948

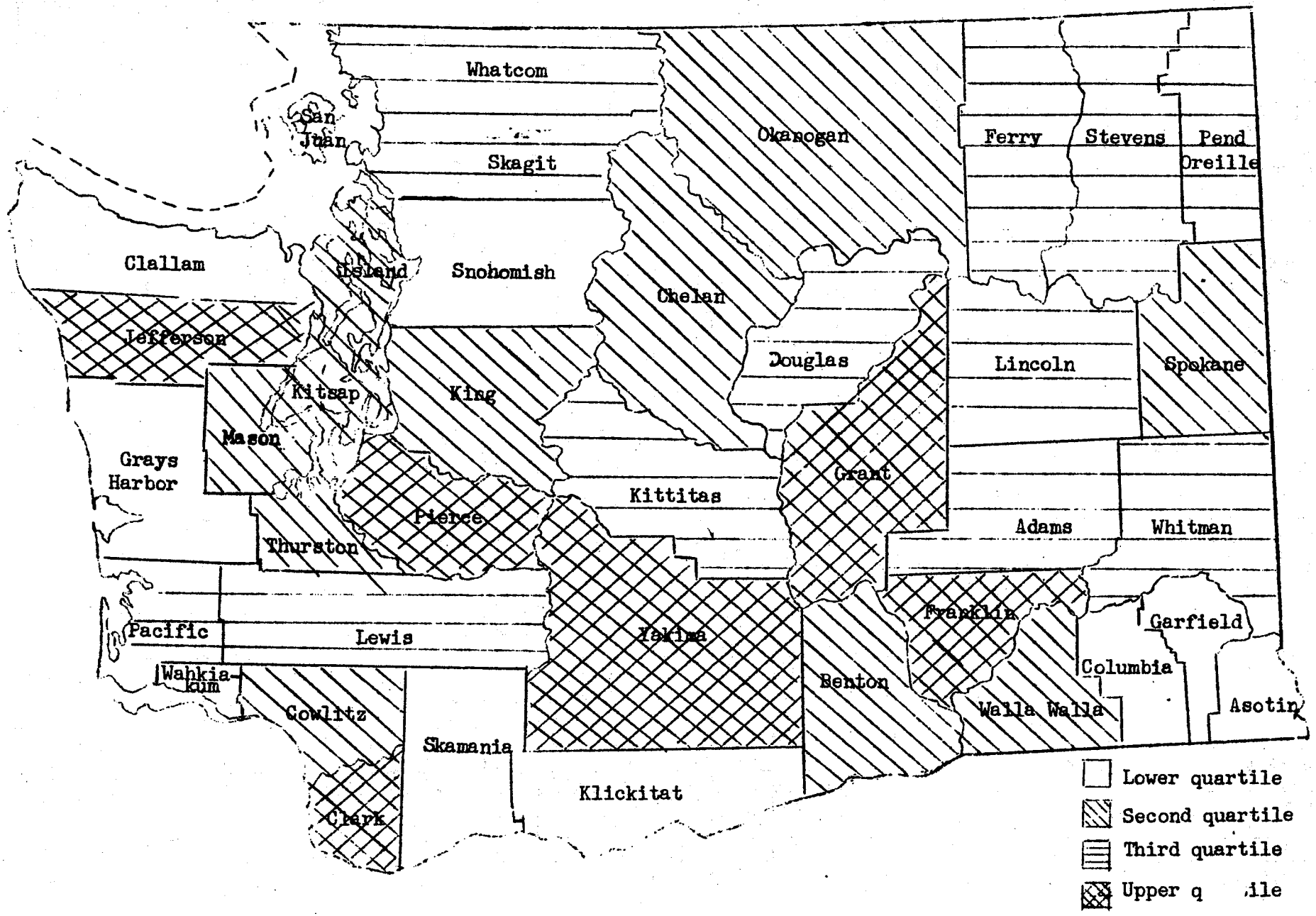


TABLE 3 - LIVEBIRTHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE OF MOTHE AND BY SEX OF CHILD, ALLOCATED TO RESIDENCE OF MOTHER, 1948

County or City	Under 15		15-19		20-24		25-29		30-34		35-39		40-44		45 & over		Unknown		Totals	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Adams			10	7	29	23	16	21	16	15	4	6		1					75	73
Asotin			13	9	24	22	18	17	3	9	7	5	2	2		1			67	65
Benton			95	83	195	190	179	154	93	109	57	43	17	9				1	636	589
Rural			72	62	121	114	88	78	46	54	24	23	11	5				1	362	337
Richland			23	21	74	76	91	76	47	55	33	20	6	4					274	252
Chelan	1	2	83	77	210	190	134	135	83	69	35	44	11	8					557	525
Rural	1	2	55	55	126	124	90	90	56	44	23	25	8	6					359	346
Wenatchee			28	22	84	66	44	45	27	25	12	19	3	2					198	179
Clallam		1	55	54	119	105	98	90	47	45	27	27	11	5	1				358	327
Rural		1	33	30	56	59	44	44	18	27	20	14	8	2	1				180	177
Port Angeles			22	24	63	46	54	46	29	18	7	13	3	3					178	150
Clark	1	1	120	115	373	376	310	283	184	184	86	76	22	15	1				1097	1050
Rural	1		77	83	258	253	195	172	113	107	61	49	18	10	1				724	674
Vancouver		1	43	32	115	123	115	111	71	77	25	27	4	5					373	376
Columbia			15	8	14	17	15	14	9	13	6	3	2						61	55
Cowlitz		1	114	98	302	256	208	187	82	125	56	43	10	11		1			772	722
Rural			77	65	164	149	102	100	40	66	32	26	4	5		1			419	412
Longview		1	37	33	138	107	106	87	42	59	24	17	6	6					353	310
Douglas			16	10	35	36	31	31	16	14	12	8	2	1					112	100
Ferry			9	7	12	17	21	11	8	11	3	4						1	53	51
Franklin			26	23	58	75	36	53	26	25	4	11	1	2					151	189
Garfield			4	2	8	7	14	7	9	4	7	2		2					42	24
Grant		1	25	22	58	78	52	71	45	40	14	18	3	4		1			197	235
Grays Harbor	1		128	81	260	224	183	189	94	99	39	43	15	11	1	1			721	648
Rural	1		61	40	113	93	71	81	33	34	15	25	9	6	1				304	279
Aberdeen			37	27	101	85	68	71	42	45	18	13	3	1		1			269	243
Hoquiam			30	14	46	46	44	37	19	20	6	5	3	4					148	126
Island			13	7	22	25	29	28	16	12	5	8		3					85	83
Jefferson			17	23	39	53	46	51	24	21	9	8		2		1			135	159
King	4	1	728	662	2769	2726	2714	2710	1508	1408	631	633	163	131	5	7	2	2	8524	8280
Rural	2		266	245	1034	1005	1007	1037	560	537	234	252	69	49	3	4			3175	3129
Renton			30	39	126	116	94	96	46	50	17	15	1	3					314	319
Seattle	2	1	432	378	1609	1605	1613	1577	902	821	380	366	93	79	2	3	2	2	5035	4832
Kitsap		1	139	131	381	326	257	300	165	145	74	74	14	15		2		1	1030	995
Rural			62	50	187	149	112	156	100	70	46	43	5	11					512	479
Bremerton		1	77	81	194	177	145	144	65	75	28	31	9	4		2		1	518	516
Kittitas			33	35	83	102	73	74	47	50	27	18	4	5		2			267	286
Klickitat			26	34	56	59	26	28	20	25	10	7	4	6				1	142	160

TABLE 3 - 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 MOTHER, 1948

County or City	Under 15		15-19		20-24		25-29		30-34		35-39		40-44		45 & over		Unknown		Totals	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Lewis		1	78	68	180	178	121	125	64	72	22	37	6	7		1			471	489
Lincoln			15	8	46	36	28	29	23	16	11	13	2	3					125	105
Mason			32	25	74	57	51	43	21	25	11	13	2	1					191	164
Okanogan			65	64	148	135	107	97	70	53	27	32	9	6		1	1		427	388
Pacific			28	24	72	59	51	50	27	29	10	12	5	2					193	176
Pend Oreille			10	7	36	24	20	17	10	13	4	8	2	1					82	70
Pierce	2	2	326	295	984	931	767	821	445	433	188	207	43	41	1	1			2756	2731
Rural			111	111	326	332	254	262	145	136	73	72	19	12	1				929	925
Puyallup			14	11	38	30	29	26	15	16	5	9	2	2					103	94
Tacoma	2	2	201	173	620	569	484	533	285	281	110	126	22	27		1			1724	1712
San Juan			6	2	8	10	13	3	6	8	4	4		1					37	28
Skagit			61	71	177	155	126	114	78	80	29	29	7	3	2				480	452
Skamania			7	7	12	12	14	16	7	6	6	2	1	1					47	44
Snohomish			181	155	425	440	366	351	204	188	89	84	25	25	3				1293	1243
Rural			112	98	234	268	215	212	116	114	60	67	15	19	2				754	778
Everett			69	57	191	172	151	139	88	74	29	17	10	6	1				539	465
Spokane		2	287	279	976	876	788	772	426	404	173	173	46	44	3	4	1		2700	2554
Rural			85	66	204	185	162	182	103	104	43	44	14	11	1		1		613	592
Spokane		2	202	213	772	691	626	590	323	300	130	129	32	33	2	4			2087	1962
Stevens		1	33	33	70	54	64	64	32	34	18	21	9	3					226	219
Thurston	2		58	65	187	174	178	157	87	79	40	48	9	8	1				562	531
Rural	2		36	44	120	118	109	103	50	46	23	26	5	5	1				346	342
Olympia			22	21	67	56	69	54	37	33	17	22	4	3					216	189
Wahkiakum			13	9	10	11	9	9	7	3	2	2	2						43	34
Walla Walla	1		41	46	156	159	152	121	60	58	23	24	7	7					440	415
Rural			18	15	59	71	53	50	27	25	9	6	3	3					169	179
Walla Walla	1		23	31	97	88	99	71	33	33	14	18	4	4					271	245
Whatcom			110	101	273	264	207	216	133	123	61	59	17	18		1			801	782
Rural			44	48	122	100	92	98	52	57	26	33	8	13					344	349
Bellingham			66	53	151	164	115	118	81	66	35	26	9	5		1			457	433
Whitman	1		27	38	140	117	114	100	73	58	22	21	9	4	1				387	338
Yakima	1	2	293	294	684	626	478	454	277	269	139	146	36	42	1	2	3		1912	1835
Rural	1	1	193	192	403	373	286	268	141	160	92	97	24	32	1	2	3		1144	1125
Yakima		1	100	102	281	253	192	186	136	109	47	49	12	10					768	710
URBAN TOTAL	5	9	1456	1332	4767	4470	4139	4007	2288	2157	937	922	226	201	5	12	2	3	13825	13113
RURAL TOTAL	9	7	1884	1747	4938	4755	3975	4006	2257	2217	1055	1094	292	249	15	14	5	3	14430	14092
GRAND TOTAL	14	16	3340	3079	9705	9225	8114	8013	4545	4374	1992	2016	518	450	20	26	7	6	28255	27205

TABLE 4

LIVEBIRTHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY PERSON IN ATTENDANCE, ALLOCATED TO RESIDENCE OF MOTHER, 1948

County or City	Physi-cian	Mid-wife	Osteo-path	Sani-practor	Not Stated	Total
Adams	147		1			148
Asotin	129			3		132
Benton	1222		2		1	1225
Rural	697		1		1	699
Richland	525		1			526
Chelan	1080				2	1082
Rural	703				2	705
Wenatchee	377					377
Clallam	656		23		6	685
Rural	328		23		6	357
Port Angeles	328					328
Clark	2134		12		1	2147
Rural	1390		7		1	1398
Vancouver	744		5			749
Columbia	116					116
Cowlitz	1494					1494
Rural	831					331
Longview	663					663
Douglas	210		2			212
Ferry	102				2	104
Franklin	340					340
Garfield	66					66
Grant	430		2			132
Grays Harbor	1366		1		2	1369
Rural	581				2	583
Aberdeen	512					512
Hoquiam	273		1			274
Island	167				1	168
Jefferson	294					294
King	16203		579	3	19	16304
Rural	6036		257		11	6304
Renton	618		15			633
Seattle	9549		307	3	8	9867
Kitsap	2016		6		3	2025
Rural	984		4		3	991
Bremerton	1032		2			1034
Kittitas	547		4		2	553
Klickitat	301				1	302
Lewis	960					960
Lincoln	228		2			230
Mason	351		3		1	355
Okanogan	695		119		1	815
Pacific	369					369
Pend Oreille	152					152
Pierce	5463		20		4	5487
Rural	1844		9		1	1854
Puyallup	197					197
Tacoma	3422		11		3	3436

TABLE 4 (Continued)

LIVEBIRTHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY PERSON IN ATTENDANCE, ALLOCATED TO RESIDENCE OF MOTHER, 1948

County or City	Physi-cian	Mid-wife	Osteo-path	Sani-practor	Not Stated	Total
San Juan	65					65
Skagit	927		1		4	932
Skamania	89				2	91
Snohomish	2511		20		5	2536
Rural	1513		15		4	1532
Everett	998		5		1	1004
Spokane	5233		11	8	2	5254
Rural	1200		3	2		1205
Spokane	4033		8	6	2	4049
Stevens	432				4	436
Thurston	1038		48		7	1093
Rural	647		34		7	688
Olympia	391		14			405
Wahkiakum	77					77
Walla Walla	853				2	855
Rural	339					339
Walla Walla	514				2	516
hatcom	1582		1			1583
Rural	693					693
Bellingham	889		1			890
Whitman	717	1	7			725
Yakima	3395		340		12	3747
Rural	2115		144		10	2269
Yakima	1280		196		2	1478
URBAN TOTAL	26345	0	566	9	18	26938
RURAL TOTAL	27812	1	638	5	66	28522
GRAND TOTAL	54157	1	1204	14	84	55460
Percent of Total	97.6	*	2.2	*	0.2	100.0

* Less than 0.05 percent

TABLE 5

LIVEBIRTHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY PLACE OF BIRTH, WITH PERCENTAGES OF TOTAL, ALLOCATED TO RESIDENCE OF MOTHER, 1948

County or City	General Hospital	Maternity Home	Nursing Home	Home	Other	Totals
Adams	140	1		7		148
Asotin	128	1		3		132
Benton	1,210	5		7	3	1,225
Rural	686	3		7	3	699
Richland	524	2				526
Chelan	1,037	10	1	33	1	1,082
Rural	666	5	1	32	1	705
Wenatchee	371	5		1		377
Clallam	611	63		11		685
Rural	284	62		11		357
Port Angeles	327	1				328
Clark	2,124	9	1	9	4	2,147
Rural	1,382	7	1	4	4	1,398
Vancouver	742	2		5		749
Columbia	115	1				116
Cowlitz	1,486	2		5	1	1,494
Rural	826	2		2	1	831
Longview	660			3		663
Douglas	203	2		4	3	212
Ferry	99	1		4		104
Franklin	338	1		1		340
Garfield	60	1		5		66
Grant	409	18		5		432
Grays Harbor	1,356	4		8	1	1,369
Rural	575	4		4		583
Aberdeen	509			3		512
Hoquiam	272			1	1	274
Island	69	94		5		168
Jefferson	290	3		1		294
King	16,449	234	1	110	10	16,804
Rural	6,159	72	1	68	4	6,304
Renton	624	5		4		633
Seattle	9,666	157		38	6	9,867
Kitsap	1,976	11		8	30	2,025
Rural	950	4		7	30	991
Bremerton	1,026	7		1		1,034
Kittitas	543	1	1	7	1	553
Klickitat	300			2		302
Lewis	951	4		5		960
Lincoln	172	31	2	23	2	230
Mason	348	3		3	1	355
Okanogan	771	12		27	5	815
Pacific	335			32	2	369
Pend Oreille	146	1		5		152
Pierce	5,397	41		45	4	5,487
Rural	1,802	24		25	3	1,854
Puyallup	195			2		197
Tacoma	3,400	17		18	1	3,436

TABLE 5 (Continued)

LIVEBIRTHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY PLACE OF BIRTH, WITH PERCENTAGES OF TOTAL, ALLOCATED TO RESIDENCE OF MOTHER, 1948

County or City	General Hospital	Maternity Home	Nursing Home	Home	Other	Totals
San Juan	47	1		17		65
Skagit	915	7		10		932
Skamania	89			2		91
Snohomish	2,468	14		50	4	2,536
Rural	1,477	7		45	3	1,532
Everett	991	7		5	1	1,004
Spokane	5,144	55		42	13	5,254
Rural	1,160	14		22	9	1,205
Spokane	3,984	41		20	4	4,049
Stevens	428	2		5	1	436
Thurston	1,029	8		51	5	1,093
Rural	639	6		38	5	688
Olympia	390	2		13		405
Wahkiakum	77					77
Walla Walla	849	2		4		855
Rural	337	2				339
Walla Walla	512			4		516
Whatcom	1,566	9		7	1	1,583
Rural	681	5		6	1	693
Bellingham	885	4		1		890
Whitman	701	13		9	2	725
Yakima	3,301	351		90	5	3,747
Rural	1,837	342		85	5	2,269
Yakima	1,464	9		5		1,478
URBAN TOTAL	26,542	259	0	124	13	26,938
RURAL TOTAL	27,135	757	6	538	86	28,522
GRAND TOTAL	53,677	1,016	6	662	99	55,460
Percent of Total	96.8	1.8	*	1.2	0.2	100.0

* Less than 0.05%

TABLE 6

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, 1948

County or City	White	Negro	Indian	Chinese	Japanese	Other	Total
Adams	3						3
Asotin	10						10
Benton	7						7
Rural							0
Richland	7						7
Chelan	13				1		14
Rural	9				1		10
Wenatchee	4						4
Clallam	6						6
Rural	4						4
Port Angeles	2						2
Clark	18	1					19
Rural	11	1					12
Vancouver	7						7
Columbia	2						2
Cowlitz	10						10
Rural	7						7
Longview	3						3
Douglas	2						2
erry	2						2
Franklin	3						3
Garfield	1						1
Grant	7						7
Grays Harbor	12						12
Rural	7						7
Aberdeen	5						5
Hoquiam							0
Island	4						4
Jefferson	6						6
King	176	5		1	1	2	185
Rural	67*					1	68
Renton	4	1					5
Seattle	105**	4		1	1	1	112
Kitsap	18	1					19
Rural	7						7
Bremerton	11	1					12
Kittitas	5						5
Klickitat	4						4
Lewis	7						7
Lincoln	3						3
Mason	3						3
Okanogan	12						12
Pacific	2						2
Pend Oreille	1						1
ierce	64	1	1				66
Rural	18						18
Puyallup	3						3
Tacoma	43	1	1				45
San Juan	1						1
Skagit	13						13

TABLE 6 (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, 1948

County or City	White	Negro	Indian	Chinese	Japanese	Other	Total
Skamania	1						1
Snohomish	31						31
Rural	18						18
Everett	13						13
Spokane	67	2					69
Rural	13						13
Spokane	54	2					56
Stevens	6						6
Thurston	9						9
Rural	5						5
Olympia	4						4
Wahkiakum							0
Walla Walla	9						9
Rural	7						7
Walla Walla	2						2
Whatcom	17		1				18
Rural	7		1				8
Bellingham	10*						10
Whitman	10						10
Yakima	49	1	1				51
Rural	30	1	1				32
Yakima	19*						19
URBAN TOTAL	296	9	1	1	1	1	309
RURAL TOTAL	318	2	2	0	1	1	324
GRAND TOTAL	614	11	3	1	2	2	633

* Includes 1 set of triplets
** Includes 3 sets of triplets

TABLE 7

ILLEGITIMATE BIRTHS, BY AGE OF MOTHER, IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 1,000 LIVEBIRTHS, ALLOCATED TO RESIDENCE OF MOTHER, 1948

County or City	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & over	Total	Rate
Adams			2						2	13.5
Asotin		1		1					2	15.2
Benton		5	3	1	1				10	8.2
Rural		3	2						5	7.2
Richland		2	1	1	1				5	9.5
Chelan		8	12	2	2				24	22.2
Rural		6	6	1	1				14	19.9
Wenatchee		2	6	1	1				10	26.5
Clallam	1	3	1			1			6	8.8
Rural	1	2	1			1			5	14.0
Port Angeles		1							1	3.0
Clark	1	10	14	4	1	1			31	14.4
Rural	1	8	8	1		1			19	13.6
Vancouver		2	6	3	1				12	16.0
Columbia		1							1	8.6
Cowlitz		4	6	2	1		1		14	9.4
Rural		2	3		1				6	7.2
Longview		2	3	2			1		8	12.1
Douglas		3							3	14.2
Ferry		1	3						4	38.5
Franklin		5	3	1	1	1			11	32.4
Garfield			1			1			2	30.3
Grant		2	4						6	13.9
Grays Harbor	1	8	9	1	2				21	15.3
Rural	1	8	6		1				16	27.1
Aberdeen			2	1					3	5.9
Hoquiam			1		1				2	7.3
Island			1						1	6.0
Jefferson		1	1		1				3	10.2
King	2	140	150	76	34	13	1		416	24.8
Rural	1	47	30	10	5	5			98	15.5
Renton		2		3	2				7	11.1
Seattle	1	91	120	63	27	8	1		311	31.5
Kitsap		13	9	3	3			1	29	14.3
Rural		6	5	2	2				15	15.1
Bremerton		7	4	1	1			1*	14	13.5
Kittitas		2	2		2				6	10.8
Klickitat		1							1	3.3
Lewis	1	4	4	6	1				16	16.7
Lincoln			2		1				3	13.0
Mason		2	2						4	11.3
Okanogan		5	4	2					11	13.5
Pacific		4	1	1					6	16.3
Pend Oreille			3						3	19.7
Pierce	4	60	40	17	7	6			134	21.4
Rural		21	10	2		2			35	18.9
Puyallup		2		1					3	15.2
Tacoma	4	37	30	14	7	4			96	27.9

TABLE 7 (Continued)

ILLEGITIMATE BIRTHS, BY AGE OF MOTHER, IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 1,000 LIVEBIRTHS, ALLOCATED TO RESIDENCE OF MOTHER, 1948

County or City	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & over	Total	Rate
San Juan			2						2	30.8
Skagit		11	5	1	1				18	19.3
Skamania									0	0.0
Snohomish		17	17	9	2	6			51	20.1
Rural		8	5	5	1	4			23	15.0
Everett		9	12	4	1	2			28	27.9
Spokane	1	46	38	14	9	1			109	20.7
Rural		10	9	2	1				22	18.3
Spokane	1	36	29	12	8	1			87	21.5
Stevens		4	2				1		7	16.1
Thurston	2	10	6	1	1	1			21	19.2
Rural	2	8	4		1				15	21.8
Olympia		2	2	1		1			6	14.8
Wahkiakum									0	0.0
Walla Walla	1	2	7	3					13	15.2
Rural		1	2	1					4	11.8
Walla Walla	1	1	5	2					9	17.4
Whatcom		13	9	2	2	1	1		28	17.7
Rural		7	4	1			1		13	18.8
Bellingham		6	5	1	2	1			15	16.9
Whitman		5	2		1				8	11.0
Yakima	2	40	24	18	8	6			98	26.2
Rural	1	27	15	10	5	4			62	27.3
Yakima	1	13	9	8	3	2			36	24.4
URBAN TOTAL	8	215	235	113	55	19	2	1	653	21.2
RURAL TOTAL	8	216	154	47	26	19	2	0	472	16.5
GRAND TOTAL	16	431	389	165	81	38	4	1	1125	20.3

*Age unknown

TABLE 8

PREMATURE BIRTHS, BY AGE OF MOTHER, IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 1,000 LIVEBIRTHS, ALLOCATED TO RESIDENCE OF MOTHER, 1948

County or City	Under 15	15-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45 & over	Unknown age	Total	Rate
Adams			4	3	2	1				10	67.6
Asotin		2	2	3	2	2	1			12	90.9
Benton		12	24	23	11	4	2			76	62.0
Rural		11	22	8	3	2				46	65.8
Richland		1	2	15	8	2	2			30	57.0
Chelan		12	21	7	5	5	1			51	47.1
Rural		8	12	6	3	3	1			33	46.8
Wenatchee		4	9	1	2	2				18	47.7
Clallam		11	17	28	7	6				69	100.7
Rural		9	6	15	5	3				38	106.4
Port Angeles		2	11	13	2	3				31	94.5
Clark		10	46	28	21	13	2			120	55.9
Rural		7	32	15	13	9	2			78	55.8
Vancouver		3	14	13	8	4				42	56.1
Columbia			1	3	1					5	43.1
Cowlitz		6	17	13	5	3	1	1		46	30.8
Rural		4	14	5	2	3		1		29	34.9
Longview		2	3	8	3		1			17	25.6
Douglas		2	4	2	2					10	47.2
Ferry		1	2	3	1				1	8	76.9
Franklin		4	14	4	2	1				25	73.5
Garfield		2	2	1	1					6	90.9
Grant			8	2	3	3		1		17	39.4
Grays Harbor		14	29	27	17	4	4			95	69.4
Rural		8	15	11	7	1	2			44	75.5
Aberdeen		1	9	11	9	3				33	64.5
Hoquiam		5	5	5	1		2			18	65.7
Island			1	1	1	2				5	29.8
Jefferson		1	6	4	4	2				17	57.8
King		120	508	558	356	141	39	1	4	1717	102.2
Rural		32	168	183	130	41	12	1		567	89.9
Renton		6	23	20	12	6	1			68	107.4
Seattle		82	317	355	214	94	16		4	1082	109.7
Kitsap		21	44	42	21	15	1			144	71.1
Rural		5	14	16	12	9				56	56.5
Bremerton		16	30	26	9	6	1			88	85.1
Kittitas		5	8	10	4	3	1			31	56.1
Klickitat		3	3	2		1				9	29.8
Lewis	1	8	10	5	4	4				32	33.3
Lincoln		2	14	4	9	2				31	134.8
Mason		6	2	6			1			15	42.3
Okanogan		4	7	7	5	6				29	35.6
Pacific		4	3	5		3				15	40.7
Pend Oreille		1	4	1	1	1				8	52.6
Pierce	1	65	159	129	69	38	5			466	84.9
Rural		20	46	39	20	9	1			135	72.8
Puyallup		3	3	4	1	1				12	60.9
Tacoma	1	42	110	86	48	28	4			319	92.8

TABLE 8 (Continued)

PREMATURE BIRTHS, BY AGE OF MOTHER, IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 1,000 LIVEBIRTHS, ALLOCATED TO RESIDENCE OF MOTHER, 1948

County or City	Under 15	15-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45 & over	Unknown age	Total	Rate
San Juan			1	1	1					3	46.2
Skagit		5	15	14	11	2				47	50.4
Skamania		1	3			1				5	54.9
Snohomish		20	73	52	38	17	5			205	80.8
Rural		12	45	30	21	13	4			125	81.6
Everett		8	28	22	17	4	1			80	79.7
Spokane		77	232	198	116	34	18	1		676	128.7
Rural		22	50	42	28	10	8			160	132.8
Spokane		55	182	156	88	24	10	1		516	127.4
Stevens		3	7	7	4	3				24	55.0
Thurston		6	10	12	9	3	3			46	42.1
Rural		3	8	8	3	1	1			24	34.9
Olympia		3	2	4	9	2	2			22	54.3
Wahkiakum		2		1	1					4	51.9
Walla Walla		2	7	12	7	2				20	23.4
Rural		2	3	6	2					13	38.3
Walla Walla			4	6	5	2				17	32.9
Whatcom		5	18	17	8	4	3			55	34.7
Rural		3	8	7	3	1	1			23	33.2
Bellingham		2	10	10	5	3	2			32	36.0
Whitman		7	19	18	19	8	1			72	99.3
Yakima		21	54	37	21	13				146	39.0
Rural		16	33	22	11	6	42	1		88	38.8
Yakima		5	21	15	10	7				58	39.2
URBAN TOTAL	1	240	783	770	451	191	42	1	4	2483	92.2
RURAL TOTAL	1	225	616	520	341	156	36	3	1	1899	66.6
GRAND TOTAL	2	465	1399	1290	792	347	78	4	5	4382	79.0

TABLE 9

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, 1948

County or City	Number			Percent of Total	
	Present	Not Present	Total	Present	Not Present
Adams	3	145	148	2.0	98.0
Asotin	0	132	132	0.0	100.0
Benton	6	1219	1225	0.5	99.5
Rural	4	695	699	0.6	99.4
Richland	2	524	526	0.4	99.6
Chelan	10	1072	1082	0.9	99.1
Rural	6	699	705	0.9	99.1
Wenatchee	4	373	377	1.1	98.9
Clallam	12	673	685	1.8	98.2
Rural	6	351	357	1.7	98.3
Port Angeles	6	322	328	1.8	98.2
Clark	13	2134	2147	0.6	99.4
Rural	9	1389	1398	0.6	99.4
Vancouver	4	745	749	0.5	99.5
Columbia	3	113	116	2.6	97.4
Cowlitz	22	1472	1494	1.5	98.5
Rural	14	817	831	1.7	98.3
Longview	8	655	663	1.2	98.8
Douglas	3	209	212	1.4	98.6
Ferry	2	102	104	1.9	98.1
Franklin	5	335	340	1.5	98.5
Garfield	1	65	66	1.5	98.5
Grant	6	426	432	1.4	98.6
Grays Harbor	14	1355	1369	1.0	99.0
Rural	4	579	583	0.7	99.3
Aberdeen	6	506	512	1.2	98.8
Hoquiam	4	270	274	1.5	98.5
Island	2	166	168	1.2	98.8
Jefferson	2	292	294	0.7	99.3
King	172	16632	16804	1.0	99.0
Rural	69	6235	6304	1.1	98.9
Renton	5	628	633	0.8	99.2
Seattle	98	9769	9867	1.0	99.0
Kitsap	24	2001	2025	1.7	98.8
Rural	11	980	991	1.1	98.9
Bremerton	13	1021	1034	1.3	98.7
Kittitas	8	545	553	1.4	98.6
Klickitat	0	302	302	0.0	100.0
Lewis	6	954	960	0.6	99.4
Lincoln	4	226	230	1.7	98.3
Mason	4	351	355	1.1	98.9
Okanogan	14	801	815	1.7	98.3
Pacific	6	363	369	1.6	98.4
Pend Oreille	1	151	152	0.7	99.3
Pierce	54	5433	5487	1.0	99.0
Rural	20	1834	1854	1.1	98.9
Puyallup	0	197	197	0.0	100.0
Tacoma	34	3402	3436	1.0	99.0

TABLE 9 (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, 1948

County or City	Number			Percent of Total	
	Present	Not Present	Total	Present	Not Present
San Juan	0	65	65	0.0	100.0
Skagit	12	920	932	1.3	98.7
Skamania	0	91	91	0.0	100.0
Snohomish	21	2515	2536	0.8	99.2
Rural	13	1519	1532	0.8	99.2
Everett	8	996	1004	0.8	99.2
Spokane	58	5196	5254	1.1	98.9
Rural	17	1188	1205	1.4	98.6
Spokane	41	4008	4049	1.0	99.0
Stevens	3	433	436	0.7	99.3
Thurston	9	1084	1093	0.8	99.2
Rural	6	682	688	0.9	99.1
Olympia	3	402	405	0.7	99.3
Wahkiakum	0	77	77	0.0	100.0
Walla Walla	10	845	855	1.2	98.8
Rural	5	334	339	1.5	98.5
Walla Walla	5	511	516	1.0	99.0
Whatcom	10	1573	1583	0.6	99.4
Rural	6	687	693	0.9	99.1
Bellingham	4	886	890	0.4	99.6
Whitman	13	712	725	1.8	98.2
Yakima	29	3718	3747	0.8	99.2
Rural	21	2248	2269	0.9	99.1
Yakima	8	1470	1478	0.5	99.5
URBAN TOTAL	253	26685	26938	0.9	99.1
RURAL TOTAL	309	28213	28522	1.1	98.9
GRAND TOTAL	562	54898	55460	1.0	99.0

TAL 10

NUMBER OF PRENATAL SEROLOGICAL TESTS FOR SYPHILIS, BY PHYSICIAN'S DIAGNOSIS, WHITE RACE AND AGE OF MOTHER ALLOCATED TO COUNTY AND CITY OF MOTHER'S RESIDENCE, STATE OF WASHINGTON, 1948

County or City	Under 15 years		15 to 19		20 to 24		25 to 29		30 to 34		35 to 39		40 to 44		45 and over		Unknown		Totals	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Positive	Negative
Adams				17		51		37		31		10		1					0	147
Asotin				22	1	45		35		11		12		4		1			1	130
Benton			1	177	2	381		332		200		100		26				1	4	1217
Rural				134	2	232		165		99		47		16				1	2	694
Richland			1	43		149		167	1	101		53		10					2	523
Chelan		3		158	1	395		265	1	150		79	1	18					3	1068
Rural		3		109		247		177	1	98		48	1	13					2	695
Wenatchee				49	1	148		88		52		31		5					1	373
Clallam		1		100		211		184		86		50		16		1			0	649
Rural		1		55		104		85		39		31		10		1			0	326
Port Angeles				45		107		99		47		19		6					0	323
Clark		1	2	230		734	1	577	3	356		158		37		1			6	2094
Rural		1	1	156		502		358	2	215		107		28		1			3	1368
Vancouver			1	74		232	1	219	1	141		51		9					3	726
Columbia				23	1	30		29		22	3	6		2					4	112
Cowlitz		1	1	211		556		393	2	205		99		21		1			3	1487
Rural				142		311		202	1	105		58		9		1			1	828
Longview		1	1	69		245		191	1	100		41		12					2	659
Douglas				26		71		62		30		20		3					0	212
Ferry				12		20		29		14		6						1	0	82
Franklin				47		126		85		46		13		3					0	320
Garfield				6		15		21		13		9		2					0	66
Grant		1		46		134		120		85		32		7		1			0	426
Grays Harbor		1	1	200	1	472	2	363	1	190		81	1	24		2			6	1333
Rural		1		94	1	197	1	146		65		40		14		1			2	558
Aberdeen			1	63		184		137	1	86		30		4		1			2	505
Hoquiam				43		91	1	80		39		11	1	6					2	270
Island				19		47		57		28		13		3					0	167
Jefferson				39		89		96		45		17		2		1			0	289

TABLE 10 (Continued)

NUMBER OF PRENATAL SEROLOGICAL TESTS FOR SYPHILIS, BY PHYSICIAN'S DIAGNOSIS, WHITE RACE AND AGE OF MOTHER ALLOCATED TO COUNTY AND CITY OF MOTHER'S RESIDENCE, STATE OF WASHINGTON, 1948

County or City	Under 15 years		15 to 19		20 to 24		25 to 29		30 to 34		35 to 39		40 to 44		45 and over		Unknown		Totals	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Positibe	Negative
King		4	3	1287	5	5157	9	5133		2803	3	1223	1	290		11		3	21	15911
Rural		2	3	493	3	2012	4	2014		1086	2	480		118		7			12	6212
Renton				69		236	1	184		88		31		4					1	612
Seattle		2		725	2	2909	4	2935		1629	1	712	1	168		4		3	8	9087
Kitsap				256	1	685	1	531	2	294	2	144		26		2		1	6	1939
Rural				102		324		260		166	2	86		14					2	952
Bremerton				154	1	361	1	271	2	128		58		12		2		1	4	987
Kittitas				68		182		144		97		45		9		2			0	547
Klickitat				58		115		52		44		16		10				1	0	296
Lewis		1		146	1	357	1	244	2	134		59		13		1			4	955
Lincoln				23		81		57		38		24		5					0	228
Mason				57	1	129		90		45		24		3					1	348
Okanogan			1	112		266		189		116	1	56		13		1		1	2	754
Pacific				52		130		101		53		22		7					0	365
Pend Oreille				17		57		37		22		12		3					0	148
Pierce		2	1	597	1	1860		1557	3	849		385		82		2			5	5334
Rural				220	1	642		513	1	275		143		30		1			2	1824
Puyallup				24		67		54		30		14		4					0	193
Tacoma		2	1	353		1151		990	2	544		228		48		1			3	3317
San Juan				8		18		16		14		8		1					0	65
Skagit			1	127	1	326		238	1	154		56		10		2			3	913
Skamania				14		24		30		13		8		2					0	91
Snohomish			1	330		857		710	1	388	3	166		48		3			5	2502
Rural			1	205		498		423	1	226	3	120		32		2			5	1506
Everett				125		359		287		162		46		16		1			0	996
Spokane		2	3	559	2	1824	2	1535		821		344		89		7		1	7	5182
Rural				149		388		341		205		85		25		1		1	0	1195
Spokane		2	3	410	2	1436	2	1194		616		259		64		6			7	3987
Stevens		1		65		119		123		65		37		10					0	420

TABLE 10 (Continued)

NUMBER OF PRENATAL SEROLOGICAL TESTS FOR SYPHILIS, BY PHYSICIAN'S DIAGNOSIS, WHITE RACE AND AGE OF MOTHER ALLOCATED TO COUNTY AND CITY OF MOTHER'S RESIDENCE, STATE OF WASHINGTON, 1948

County or City	Under 15 years		15 to 19		20 to 24		25 to 29		30 to 34		35 to 39		40 to 44		45 and over		Unknown		Totals	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Positive	Negative
Thurston		2	1	120		359	2	332	1	165		88		17		1			4	1084
Rural		2		78		236	2	210	1	95		49		10		1			3	681
Olympia			1	42		123		122		70		39		7					1	403
Wahkiakum				22		21		18		10		4		2					0	77
Walla Walla		1		87		315	1	271		116		47		14					1	851
Rural				33		130		103		51		15		6					0	338
Walla Walla		1		54		185	1	168		65		32		8					1	513
Whatcom			1	202		525		415	3	246		118		35		1			4	1542
Rural			1	85		213		184	1	102		57		21					2	662
Bellingham				117		312		231	2	144		61		14		1			2	880
Whitman		1		64		255		212	1	130		42		13		1			1	718
Yakima		3	2	564	4	1240	3	890		532	2	267	1	76		3		2	12	3577
Rural		2	2	366	4	725	2	522		292	2	171	1	54		3		2	11	2137
Yakima		1		198		515	1	368		240		96		22					1	1440
URBAN TOTAL	0	9	9	2657	6	8810	12	7785	10	4282	1	1812	2	419	0	16	0	4	40	25794
RURAL TOTAL	0	16	10	3511	16	9469	10	7825	12	4379	13	2088	2	528	0	29	0	7	63	27852
GRAND TOTAL	0	25	19	6168	22	18279	22	15610	22	8661	14	3900	4	947	0	45	0	11	103	53646

TABLE 11

NUMBER OF PRENATAL SEROLOGICAL TESTS FOR SYPHILIS, BY PHYSICIAN'S DIAGNOSIS, NON-WHITE RACE, BY AGE OF MOTHER, ALLOCATED TO COUNTY AND CITY OF MOTHER'S RESIDENCE, STATE OF WASHINGTON, 1948

County or City	Under 15 years		15 to 19		20 to 24		25 to 29		30 to 34		35 to 39		40 to 44		45 and over		Unknown		Totals	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Positive	Negative
Adams						1														1
Asotin										1										1
Benton						2		1		1										4
Rural						1		1		1										3
Richland						1														1
Chelan				2		4		4	1										1	10
Rural				1		3		3	1										1	7
Wenatchee				1		1		1												3
Clallam				9		13		4		6		4								36
Rural				8		11		3		6		3								31
Port Angeles				1		2		1				1								5
Clark	1			3		15		15		9		4							1	46
Rural				3		9		9		3		3								27
Vancouver	1					6		6		6		1							1	19
Columbia																				0
Cowlitz						2		2												4
Rural						2														2
Longview								2												2
Douglas																				0
Ferry				4		9		3		5		1								22
Franklin			1	1		7		4		5		2							1	19
Garfield																				0
Grant				1		2		3												6
Grays Harbor				8		11		7		2		1		1						30
Rural				7		8		5		2				1						23
Aberdeen						2		2				1								5
Hoquiam				1		1														2
Island				1																1
Jefferson				1		3		1												5

TABLE 11 (Continued)

NUMBER OF PRENATAL SEROLOGICAL TESTS FOR SYPHILIS, BY PHYSICIAN'S DIAGNOSIS, NON-WHITE RACE, BY AGE OF MOTHER, ALLOCATED TO COUNTY AND CITY OF MOTHER'S RESIDENCE, STATE OF WASHINGTON, 1948

County or City	Under 15 years		15 to 19		20 to 24		25 to 29		30 to 34		35 to 39		40 to 44		45 and over		Unknown		Totals	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Positive	Negative
King		1	1	99	2	331	6	276	5	108	1	37		3		1		1	15	857
Rural				15	1	23		26		11		4							1	79
Renton						6		5	1	7		1							1	19
Seattle		1	1	84	1	302	6	245	4	90	1	32		3		1		1	13	759
Kitsap		1		14		21	1	24	1	13		2		3					2	78
Rural				10		12		8		4		1		2					0	37
Bremerton		1		4		9	1	16	1	9		1		1					2	41
Kittitas						3	1	2											1	5
Klickitat				2				2		1		1							0	6
Lewis								1											0	1
Lincoln						1				1									0	2
Mason						1		4		1									0	6
Okanogan				16	1	16	2	13	1	6		2		2					4	55
Pacific						1				3									0	4
Pend Oreille						3				1									0	4
Pierce		2		23	1	53	1	30	1	25	1	9		2					4	144
Rural				2	1	14		3		5		2		1					1	27
Puyallup				1		1		1		1									0	4
Tacoma		2		20		38	1	26	1	19	1	7		1					3	113
San Juan																			0	0
Skagit			1	3		5		2		3		2							1	15
Skamania																			0	0
Snohomish				5	1	7	1	6		3		4		2					2	27
Rural				4		4		4		3		4		2					0	21
Everett				1	1	3	1	2											2	6
Spokane				4		26	1	22		9		2		1					1	64
Rural				2		1		3		2		2							0	10
Spokane				2		25	1	19		7				1					1	54
Stevens				1		5		5		1		2		2					0	16

TABLE 11 (continued)

NUMBER OF PRENATAL SEROLOGICAL TESTS FOR SYPHILIS, BY PHYSICIAN'S DIAGNOSIS, NON-WHITE RACE, BY AGE OF MOTHER, ALLOCATED TO COUNTY AND CITY OF MOTHER'S RESIDENCE, STATE OF WASHINGTON, 1948

County or City	Under 15 years		15 to 19		20 to 24		25 to 29		30 to 34		35 to 39		40 to 44		45 and over		Unknown		Totals	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Positive	Negative
Thurston				2	1	1		1											1	4
Rural				2	1	1													1	3
Olympia								1											0	1
Wahkiakum																			0	0
Walla Walla								1		2									0	3
Rural										1									0	1
Walla Walla								1		1									0	2
Whatcom				8	1	11	1	7		7		2							2	35
Rural				6	1	8	1	5		6		2							2	27
Bellingham				2		3		2		1									0	8
Whitman				1		2		2				1							0	6
Yakima				21	2	64	2	37	3	11		16		1				1	7	151
Rural				17		47	1	29	1	8		16		1				1	2	119
Yakima				4	2	17	1	8	2	3									5	32
URBAN TOTAL	1	4	1	121	4	417	11	338	9	144	2	44	0	6	0	1	0	1	28	1076
RURAL TOTAL	0	0	2	108	5	203	5	141	3	80	0	48	0	11	0	0	0	1	15	592
GRAND TOTAL	1	4	3	229	9	620	16	479	12	224	2	92	0	17	0	1	0	2	43	1668

TABLE 12

LIVEBIRTHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, FOR FIVE YEARS, WITH TOTALS AND AVERAGE RATES PER 1,000 ESTIMATED POPULATION, ALLOCATED TO RESIDENCE OF MOTHER 1944 - 1948

County or City	1944	1945	1946	1947	1948	Total	5 year average rate
Adams	143	107	117	117	148	632	21.3
Asotin	146	137	129	206	132	750	16.6
Benton	672	323	752	898	1225	3870	23.3
Rural	672	323	752	898	1225	3870	23.3
Richland*							
Chelan	670	665	940	1197	1082	4554	24.6
Rural	418	470	573	762	705	2928	24.2
Wenatchee	252	195	367	435	377	1626	25.3
Clallam	512	495	561	676	685	2929	26.3
Rural	233	219	259	320	357	1388	23.3
Port Angeles	279	276	302	356	328	1541	29.7
Clark	2298	2180	2143	2340	2147	11108	26.4
Rural	1693	1640	1503	1625	1398	7859	31.7
Vancouver	605	540	640	715	749	3249	18.8
Columbia	80	88	106	128	116	518	19.3
Cowlitz	882	967	1132	1407	1494	5882	24.3
Rural	545	588	701	775	831	3440	21.4
Longview	337	379	431	632	663	2442	30.0
Douglas	149	119	181	209	212	870	22.8
Ferry	66	58	80	94	104	402	19.1
Franklin	264	260	279	334	340	1477	25.9
Garfield	58	51	48	73	66	296	19.5
Grant	229	182	336	482	432	1661	30.6
Grays Harbor	926	917	1127	1426	1369	5765	22.2
Rural	393	367	447	561	583	2351	22.5
Aberdeen	353	330	458	565	512	2218	22.7
Hoquiam	180	220	222	300	274	1196	20.7
Island	151	178	173	202	168	872	25.4
Jefferson	244	222	225	246	294	1231	27.3
King	13902	14370	16631	18247	16804	79954	25.1
Rural	4735	5009	6094	7084	6937	29859	33.9
Renton*							
Seattle	9167	9361	10537	11163	9867	50095	21.8
Kitsap	2765	2998	2814	2466	2025	13068	28.8
Rural	1506	1636	1378	1194	991	6705	32.6
Bremerton	1259	1362	1436	1272	1034	6363	25.7
Kittitas	383	378	442	565	553	2321	21.3
Klickitat	148	181	225	279	302	1135	20.4
Lewis	814	753	976	1048	960	4551	21.8
Lincoln	188	181	227	256	230	1082	19.6
Mason	275	256	303	386	355	1575	23.5
Okanogan	468	494	662	792	815	3231	24.8
Pacific	272	268	304	364	369	1577	19.3
Pend Oreille	108	97	143	177	152	677	13.9
Pierce	4755	4736	5508	5887	5487	26373	25.8
Rural	1735	1702	1992	2136	2051	9616	27.1
Puyallup*							
Tacoma	3020	3034	3516	3751	3436	16757	25.1

TABLE 12 (Continued)

LIVEBIRTHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, FOR FIVE YEARS, WITH TOTALS AND AVERAGE RATES PER 1,000 ESTIMATED POPULATION, ALLOCATED TO RESIDENCE OF MOTHER, 1944 - 1948

County or City	1944	1945	1946	1947	1948	Total	5 year average rate
San Juan	26	38	53	65	65	247	12.4
Skagit	816	733	867	1066	932	4414	21.0
Skamania	55	45	73	92	91	356	16.4
Snohomish	1873	1973	2249	2593	2536	11224	23.9
Rural	1131	1152	1334	1533	1532	6682	22.6
Everett	742	821	915	1060	1004	4542	26.2
Spokane	3748	3859	4668	5180	5254	22709	23.7
Rural	842	849	1028	1165	1205	5089	21.2
Spokane	2906	3010	3640	4015	4049	17620	24.6
Stevens	343	279	361	417	436	1836	20.4
Thurston	885	797	948	1098	1093	4821	24.3
Rural	515	447	531	688	688	2869	24.0
Olympia	370	348	417	410	405	1950	24.7
Wahkiakum	63	60	73	91	77	364	18.6
Walla Walla	681	777	834	889	855	4036	25.0
Rural	230	225	285	290	339	1369	30.3
Walla Walla	451	552	549	599	516	2667	22.9
Whatcom	1224	1171	1421	1683	1583	7082	23.1
Rural	569	516	586	773	693	3137	21.2
Bellingham	655	655	835	910	890	3945	24.7
Whitman	505	438	599	774	725	3041	21.0
Yakima	2459	2465	3231	3780	3747	15682	28.5
Rural	1655	1675	2157	2483	2269	10239	27.1
Yakima	804	790	1074	1297	1478	5443	32.3
URBAN TOTAL	21380	21873	25339	27480	25582	121654	23.6
RURAL TOTAL	22866	22423	26602	30750	29878	132519	25.8
GRAND TOTAL	44246	44296	51941	58230	55460	254173	24.7

* No tabulation made on these cities, included in rural part of county

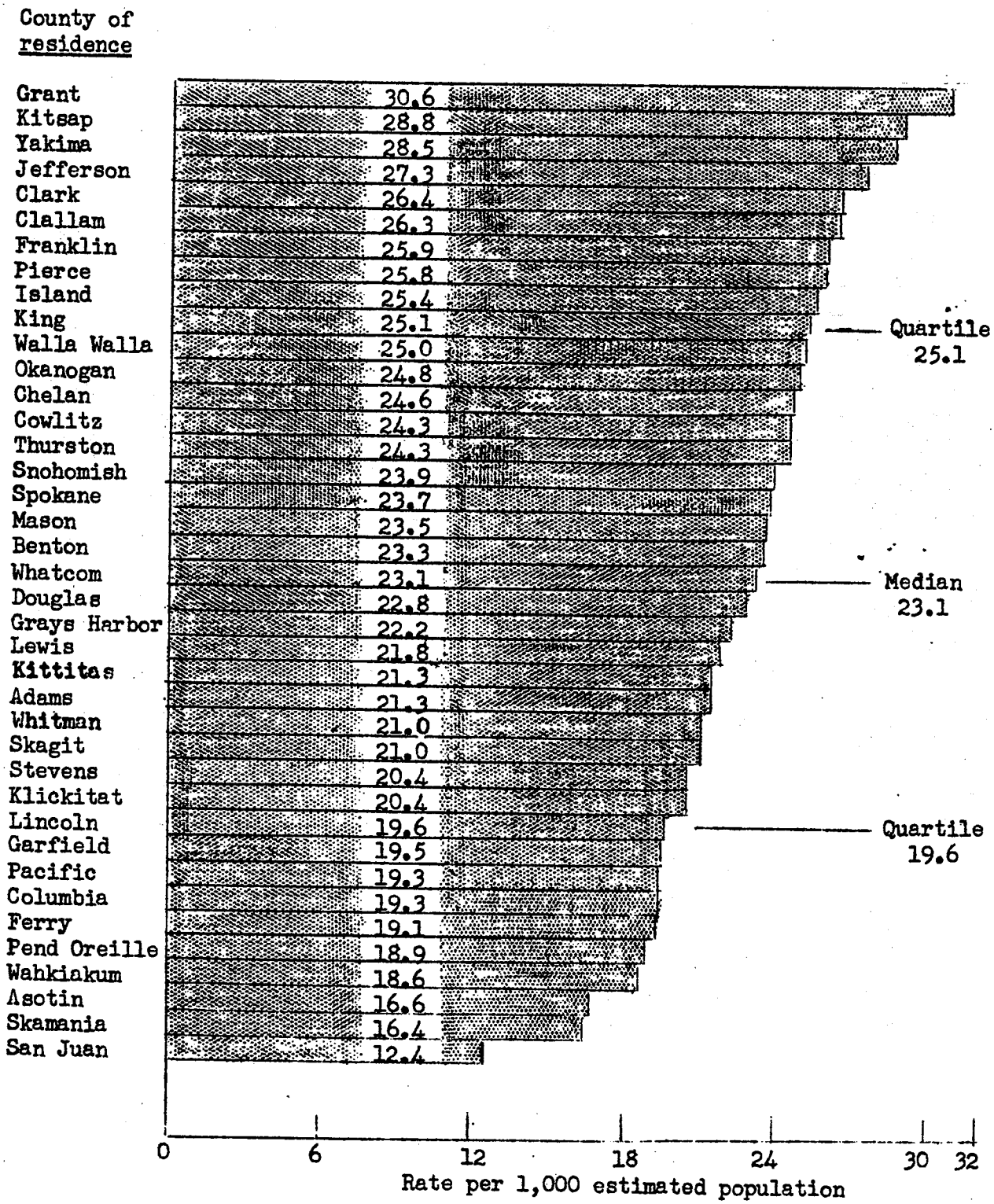
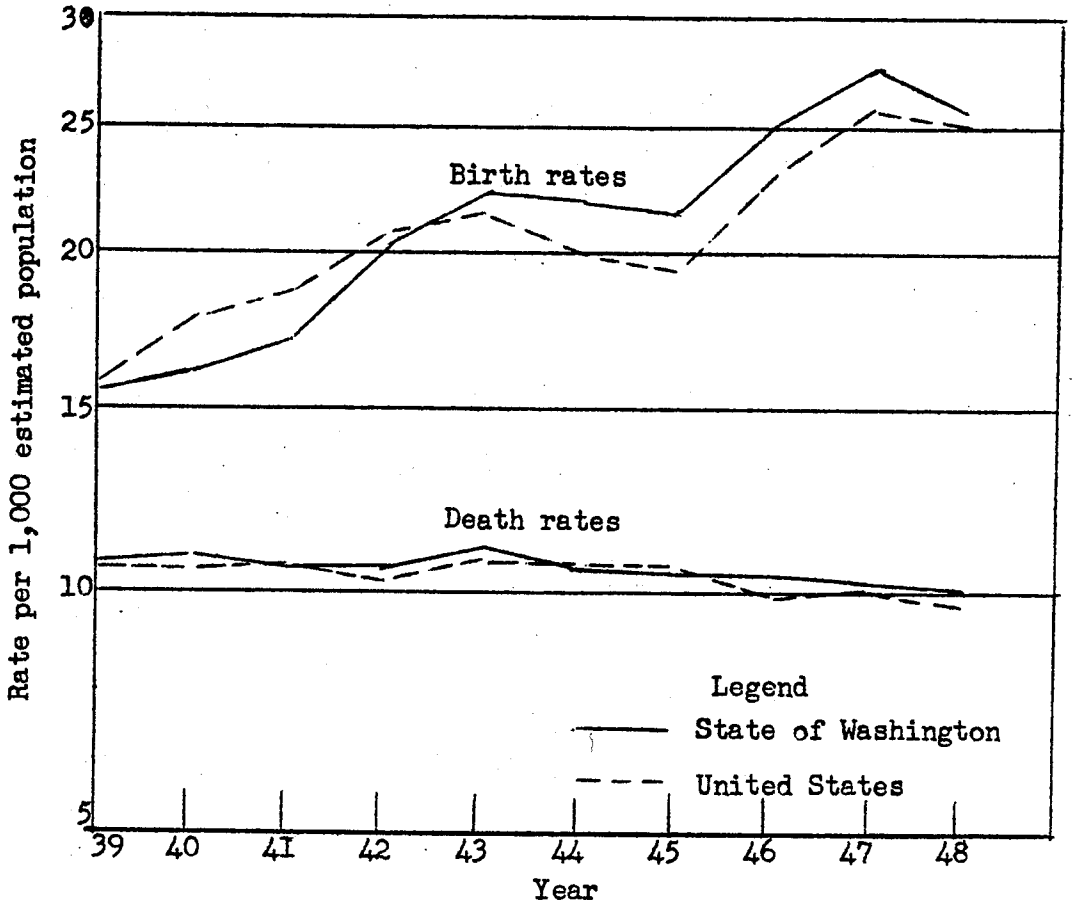


FIGURE 5 - FIVE-YEAR AVERAGE BIRTH RATES BY RANK FROM HIGHEST TO LOWEST IN THE COUNTIES (CITIES INCLUDED) OF THE STATE OF WASHINGTON, 1944 - 1948



Rate per 1,000 estimated population	Area	Year									
		1939	1940	1941	1942	1943	1944	1945	1946	1947	1948
Births	Washington	15.3	16.0	17.0	20.4	22.3	22.2	21.8	25.3	27.9	25.9
	United States	17.3	17.9	18.9	20.9	21.5	20.2	19.6	23.3	26.0	25.3
Deaths	Washington	10.7	11.4	10.6	10.6	11.1	10.6	10.5	10.5	10.4	10.2
	United States	10.6	10.8	10.5	10.4	10.9	10.6	10.6	10.0	10.1	9.9

FIGURE 6 - TRENDS IN GENERAL BIRTH RATE AND GENERAL DEATH RATE PER 1,000 ESTIMATED POPULATION FOR A TEN-YEAR PERIOD IN THE STATE OF WASHINGTON AND THE UNITED STATES, 1939 - 1948

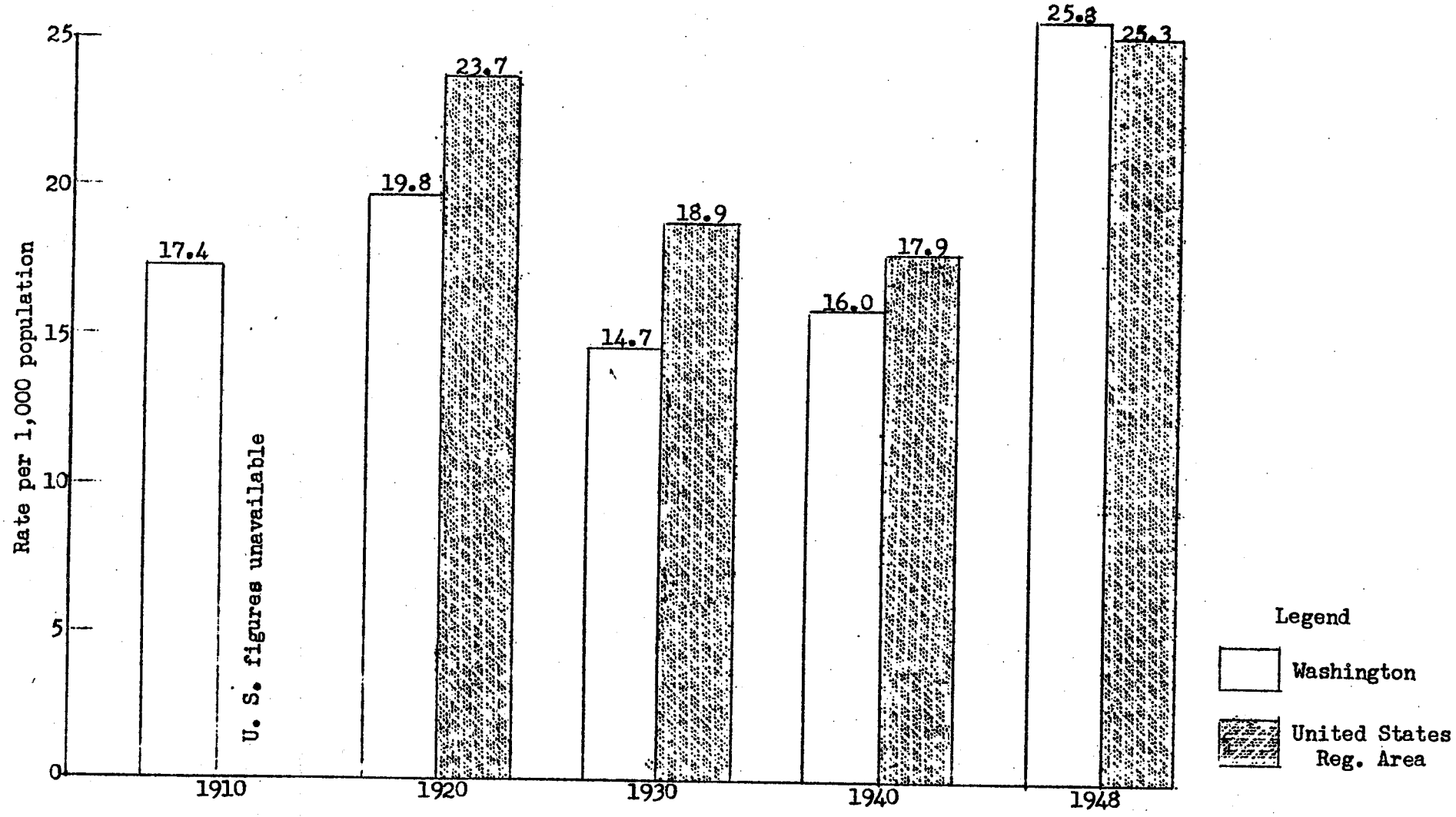


FIGURE 7 - CRUDE BIRTH RATES PER 1,000 POPULATION FOR THE STATE OF WASHINGTON AND THE UNITED STATES REGISTRATION AREA, BY YEAR, 1910, 1920, 1930, 1940, 1948

SECTION III

* * * * *

MORTALITY

1948 general mortality

A total of 22,301 certificates of death were received by the section during the year 1948. This gave the State of Washington an occurrence rate of 10.4 deaths per 1,000 estimated population. Of the total number of death records filed during 1948, 21,925 were listed as residents of Washington. The rate by place of residence was 10.2 per 1,000 estimated population.[15]

Leading causes of death

The leading causes of death arranged in rank order were diseases of the heart, cancer and other malignant tumors, cerebrovascular accidents, nephritis, influenza and pneumonia, prematurity, tuberculosis, motor vehicle accidents, diabetes mellitus, suicides, and arteriosclerosis. A decline in rate from the 1947 figure was noted for all leading causes but influenza and pneumonia.[16]

The leading causes of death do not assume the same rank order when studied by specific age groups. In the age group one through 24 years deaths due to motor vehicle accidents rank as the leading cause, while heart diseases claim the most lives from 25 years of age and over.

Analysis of the leading causes of death reveals that in only one cause, diabetes mellitus, do female deaths exceed those of males. More than two times as many males as females die of tuberculosis and suicide while more than three times as many males as females die from motor vehicle accidents. Of the total deaths 61.0 per cent were males and 39.0 per cent were females.[17]

Deaths by attendant

Of the total number of resident deaths 20,261, or 92.4 per cent, were attended by medical physicians; 1,453, or 6.6 per cent, were coroner cases; and 181, or 0.8 per cent, were attended by osteopathic physicians. This was a slight increase over the 92.3 per cent attended by medical physicians in 1947.[18]

Deaths by type of institution

Of the 21,925 resident deaths during 1948 10,491, or 47.8 per cent, occurred in institutions classified as hospitals; 7,754, or 35.4 per cent, occurred in private homes; 1,218, or 5.6 per cent, occurred in nursing homes; 916, or 4.2 per cent, occurred in mental institutions; and the remainder died in other types of special institutions or places. Nearly 60 per cent of all deaths occurred in institutions giving professional care.[19]

15. Table 13, page 41
16. Table 15, page 44
17. Table 14, page 43
18. Table 16, page 47
19. Table 17, page 49

Operation and autopsy

A total of 934 persons died on whom an operation had been performed within six months of death. In addition to this number 323 deaths were recorded on which an operation and an autopsy had been performed. There were 3,054 deaths where an autopsy alone was performed. Thus a total of 4,311 decedents had either or both an operation or autopsy. This total represents only 19.7 per cent of the total number of deaths in which effort was made to determine the cause of death other than by regular diagnostic procedures.[20]

Disposition of bodies

Of the 21,925 deaths during 1948 14,853 bodies were interred in the grounds of places designated as cemeteries, 3,920 bodies were cremated, and 3,147 bodies were removed from Washington for disposition elsewhere. The five bodies for which no place or method of disposition was indicated were presumptive deaths in that the persons disappeared in lakes or rivers and the bodies were not recovered.[21]

Accidental deaths

Accidents accounted for 1,749 deaths in the State of Washington during 1948. Of this number 13.4 per cent occurred at the place of occupation of the deceased, 37.0 per cent occurred in the home, 44.7 per cent occurred in public places, 1.1 per cent occurred on farms, and 3.8 per cent occurred in unspecified places. Motor vehicle accidents accounted for the largest number of accidental deaths, injury by fall was second, followed by drownings and absorption of poisonous gas.[22]

INFANT MORTALITY

1948 infant mortality

In 1948, 1,546 deaths of infants under one year of age occurred in the State of Washington. Allocation by mother's residence reduced the final count to 1,525 infant deaths and a rate of 27.5 deaths per 1,000 livebirths.[23]

Premature birth was the leading cause of death among these infants and accounted for 38.4 per cent of the total number. Congenital malformations were listed as causing 14.8 per cent, injury at birth caused 12.1 per cent, congenital debility and other diseases peculiar to the first year of life caused 11.3 per cent, influenza and pneumonia caused 8.5 per cent, and accidental death caused 5.1 per cent of the infant deaths.[24]

Percentage increases were noted in the number of infants dying in 1948 from premature birth, influenza and pneumonia, and accidental deaths over comparable figures for the year 1947. Deaths from congenital malformations, injury at birth, and other diseases peculiar to the first year of life showed percentage decreases during this period.[25]

20. Table 18, page 51
21. Table 19, page 53
22. Table 42, page 100
23. Table 22, page 62
24. Table 23, page 64; Figure 11, page 66
25. Table 25, page 67; Figure 12, page 68

Area Distribution

While 51.4 per cent of the livebirths were to mothers listed as residing in rural areas of the State and 48.6 per cent were to mothers residing in urban areas, 54.4 per cent of the infant deaths were allocated to rural areas and 45.6 per cent were in urban areas. Of the total number of resident infant deaths 40.8 per cent were within the first day of life and 28.0 per cent died between the first day and the end of the first week of life. Of those dying within the first day of life 51.3 per cent were infants born to mothers of rural residence and 48.7 per cent were infants born to mothers of urban residence. These same percentages held true for the infants dying between the first day and end of the first week of life.[26]

Five-year trends

During the period of 1944 through 1948 the infant mortality trend was that the largest percentage of infant deaths continued to be classified in the five leading causes of death. The influenza and pneumonia group was the one exception in that it experienced a downward trend throughout the period with an increase noted for 1948 only. This increase, however, did not reach the high percentage figure which was established in 1944.[27]

MATERNAL MORTALITY

1948 maternal mortality

A record low of 39 maternal deaths were reported in the State of Washington during 1948. Of this number 36 deaths were women whose residence was in this State. The rates per 1,000 livebirths were 0.7 and 0.6 respectively.[28]

The five leading causes of maternal deaths were hemorrhage of childbirth and the puerperium, 9; infection during childbirth and the puerperium, 6; puerperal toxemias (excluding death before delivery), 6; toxemias of pregnancy (death before delivery), 4; and other diseases and accidents of pregnancy (death before delivery), 4. These five causes accounted for 29 of the 36 deaths of mothers with Washington residence.[29]

Of the women dying in childbirth 14 were in the age group 20 through 24 years; ten were in the age group 25 through 29 years, five were in the age group 30 through 34 years; four were in the age group 35 through 39 years; and three were in the age group 40 through 44 years of age.[30]

STILLBIRTHS

1948 stillbirths

A total of 790 stillbirths were reported as occurring in the State of Washington during 1948. Allocation to residence of the mother in Washington reduced this figure to 776. The occurrence rate was 13.8 as compared with a resident rate of

26. Figures 13 and 14, pages 71 and 72
27. Table 25, page 67
28. Table 28, page 76
29. Table 29, page 78
30. Table 31, page 81

14.0 per 1,000 livebirths. Garfield and San Juan Counties were the only counties having no resident stillbirths reported. Skamania County had the highest stillbirth rate -- 33.0 per 1,000 livebirths.[31]

Of the stillbirths reported 27.8 per cent were to women in the age group 25 through 29 years, 24.7 per cent were in the age group 20 through 24 years, and 21.1 per cent were in the age group 30 through 34 years. Diseases in or accidents to the mother accounted for 34.3 per cent of the stillbirths, and deaths of the fetus by injury or other causes accounted for 21.9 per cent. In 14.6 per cent of the stillbirths the cause was not stated or the condition causing the stillbirth was not known.[32]

Five-year trends

In computing the five-year average stillbirth rate for each county a median rate of 14.6 per 1,000 livebirths was established in the State of Washington. Ferry County had the highest five-year average rate of 24.9 per 1,000 livebirths whereas Garfield County had the lowest rate of 3.4 per 1,000 livebirths. For every 1,000 livebirths occurring in the State during the five-year period 1944 through 1948 there were approximately 15 stillbirths.[33]

31. Table 35, page 87
32. Table 36, page 89; Table 37, page 91
33. Table 40, page 94; Figure 17, page 96

TABLE 13

DEATHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 1,000 ESTIMATED POPULATION, ALLOCATED TO RESIDENCE OF DECEDENT AND BY PLACE OF OCCURRENCE, 1948

County or City	Residence		Occurrence	
	Number	Rate	Number	Rate
Adams	57	9.3	48	7.9
Asotin	86	8.4	93	9.1
Benton	219	4.7	180	3.9
Rural	166	6.5	118	4.6
Richland	53	2.5	62	2.9
Chelan	354	9.1	365	9.4
Rural	213	8.3	169	6.6
Wenatchee	141	10.8	196	15.1
Clallam	256	11.2	253	11.0
Rural	138	11.4	85	7.0
Port Angeles	118	10.9	168	15.6
Clark	671	8.9	716	9.5
Rural	410	9.2	228	5.1
Vancouver	261	8.6	488	16.1
Columbia	60	10.5	63	11.1
Cowlitz	412	7.7	392	7.3
Rural	280	8.2	141	4.1
Longview	132	6.8	251	12.9
Douglas	59	6.9	38	4.4
Ferry	51	12.1	36	8.6
Franklin	93	7.4	118	9.4
Garfield	35	12.1	30	10.3
Grant	119	9.5	101	8.1
Grays Harbor	679	12.6	652	12.1
Rural	263	12.3	175	8.2
Aberdeen	292	14.2	400	19.5
Hoquiam	124	10.3	77	6.4
Island	92	12.4	78	10.5
Jefferson	90	10.0	83	9.2
King	7118	10.6	6997	10.4
Rural	1881	10.5	1219	6.8
Renton	117	7.2	192	11.8
Seattle	5120	10.8	5586	11.7
Kitsap	610	7.9	560	7.2
Rural	403	8.9	189	4.2
Bremerton	207	6.4	371	11.4
Kittitas	193	8.2	204	8.6
Klickitat	111	10.0	88	7.9
Lewis	513	11.8	509	11.7
Lincoln	99	8.8	61	5.4
Mason	130	10.0	114	8.8
Okanogan	238	8.5	226	8.1
Pacific	204	13.0	184	11.7
Pend Oreielle	65	8.7	60	8.0
Pierce	2370	11.3	2831	13.6
Rural	674	11.0	877	14.4
Puyallup	128	12.8	107	10.7
Tacoma	1568	11.4	1847	13.4

TABLE 13 (Continued)

DEATHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 1,000 ESTIMATED POPULATION, ALLOCATED TO RESIDENCE OF DECEDENT AND BY PLACE OF OCCURRENCE, 1948

County or City	Residence		Occurrence	
	Number	Rate	Number	Rate
San Juan	38	7.2	19	3.6
Skagit	387	8.6	582	13.0
Skamania	46	10.2	46	10.2
Snohomish	1207	12.5	1089	11.3
Rural	718	11.7	530	8.7
Everett	489	13.7	559	15.7
Spokane	2191	10.6	2520	12.2
Rural	439	7.8	549	9.7
Spokane	1752	11.6	1971	13.1
Stevens	224	11.9	209	11.1
Thurston	397	10.0	348	8.8
Rural	219	9.3	109	4.6
Olympia	178	10.9	239	14.7
Wahkiakum	34	8.5	24	6.0
Walla Walla	358	11.0	434	13.3
Rural	109	12.2	65	7.3
Walla Walla	249	10.6	369	15.6
Whatcom	730	11.6	705	11.2
Rural	310	10.4	262	8.8
Bellingham	420	12.7	443	13.4
Whitman	276	9.3	234	7.9
Yakima	1053	8.8	1011	8.4
Rural	572	7.0	522	6.4
Yakima	481	12.4	489	12.6
URBAN TOTAL	11830	10.8	13815	12.6
RURAL TOTAL	10095	9.6	8486	8.1
GRAND TOTAL	21925	10.2	22301	10.4

TABLE 14

DEATHS FROM LEADING CAUSES AND ALL CAUSES IN THE STATE OF WASHINGTON, BY SEX AND BY AGE GROUPS, ALLOCATED TO RESIDENCE OF DECEDENT, 1948

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 years and over	Unk. age
Diseases of the Heart	M	4650	4	2	7	15	42	157	502	1023	1378	1518	2
	F	2579	5	2	10	3	21	74	161	338	754	1210	1
	T	7229	9	4	17	18	63	231	663	1361	2132	2728	3
Cancer and other malignant tumors	M	1635	1	7	7	8	19	51	163	414	510	454	1
	F	1399	1	5	4	8	27	85	219	337	395	316	2
	T	3034	2	12	11	16	46	136	382	751	905	770	3
Cerebrovascular accidents	M	1147	2	1	1	3	2	23	55	184	370	506	0
	F	979	0	1	2	2	6	15	63	144	286	460	0
	T	2126	2	2	3	5	8	38	118	328	656	966	0
Nephritis (all forms)	M	546	3	4	1	5	13	22	46	107	143	202	0
	F	405	1	1	0	6	9	25	36	49	96	182	0
	T	951	4	5	1	11	22	47	82	156	239	384	0
Influenza & pneumonia (all forms)	M	518	67	18	6	4	8	13	37	69	84	212	0
	F	341	63	8	7	7	6	9	12	26	52	151	0
	T	859	130	26	13	11	14	22	49	95	136	363	0
Prematurity	M	334	334	0	0	0	0	0	0	0	0	0	0
	F	252	252	0	0	0	0	0	0	0	0	0	0
	T	586	586	0	0	0	0	0	0	0	0	0	0
Tuberculosis (all forms)	M	398	1	11	5	15	39	55	77	81	77	37	0
	F	154	0	4	6	19	31	31	21	13	20	9	0
	T	552	1	15	11	34	70	86	98	94	97	46	0
Motor Vehicle Accidents	M	393	0	18	24	87	57	45	41	37	43	39	2
	F	121	2	14	12	16	9	13	12	16	13	13	1
	T	514	2	32	36	103	66	58	53	53	56	52	3
Diabetes Mellitus	M	208	0	1	3	1	4	9	15	43	71	61	0
	F	282	0	0	2	1	10	2	12	77	99	79	0
	T	490	0	1	5	2	14	11	27	120	170	140	0
Suicides (all forms)	M	232	0	0	2	6	23	45	42	49	40	23	2
	F	83	0	0	0	6	15	17	25	14	5	1	0
	T	315	0	0	2	12	38	62	67	63	45	24	2
Arteriosclerosis	M	171	0	0	0	0	0	0	1	8	35	127	0
	F	144	0	0	0	0	0	0	1	5	32	106	0
	T	315	0	0	0	0	0	0	2	13	67	233	0
All other causes	M	3141	470	101	100	110	175	236	340	495	531	578	5
	F	1813	319	79	43	49	95	115	141	189	277	503	3
	T	4954	789	180	143	159	270	351	481	684	808	1081	8
All Causes	M	13373	882	163	156	254	382	656	1319	2510	3282	3757	12
	F	8552	643	114	86	117	229	386	703	1208	2029	3030	7
	T	21925	1525	277	242	371	611	1042	2022	3718	5311	6787	19

TABLE 5

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 DECEDENT, 1948

County or City	Diseases of the heart		Cancer & other mal. tumors		Cerebro-vascular accidents		Nephritis (all forms)		Influenza and pneumonia (all forms)		Pre-maturity		Tuberculosis (all forms)		Motor vehicle accidents		Diabetes mellitus		Suicide (all forms)		Arterio-sclerosis	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Adams	14	229.5	2	32.8	6	98.4	6	98.4	3	49.2	1	16.4	0	0.0	1	16.4	4	65.6	2	32.8	1	16.4
Asotin	37	361.0	10	97.6	7	65.3	3	29.3	4	39.0	0	0.0	1	9.8	1	9.8	1	9.8	0	0.0	1	9.8
Benton	74	158.8	22	47.2	16	34.3	2	4.3	10	21.5	14	30.0	0	0.0	9	19.3	4	8.6	2	4.3	3	6.4
Rural	59	232.3	16	63.0	15	59.1	2	7.9	10	39.4	8	31.5	0	0.0	5	19.7	1	3.9	2	7.9	3	11.8
Richland	15	70.8	6	28.3	1	4.7	0	0.0	0	0.0	6	28.3	0	0.0	4	18.9	3	14.2	0	0.0	0	0.0
Chelan	107	275.8	47	121.1	26	67.0	8	20.6	11	28.4	15	38.7	8	20.6	19	49.0	13	33.5	2	5.2	7	18.0
Rural	62	240.3	25	96.9	13	50.4	7	27.1	9	34.9	7	21.1	4	15.5	16	62.0	7	27.1	1	3.9	6	23.3
Wenatchee	45	346.2	22	169.2	13	100.0	1	7.7	2	15.4	8	61.5	4	30.8	3	23.1	6	46.2	1	7.7	1	7.7
Clallam	93	406.1	24	104.8	27	117.9	17	74.2	8	34.9	6	26.2	4	17.5	9	39.3	4	17.5	7	30.6	2	8.7
Rural	44	363.6	10	82.6	15	124.0	7	57.9	6	49.6	1	8.3	3	24.8	6	49.6	2	16.5	3	24.8	2	16.5
Port Angeles	49	453.7	14	129.6	12	111.1	10	92.6	2	18.5	5	46.3	1	9.2	3	27.8	2	18.5	4	37.0	0	0.0
Clark	207	275.6	89	118.5	59	78.6	34	45.3	30	39.9	22	29.3	19	25.3	19	25.3	19	25.3	12	16.0	5	6.7
Rural	130	290.8	51	114.1	33	73.8	24	53.7	19	42.5	13	29.1	10	22.4	11	24.6	9	20.1	8	17.9	3	6.7
Vancouver	77	253.3	38	125.0	26	85.5	10	32.9	11	36.2	9	29.6	9	29.6	8	26.3	10	32.9	4	13.2	2	6.6
Columbia	22	385.9	8	140.3	5	87.7	2	35.1	4	70.2	1	17.5	0	0.0	0	0.0	2	35.1	3	52.6	0	0.0
Cowlitz	126	235.7	40	74.8	41	76.7	25	46.8	8	15.0	8	15.0	9	16.8	19	35.5	17	31.8	2	3.7	1	1.9
Rural	94	276.1	21	61.7	31	91.0	18	52.9	4	11.7	8	23.5	5	14.7	13	38.2	10	29.4	1	2.9	1	2.9
Longview	32	164.9	19	97.9	10	51.5	7	36.1	4	20.6	0	0.0	4	20.6	7	36.1	7	36.1	1	5.2	0	0.0
Douglas	17	197.7	4	46.5	5	58.1	3	34.9	3	34.9	3	34.9	0	0.0	4	46.5	3	34.9	1	11.6	1	11.6
Ferry	19	452.4	5	119.0	3	71.4	2	47.6	1	23.8	1	23.8	5	119.0	2	47.6	1	23.8	1	23.8	0	0.0
Franklin	30	238.1	10	79.4	5	39.7	3	23.8	4	31.7	8	63.5	3	23.8	5	39.7	1	7.9	1	7.9	1	7.9
Garfield	9	310.3	3	103.4	3	103.4	2	69.0	2	69.0	2	69.0	0	0.0	1	34.5	3	103.4	0	0.0	1	34.5
Grant	33	264.0	15	120.0	11	88.0	1	8.0	2	16.0	4	32.0	2	16.0	11	88.0	0	0.0	1	8.0	2	16.0
Grays Harbor	196	364.0	77	143.0	61	113.3	21	39.0	28	52.0	17	31.6	23	42.7	20	37.1	15	27.9	8	14.9	6	11.1
Rural	78	366.2	35	164.3	20	93.9	6	28.2	14	65.7	8	37.6	8	37.6	10	46.9	3	14.1	0	0.0	1	4.7
Aberdeen	85	414.6	26	126.8	29	141.5	14	68.3	10	48.8	6	29.3	12	58.5	10	48.8	6	29.3	5	24.4	4	19.5
Hoquiam	33	273.9	16	132.8	12	99.6	1	8.3	4	33.2	3	24.9	3	24.9	0	0.0	6	49.8	3	24.9	1	8.3
Island	43	581.1	17	229.7	7	94.6	1	13.5	1	13.5	1	13.5	2	27.0	0	0.0	1	13.5	0	0.0	1	13.5
Jefferson	38	422.2	9	100.0	6	66.7	3	33.3	7	77.8	6	66.7	2	22.2	1	11.1	0	0.0	1	11.1	1	11.1
King	2382	354.6	1072	159.6	662	98.6	256	38.1	321	47.8	178	26.5	236	35.1	133	19.8	121	18.0	118	17.6	102	15.2
Rural	613	341.0	254	141.5	214	119.2	54	30.1	81	45.1	62	34.5	44	24.5	59	32.9	37	20.6	22	12.3	25	13.9
Renton	31	191.4	14	86.4	7	43.2	7	43.2	8	49.4	9	55.6	2	12.3	1	6.2	3	18.5	1	6.2	0	0.0
Seattle	1738	365.1	804	168.9	441	92.6	195	41.0	232	48.7	107	22.5	190	39.9	73	15.3	81	17.0	95	20.1	77	16.2

TABLE 15 (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 DECEDENT, 1948

County or City	Diseases of the heart		Cancer & other mal. tumors		Cerebro-vascular accidents		Nephritis (all forms)		Influenza and pneumonia (all forms)		Pre-maturity		Tuberculosis (all forms)		Motor vehicle accidents		Diabetes mellitus		Suicide (all forms)		Arterio-sclerosis	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Kitsap	170	218.9	88	113.3	75	96.6	37	47.6	20	25.8	18	23.2	9	11.6	14	18.0	13	16.7	14	18.0	10	12.9
Rural	105	232.6	61	135.1	52	115.2	26	57.6	15	33.2	5	11.1	5	11.1	6	13.3	9	19.9	9	19.9	7	15.5
Bremerton	65	200.0	27	83.1	23	70.8	11	33.8	5	15.4	13	40.0	4	12.3	8	24.6	4	12.3	5	15.4	3	9.2
Kittitas	57	241.5	29	122.9	21	89.0	8	33.9	5	21.2	5	21.2	1	4.2	7	29.7	5	21.2	5	21.2	4	16.9
Klickitat	30	270.3	14	126.1	16	144.1	3	27.0	4	36.0	3	27.0	0	0.0	1	9.0	2	18.0	0	0.0	1	9.0
Lewis	183	421.7	69	159.0	59	135.9	14	32.3	15	34.6	9	20.7	10	23.0	13	30.0	14	32.3	7	16.1	5	11.5
Lincoln	38	336.3	15	132.7	9	79.6	4	35.4	4	35.4	4	35.4	0	0.0	1	8.8	2	17.7	1	8.8	2	17.7
Mason	44	338.5	17	130.8	19	146.2	5	38.5	1	7.7	1	7.7	0	0.0	2	15.4	4	30.8	0	0.0	3	23.1
Okanogan	60	215.1	32	114.7	20	71.7	5	17.9	12	43.0	9	32.3	12	43.0	7	25.1	6	21.5	3	10.8	1	3.6
Pacific	63	401.3	30	191.1	23	146.5	16	101.9	10	63.7	3	19.1	4	25.5	2	12.7	3	19.1	1	6.4	2	12.7
Pend Oreille	19	253.3	9	120.0	12	160.0	1	13.3	1	13.3	2	26.7	3	40.0	1	13.3	2	26.7	2	26.7	3	40.0
Pierce	825	394.9	328	157.0	183	87.6	87	41.6	76	36.4	59	28.2	57	27.3	41	19.6	60	28.7	39	18.7	35	16.8
Rural	237	388.5	88	144.3	72	118.0	21	34.4	22	36.1	16	26.2	15	24.6	14	23.0	16	26.2	9	14.8	9	14.8
Puyallup	52	520.0	19	190.0	10	100.0	7	70.0	4	40.0	1	10.0	3	30.0	2	20.0	4	40.0	2	20.0	1	10.0
Tacoma	536	388.7	221	160.3	101	73.2	59	42.8	50	36.3	42	30.5	39	28.3	25	18.1	40	29.0	28	20.3	25	18.1
San Juan	14	264.1	5	94.3	3	56.6	2	37.7	1	18.9	0	0.0	1	18.9	0	0.0	2	37.7	0	0.0	1	18.9
Skagit	119	265.6	33	73.7	52	116.1	17	37.9	17	37.9	18	40.2	10	22.3	10	22.3	16	35.7	3	6.7	6	13.4
Skamania	18	400.0	6	133.3	0	0.0	3	66.7	3	66.7	0	0.0	1	22.2	3	66.7	0	0.0	3	66.7	0	0.0
Snohomish	346	357.6	166	171.6	181	187.1	65	67.2	44	45.5	42	43.4	20	20.7	30	31.0	27	27.9	18	18.6	17	17.6
Rural	203	322.0	99	161.9	97	158.6	37	60.5	32	52.3	22	36.0	13	21.3	21	34.3	14	22.9	7	11.4	10	16.4
Everett	143	401.7	67	188.2	84	235.9	28	78.6	12	33.7	20	56.2	7	19.7	9	25.3	13	36.5	11	30.9	7	19.7
Spokane	788	380.1	343	165.5	188	90.7	142	68.5	92	44.4	50	24.1	45	21.7	45	21.7	50	24.1	24	11.6	37	17.8
Rural	144	254.9	55	97.3	30	53.1	30	53.1	23	40.7	9	15.9	15	26.5	18	31.9	13	23.0	7	12.4	5	8.8
Spokane	644	427.0	288	191.0	158	104.8	112	74.3	69	45.8	41	27.2	30	19.9	27	17.9	37	24.5	17	11.3	32	21.2
Stevens	65	343.9	31	164.0	31	164.0	19	100.5	4	21.2	7	37.0	2	10.6	6	31.7	8	42.3	6	31.7	3	15.9
Thurston	125	314.5	60	150.9	37	93.1	25	62.9	11	27.7	8	20.1	8	20.1	8	20.1	11	27.7	6	15.1	4	10.1
Rural	61	260.1	31	132.2	19	81.0	16	68.2	4	17.1	3	12.8	5	21.3	6	25.6	5	21.3	3	12.8	3	12.8
Olympia	64	392.6	29	177.9	18	110.4	9	55.2	7	42.9	5	30.7	3	18.4	2	12.3	6	36.8	3	18.4	1	6.1
Wahkiakum	5	125.0	2	50.0	4	100.0	3	75.0	4	100.0	0	0.0	1	25.0	1	25.0	2	50.0	1	25.0	1	25.0
Walla Walla	118	362.5	41	126.0	36	110.6	22	67.6	10	30.7	9	27.6	7	21.5	11	33.8	10	30.7	3	9.2	6	18.4
Rural	32	357.5	10	111.7	14	156.4	6	67.0	3	33.5	3	33.5	0	0.0	2	22.3	4	44.7	1	11.2	2	22.3
Walla Walla	86	364.4	31	131.4	22	93.2	16	67.8	7	29.7	6	25.4	7	29.7	9	38.1	6	25.4	2	8.5	4	16.9

TABLE 15 (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 DECEDENT, 1948

County or City	Diseases of the heart		Cancer & other mal. tumors		Cerebro-vascular accidents		Nephritis (all forms)		Influenza and pneumonia (all forms)		Pre-maturity		Tuberculosis (all forms)		Motor vehicle accidents		Diabetes mellitus		Suicide (all forms)		Arterio-sclerosis	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Whatcom	242	384.7	99	157.4	92	146.3	19	30.2	15	23.8	9	14.3	16	25.4	8	12.7	20	31.8	7	11.1	26	41.3
Rural	99	332.2	38	127.5	41	137.6	13	43.6	11	36.9	6	20.1	11	36.9	2	6.7	8	26.8	4	13.4	5	16.8
Bellingham	143	432.0	61	184.3	51	154.1	6	18.1	4	12.1	3	9.1	5	15.1	6	18.1	12	36.3	3	9.1	21	63.4
Whitman	95	320.9	24	81.1	27	91.2	11	37.2	7	23.6	3	10.1	5	16.9	4	13.5	7	23.6	4	13.5	3	10.1
Yakima	358	298.5	139	115.9	88	73.4	54	45.0	56	46.7	40	33.3	26	21.7	44	36.7	17	14.2	7	5.8	10	8.3
Rural	172	211.8	77	94.8	42	51.7	28	34.5	35	43.1	22	27.1	17	20.9	27	33.3	11	13.5	5	6.2	6	7.4
Yakima	186	480.0	62	160.0	46	118.7	26	67.1	21	54.2	18	46.5	9	23.2	17	43.9	6	15.5	2	5.2	4	10.3
URBAN TOTAL	4024	366.4	1764	160.6	1064	96.9	519	47.3	452	41.2	302	27.5	332	30.2	214	19.5	252	22.9	187	17.0	183	16.7
RURAL TOTAL	3205	305.3	1270	121.0	1062	101.2	432	41.1	407	38.8	284	27.1	220	21.0	300	28.6	238	22.7	128	12.2	132	12.6
GRAND TOTAL	7229	336.5	3034	141.2	2126	99.0	951	44.3	859	40.1	586	27.3	552	25.7	514	23.9	490	22.8	315	14.7	315	14.7

TABLE 16

DEATHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY PERSON IN ATTENDANCE, ALLOCATED TO RESIDENCE OF DECEDENT, 1948

County or City	Physi-cian	Coroner	Osteo-path	Chiro-practor	Sani-practor	Other	Totals
Adams	57						57
Asotin	81	4			1		86
Benton	201	17	1				219
Rural	159	7					166
Richland	42	10	1				53
Chelan	332	22					354
Rural	194	19					213
Wenatchee	138	3					141
Clallam	246	7	3				256
Rural	131	4	3				138
Port Angeles	115	3					118
Clark	587	81	2			1	671
Rural	358	50	2				410
Vancouver	229	31				1	261
Columbia	59	1					60
Cowlitz	370	34	7			1	412
Rural	250	22	7			1	280
Longview	120	12					132
ougla s	53	6					59
Ferry	49	1				1	51
Franklin	87	4	1	1			93
Garfield	35						35
Grant	103	15	1				119
Grays Harbor	561	116	2				679
Rural	220	42	1				263
Aberdeen	235	56	1				292
Hoquiam	106	18					124
Island	90	1				1	92
Jefferson	90						90
King	6817	211	83		4	3	7118
Rural	1797	53	30			1	1881
Renton	109	7	1				117
Seattle	4911	151	52		4	2	5120
Kitsap	541	69					610
Rural	351	52					403
Bremerton	190	17					207
Kittitas	173	16	4				193
Klickitat	94	16	1				111
Lewis	485	26				2	513
Lincoln	91	5	3				99
Mason	126	2				2	130
Okanogan	187	42	9				238
Pacific	187	17					204
end Oreille	62	3					65
Pierce	2181	180	6		2	1	2370
Rural	607	63	2		1	1	674
Puyallup	110	15	3				128
Tacoma	1464	102	1		1		1568

TABLE 16 (Continued)

DEATHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY PERSON IN ATTENDANCE, ALLOCATED TO RESIDENCE OF DECEDENT, 1948

County or City	Physician	Coroner	Osteopath	Chiropractor	Sanipractor	Other	Totals
San Juan	33	5					38
Skagit	349	35	1			2	387
Skamania	40	6					46
Snohomish	1125	71	11				1207
Rural	667	43	8				718
Everett	458	28	3				489
Spokane	1936	250	4			1	2191
Rural	378	60				1	439
Spokane	1558	190	4				1752
Stevens	220	2	1			1	224
Thurston	371	24	2				397
Rural	198	20	1				219
Olympia	173	4	1				178
Wahkiakum	32	1				1	34
Walla Walla	331	27					358
Rural	99	10					109
Walla Walla	232	17					249
Whatcom	677	50	3				730
Rural	285	24	1				310
Bellingham	392	26	2				420
Whitman	269	4	2			1	276
Yakima	933	82	34			4	1053
Rural	510	43	18			1	572
Yakima	423	39	16			3	481
URBAN TOTAL	11005	729	85	0	5	6	11830
RURAL TOTAL	9256	724	96	1	2	16	10095
GRAND TOTAL	20261	1453	181	1	7	22	21925
Percent of Total	92.4	6.6	0.8	*	*	0.1	100.0

*Less than 0.05 percent

TABLE 17

DEATHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY PLACE OF DEATH, ALLOCATED TO RESIDENCE OF DECEDENT, 1948

County or City	General Hospital	Maternity Home	Nursing Home	Home	Mental Institution	Special Institution	Other	Total
Adams	30			22	2		3	57
Asotin	19		16	39	7	2	3	86
Benton	114		8	68	9	3	17	219
Rural	81		8	61	9	2	5	166
Richland	33			7		1	12	53
Chelan	173		28	113	13	3	24	354
Rural	98		14	73	7		21	213
Wenatchee	75		14	40	6	3	3	141
Clallam	117		27	83	4	2	23	256
Rural	54		18	48	1		17	138
Port Angeles	63		9	35	3	2	6	118
Clark	376		21	216	14	3	41	671
Rural	217		13	148	6	1	25	410
Vancouver	159		8	68	8	2	16	261
Columbia	29		11	19			1	60
Cowlitz	206		12	144	13	5	32	412
Rural	133		9	106	10	2	20	280
Longview	73		3	38	3	3	12	132
Douglas	25		7	19	1		7	59
Ferry	24		1	17	1	1	7	51
Franklin	52		4	26	4		7	93
Garfield	19		2	12	2			35
Grant	62		2	28	6	2	19	119
Grays Harbor	319		45	236	23	13	43	679
Rural	116		9	107	9	5	17	263
Aberdeen	147		20	86	12	7	20	292
Hoquiam	56		16	43	2	1	6	124
Island	25		11	52	1	1	2	92
Jefferson	48		6	29	2	1	4	90
King	3442	2	299	2479	348	164	384	7118
Rural	852		78	713	88	39	111	1881
Renton	64		5	33	2	4	9	117
Seattle	2526	2	216	1733	258	121	264	5120
Kitsap	308		15	227	19	7	34	610
Rural	180		11	171	15	4	22	403
Bremerton	128		4	56	4	3	12	207
Kittitas	108		8	62	2	2	11	193
Klickitat	48		6	48	2		7	111
Lewis	204		44	213	22	11	19	513
Lincoln	30	8	15	36	7	1	2	99
Mason	69		7	42	3	1	8	130
Okanogan	119	1	1	90	8	6	13	238
Pacific	104		18	65	4	3	10	204
and Oreille	36		2	21	1		5	65
Pierce	1228	1	101	762	138	37	103	2370
Rural	326		34	218	53	12	31	674
Puyallup	55		8	57	3	1	4	128
Tacoma	847	1	59	487	82	24	68	1568

TABLE 17 (Continued)

DEATHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY PLACE OF DEATH, ALLOCATED TO RESIDENCE OF DECEDENT, 1948

County or City	General Hospital	Maternity Home	Nursing Home	Home	Mental Institution	Special Institution	Other	Total
San Juan	8		7	18	2	1	2	38
Skagit	181		24	142	14	5	21	387
Skamania	12		10	16	3		5	46
Snohomish	545		37	529	30	19	47	1207
Rural	319		28	309	18	16	28	718
Everett	226		9	220	12	3	19	489
Spokane	900	1	244	804	114	39	89	2191
Rural	147		47	182	37	4	22	439
Spokane	753	1	197	622	77	35	67	1752
Stevens	139		4	68	4	2	7	224
Thurston	181	1	6	154	26	2	27	397
Rural	99		1	88	10	1	20	219
Olympia	82	1	5	66	16	1	7	178
Wahkiakum	14		1	16	1		2	34
Walla Walla	158	1	29	127	13	14	16	353
Rural	48	1	9	37	3	5	6	109
Walla Walla	110		20	90	10	9	10	249
atcom	347		75	258	20	5	25	730
Rural	131		16	143	9	3	8	310
Bellingham	21 6		59	115	11	2	17	420
Whitman	126		19	99	6	15	11	276
Yakima	546	7	45	355	27	14	59	1053
Rural	279	7	19	213	10	9	35	572
Yakima	267		26	142	17	5	24	481
URBAN TOTAL	5880	5	678	3938	526	227	576	11830
RURAL TOTAL	4611	17	540	3816	390	157	564	10095
GRAND TOTAL	10491	22	1218	7754	916	384	1140	21925
Percent of Total	47.8	0.1	5.6	35.4	4.2	1.7	5.2	100.0

TABLE 18

DEATHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY INDICATION OF AUTOPSY AND OPERATION, ALLOCATED TO RESIDENCE OF DECEDENT, 1948

County or City	Operation within 6 months of death and no autopsy	Operation within 6 months of death and autopsy	Autopsy and no operation	No autopsy and no operation	Total
Adams		1	3	53	57
Asotin	3		3	80	86
Benton	6	4	36	173	219
Rural	5	2	22	137	166
Richland	1	2	14	36	53
Chelan	15	4	29	306	354
Rural	9	3	19	182	213
Wenatchee	6	1	10	124	141
Clallam	15	3	19	219	256
Rural	7	1	13	117	138
Port Angeles	8	2	6	102	118
Clark	24	9	131	507	671
Rural	11	6	83	310	410
Vancouver	13	3	48	197	261
Columbia			1	59	60
Cowlitz	20	4	43	345	412
Rural	5	3	30	242	280
Longview	15	1	13	103	132
Douglas	1		5	53	59
Ferry	3	1	2	45	51
Franklin	2		10	81	93
Garfield	4	1	2	28	35
Grant	6	1	12	100	119
Grays Harbor	41	7	44	587	679
Rural	14	5	16	228	263
Aberdeen	18	2	22	250	292
Hoquiam	9		6	109	124
Island	4	4	3	81	92
Jefferson	1	1	6	82	90
King	239	131	1561	5187	7118
Rural	55	27	374	1425	1881
Renton	3	1	26	87	117
Seattle	181	103	1161	3675	5120
Kitsap	30	16	81	483	610
Rural	18	13	48	324	403
Bremerton	12	3	33	159	207
Kittitas	7	1	6	179	193
Klickitat	3	1	7	100	111
Lewis	12	4	32	465	513
Lincoln	6		2	91	99
Mason	4		20	106	130
Okanogan	7		14	217	238
Pacific	14	1	11	178	204
Pend Oreille	2		3	60	65
Pierce	128	46	388	1808	2370
Rural	25	11	116	522	674
Puyallup	4	2	10	112	128
Tacoma	99	33	262	1174	1568

TABLE 18 (Continued)

DEATHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY INDICATION OF AUTOPSY AND OPERATION, ALLOCATED TO RESIDENCE OF DECEDENT, 1948

County or City	Operation within 6 months of death and no autopsy	Operation within 6 months of death and autopsy	Autopsy and no operation	No autopsy and no operation	Total
San Juan	2		2	34	38
Skagit	16	2	15	354	387
Skamania	1	2	3	40	46
Snohomish	39	7	101	1060	1207
Rural	25	4	65	624	718
Everett	14	3	36	436	489
Spokane	118	39	218	1816	2191
Rural	15	7	43	374	439
Spokane	103	32	175	1442	1752
Stevens	9	1	16	198	224
Thurston	19	6	43	329	397
Rural	13	4	23	179	219
Olympia	6	2	20	150	178
Wahkiakum		1	5	28	34
Walla Walla	17	5	26	310	358
Rural	3		11	95	109
Walla Walla	14	5	15	215	249
Whatcom	38	10	52	630	730
Rural	14	3	23	270	310
Bellingham	24	7	29	360	420
Whitman	15	4	24	233	276
Yakima	63	6	75	909	1053
Rural	36	4	31	501	572
Yakima	27	2	44	408	481
URBAN TOTAL	557	204	1930	9139	11830
RURAL TOTAL	377	119	1124	8475	10095
GRAND TOTAL	934	323	3054	17614	21925

TABLE 19

DEATHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY DISPOSITION OF BODY, ALLOCATED TO RESIDENCE OF DECEDENT, 1948

County or City	Burial	Cremation	Removal	Other	Total
Adams	43	3	11		57
Asotin	49	1	36		86
Benton	144	9	66		219
Rural	121	7	38		166
Richland	23	2	28		53
Chelan	282	22	50		354
Rural	173	12	28		213
Wenatchee	109	10	22		141
Clallam	177	40	39		256
Rural	94	18	26		138
Port Angeles	83	22	13		118
Clark	493	40	138		671
Rural	324	17	69		410
Vancouver	169	23	69		261
Columbia	50	2	8		60
Cowlitz	309	19	84		412
Rural	212	10	58		280
Longview	97	9	26		132
Douglas	49	2	8		59
Ferry	37	3	11		51
Franklin	66	2	25		93
Garfield	29		6		35
Grant	91	9	19		119
Grays Harbor	509	58	112		679
Rural	174	23	66		263
Aberdeen	231	26	35		292
Hoquiam	104	9	11		124
Island	59	11	22		92
Jefferson	58	19	13		90
King	3900	2284	933	1	7118
Rural	1119	528	234		1881
Renton	82	22	13		117
Seattle	2699	1734	686	1	5120
Kitsap	318	153	139		610
Rural	217	97	89		403
Bremerton	101	56	50		207
Kittitas	144	12	37		193
Klickitat	71	6	34		111
Lewis	441	20	52		513
Lincoln	84	2	13		99
Mason	83	7	40		130
Okanogan	184	10	44		238
Pacific	142	16	46		204
Pend Oreille	47	6	12		65
Pierce	1813	348	208	1	2370
Rural	530	81	62	1	674
Puyallup	91	24	13		128
Tacoma	1192	243	133		1568

TABLE 19 (Continued)

DEATHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY DISPOSITION OF BODY, ALLOCATED TO RESIDENCE OF DECEDENT, 1948

County or City	Burial	Cremation	Removal	Other	Total
San Juan	18	6	14		38
Skagit	295	40	52		387
Skamania	28	2	16		46
Snohomish	892	191	124		1207
Rural	544	101	73		718
Everett	348	90	51		489
Spokane	1539	338	312	2	2191
Rural	327	52	60		439
Spokane	1212	286	252	2	1752
Stevens	180	5	39		224
Thurston	313	42	42		397
Rural	185	18	16		219
Olympia	128	24	26		178
Wahkiakum	29	1	4		34
Walla Walla	292	7	59		358
Rural	94	2	13		109
Walla Walla	198	5	46		249
Whatcom	541	119	69	1	730
Rural	246	29	35		310
Bellingham	295	90	34	1	420
Whitman	209	16	51		276
Yakima	845	49	159		1053
Rural	465	24	83		572
Yakima	380	25	76		481
URBAN TOTAL	7542	2700	1584	4	11830
RURAL TOTAL	7311	1220	1563	1	10095
GRAND TOTAL	14853	3920	3147	5	21925

TABLE 20

DEATHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, FOR FIVE YEARS, WITH TOTALS AND RATES, ALLOCATED TO RESIDENCE OF DECEDENT, 1944 - 1948

County or City	1944	1945	1946	1947	1948	Total	5 year rate
Adams	48	57	42	52	57	256	8.6
Asotin	90	97	90	102	86	465	10.3
Benton	131	122	174	150	219	796	4.8
Chelan	318	347	341	343	354	1703	9.2
Rural	171	187	184	199	213	954	7.9
Wenatchee	147	160	157	144	141	749	11.7
Clallam	216	205	230	244	256	1151	10.3
Rural	108	103	102	109	138	560	9.4
Port Angeles	108	102	128	135	118	591	11.4
Clark	760	674	682	695	671	3482	8.3
Rural	513	425	393	401	410	2142	8.6
Vancouver	247	249	289	294	261	1340	7.8
Columbia	71	61	46	47	60	285	10.6
Cowlitz	330	329	343	403	412	1817	7.5
Rural	225	229	252	271	280	1257	7.8
Longview	105	100	91	132	132	560	6.9
Douglas	65	58	58	53	59	293	7.7
Ferry	59	28	30	30	51	198	9.4
Franklin	79	94	76	86	93	428	7.5
Garfield	27	28	29	30	35	149	9.8
Grant	76	70	88	119	119	472	8.7
Grays Harbor	567	579	611	607	679	3043	11.7
Rural	238	219	240	206	263	1166	11.1
Aberdeen	213	236	234	264	292	1239	12.7
Hoquiam	116	124	137	137	124	638	11.0
Island	82	69	82	88	92	413	12.0
Jefferson	99	86	95	94	90	464	10.3
King	6466	6728	6789	6762	7118	33863	10.6
Rural	1689	1720	1844	1819	1998	9070	10.3
Seattle	4777	5008	4945	4943	5120	24793	10.8
Kitsap	626	703	671	599	610	3209	7.1
Rural	395	418	407	389	403	2012	9.8
Bremerton	231	285	264	210	207	1197	4.8
Kittitas	200	176	203	172	193	944	8.7
Klickitat	106	106	79	94	111	496	8.9
Lewis	454	484	450	433	513	2334	11.2
Lincoln	132	109	101	138	99	579	10.5
Mason	119	108	123	119	130	599	8.9
Okanogan	183	182	216	195	238	1014	7.8
Pacific	159	173	151	157	204	844	10.3
Pend Oreille	60	55	46	63	65	289	8.1
Pierce	2247	2314	2154	2219	2370	11304	11.1
Rural	771	778	718	745	802	3814	10.7
Tacoma	1476	1536	1436	1474	1568	7490	11.2

TABLE 20 (Continued)

DEATHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, FOR FIVE YEARS, WITH TOTALS AND RATES, ALLOCATED TO RESIDENCE OF DECEDENT, 1944 - 1948

County or City	1944	1945	1946	•1947	1948	Total	5 year rate
San Juan	25	36	41	36	38	176	8.8
Skagit	413	423	470	423	337	2116	10.1
Skamania	21	37	30	42	46	176	8.1
Snohomish	1025	995	1068	1133	1207	5428	11.6
Rural	618	597	655	683	718	3271	11.1
Everett	407	398	413	450	489	2157	12.4
Spokane	2035	2046	2122	2158	2191	10552	11.0
Rural	368	420	410	411	439	2048	8.5
Spokane	1667	1626	1712	1747	1752	8504	11.9
Stevens	174	179	176	195	224	948	10.5
Thurston	369	379	411	385	397	1941	9.8
Rural	197	199	226	196	219	1037	8.7
Olympia	172	180	185	189	178	904	11.4
Wahkiakum	32	29	35	38	34	168	8.6
Walla Walla	385	357	388	342	358	1830	11.3
Rural	102	124	121	91	109	547	12.1
Walla Walla	283	233	267	251	249	1283	11.0
Whatcom	690	683	723	721	730	3547	11.5
Rural	292	284	303	303	310	1492	10.1
Bellingham	398	399	420	418	420	2055	12.9
Whitman	248	220	236	253	276	1233	8.5
Yakima	1068	1128	1093	1066	1053	5408	9.8
Rural	691	698	629	628	572	3218	8.5
Yakima	377	430	464	438	481	2190	12.8
West. St. Cust. Sch.	*	8	11	17	31**	36	
East. St. Cust. Sch.	*	21	12	16	24**	49	
American Lake	*	*	*	47	30**	47	
West. St. Hospital	383	321	344	331	320**	1379	
North. St. Hospital	271	224	240	248	204**	983	
East. St. Hospital	235	164	220	218	217**	837	
URBAN TOTAL	10724	11066	11142	11226	11532	55690	10.8
RURAL TOTAL	10420	10226	10478	10537	10393	52054	10.1
GRAND TOTAL	21144	21292	21620	21763	21925	107744	10.5

* No separate breakdown on these institutions, included in the totals of other mental institutions within county.

** Prior to 1948 allocation was made to institution, in 1948 allocation was made to usual residence of decedent but are listed separately for purposes of comparison.

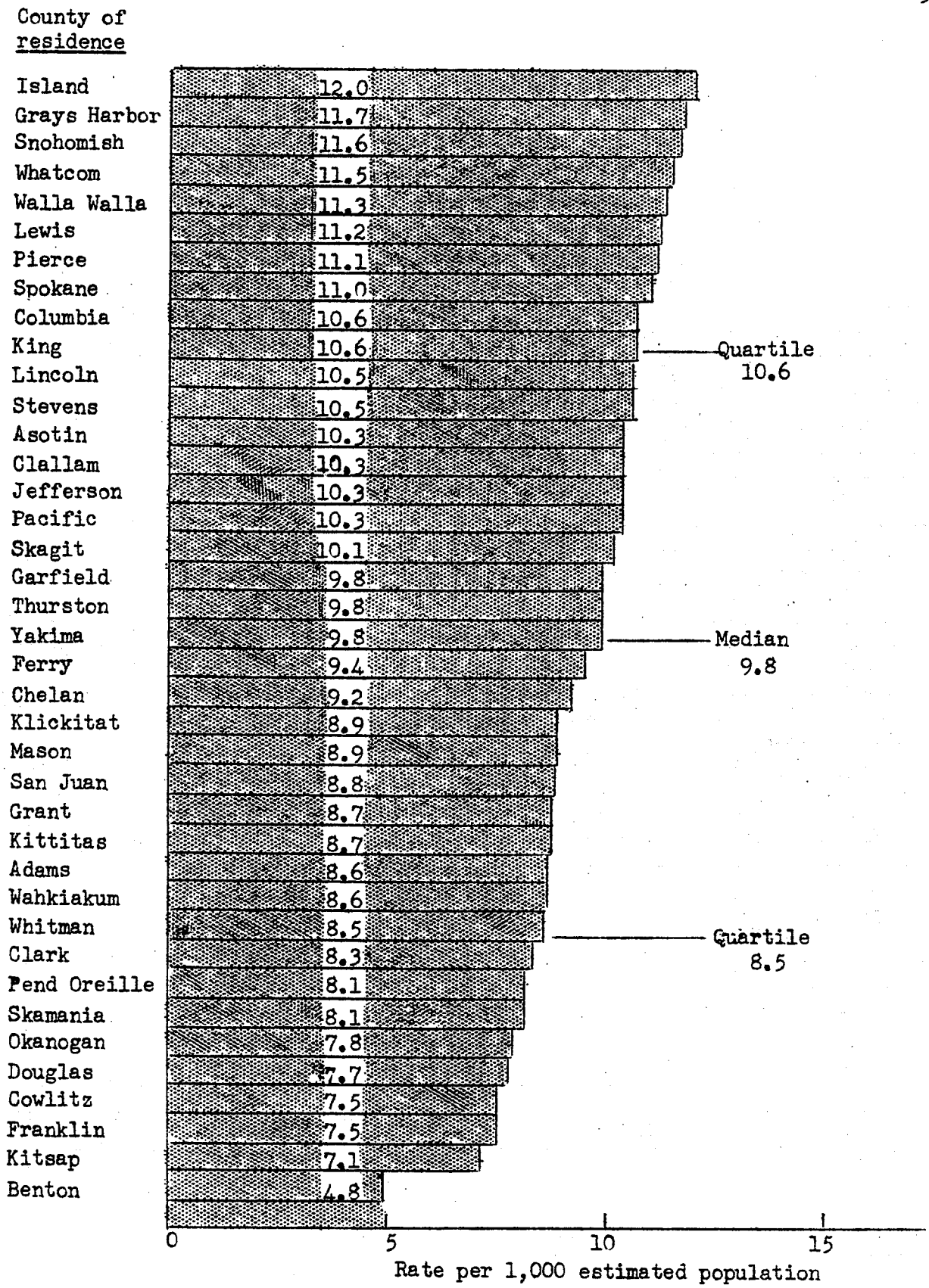


FIGURE 8 - FIVE-YEAR AVERAGE DEATH RATES BY RANK FROM HIGHEST TO LOWEST IN THE COUNTIES (CITIES INCLUDED) OF THE STATE OF WASHINGTON, 1944 - 1948

TABLE 21

SUMMARY OF THE NUMBER OF DEATHS FROM LEADING CAUSES, WITH RATES PER 100,000 POPULATION, STATE OF WASHINGTON, 1910 - 1948*

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	737	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	117.5	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	1,508	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	54.3	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	741	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
1947	7,114	341.0	2,987	143.2	2,090	100.2	1,015	48.7	771	37.0	557	26.7
1948	7,229	336.5	3,034	141.2	2,126	99.0	951	44.3	810	37.7	552	25.7

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

1934 - 1948 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 21 (Continued)

SUMMARY OF THE NUMBER OF DEATHS FROM LEADING CAUSES, WITH RATES PER 100,000 POPULATION, STATE OF WASHINGTON, 1910 - 1948*

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		
927	210	13.9	271	18.0	365	24.2	334	22.2	310	20.6	150	9.9		
928	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	312	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
1947	399	19.1	482	23.1	531	25.4	574	27.5	361	17.3	154	7.4	321	15.4
1948	412	19.2	490	22.8	514	23.9	586	27.3	315	14.7	114	5.3	315	14.7

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

1934 - 1948 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.

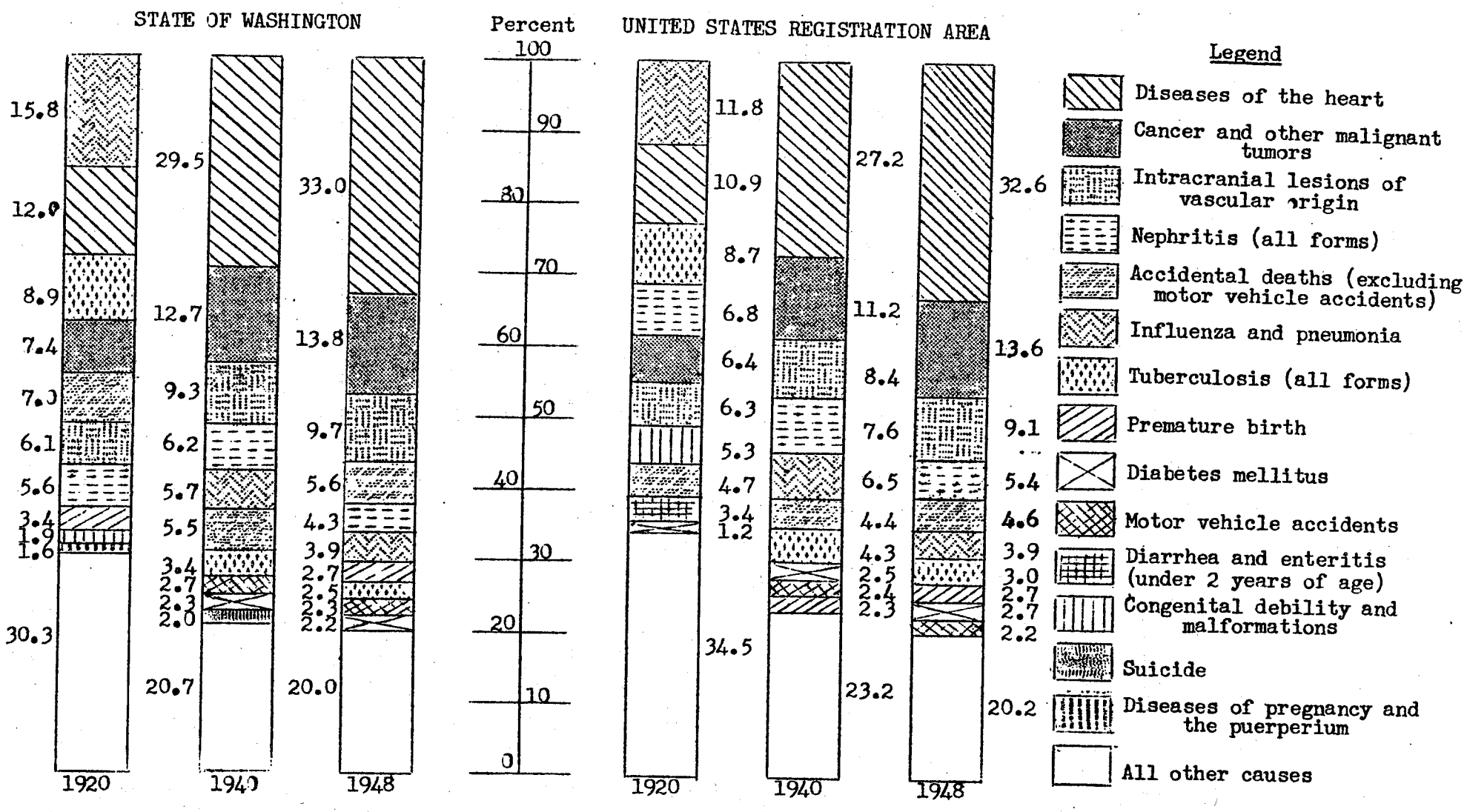


FIGURE 9 - PERCENTAGE DISTRIBUTION OF LEADING CAUSES OF DEATH IN THE STATE OF WASHINGTON AND THE UNITED STATES REGISTRATION AREA, WITH DESIGNATED RANK OF CAUSE, BY YEAR, 1920, 1940, AND 1948

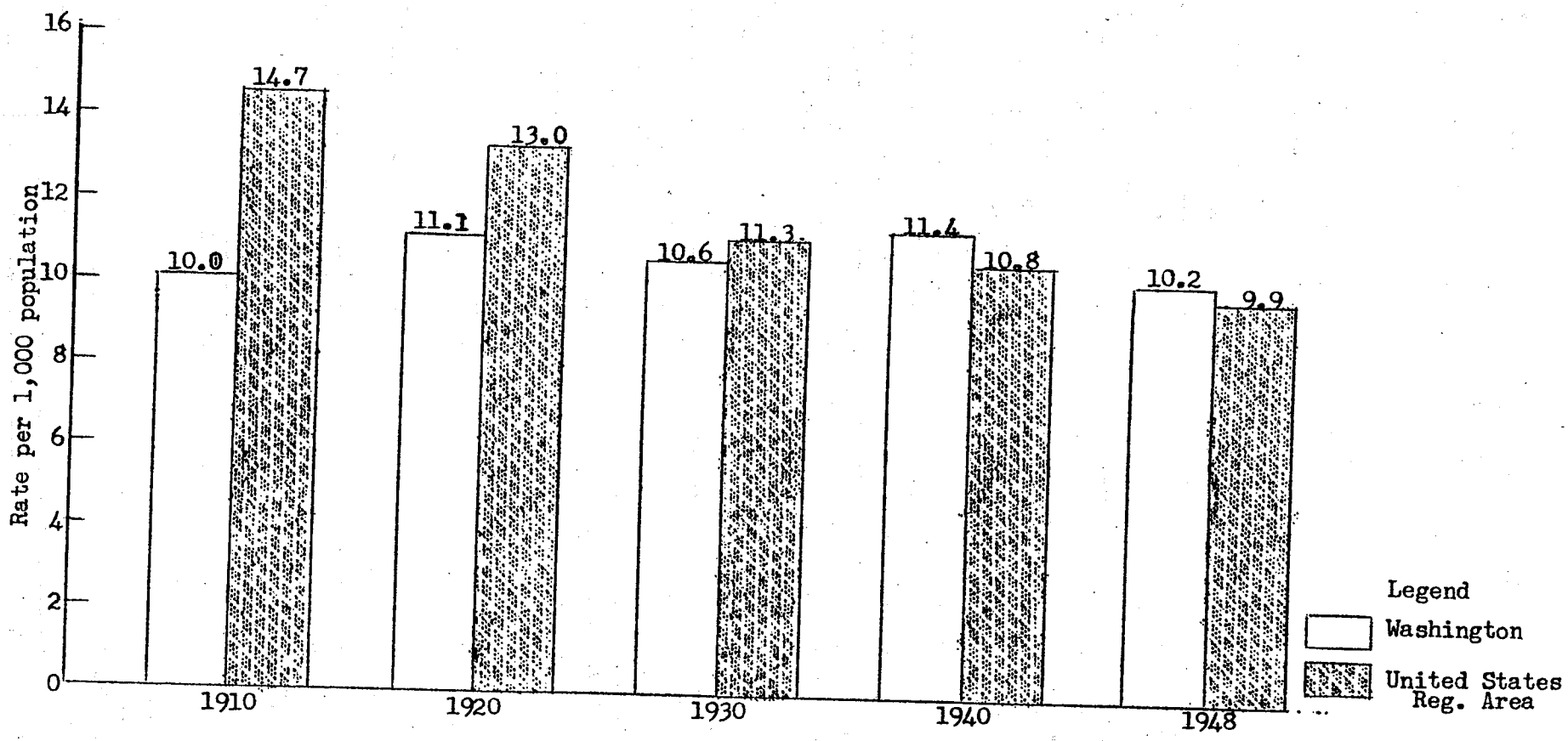


FIGURE 10 - CRUDE DEATH RATES PER 1,000 POPULATION FOR THE STATE OF WASHINGTON AND THE UNITED STATES REGISTRATION AREA, BY YEAR, 1910, 1920, 1930, 1940, 1948

TABLE 22

DEATHS OF INFANTS UNDER ONE YEAR OF AGE 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, 1948

County or City	Residence		Occurrence	
	Number	Rate	Number	Rate
Adams	7	47.3	3	25.9
Asotin	5	37.9	7	46.7
Benton	32	26.1	29	28.3
Rural	22	31.5	16	63.0
Richland	10	19.0	13	16.9
Chelan	38	35.1	44	33.5
Rural	21	29.8	14	62.8
Wenatchee	17	45.1	30	27.5
Clallam	22	32.1	19	29.3
Rural	11	30.8	3	39.5
Port Angeles	11	33.5	16	27.9
Clark	55	25.6	51	23.2
Rural	39	27.9	10	38.6
Vancouver	16	21.4	41	21.2
Columbia	4	34.5	4	38.5
Cowlitz	29	19.4	32	19.5
Rural	20	24.1	0	0.0
Longview	9	13.6	32	19.9
Douglas	6	28.3	2	*
Ferry	3	28.8	2	40.8
Franklin	13	38.2	19	26.2
Garfield	3	45.4	3	68.2
Grant	12	27.8	7	26.5
Grays Harbor	44	32.1	49	36.4
Rural	23	39.4	10	70.4
Aberdeen	12	23.4	38	31.7
Hoquiam	9	32.3	1	*
Island	6	35.7	6	21.5
Jefferson	14	47.6	10	39.5
King	456	27.1	487	27.8
Rural	177	28.1	61	45.9
Renton	22	34.8	29	23.6
Seattle	257	26.0	397	26.6
Kitsap	52	25.7	44	22.3
Rural	28	28.2	5	131.6
Bremerton	24	23.2	39	20.2
Kittitas	14	25.3	13	23.1
Klickitat	5	16.6	4	17.8
Lewis	26	27.1	23	22.9
Lincoln	11	47.8	4	44.4
Mason	6	16.9	6	18.0
Okanogan	29	35.6	34	38.1
Pacific	12	32.5	7	22.5
Pend Oreille	3	19.7	1	5.1
Pierce	149	27.2	157	25.4
Rural	44	23.7	35	33.3
Puyallup	5	25.4	0	0.0
Tacoma	100	29.1	122	25.9

TABLE 22 (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 LIVEBIRTHS, ALLOCATED TO RESIDENCE OF MOTHER AND BY PLACE OF OCCURRENCE, 1948

County or City	Residence		Occurrence	
	Number	Rate	Number	Rate
San Juan	0	0.0	0	0.0
Skagit	34	36.5	31	32.2
Skamania	1	11.0	0	0.0
Snohomish	93	36.7	84	36.8
Rural	55	35.9	20	38.9
Everett	38	37.8	64	36.2
Spokane	118	22.4	153	26.0
Rural	30	24.9	7	*
Spokane	98	21.7	146	25.0
Stevens	16	36.7	14	33.8
Thurston	23	21.0	20	20.2
Rural	12	17.4	1	31.2
Olympia	11	27.2	19	19.8
Wahkiakum	3	39.0	2	*
Walla Walla	18	21.0	19	16.2
Rural	8	23.6	2	0.0
Walla Walla	10	19.4	17	14.5
Whatcom	38	24.0	40	25.0
Rural	19	27.4	7	82.1
Bellingham	19	21.3	33	21.8
Whitman	24	33.1	20	30.9
Yakima	101	27.0	96	26.1
Rural	63	27.8	42	33.9
Yakima	38	25.7	54	22.2
URBAN TOTAL	696	25.8	1091	24.7
RURAL TOTAL	829	29.1	455	35.1
GRAND TOTAL	1525	27.5	1546	27.1

* The number of births too small to compute a reliable rate.

TABLE 23

INFANT MORTALITY, BY PRINCIPAL CAUSES, IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH PERCENTAGES OF THE GRAND TOTAL, ALLOCATED TO MOTHER'S RESIDENCE, 1948

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, 33, 34)	Dysentery (27), Diarrhea and enteritis (119a)	Influenza (33), pneumonia (all forms) (107-109)	Congenital Malformations (157)	Prematurity (159)	Injury at birth (160)	Congenital debility (158), other diseases peculiar to first year of life (161)	Accidental deaths (169-195)	Ill-defined and unknown causes (199, 200)	All other causes	All causes
Adams						2	2	1		1	1			7
Asotin						2	1		1				1	5
Benton						2	5	14	5	1	3		2	32
Rural						2	4	8	4		3		1	22
Richland							1	6	1	1			1	10
Chelan						3	5	15	7	4		1	3	38
Rural						2	3	7	5	2		1	1	21
Wenatchee						1	2	8	2	2			2	17
allam						4	4	6	1	3	1		3	22
Rural						4	3	1	1	1			1	11
Port Angeles							1	5		2	1		2	11
Clark						3	6	22	6	10	3		5	55
Rural						3	3	13	5	7	3		5	39
Vancouver							3	9	1	3				16
Columbia						1		1	1	1				4
Cowlitz				1		2	9	8	2	5		1	1	29
Rural				1		2	6	8		3				20
Longview							3		2	2		1	1	9
Douglas						1		3		2				6
Ferry						1		1		1				3
Franklin							1	8	2	2				13
Garfield								2		1				3
Grant	1				1	2		4	1	1	1		1	12
Grays Harbor					1	3	8	17	9	1	4		1	44
Rural						2	2	8	7	1	2		1	23
Aberdeen						1	3	6	1		1			12
Hoquiam					1		3	3	1		1			9
Island						1	2	1		1			1	6
Jefferson						4		6	2		1		1	14
King	3	1		1	5	32	65	178	55	56	28	6	26	456
Rural	2			1	4	14	25	62	19	17	16	4	13	177
Renton		1				2	2	9	2	3	3			22
Seattle	1				1	16	38	107	34	36	9	2	13	257
Asap				1	1	3	8	18	6	6	1	2	6	52
Rural						2	3	5	6	4	1	1	6	28
Bremerton				1	1	1	5	13		2		1		24
Kittitas						1	2	5	1	2		1	2	14
Klickitat					1			3		1				5

TABLE 23 (Continued)

INFANT MORTALITY, BY PRINCIPAL CAUSES, IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH PERCENTAGES OF THE GRAND TOTAL, ALLOCATED TO MOTHER'S RESIDENCE, 1948

County or City	Whooping Cough (9)	Diphtheria (10)	Tuberculosis (all forms) (13-22)	All other infectious and parasitic diseaes (1-8,11,12 23-26,28,32,33,34)	Dysentery (27), diarrhea and enteritis (119a)	Influenza (33), pneumonia (all forms) (107-109)	Congenital malformations (157)	Prematurity (159)	Injury at birth (160)	Congenital debility (158), other diseases peculiar to first year of life (161)	Accidental deaths (169-195)	Ill-defined and unknown causes (199, 200)	All other causes	All causes
Lewis						2	4	9	5	4	1		1	26
Lincoln							2	4	1	4				11
Mason							1	1	1		2		1	6
Okanogan					4	2	5	9	3	1	3	1	1	29
Pacific						1	4	3	1		1	1	1	12
Pend Oreille								2		1				3
Pierce					1	12	24	59	16	16	9		12	149
Rural					1	7	6	16	3	2	4		5	41
Puyallup						1		1		3				5
Tacoma						4	18	42	13	11	5		7	100
San Juan														0
Skagit						4	4	18	1	5	1	1		34
Skamania							1							1
Snohomish				1		9	14	42	13	4	3	1	6	93
Rural				1		8	8	22	9	2	2	1	2	55
Everett						1	6	20	4	2	1		4	38
Spokane						9	14	50	15	16	7		7	118
Rural						1	3	9	5	6	3		3	30
Spokane						8	11	41	10	10	4		4	83
Stevens							3	7	3	3				16
Thurston						2	2	8	4	2	2		3	23
Rural						1	1	3		2	2		3	12
Olympia						1	1	5	4					11
Wahkiakum					1	1				1				3
Walla Walla							4	9	1		1	2	1	18
Rural							2	3				2	1	8
Walla Walla							2	6	1		1			10
Whatcom			1	2	1	2	7	9	7	3	1		5	38
Rural			1	2	1	1	3	6	1	1	1		2	19
Bellingham						1	4	3	6	2			3	19
Whitman						2	8	3	5	5		1		24
Yakima					4	17	11	40	9	8	4	2	6	101
Rural					4	12	6	22	5	4	3	2	5	63
Yakima						5	5	18	4	4	1		1	38
URBAN TOTAL	1	1	0	1	3	42	108	302	86	83	27	4	33	696
RURAL TOTAL	3	0	1	5	17	88	118	284	98	89	51	16	59	829
GRAND TOTAL	4	1	1	6	20	130	226	586	184	172	78	20	97	1525
Percent of Total	0.3	0.1	0.1	0.4	1.3	8.5	14.8	38.4	12.1	11.3	5.1	1.3	6.4	100.0

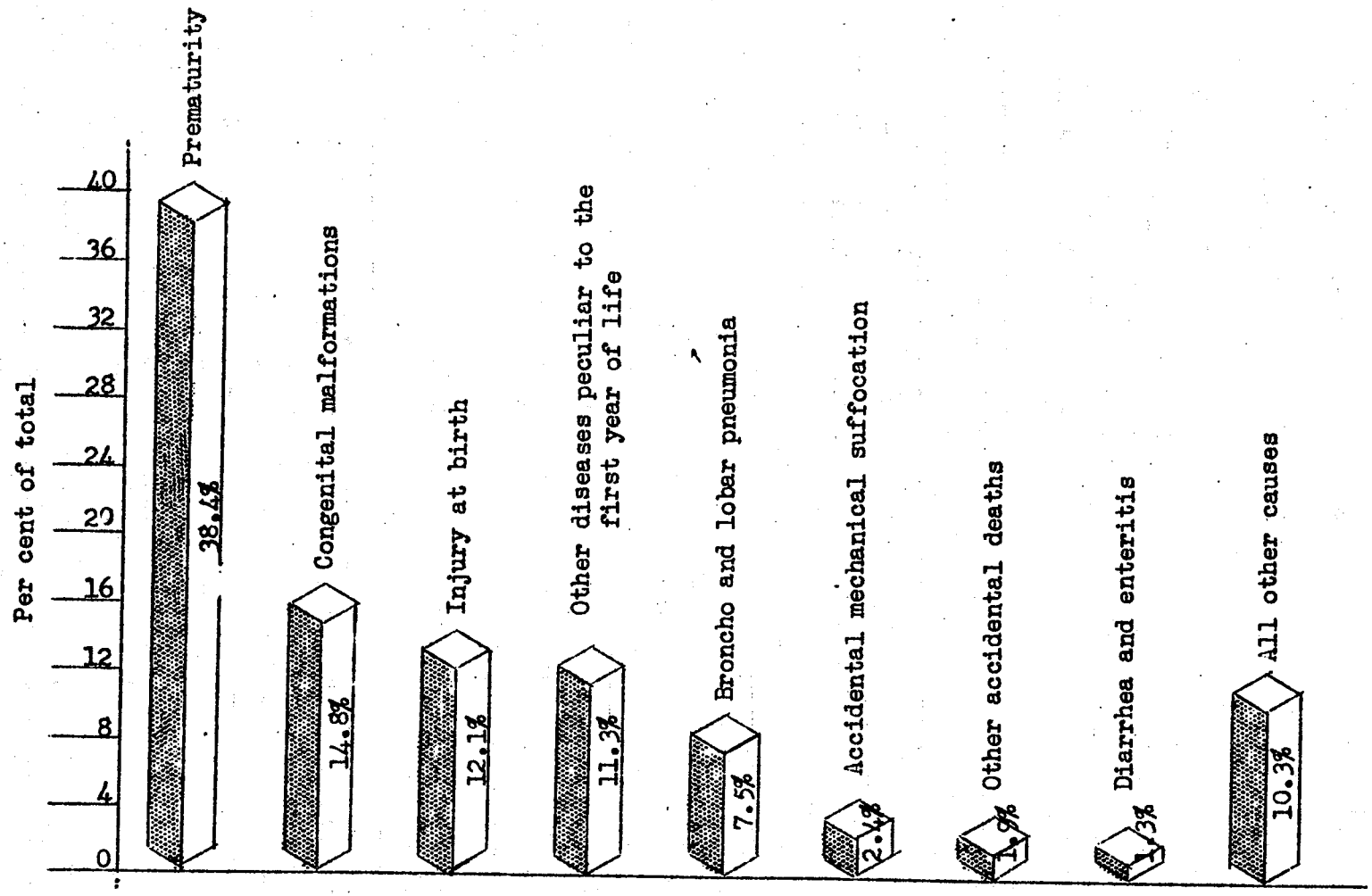


FIGURE 11 - PERCENTAGE DISTRIBUTION OF SELECTED CAUSES OF DEATHS OF INFANTS UNDER ONE YEAR OF AGE IN THE STATE OF WASHINGTON, 1948

TABLE 24

NUMBER OF DEATHS OF INFANTS (UNDER ONE YEAR OF AGE) BY RESIDENCE OF MOTHER IN THE STATE OF WASHINGTON, BY AGE OF INFANT, FIVE YEARS WITH PERCENTAGES OF GRAND TOTAL, 1944 - 1948

Age Group	1944	1945	1946	1947	1948	Total	Percent of Total
All ages	1493	1523	1723	1630	1525	7894	100.0
Under 1 day	460	549	650	667	623	2949	37.4
1 day to 1 week	344	358	461	449	427	2039	25.8
1 week to 1 month	192	216	196	123	114	841	10.7
1 to 11 months	497	400	415	391	361	2064	26.1
Unknown age	0	0	1	0	0	1	*

* Less than 0.05 percent

TABLE 25

NUMBER OF DEATHS OF INFANTS (UNDER ONE YEAR OF AGE) BY RESIDENCE OF MOTHER IN THE STATE OF WASHINGTON, BY LEADING CAUSES, FIVE YEARS WITH PERCENTAGES OF TOTAL, 1944 - 1948

Cause of Death	Number					Percent of Total				
	1944	1945	1946	1947	1948	1944	1945	1946	1947	1948
All causes	1493	1523	1723	1630	1525	100.0	100.0	100.0	100.0	100.0
Premature birth (159)	466	548	671	574	586	31.2	36.0	38.9	35.2	38.4
Congenital malformations (157)	196	208	222	272	226	13.1	13.6	12.9	16.7	14.8
Injury at birth (160)	125	154	206	207	184	8.4	10.1	12.0	12.6	12.1
Congenital debility (158) Other diseases peculiar to the first year of life (161)	177	163	170	204	172	11.8	10.7	9.9	12.5	11.3
Influenza (33) and Pneumonia (107 - 109)	164	166	162	123	130	11.0	10.9	9.4	7.5	8.5
Accidental causes (169 - 195)	55	60	75	73	78	3.7	3.9	4.4	4.5	5.1
A ther causes	310	224	217	177	149	20.8	14.7	12.6	10.8	9.8

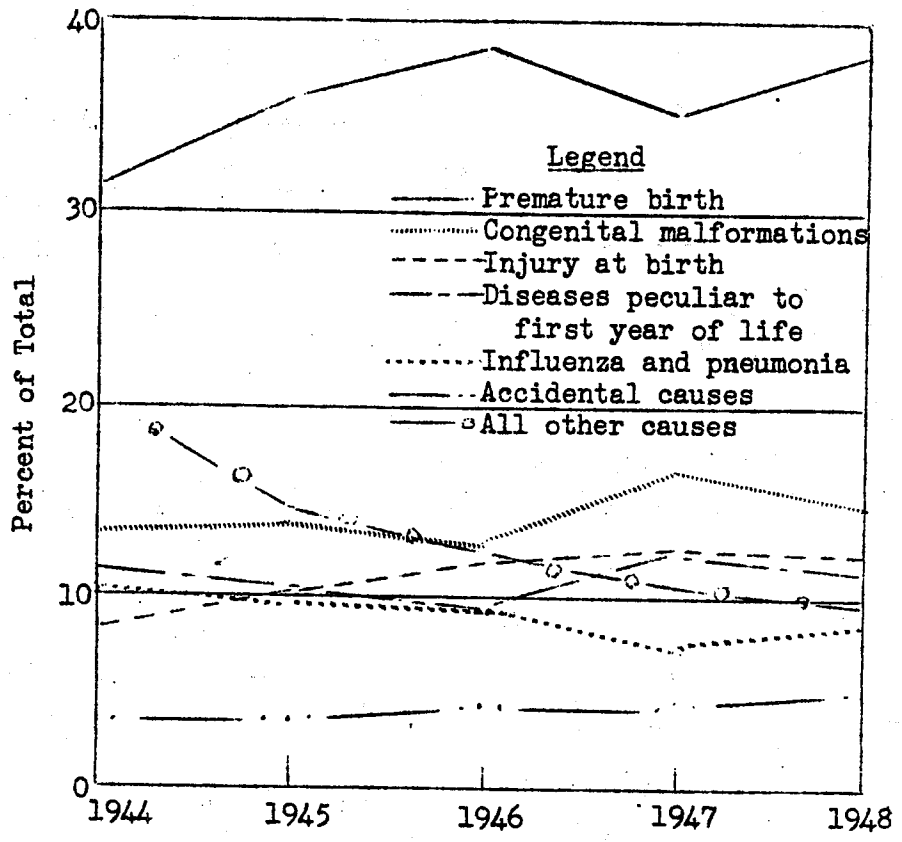


FIGURE 12 - PERCENTAGE DISTRIBUTION OF LEADING CAUSES OF DEATHS OF INFANTS UNDER ONE YEAR OF AGE, BY RESIDENCE OF MOTHER IN WASHINGTON, BY YEAR, 1944 - 1948

TABLE 26

DEATHS OF INFANTS UNDER ONE YEAR OF AGE IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE OF CHILD, ALLOCATED TO RESIDENCE OF MOTHER, 1948

County or City	Under 1 day	1 day - 1 week	1 week - 1 month	1 month - 11 months	Total
Adams		3	2	2	7
Asotin		2		3	5
Benton	12	10	1	9	32
Rural	6	7	1	8	22
Richland	6	3		1	10
Chelan	16	12	1	9	38
Rural	10	5	1	5	21
Wenatchee	6	7		4	17
Clallam	7	4	2	9	22
Rural	3	2	1	5	11
Port Angeles	4	2	1	4	11
Clark	19	18	4	14	55
Rural	9	13	4	13	39
Vancouver	10	5		1	16
Columbia	1	3			4
Cowlitz	16	5	2	6	29
Rural	11	4	1	4	20
Longview	5	1	1	2	9
Douglas	3	1	1	1	6
Ferry	1	1		1	3
Franklin	8	5			13
Garfield	3				3
Grant	3	2	2	5	12
Grays Harbor	8	18	6	12	44
Rural	5	8	3	7	23
Aberdeen	2	7	2	1	12
Hoquiam	1	3	1	4	9
Island	3		1	2	6
Jefferson	3	6		5	14
King	201	131	30	94	456
Rural	79	38	14	46	177
Renton	7	8		7	22
Seattle	115	85	16	41	257
Kitsap	21	17	4	10	52
Rural	11	9	2	6	28
Bremerton	10	8	2	4	24
Kittitas	4	5	2	3	14
Klickitat		4		1	5
Lewis	13	6	1	6	26
Lincoln	6	4		1	11
Mason	1	1	1	3	6
Okanogan	13	5		11	29
Pacific	3	4	1	4	12
Pend Oreille	1	1	1		3
Pierce	63	31	14	41	149
Rural	19	4	5	16	44
Puyallup	1	2	1	1	5
Tacoma	43	25	8	24	100

TABLE 26 (Continued)

DEATHS OF INFANTS UNDER ONE YEAR OF AGE IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE OF CHILD, ALLOCATED TO RESIDENCE OF MOTHER, 1948

County or City	Under 1 day	1 day - 1 week	1 week - 1 month	1 month - 11 months	Total
San Juan					0
Skagit	20	8	1	5	34
Skamania				1	1
Snohomish	40	29	1	23	93
Rural	21	20	1	13	55
Everett	19	9		10	38
Spokane	48	33	16	21	118
Rural	11	11	3	5	30
Spokane	37	22	13	16	88
Stevens	9	6		1	16
Thurston	7	9	1	6	23
Rural	5	1	1	5	12
Olympia	2	8		1	11
Wahkiakum	1			2	3
Walla Walla	7	4	3	4	18
Rural	2	2	2	2	8
Walla Walla	5	2	1	2	10
Whatcom	12	9	3	14	38
Rural	4	4	1	10	19
Bellingham	8	5	2	4	19
Whitman	11	8	3	2	24
Yakima	39	22	10	30	101
Rural	16	16	7	24	63
Yakima	23	6	3	6	38
URBAN TOTAL	304	208	51	133	696
RURAL TOTAL	319	219	63	228	829
GRAND TOTAL	623	427	114	361	1525
Percent of Total	40.8	28.0	7.5	23.7	100.0

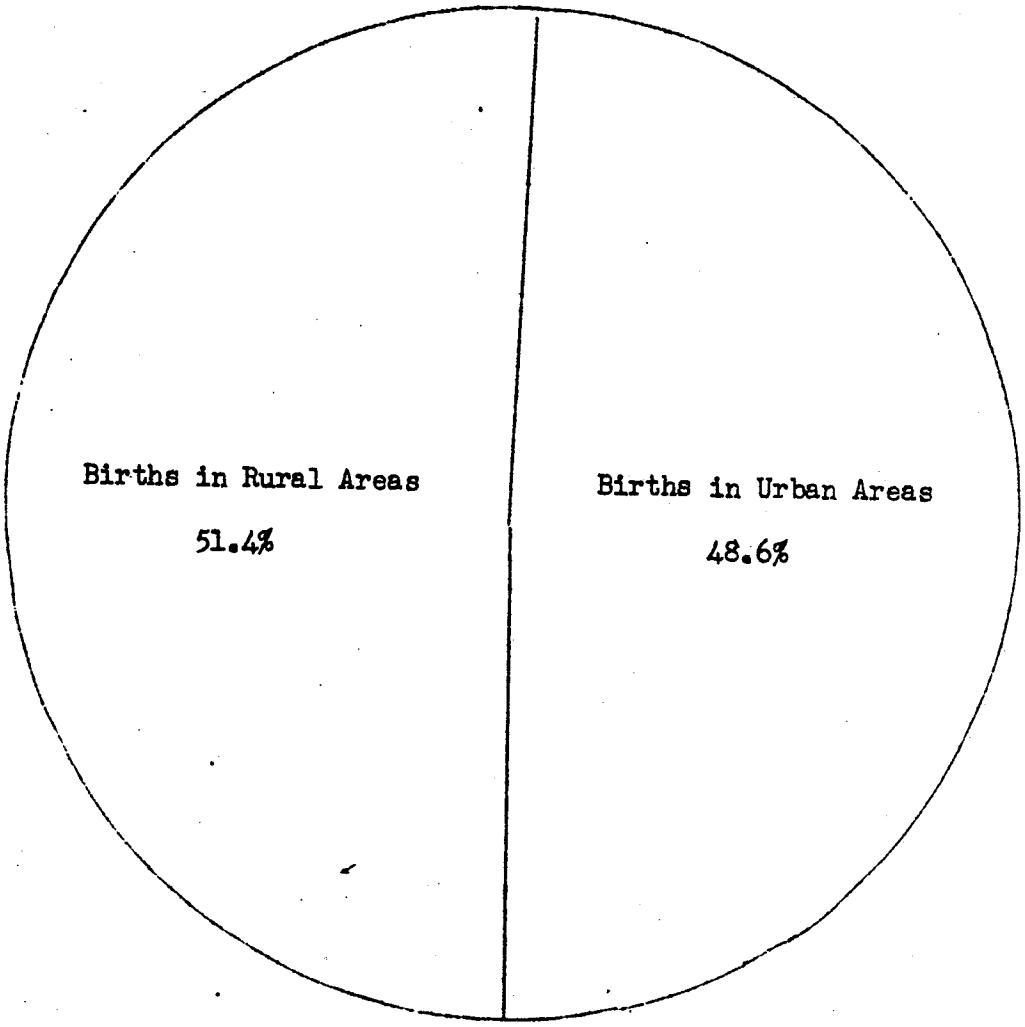
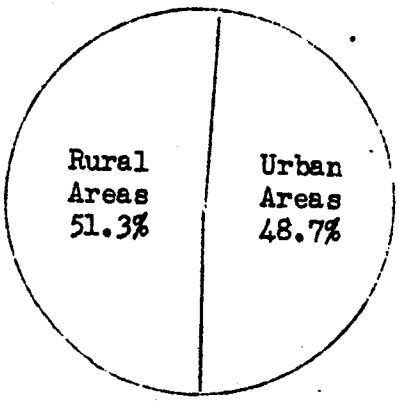
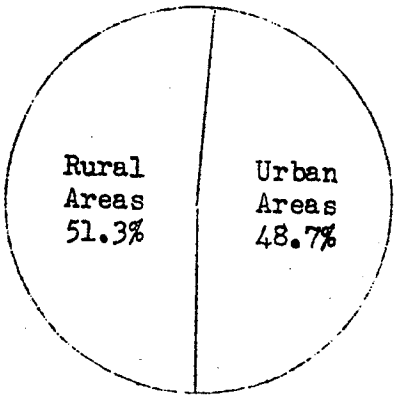


FIGURE 13 - PERCENTAGE DISTRIBUTION OF BIRTHS AND SELECTED INFANT DEATHS, BY URBAN AND RURAL AREAS, STATE OF WASHINGTON, 1948



Percentage distribution by area of infant deaths under 1 day of age 1948



Percentage distribution by area of infant deaths 1 day to 1 week of age 1948

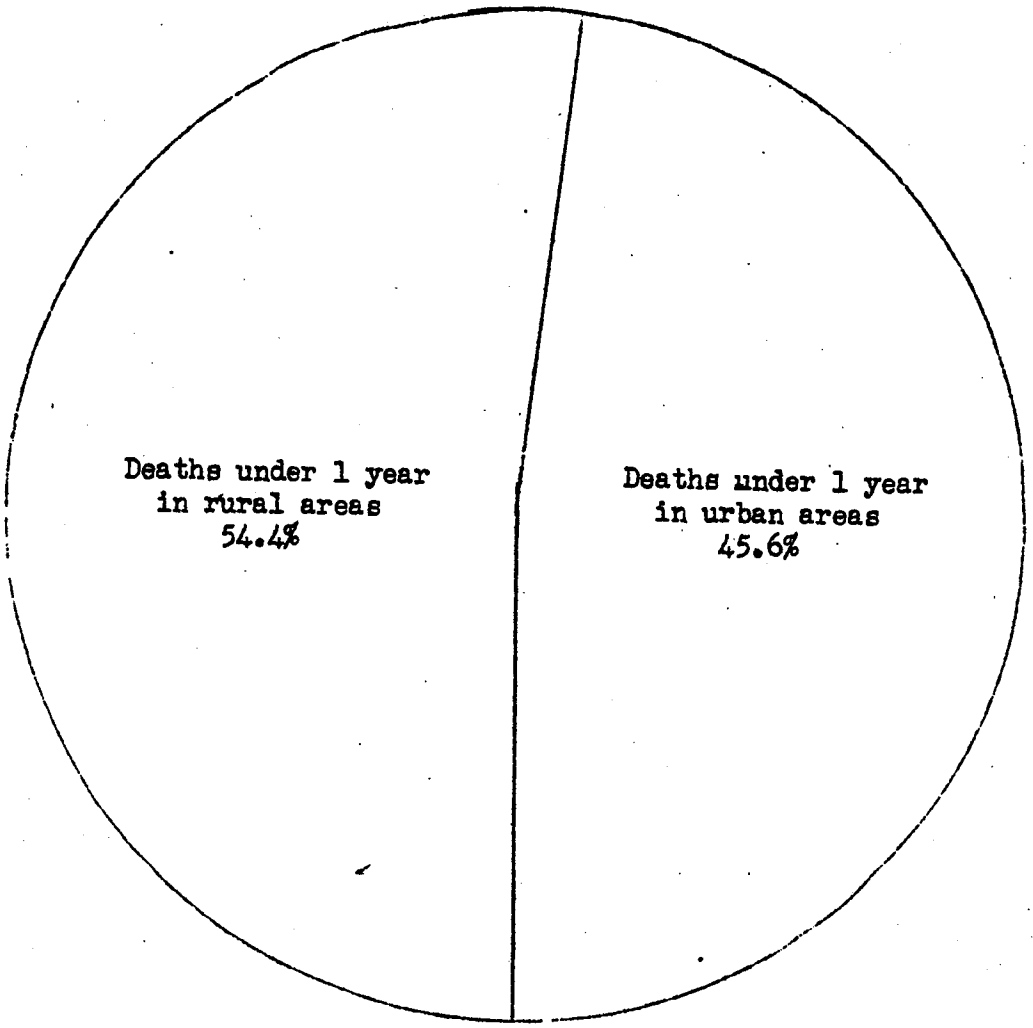
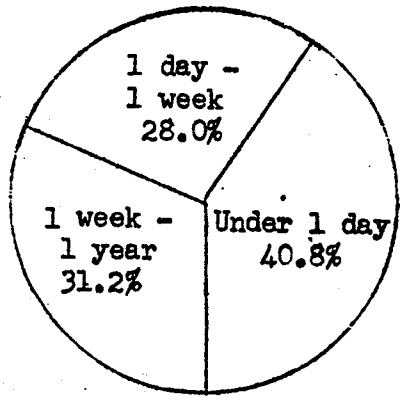


FIGURE 14 - PERCENTAGE DISTRIBUTION OF DEATHS OF INFANTS UNDER ONE YEAR, BY URBAN AND RURAL AREAS, AND BY AGE OF INFANT, STATE OF WASHINGTON, 1948



Percentage distribution of infant deaths
by age of infant, Washington, 1948

TABLE 27

DEATHS OF INFANTS UNDER ONE YEAR OF AGE IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON FOR FIVE YEARS WITH TOTALS AND RATES PER 1,000 LIVEBIRTHS, ALLOCATED TO RESIDENCE OF MOTHER, 1944 - 1948

County or City	1944	1945	1946	1947	1948	Total	5 year rate
Adams	4	7	3	6	7	27	42.7
Asotin	2	4	4	5	5	20	26.7
Benton	19	21	29	22	32	123	31.8
Chelan	23	28	34	38	38	161	35.4
Rural	15	19	18	22	21	95	32.4
Wenatchee	8	9	16	16	17	66	40.6
Clallam	19	12	13	25	22	91	31.1
Rural	9	8	4	6	11	38	27.4
Port Angeles	10	4	9	19	11	53	34.4
Clark	77	73	71	69	55	345	31.1
Rural	48	47	42	39	39	215	27.4
Vancouver	29	26	29	30	16	130	40.0
Columbia	2	2	2	3	4	13	25.1
Cowlitz	27	32	32	39	29	159	27.0
Rural	12	13	22	19	20	86	25.0
Longview	15	19	10	20	9	73	29.9
Douglas	4	2	6	3	6	21	24.1
Ferry	4	0	2	0	3	9	22.4
Franklin	17	23	16	8	13	77	52.1
Garfield	2	2	2	4	3	13	43.9
Grant	1	6	11	16	12	46	27.7
Grays Harbor	37	40	50	49	44	220	38.2
Rural	17	20	21	25	23	106	45.1
Aberdeen	13	10	19	15	12	69	31.1
Hoquiam	7	10	10	9	9	45	37.6
Island	5	1	7	4	6	23	26.4
Jefferson	4	7	9	5	14	39	31.7
King	408	426	505	474	456	2269	28.4
Rural	164	147	197	190	199	897	30.0
Seattle	244	279	308	284	257	1372	27.4
Kitsap	71	96	93	77	52	389	29.8
Rural	37	42	46	43	28	196	29.2
Bremerton	34	54	47	34	24	193	30.3
Kittitas	11	21	26	12	14	84	36.2
Klickitat	7	10	4	11	5	37	32.6
Lewis	21	27	27	37	26	138	30.3
Lincoln	5	4	10	15	11	45	41.6
Mason	8	7	6	8	6	35	22.2
Okanogan	27	17	27	16	29	116	35.9
Pacific	14	7	8	13	12	54	31.2
Pend Oreille	8	4	3	8	3	26	38.4
Pierce	152	179	168	163	149	811	30.8
Rural	60	67**	63	68**	49	307	31.9
Tacoma	92	112	105	95	100	504	30.1
San Juan	1	1	0	4	0	6	24.3
Skagit	31	25	44	27	34	161	36.5

TABLE 27 (Continued)

DEATHS OF INFANTS UNDER ONE YEAR OF AGE IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON FOR FIVE YEARS WITH TOTALS AND RATES PER 1,000 LIVEBIRTHS, ALLOCATED TO RESIDENCE OF MOTHER, 1944 - 1948

County or City	1944	1945	1946	1947	1948	Total	5 year rate
Skamania	0	1	2	1	1	5	14.0
Snohomish	56	54	73	71	93	347	30.9
Rural	31	30	48	33	55	197	29.5
Everett	25	24	25	38	38	150	33.0
Spokane	113	123	153	160	118	667	29.4
Rural	24	20	36	29	30	139	27.3
Spokane	89	103	117	131	88	528	30.0
Stevens	17	14	11	7	16	65	35.4
Thurston	22	20	32	29	23	126	26.1
Rural	10	7	11	13	12	53	18.5
Olympia	12	13	21	16	11	73	37.4
Wahkiakum	5	2	8	3	3	21	57.7
Walla Walla	26	24	29	15	18	112	27.8
Rural	2	9	10	4	8	33	24.1
Walla Walla	24	15	19	11	10	79	29.6
Whatcom	43	38	53	45	38	217	30.6
Rural	18	9	25	19	19	90	28.7
Bellingham	25	29	28	26	19	127	32.2
Whitman	20	16	22	27	24	109	35.8
Yakima	181	147	128	111	101	668	42.6
Rural	128	101	88	85	63	465	45.4
Yakima	53	46	40	26	38	203	37.3
URBAN TOTAL	680	753	803	770	659	3665	30.1
RURAL TOTAL	814	770**	920	860**	866	4230	31.9
GRAND TOTAL	1494	1523	1723	1630	1525	7895	31.1

** Includes two deaths in Western State Custodial School.

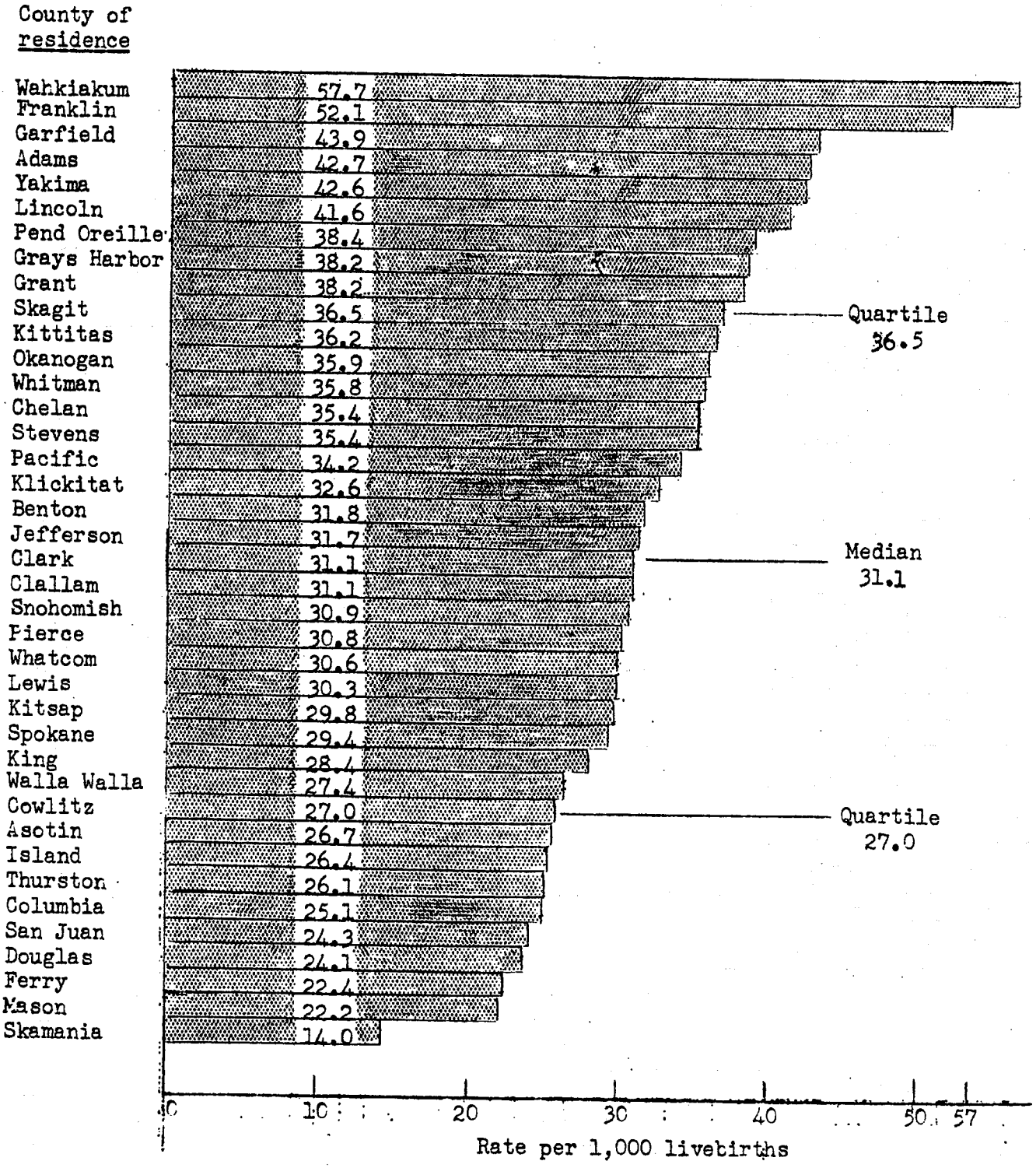


FIGURE 15 - FIVE-YEAR AVERAGE INFANT MORTALITY RATES BY RANK FROM HIGHEST TO LOWEST IN THE COUNTIES (CITIES INCLUDED) OF THE STATE OF WASHINGTON, 1944 - 1948

TABLE 28

MATERNAL MORTALITY IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 1,000 LIVEBIRTHS, ALLOCATED TO RESIDENCE OF DECEDENT, AND BY PLACE OF OCCURRENCE, 1948

County or City	Residence		Occurrence	
	No.	Rate	No.	Rate
Adams	0	0.0	0	0.0
Asotin	1	7.6	0	0.0
Benton	2	1.6	0	0.0
Rural	1	1.4	0	0.0
Richland	1	1.9	0	0.0
Chelan	0	0.0	0	0.0
Rural	0	0.0	0	0.0
Wenatchee	0	0.0	0	0.0
Clallam	0	0.0	0	0.0
Rural	0	0.0	0	0.0
Port Angeles	0	0.0	0	0.0
Clark	0	0.0	0	0.0
Rural	0	0.0	0	0.0
Vancouver	0	0.0	0	0.0
Columbia	0	0.0	0	0.0
Cowlitz	0	0.0	0	0.0
Rural	0	0.0	0	0.0
Longview	0	0.0	0	0.0
Douglas	1	4.7	0	0.0
Ferry	0	0.0	0	0.0
Franklin	0	0.0	1	1.4
Garfield	0	0.0	0	0.0
Grant	0	0.0	0	0.0
Grays Harbor	1	0.7	1	0.7
Rural	0	0.0	0	0.0
Aberdeen	1	2.0	1	0.8
Hoquiam	0	0.0	0	0.0
Island	0	0.0	0	0.0
Jefferson	0	0.0	0	0.0
King	10	0.6	12	0.7
Rural	2	0.3	1	0.8
Renton	0	0.0	0	0.0
Seattle	8	0.8	11	0.7
Kitsap	2	1.0	3	1.5
Rural	0	0.0	0	0.0
Bremerton	2	1.9	3	1.6
Kittitas	0	0.0	0	0.0
Klickitat	0	0.0	0	0.0
Lewis	1	1.0	1	1.0
Lincoln	1	4.3	0	0.0
Mason	1	2.8	0	0.0
Okanogan	1	1.2	1	1.1
Pacific	0	0.0	0	0.0
Pend Oreille	0	0.0	0	0.0
Pierce	3	0.5	3	0.5
Rural	0	0.0	0	0.0
Puyallup	1	5.1	1	2.4
Tacoma	2	0.6	2	0.4

TABLE 28 (Continued)

MATERNAL MORTALITY IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 1,000 LIVEBIRTHS, ALLOCATED TO RESIDENCE OF DECEDENT, AND BY PLACE OF OCCURRENCE, 1948

County or City	Residence		Occurrence	
	No.	Rate	No.	Rate
San Juan	0	0.0	0	0.0
Skagit	0	0.0	1	1.0
Skamania	0	0.0	0	0.0
Snohomish	2	0.8	1	0.4
Rural	1	0.7	0	0.0
Everett	1	1.0	1	0.6
Spokane	5	1.0	9	1.5
Rural	2	1.7	1	25.6
Spokane	3	0.7	8	1.4
Stevens	1	2.3	1	2.4
Thurston	0	0.0	0	0.0
Rural	0	0.0	0	0.0
Olympia	0	0.0	0	0.0
Wahkiakum	0	0.0	0	0.0
Walla Walla	0	0.0	0	0.0
Rural	0	0.0	0	0.0
Walla Walla	0	0.0	0	0.0
Whatcom	2	1.3	2	1.3
Rural	0	0.0	0	0.0
Bellingham	2	2.2	2	1.3
Whitman	0	0.0	1	1.5
Yakima	2	0.5	2	0.5
Rural	2	0.9	1	0.8
Yakima	0	0.0	1	0.4
URBAN TOTAL	21	0.8	30	0.7
RURAL TOTAL	15	0.5	9	0.7
GRAND TOTAL	36	0.6	39	0.7

TABLE 29

MATERNAL MORTALITY IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY CAUSE OF DEATH, ALLOCATED TO RESIDENCE OF DECEDENT, 1948

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)	Total
Adams												0
Asotin								1				1
Benton					1						1	2
Rural											1	1
Richland					1							1
Chelan												0
Rural												0
Wenatchee												0
Clallam												0
Rural												0
Port Angeles												0
Clark												0
Rural												0
Vancouver												0
Columbia												0
Cowlitz												0
Rural												0
Longview												0
Douglas									1			1
Ferry												0
Franklin												0
Garfield												0
Grant												0
Grays Harbor			1									1
Rural												0
Aberdeen			1									1
Hoquiam												0
Island												0
Jefferson												0
King	1					1	3	4	1			10
Rural						1	1					2
Renton												0
Seattle	1						2	4	1			8
Kitsap					1	1						2
Rural												0
Bremerton					1	1						2
Kittitas												0
Klickitat												0
Lewis					1							1

TABLE 29 (Continued)

MATERNAL MORTALITY IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY CAUSE OF DEATH, ALLOCATED TO RESIDENCE OF DECEDENT, 1948

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)	Total
Lincoln									1			1
Mason							1					1
Okanogan					1							1
Pacific												0
Pend Oreille												0
Pierce				1					1	1		3
Rural												0
Puyallup				1								1
Tacoma									1	1		2
San Juan												0
Skagit												0
Skamania												0
Snohomish							1		1			2
Rural									1			1
Everett							1					1
Spokane	1		1			2	1					5
Rural						1	1					2
Spokane	1		1			1						3
Stevens									1			1
Thurston												0
Rural												0
Olympia												0
Wahkiakum												0
Walla Walla												0
Rural												0
Walla Walla												0
Whatcom							1	1				2
Rural												0
Bellingham							1	1				2
Whitman												0
Yakima							2					2
Rural							2					2
Yakima												0
URBAN TOTAL	2	0	2	1	2	2	4	5	2	1	0	21
RURAL TOTAL	0	0	0	0	2	2	5	1	4	0	1	15
GRAND TOTAL	2	0	2	1	4	4	9	6	6	1	1	36

TABLE 30

MATERNAL DEATHS, BY CAUSE OF DEATH AND BY AGE GROUPS, WITH PERCENTAGES OF THE TOTAL, ALLOCATED TO RESIDENCE OF DECEDENT, STATE OF WASHINGTON, 1948

Age Group	Total	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. and accidents of preg. (death before delivery) (145)	Hemorrhage of childbirth & 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 & unspec. conditions of childbirth & the puerperium (150)
Under 15 years	0											
- 19 years	0											
20 - 24 years	14			1		2	3	1	1	4	1	1
25 - 29 years	10	1			1			4	3	1		
30 - 34 years	5	1				1	1	2				
35 - 39 years	4			1				1	1	1		
40 - 44 years	3					1		1	1			
45 - 49 years	0											
50 years and over	0											
Unknown age	0											
Total	36	2	0	2	1	4	4	9	6	6	1	1
Percent of Total	100.0	5.5	0.0	5.5	2.8	11.1	11.1	25.0	16.7	16.7	2.8	2.8

TABLE 31

MATERNAL MORTALITY IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE GROUPS, WITH PERCENTAGES OF GRAND TOTAL, ALLOCATED TO RESIDENCE OF DECEDENT, 1948

County or City	15-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45 years and over	Total
Adams								0
Asotin			1					1
Benton		2						2
Rural		1						1
Richland		1						1
Chelan								0
Rural								0
Wenatchee								0
Clallam								0
Rural								0
Port Angeles								0
Clark								0
Rural								0
Vancouver								0
Columbia								0
Cowlitz								0
Rural								0
Longview								0
Douglas			1					1
Ferry								0
Franklin								0
Garfield								0
Grant								0
Grays Harbor		1						1
Rural								0
Aberdeen		1						1
Hoquiam								0
Island								0
Jefferson								0
King		2	4	1	2	1		10
Rural		1	1					2
Renton								0
Seattle		1	3	1	2	1		8
Kitsap		1				1		2
Rural								0
Bremerton		1				1		2
Kittitas								0
Klickitat								0
Lewis				1				1
Lincoln		1						1
Mason			1					1
Okanogan		1						1
Pacific								0
Pend Oreille								0
Pierce		2	1					3
Rural								0
Puyallup			1					1
Tacoma		2						2

TABLE 31 (Continued)

MATERNAL MORTALITY IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE GROUPS, WITH PERCENTAGES OF GRAND TOTAL, ALLOCATED TO RESIDENCE OF DECEDENT, 1948

County or City	15-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45 years and over	Total
San Juan								0
Skagit								0
Skamania								0
Snohomish		2						2
Rural		1						1
Everett		1						1
Spokane		1	1	2	1			5
Rural		1		1				2
Spokane			1	1	1			3
Stevens					1			1
Thurston								0
Rural								0
Olympia								0
Wahkiakum								0
Walla Walla								0
Rural								0
Walla Walla								0
Whatcom		1		1				2
Rural								0
Bellingham		1		1				2
Whitman								0
Yakima			1			1		2
Rural			1			1		2
Yakima								0
URBAN TOTAL	0	8	5	3	3	2	0	21
RURAL TOTAL	0	6	5	2	1	1	0	15
GRAND TOTAL	0	14	10	5	4	3	0	36
Percent of Total	0.0	38.9	27.8	13.9	11.1	8.3	0.0	100.0

TABLE 32
MATERNAL MORTALITY BY RESIDENCE IN THE STATE OF WASHINGTON, BY AGE GROUP OF MOTHER, WITH FIVE-YEAR TOTALS AND PERCENTAGES, 1944 - 1948

Age Group	1944	1945	1946	1947	1948	Total	Percent of total
All ages	72	79	65	59	36	311	100.0
15 - 19 years	8	7	3	4	0	22	7.1
20 - 24 years	14	13	14	14	14	69	22.2
25 - 29 years	17	26	11	15	10	79	25.4
30 - 34 years	18	11	19	11	5	64	20.6
35 - 39 years	8	17	12	6	4	47	15.1
40 years & over	7	5	6	9	3	30	9.6

TABLE 33
MATERNAL MORTALITY BY RESIDENCE IN THE STATE OF WASHINGTON, BY CAUSE, FOR FIVE YEARS WITH PERCENTAGES OF GRAND TOTAL, 1944 - 1948

Cause	1944	1945	1946	1947	1948	Total	Percent of total
1 causes	72	79	65	59	36	311	100.0
Abortion with mention of infection (140)	7	9	4	4	2	26	8.4
Abortion without mention of infection (141)	8	5	6	0	0	19	6.1
Ectopic gestation (142)	4	2	5	3	2	16	5.1
Hemorrhage of pregnancy (death before delivery) (143)	1	1	3	4	1	10	3.2
Toxemias of pregnancy (death before delivery) (144)	5	8	1	9	4	27	8.7
Other dis. and accidents of preg. (death before delivery) (145)	4	3	3	2	4	16	5.1
Hemorrhage of childbirth and the puerperium (146)	9	14	14	10	9	56	18.0
Infection during childbirth and the puerperium (147)	13	19	9	9	6	56	18.0
Puerperal toxemias (excluding death before delivery) (148)	8	10	11	10	6	45	14.5
ıer accidents and specified ..nditions of childbirth (149)	13	8	7	8	1	37	11.9
Other and unspecified conditions of childbirth and the puerperium (150)	0	0	2	0	1	3	1.0

TABLE 34

MATERNAL MORTALITY IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON FOR FIVE YEARS, WITH TOTALS AND RATES PER 1,000 LIVEBIRTHS, ALLOCATED TO RESIDENCE OF DECEDENT, 1944 - 1948

County or City	1944	1945	1946	1947	1948	Total	5-year rate
Adams						0	0.0
Asotin					1	1	1.3
Benton			1	1	2	4	1.0
Chelan	2	4	1	1		8	1.8
Rural		4	1	1		6	2.0
Wenatchee	2					2	1.2
Clallam	2	3	1	1		7	2.4
Rural	1	2				3	2.2
Port Angeles	1	1	1	1		4	2.6
Clark	5	7	1	4		17	1.5
Rural	4	6	1	3		14	1.8
Vancouver	1	1		1		3	0.9
Columbia	2					2	3.9
Cowlitz	1	1	2			4	0.7
Rural		1	1			2	0.6
Longview	1		1			2	0.8
Douglas	1	1			1	3	3.4
Ferry						0	0.0
Franklin			1	2		3	2.0
Garfield			1			1	3.4
Grant		1				1	0.6
Grays Harbor		1	3	3	1	8	1.4
Rural		1	1			2	0.9
Aberdeen			2	2	1	5	2.3
Hoquiam				1		1	0.8
Island				1		1	1.1
Jefferson	2					2	1.6
King	17	32	19	17	10	95	1.2
Rural	1	10	5	8	2	26	0.9
Seattle	16	22	14	9	8	69	1.4
Kitsap	4	2	4	1	2	13	1.0
Rural	4		2			6	0.9
Bremerton		2	2	1	2	7	1.1
Kittitas	2		1			3	1.3
Klickitat		2				2	1.8
Lewis	3	2	1	3	1	10	2.2
Lincoln		2			1	3	2.8
Mason	1	1			1	3	1.9
Okanogan	1				1	2	0.6
Pacific		1	1	1		3	1.9
Pend Oreille						0	0.0
Pierce	4	5	4	3	3	19	0.7
Rural	2	1	1	2	1	7	0.7
Tacoma	2	4	3	1	2	12	0.7
San Juan						0	0.0
Skagit	5			2		7	1.6

TABLE 34 (Continued)

MATERNAL MORTALITY IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON FOR FIVE YEARS, WITH TOTALS AND RATES PER 1,000 LIVEBIRTHS, ALLOCATED TO RESIDENCE OF DECEDENT, 1944 - 1948

County or City	1944	1945	1946	1947	1948	Total	5-year rate
Skamania						0	0.0
Snohomish	3	1	2	3	2	11	1.0
Rural	3	1	1	3	1	9	1.3
Everett			1		1	2	0.4
Spokane	6	8	6	7	5	32	1.4
Rural	3	2	3	3	2	13	2.6
Spokane	3	6	3	4	3	19	1.1
Stevens			1		1	2	1.1
Thurston		1	1	1		3	0.6
Rural				1		1	0.3
Olympia		1	1			2	1.0
Wahkiakum						0	0.0
Walla Walla	1	1	3	1		6	1.5
Rural		1	2			3	2.2
Walla Walla	1		1	1		3	1.1
Whatcom	1	1	3	2	2	9	1.3
Rural		1	1	1		3	1.0
Bellingham	1		2	1	2	6	1.5
Whitman	1		1	3		5	1.6
Yakima	8	2	7	2	2	21	1.3
Rural	7		5	2	2	16	1.6
Yakima	1	2	2			5	0.9
URBAN TOTAL	29	39	33	22	19	142	1.2
RURAL TOTAL	43	40	32	37	17	169	1.3
GRAND TOTAL	72	79	65	59	36	311	1.2

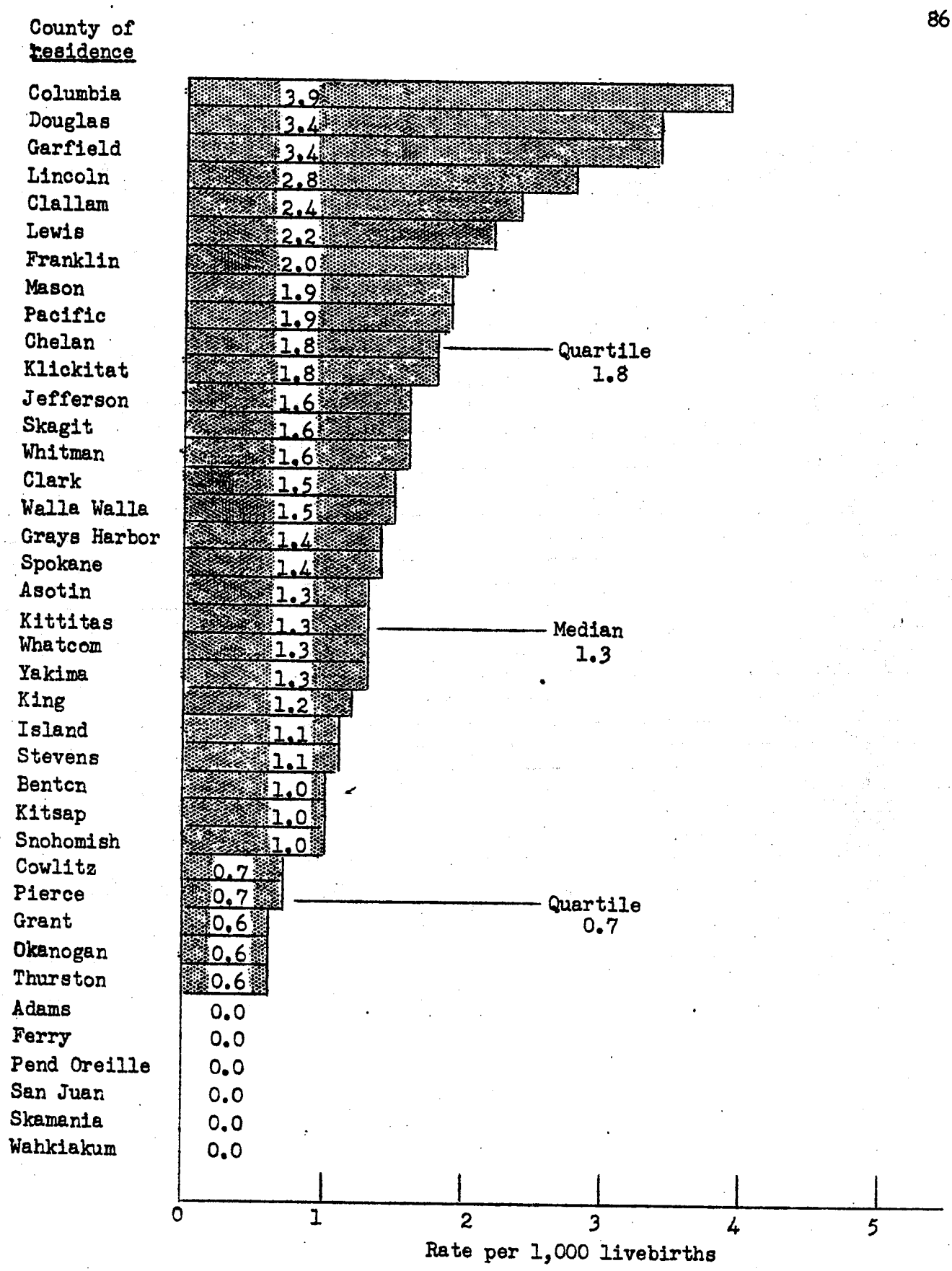


FIGURE 16 - FIVE-YEAR AVERAGE MATERNAL MORTALITY RATES BY RANK FROM HIGHEST TO LOWEST IN THE COUNTIES (CITIES INCLUDED) OF THE STATE OF WASHINGTON, 1944 - 1948

TABLE 35

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, 1948

County or City	Residence		Occurrence	
	Number	Rate	Number	Rate
Adams	3	20.3	2	17.2
Asotin	1	7.6	1	6.7
Benton	15	12.2	10	9.8
Rural	8	11.4	2	7.9
Richland	7	13.3	8	10.4
Chelan	20	18.5	25	19.1
Rural	16	22.7	5	22.4
Wenatchee	4	10.6	20	18.4
Clallam	8	11.7	8	12.3
Rural	5	14.0	1	13.2
Port Angeles	3	9.1	7	12.2
Clark	34	15.8	36	16.4
Rural	26	18.6	2	7.7
Vancouver	8	10.7	34	17.6
Columbia	2	17.2	2	19.2
Cowlitz	12	8.0	14	8.5
Rural	8	9.6	1	33.3
Longview	4	6.0	13	8.1
Douglas	3	14.2	0	0.0
Ferry	2	19.2	0	0.0
Franklin	4	11.8	10	13.8
Garfield	0	0.0	0	0.0
Grant	8	18.5	0	0.0
Grays Harbor	21	15.3	22	16.4
Rural	11	18.9	1	7.0
Aberdeen	8	15.6	21	17.5
Hoquiam	2	7.3	0	0.0
Island	3	17.9	4	14.3
Jefferson	3	10.2	3	11.9
King	279	16.6	282	16.1
Rural	85	13.5	18	13.6
Renton	10	15.8	15	12.2
Seattle	184	18.6	249	16.7
Kitsap	26	12.8	27	13.7
Rural	13	13.1	1	26.3
Bremerton	13	12.6	26	13.5
Kittitas	12	21.7	11	19.6
Klickitat	3	9.9	1	4.5
Lewis	7	7.3	7	7.0
Lincoln	2	8.7	0	0.0
Mason	2	5.6	1	3.0
Okanogan	8	9.8	9	10.1
Pacific	5	13.6	4	12.9
Pend Oreille	1	6.6	0	0.0
Pierce	68	12.4	73	11.8
Rural	18	9.7	10	9.5
Puyallup	3	15.2	5	12.0
Tacoma	47	13.7	58	12.3

TABLE 35 (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, 1948

County or City	Residence		Occurrence	
	Number	Rate	Number	Rate
San Juan	0	0.0	0	0.0
Skagit	19	20.4	16	16.6
Skamania	3	33.0	0	0.0
Snohomish	29	11.4	28	12.3
Rural	17	11.1	7	13.6
Everett	12	12.0	21	11.9
Spokane	78	14.8	87	14.8
Rural	17	14.1	1	25.6
Spokane	61	15.1	86	14.7
Stevens	4	9.2	8	19.3
Thurston	10	9.1	10	10.1
Rural	7	10.2	1	31.3
Olympia	3	7.4	9	9.4
Wahkiakum	1	13.0	0	0.0
Walla Walla	8	9.4	13	11.1
Rural	3	8.8	0	0.0
Walla Walla	5	9.7	13	11.1
Whatcom	18	11.4	22	13.8
Rural	9	13.0	1	11.8
Bellingham	9	10.1	21	13.9
Whitman	3	4.1	1	1.5
Yakima	51	13.6	53	14.4
Rural	33	14.5	23	18.6
Yakima	18	12.2	30	12.3
URBAN TOTAL	401	14.9	636	14.4
RURAL TOTAL	375	13.1	154	11.9
GRAND TOTAL	776	14.0	790	13.8

TABLE 36

STILLBIRTHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY CAUSE, ALLOCATED TO MOTHER'S RESIDENCE, 1948

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
Adams			1		1	1	3
Asotin	1						1
Benton	6		2	4	1	2	15
Rural	2		2	1	1	2	8
Richland	4			3			7
Chelan	8	3	5		2	2	20
Rural	7	3	3		2	1	16
Wenatchee	1		2			1	4
Clallam	5	1				2	8
Rural	4	1					5
Port Angeles	1					2	3
Clark	14	5	3	2	3	7	34
Rural	10	5	2	2	2	5	26
Vancouver	4		1		1	2	8
Columbia	1				1		2
Cowlitz	2		1	1	4	4	12
Rural	1		1	1	2	3	8
Longview	1				2	1	4
Douglas				2	1		3
Ferry				2			2
Franklin				1		3	4
Garfield							0
Grant	5		1		2		8
Grays Harbor	8	1	7		4	1	21
Rural	4		4		2	1	11
Aberdeen	4	1	2		1		8
Hoquiam			1		1		2
Island			2	1			3
Jefferson		1		1		1	3
King	92	34	56	13	51	33	279
Rural	27	12	15	6	15	10	85
Renton	6	2	1		1		10
Seattle	59	20	40	7	35	23	184
Kitsap	8	5	11		1	1	26
Rural	3	2	8				13
Bremerton	5	3	3		1	1	13
Kittitas	4	2	2		2	2	12
Klickitat		1	1		1		3
Lewis	5		1		1		7
Lincoln	2						2
Mason		1				1	2
Okanogan	1	2	1		4		8
Pacific		1	2		1	1	5
and Oreille	1						1
Pierce	21	8	20	1	7	11	68
Rural	4	2	5	1	3	3	18
Puyallup		1	1			1	3
Tacoma	17	5	14		4	7	47

TABLE 36 (Continued)

STILLBIRTHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY CAUSE, ALLOCATED TO MOTHER'S RESIDENCE, 1948

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
San Juan							0
Skagit	7		4		3	5	19
Skamania	1		2				3
Snohomish	9	1	10	3	1	5	29
Rural	7	1	7		1	1	17
Everett	2		3	3		4	12
Spokane	33	2	17	5	14	7	78
Rural	6		5	1	4	1	17
Spokane	27	2	12	4	10	6	61
Stevens	1	1	1			1	4
Thurston			2		1	7	10
Rural			2		1	4	7
Olympia						3	3
Wahkiakum	1						1
Walla Walla	3	2	1		1	1	8
Rural	1	1	1				3
Walla Walla	2	1			1	1	5
tcom	9	1	2		1	5	18
ural	4	1				4	9
Bellingham	5		2		1	1	9
Whitman	2					1	3
Yakima	16	6	15	2	3	9	51
Rural	11	5	9	2	2	4	33
Yakima	5	1	6		1	5	18
URBAN TOTAL	143	36	88	17	59	58	401
RURAL TOTAL	123	42	82	21	52	55	375
GRAND TOTAL	266	78	170	38	111	113	776
Percent of Total	34.3	10.1	21.9	4.9	14.3	14.6	100.0

TABLE 37

STILLBIRTHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE AND RESIDENCE OF MOTHER, 1948

County or City	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & over	Un-known age	Total
Adams			1	1	1					3
Asotin					1					1
Benton		3	5	4	2		1			15
Rural		2	3	2	1					8
Richland		1	2	2	1		1			7
Chelan		2	6	2	4	3	3			20
Rural		2	4	2	3	2	3			16
Wenatchee			2		1	1				4
Clallam			2	2	3		1			8
Rural			2	1	1		1			5
Port Angeles				1	2					3
Clark		3	9	11	5	4	1		1	34
Rural		3	7	8	3	4	1			26
Vancouver			2	3	2				1	8
Columbia				1			1			2
Cowlitz		5	1		4	2				12
Rural		5			2	1				8
Longview			1		2	1				4
Douglas					1	1	1			3
Ferry				2						2
Franklin			1			2	1			4
Garfield										0
Grant			1	1	1	4	1			8
Grays Harbor		1	6	6	7	1				21
Rural			2	5	3	1				11
Aberdeen		1	3	1	3					8
Hoquiam			1		1					2
Island			1			2				3
Jefferson		1	1		1					3
King		11	69	87	65	33	9		5	279
Rural		2	19	24	17	15	5		3	85
Renton			5	4			1			10
Seattle		9	45	59	48	18	3		2	184
Kitsap		2	8	7	6	1	1	1		26
Rural		2	4	2	4			1		13
Bremerton			4	5	2	1	1			13
Kittitas			2	6	2	2				12
Klickitat			1	1			1			3
Lewis			2	2		2	1			7
Lincoln				1		1				2
Mason				2						2
Okanogan			1	1	2	4				8
Pacific		1	1	2	1					5
Pend Oreille			1							1
Pierce	1	3	20	17	14	11	2			68
Rural		1	4	5	5	3				18
Puyallup				2	1					3
Tacoma	1	2	16	10	8	8	2			47

TABLE 37 (Continued)

STILLBIRTHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE AND RESIDENCE OF MOTHER, 1948

County or City	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & over	Un-known age	Total
San Juan										0
Skagit		1	4	3	7	3	1			19
Skamania					3					3
Snohomish		1	2	10	9	4	3			29
Rural		1	1	4	7	2	2			17
Everett			1	6	2	2	1			12
Spokane		9	20	27	12	8	2			78
Rural		2	5	5	4		1			17
Spokane		7	15	22	8	8	1			61
Stevens		1	1	1	1					4
Thurston			2	1	3	1	2		1	10
Rural			1	1	2	1	1		1	7
Olympia			1		1		1			3
Wahkiakum					1					1
Walla Walla		1	3	2	1	1				8
Rural			2	1						3
Walla Walla		1	1	1	1	1				5
Whatcom		2	3	7	2	4				18
Rural		2	2	2	2	1				9
Bellingham			1	5		3				9
Whitman				1			1	1		3
Yakima		8	18	8	5	9	2	1		51
Rural		5	12	3	4	6	2	1		33
Yakima		3	6	5	1	3				18
URBAN TOTAL	1	24	106	126	84	46	11	0	3	401
RURAL TOTAL	0	31	86	90	80	57	24	3	4	375
GRAND TOTAL	1	55	192	216	164	103	35	3	7	776
Percent of Total	0.1	7.1	24.7	27.8	21.1	13.3	4.5	0.4	0.9	100.0

TABLE 38

STILLBIRTHS BY RESIDENCE IN THE STATE OF WASHINGTON, BY AGE GROUP OF MOTHER, WITH THREE-YEAR TOTALS AND PERCENTAGES, 1946 - 1948

Age Group	1946	1947	1948	Three-Year Total	Percent of Total
All ages	869	907	776	2552	100.0
10 - 14 years	0	0	1	1	*
15 - 19 years	63	93	55	211	8.3
20 - 24 years	259	219	192	670	26.2
25 - 29 years	213	236	216	665	26.1
30 - 34 years	166	187	164	517	20.2
35 - 39 years	110	116	103	329	12.9
40 - 44 years	34	35	35	104	4.1
45 and over	4	4	3	11	0.4
Age not stated	20	17	7	44	1.7

* Less than 0.05 percent

TABLE 39

NUMBER OF STILLBIRTHS TO WASHINGTON RESIDENTS, BY CAUSE, THREE YEARS, WITH TOTALS AND PERCENTAGES OF TOTAL, 1946 - 1948

Cause	Number			Percent of Total		
	1946	1947	1948	1946	1947	1948
All causes	869	907	776	100.0	100.0	100.0
Diseases in, or accidents to mother	282	314	266	32.4	34.6	34.3
Anomalies of fetus, placenta or cord	80	94	78	9.2	10.4	10.1
Deaths of fetus by injury or other causes	190	219	170	21.9	24.1	21.9
Abortion, miscarriage or premature birth	109	65	38	12.5	7.2	4.9
Other specified causes	92	100	111	10.6	11.0	14.3
Cause unspecified or unknown	116	115	113	13.3	12.7	14.6

TABLE 40

STILLBIRTHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, FOR FIVE YEARS, WITH TOTALS AND RATES PER 1,000 LIVEBIRTHS, ALLOCATED TO RESIDENCE OF MOTHER, 1944 - 1948

County or City	1944	1945	1946	1947	1948	Total	5-year average rate
Adams	4	2	2		3	11	17.4
Asotin	1	1		4	1	7	9.3
Benton	7	3	8	11	15	44	11.4
Rural	7	3	8	11	15	44	11.4
Richland*							
Chelan	9	17	15	19	20	80	17.6
Rural	5	11	11	12	16	55	18.8
Wenatchee	4	6	4	7	4	25	15.4
Clallam	6	13	5	12	8	44	15.0
Rural	2	8	1	4	5	20	14.4
Port Angeles	4	5	4	8	3	24	15.6
Clark	33	27	28	39	34	161	14.5
Rural	24	22	18	21	26	111	14.1
Vancouver	9	5	10	18	8	50	15.4
Columbia	3		1	3	2	9	17.4
Cowlitz	8	11	28	19	12	78	13.3
Rural	7	5	22	11	8	53	15.4
Longview	1	6	6	8	4	25	10.2
Douglas	1	1	6	2	3	13	14.9
Ferry	2	2		4	2	10	24.9
Franklin	2	5	4	3	4	18	12.2
Garfield				1		1	3.4
Grant	3		4	8	8	23	13.8
Grays Harbor	19	20	22	20	21	102	17.7
Rural	10	7	11	9	11	48	20.4
Aberdeen	7	10	8	7	8	40	18.0
Hoquiam	2	3	3	4	2	14	11.7
Island	1	4	5	5	3	18	20.6
Jefferson	6	4	2	6	3	21	17.1
King	166	222	286	310	279	1263	15.8
Rural	49	70	88	108	95	410	13.7
Renton*							
Seattle	117	152	198	202	184	853	17.0
Kitsap	42	45	45	40	26	198	15.2
Rural	30	19	27	25	13	114	17.0
Bremerton	12	26	18	15	13	84	13.2
Kittitas	3	6	10	7	12	38	16.4
Klickitat	1	2	1	7	3	14	12.3
Lewis	14	9	13	13	7	56	12.3
Lincoln	2	2	4	3	2	13	12.0
Mason	7	3	4	5	2	21	13.3
Okanogan	11	5	12	10	8	46	14.2
Pacific	6	6	8	7	5	32	20.3
Pend Oreille	3	2	1	4	1	11	16.2
Pierce	70	63	110	86	68	397	15.1
Rural	26	25	43	30	21	145	15.1
Puyallup*							
Tacoma	44	38	67	56	47	252	15.0

TABLE 40 (Continued)

STILLBIRTHS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, FOR FIVE YEARS, WITH TOTALS AND RATES PER 1,000 LIVEBIRTHS, ALLOCATED TO RESIDENCE OF MOTHER, 1944 - 1948

County or City	1944	1945	1946	1947	1948	Total	5-year average rate
San Juan		1				1	4.0
Skagit	5	10	9	8	19	51	11.6
Skamania	1			2	3	6	16.9
Snohomish	27	19	35	39	29	149	13.3
Rural	15	10	27	22	17	91	13.6
Everett	12	9	8	17	12	58	12.8
Spokane	51	58	69	75	78	331	14.6
Rural	20	13	11	18	17	79	15.5
Spokane	31	45	58	57	61	252	14.3
Stevens	7	5	3	11	4	30	16.3
Thurston	9	13	23	10	10	65	13.5
Rural	4	4	12	2	7	29	9.8
Olympia	5	9	11	8	3	36	18.5
Wahkiakum				1	1	2	5.5
Walla Walla	9	10	13	16	8	56	13.9
Rural	5	3	5	5	3	21	15.3
Walla Walla	4	7	8	11	5	35	13.1
Whatcom	22	36	28	36	18	140	19.8
Rural	11	12	15	19	9	66	21.0
Bellingham	11	24	13	17	9	74	18.8
Whitman	2	3	10	3	3	21	6.9
Yakima	44	42	55	58	51	250	15.9
Rural	33	29	38	39	33	172	16.8
Yakima	11	13	17	19	18	78	14.3
URBAN TOTAL	274	358	433	454	381	1900	15.6
RURAL TOTAL	333	314	436	453	395	1931	14.6
GRAND TOTAL	607	672	869	907	776	3831	15.1

* No separate tabulation made on these cities, stillbirths included in rural part of county.

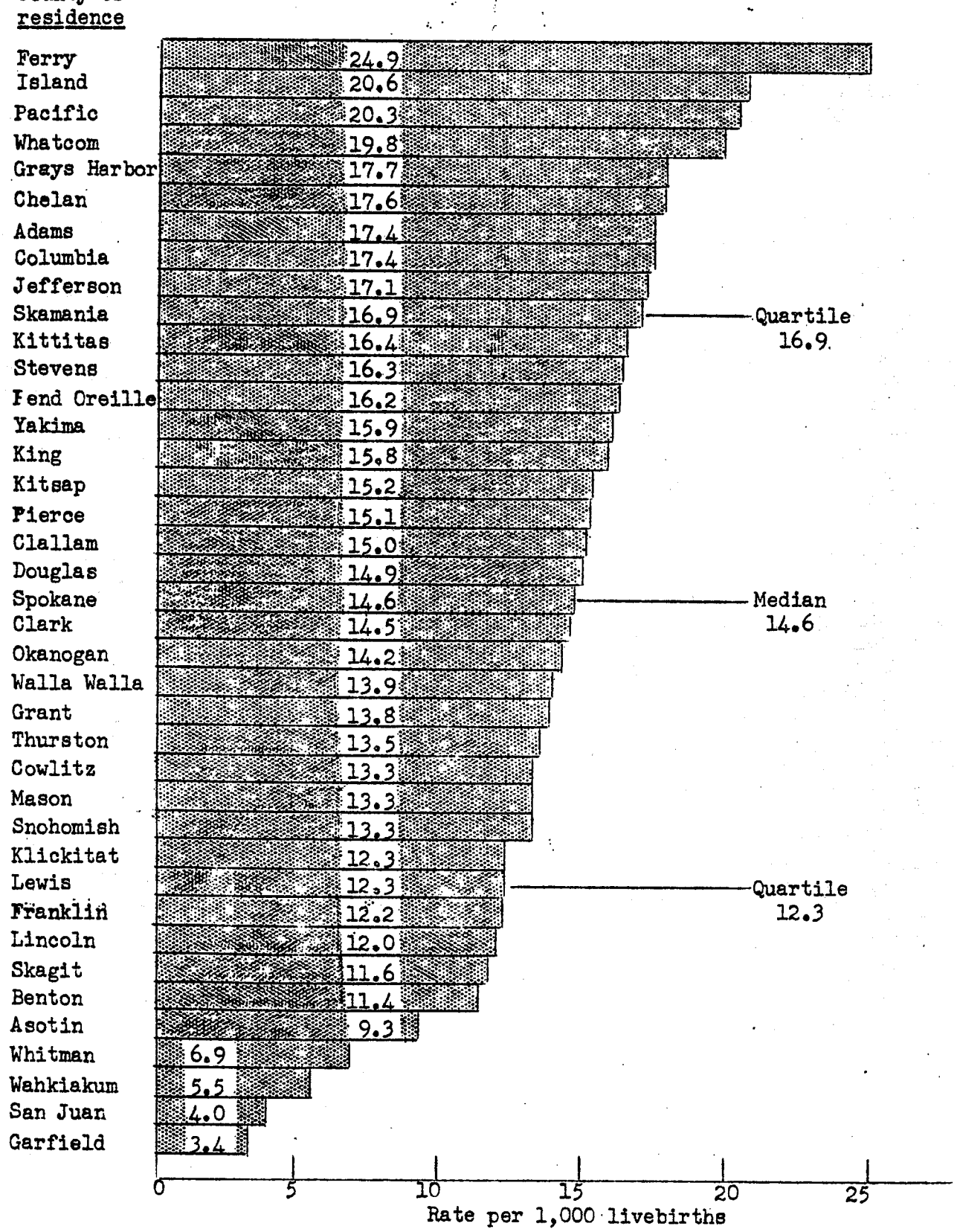


FIGURE 17 - FIVE-YEAR AVERAGE STILLBIRTH RATES BY RANK FROM HIGHEST TO LOWEST IN THE COUNTIES (CITIES INCLUDED) OF THE STATE OF WASHINGTON, 1944 - 1948

SECTION IV

* * * * *

ACCIDENTAL DEATHS

TABLE 41

NUMBER OF DEATHS FROM ACCIDENTAL CAUSES IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE GROUPS, ALLOCATED TO RESIDENCE OF DECEDENT, 1948

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	1	2		1	1	1					7
Asotin			1	1				2	1			5
Benton	8	1	5	5	2	5	1	1				28
Rural	8		3	1	1	2	1					16
Richland		1	2	4	1	3		1				12
Chelan	2	1	8	7	5	3	6	3	4			39
Rural	1	1	6	5	5	2	5	2	2			29
Wenatchee	1		2	2		1	1	1	2			10
Clallam	3	5	3	4	2	2	3	7	1			30
Rural	2	5	1	2	2	2	3	4				21
Port Angeles	1		2	2				3	1			9
Clark	15	3	4	6	4	6	1	3	6	9	1	58
Rural	12	3	4	1	1	4		1	3	8	1	38
Vancouver	3			5	3	2	1	2	3	1		20
Columbia	1			1								2
Cowlitz	2	2	9	9	3	4	9	4	3	3		48
Rural	2	2	5	5	3	1	7	3	1	2		31
Longview			4	4		3	2	1	2	1		17
Douglas		1	2		2		2	1		1		9
Ferry			1	2	1			2	1			7
Franklin	2		2		2		2		1			9
Garfield				1						1		2
Grant	4	3	3	2	4	2	1	2		1		22
Grays Harbor	9	3	6	13	8	9	14	15	9	3		89
Rural	5	1	3	7	6	3	7	4	3	1		40
Aberdeen	3	2	2	5	2	5	6	9	3	2		39
Hoquiam	1		1	1		1	1	2	3			10
Island							1		1	1		3
Jefferson	1	1	1	1		1	1	2	1			9
King	51	24	29	50	57	43	63	61	65	36		479
Rural	27	15	17	19	22	12	16	14	17	11		170
Renton	4	1		1	2	3	1					12
Seattle	20	8	12	30	33	28	46	47	48	25		297
Kitsap	6	4	5	3	3	2	4	10	8	1		46
Rural	3	3	3	1	3	2	2	7	7	1		32
Bremerton	3	1	2	2			2	3	1			14
Kittitas		1	4	2	3	2		5	1			18
Klickitat		2	1	3	1	1	1	2	1	2		14
Lewis	3	3	5	4	5	4	1	4	7	5		41
Lincoln		1		1			1			1		4
Mason	3	1	2	1	1	1		1	1	1		12
Okanogan	4	1	5	4	1	2	3	3		1		24
Pic	1		1	5	3	3	2	3	4			22
Pend Oreille			1	2		1				1		5
Pierce	18	6	17	9	17	12	18	33	28	9		167
Rural	9	2	9	4	7	6	4	5	7	3		56
Puyallup	1							2		1		4
Tacoma	8	4	8	5	10	6	14	26	21	5		107

TABLE 41 (Continued)

NUMBER OF DEATHS FROM ACCIDENTAL CAUSES IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE GROUPS, ALLOCATED TO RESIDENCE OF DECEDENT, 1948

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
San Juan		1	1	1				1			1	5
Skagit	3	1	5	1	4	3	4	2	7	2		32
Skamania					3	1		1				5
Snohomish	8	5	9	7	9	10	18	9	19	10		104
Rural	5	5	8	4	7	8	11	5	14	10		77
Everett	3		1	3	2	2	7	4	5			27
Spokane	14	8	12	16	15	13	17	18	18	16	1	148
Rural	7	4	4	5	4	2	3	5	4	6		44
Spokane	7	4	8	11	11	11	14	13	14	10	1	104
Stevens	1	3		2	2	3	1	1	2			15
Thurston	6	1	2	5	2	2	4	4	3	5		34
Rural	6	1	1	4	2	2	4	3	2	1		26
Olympia			1	1				1	1	4		8
Wahkiakum		2	1		1							4
Walla Walla	2	2	3	3	4	2	3	4	4	6	1	34
Rural		1	2	2	2	1		1		1		10
Walla Walla	2	1	1	1	2	1	3	3	4	5	1	24
Whatcom	2	1	8	1	5	6	7	5	4	5		44
Rural	2		1	1	4	4	2	4	2	1		21
Bellingham		1	7		1	2	5	1	2	4		23
Whitman	2	4		4	2	3	1	4	6	2		28
Yakima	12	9	23	11	8	6	8	6	9	4	1	97
Rural	8	5	18	6	5	5	3	6	4	2	1	63
Yakima	4	4	5	5	3	1	5		5	2		34
URBAN TOTAL	61	27	58	82	70	69	108	119	115	60	2	771
RURAL TOTAL	123	74	123	105	110	84	90	100	100	66	3	978
GRAND TOTAL	184	101	181	187	180	153	198	219	215	126	5	1749
Percent of total	10.5	5.8	10.3	10.7	10.3	8.7	11.3	12.5	12.3	7.2	0.3	100.0

TABLE 42

NUMBER OF DEATHS FROM ACCIDENTAL CAUSES BY TYPE AND PLACE OF ACCIDENT, WITH PERCENTAGES OF THE TOTAL OF ACCIDENTAL DEATHS, STATE OF WASHINGTON RESIDENTS, 1948

Cause of Accidental Death	Code No.	Place of Accident					
		Occupation	Home	Public Place	Farm	Unknown and not stated	Totals
Railway accidents	169	9		28			37
Motor vehicle accidents	170	26	5	482	1		514
Automobile and train	170a	1		10			11
Auto accident (except 170a)	170c	25	5	460	1		491
Motorcycle accidents	170d			12			12
Other road transport accidents	171b			1			1
Water transport accidents	172	4		20			24
Air-transport accidents	173	7		25			32
Accidents in mines and quarries	174	7		1			8
gricultural and forestry acc.	175	69	2	2	16		89
Agricultural machinery	175a		2	1	10		13
Injury by animals in agriculture	175b				2		2
Other agricultural accidents	175c	1			4		5
Forestry machinery	175d	12					12
Other forestry accidents	175e	56		1			57
All other machinery accidents	176	32	2				34
Absorption of poisonous gas	178	1	75	11		1	88
Illuminating gas	178a		61	1			62
Motor vehicle exhaust gas	178b	1	8	8			17
Other carbon monoxide gas	178c		2	2		1	5
Other poisonous gases	178x		4				4
Acute poisoning by solids or liquids	179		20			5	25
Arsenic and compounds	179a		1			1	2
Barbituric acids and deriv.	179b		6			2	8
Nux vomica and strychnine	179e		1				1

TABLE 42 (Continued)

NUMBER OF DEATHS FROM ACCIDENTAL CAUSES BY TYPE AND PLACE OF ACCIDENT, WITH PERCENTAGES OF THE TOTAL OF ACCIDENTAL DEATHS, STATE OF WASHINGTON RESIDENTS, 1948

Cause of Accidental Death	Code No.	Place of Accident					
		Occupation	Home	Public Place	Farm	Unknown and not Stated	Total
Menthanol and other alcohols	1790		4				4
Other and unspecified substances	179X		8			2	10
Conflagration	180		72	2			74
Accidental burns	181	6	37			1	44
Mechanical suffocation	182	5	38	1		1	45
Drowning	183	5	14	114			133
Injury by firearms	184	1	14	12			27
Injury by cutting or piercing instruments	185		1	1			2
Injury by fall	186A	22	317	64	1	8	412
Injury by crushing	186B	4	4	1			9
Injury by animal	188	1	1	1			3
Hunger or thirst	189		1				1
Excessive cold	190			4			4
Excessive heat	191			1	1		2
Lightning	192			1			1
Electric currents (except lightning)	193	13	1	2			16
Other accidents	195	22	43	7	1	51	124
Sequelae of preventive immunization, innoculation or vaccination	195A					1	1
Other accidents due to medical or surgical intervention	195B					1	1
Lack of care of newborn	195C					3	3
Obstruction by ingested objects	195D		29	1		16	46
Other and unspecified accidents	195E	22	14	6	1	30	73
All accidental deaths		234	647	781	20	67	1749
Percent of total		13.4	37.0	44.7	1.1	3.8	100.0

SECTION V

* * * *

CANCER MORTALITY

TABLE 43

CANCER MORTALITY RATES PER 100,000 ESTIMATED POPULATION, BY PRIMARY SITE, STATE OF WASHINGTON RESIDENTS: 1940 - 1948

Int. List No.	Primary Site of Cancer	1948	1947	1946	1945	1944	1943	1942	1941	1940
45	Cancer of buccal cavity and pharynx	3.4	3.3	3.1	2.4	3.2	3.4	2.6	3.9	3.8
46	Cancer of digestive organs and peritoneum	62.9	61.2	59.4	61.7	62.5	60.7	62.9	63.0	70.3
47	Cancer of respiratory system	12.5	12.8	10.0	8.0	8.1	8.9	8.3	8.4	7.9
48	Cancer of uterus	9.1	11.6	10.9	12.0	10.5	9.9	10.8	11.9	13.1
49	Cancer of other female genital organs	4.9	4.9	4.5	4.4	4.2	3.6	3.3	4.2	3.6
	Cancer of breast	13.9	15.4	13.0	13.0	12.0	11.8	12.9	11.3	14.2
51	Cancer of male genital organs	9.9	9.2	10.4	8.8	9.5	9.4	9.7	9.6	10.4
52	Cancer of urinary organs	7.8	7.0	6.6	6.6	5.6	6.5	6.4	6.1	7.5
53	Cancer of skin (except vulva and scrotum)	2.3	2.5	2.5	2.1	1.7	1.3	1.2	1.4	2.1
54	Cancer of brain and other parts of central nervous system	2.5	3.3	3.1	2.6	3.0	3.6	2.7	3.4	3.4
55	Cancer of other and unspecified organs	11.9	11.8	12.0	10.8	9.9	10.2	9.9	10.4	8.1
	All sites	141.2	143.2	135.4	132.4	130.1	129.3	130.7	133.6	144.4

TABLE 44

NUMBER OF CANCER DEATHS, BY PRIMARY SITE, TO RESIDENTS OF THE STATE OF WASHINGTON, 1940 - 1948

Int. List	Primary Site of Cancer	1948	1947	1946	1945	1944	1943	1942	1941	1940
45	CANCER OF BUCCAL CAVITY AND PHARYNX	74	69	64	50	63	67	49	71	66
a	Lip	13	9	6	7	9	12	9	15	16
b	Tongue	14	24	22	6	15	11	10	15	17
c	Mouth	10	7	9	5	6	9	8	12	5
d	Jaw bone	5	15	10	11	12	17	14	12	11
e	Unspecified parts of buccal cavity	2	2	-	-	2	5	3	5	8
f	Pharynx	30	12	17	21	19	13	5	12	9
46	CANCER OF DIGESTIVE ORGANS AND PERITONEUM	1351	1277	1217	1254	1242	1203	1191	1145	1223
a	Esophagus	38	28	37	26	43	39	35	25	35
b	Stomach	484	451	466	479	434	449	501	463	505
c	Duodenum	4	6	5	5	5	5	7	5	7
d	Rectum and anus	157	175	135	135	147	116	141	134	152
	Intestines (except duodenum and rectum)	334	297	294	298	317	314	273	261	299
f	Liver and biliary passages	150	145	133	152	165	164	124	120	142
g	Pancreas	148	142	118	133	115	107	103	130	75
h	Mesentery and peritoneum	18	24	14	12	16	7	7	6	8
m	Other and unspecified sites	18	9	15	14	-	2	-	1	-
47	CANCER OF RESPIRATORY SYSTEM	268	268	204	162	161	176	158	152	138
a	Larynx	24	21	16	12	17	21	14	20	12
b	Tachea	2	1	-	1	-	-	2	-	1
c	Bronchus	124	105	63	52	43	20	3	6	12
d	Lung	106	131	112	84	90	127	127	118	104
e	Pleura	2	3	1	3	8	1	1	1	-
f	Mediastinum and unspecified site	10	7	12	10	3	7	11	7	9
48	CANCER OF UTERUS	196	243	223	243	208	196	205	217	228
	Cervix	106	130	94	101	79	83	106	95	108
b	Other and unspecified sites	90	113	129	142	129	113	99	122	120

TABLE 44 (Continued)

NUMBER OF CANCER DEATHS, BY PRIMARY SITE, TO RESIDENTS OF THE STATE OF WASHINGTON, 1940 - 1948

Int. List	Primary Site of Cancer	1948	1947	1946	1945	1944	1943	1942	1941	1940
49	CANCER OF OTHER FEMALE GENITAL ORGANS	105	102	92	89	83	71	62	76	62
a	Ovary	93	94	79	73	72	62	58	70	48
b	Fallopian tube and parametrium	2	1	1	1	2	1	-	5	2
c	Vagina	3	-	3	5	5	2	1	1	4
d	Vulva	6	7	9	10	4	5	3	-	8
e	Other and unspecified sites	1	-	-	-	-	1	-	-	-
50	CANCER OF BREAST	299	321	267	264	238	234	245	205	248
51	CANCER OF MALE GENITAL ORGANS	213	192	213	178	188	186	183	175	181
a	Scrotum	-	-	-	-	2	2	2	1	2
b	Prostate	199	181	196	167	175	161	170	165	167
c	Testes	11	9	13	8	8	14	8	8	9
d	Penis	3	2	4	3	3	9	3	1	3
	Other and unspecified sites	-	-	-	-	-	-	-	-	-
52	CANCER OF URINARY ORGANS	168	147	136	135	112	129	122	110	130
a	Kidney	63	55	47	49	38	38	34	33	50
b	Bladder	100	91	88	84	74	90	86	75	77
c	Other and unspecified sites	5	1	1	2	-	1	2	2	3
53	CANCER OF SKIN (EXCEPT VULVA AND SCROTUM)	50	53	52	43	33	26	23	25	38
54	CANCER OF BRAIN AND OTHER PARTS OF CENTRAL NERVOUS SYSTEM	54	69	63	54	60	72	52	62	60
a	Glioma	28	42	40	30	28	40	20	29	26
b	Other and unspecified cancers of brain and cen. nervous system	26	27	23	24	32	32	32	33	34
55	CANCER OF OTHER AND UNSPECIFIED ORGANS	256	246	245	220	197	203	187	190	141
a	Adrenal gland	4	2	2	6	4	3	1	1	2
b	Bone (except jaw bone and accessory sinuses)	36	36	34	26	24	21	15	26	25
c	Thyroid gland	10	20	21	20	17	10	18	7	6
d	Nasal cavity and accessory sinuses	8	8	7	10	3	7	6	8	9
e	Other and unspecified organs	198	180	181	158	149	162	147	148	99
	ALL SITES	3034	2987	2776	2692	2585	2563	2477	2428	2515

E 45 - DEATHS FROM CANCER AND OTHER MALIGNANT ORS IN THE COUNTIES AND MAJOR CITIES OF THE STAT OF WASHINGTON, BY SEX AND AGE GROUPS, LOCATED TO RESIDENCE OF DECEDENT, 1948

County or City	All Ages		Under 15 years		15 to 24 years		25 to 34 years		35 to 44 years		45 to 54 years		55 to 64 years		65 to 74 years		75 and over	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Adams	1	1											1			1		
Asotin	6	4										1	3		2	2	1	1
Benton	11	11	1				1			1	3	5	3	2	2	2	1	1
Rural	10	6	1				1			1	3	1	2	2	2	1	1	1
Richland	1	5										4	1			1		
Chelan	24	23				1						7	6	6	9	5	9	4
Rural	12	13				1						4	4	4	4	1	4	3
Wenatchee	12	10										3	2	2	5	4	5	1
Clallam	11	13						1		1	2	3	5	2	2	4	2	2
Rural	7	3									2	1	3				2	2
Port Angeles	4	10						1		1		2	2	2	2	4		
Clark	53	36					1	2		3	2	4	13	10	20	10	17	7
Rural	36	15					1			1	2	3	7	4	12	5	14	2
Vancouver	17	21						2		2		1	6	6	8	5	3	5
Columbia	4	4										1	1	2	2		1	1
Cowlitz	18	22	1					2		2	1	4	3	9	6	5	7	
Rural	10	11						1		1	1	2		4	4	3	5	
Longview	8	11	1					1		1		2	3	5	2	2	2	
Douglas	4	-									1				1		2	
Ferry	4	1											3		1	1		
Franklin	6	4								1		1	1	1	5			1
Garfield	2	1											1		1	1		
Grant	12	3	1			1	2		1	1	2		1		2		3	1
Grays Harbor	42	35						1	2	2	6	5	12	10	10	10	12	7
Rural	21	14							2	2	3	4	5	2	6	3	5	3
Aberdeen	12	14									2		3	7	2	5	5	2
Hoquiam	9	7						1			1	1	4	1	2	2	2	2
Island	9	8									1	2	3	2	1	3	4	1
Jefferson	7	2											5	1	1		1	1
King	550	522	6	4	4	2	8	8	20	37	63	75	140	123	180	148	129	125
Rural	145	109	2			1	2	1	6	7	17	21	37	23	46	33	35	23
Renton	8	6							3			2	2	1	2	1	1	2
Seattle	397	407	4	4	4	1	6	7	11	30	46	52	101	99	132	114	93	100
Kitsap	53	35	1	1	1	1			2	2	11	4	13	7	13	7	12	13
Rural	37	24	1	1	1	1			1	2	9	1	10	6	9	7	6	6
Bremerton	16	11							1		2	3	3	1	4		6	7

LE 45 - DEATHS FROM CANCER AND OTHER MALIGNANT T ORS IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY SEX AND AGE GROUPS, LOCATED TO RESIDENCE OF DECEDENT, 1948

County or City	All Ages		Under 15 years		15 to 24 years		25 to 34 years		35 to 44 years		45 to 54 years		55 to 64 years		65 to 74 years		75 and* over	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Kittitas	16	13						1	1		1	4	5	3	1	3	8	2
Klickitat	10	4					1				1	2	1	2	3		4	
Lewis	41	28					1		1		2	4	4	10	16	9	17	5
Lincoln	7	8									1		1	1	2	4	3	3
Mason	5	12				1					1	2	2	4	2	1		4
Okanogan	13	19						2	1			5	2	5	4	2	6	5
Pacific	20	10					1			1	2	2	6	3	8	2	3	2
Pend Oreille	6	3				1				1	1		1		2	1	2	
Pierce	191	137	1	2			1	1	9	11	17	22	40	37	68	36	55	28
Rural	52	36		1						5	3	7	10	10	24	8	15	5
Puyallup	11	8							1			3	1	1	5	1	4	3
Tacoma	128	93	1	1			1	1	8	6	14	12	29	26	39	27	36	20
San Juan	3	2											2	1		1	1	
Skagit	20	13							1	2	2		7	2	3	4	7	5
Skamania	4	2		1							1		2			1	1	
Snohomish	86	80		1		1	1	1	5	3	4	10	19	17	35	27	22	20
Rural	50	49		1			1		3	1		6	11	11	24	18	11	12
Everett	36	31				1		1	2	2	4	4	8	6	11	9	11	8
Spokane	184	159	2		2		1	4	4	11	14	24	53	31	47	51	61	38
Rural	32	23	1		1			2	1	4		3	9		6	9	14	5
Spokane	152	136	1		1		1	2	3	7	14	21	44	31	41	42	47	33
Stevens	15	16									2		4	3	3	7	6	6
Thurston	29	31									4	4	5	9	11	10	9	8
Rural	16	15									4	3	3	2	5	7	4	3
Olympia	13	16										1	2	7	6	3	5	5
Wahkiakum	2	-											1		1			
Walla Walla	25	16	1					1	1		1	2	5	3	9	5	8	5
Rural	6	4	1						1					1	3	2	1	1
Walla Walla	19	12						1			1	2	5	2	6	3	7	4
Whatcom	45	54		1				1	2	1	5	11	11	17	9	14	18	9
Rural	19	19						1			4	3	4	6	5	6	6	3
Bellingham	26	35		1					2	1	1	8	7	11	4	8	12	6
Whitman	16	8								1	2	2	2	2	4		8	3
Yakima	80	59	1		1		1	2	1	4	10	13	27	12	24	18	15	10
Rural	44	33	1		1		1	1	1	1	5	10	13	6	13	10	9	5
Yakima	36	26						1		3	5	3	14	6	11	8	6	5

E 45 - DEATHS FROM CANCER AND OTHER MALIGNANT ORS IN THE COUNTIES AND MAJOR CITIES OF THE STAT OF WASHINGTON, BY SEX AND AGE GROUPS, ALLOCATED TO RESIDENCE OF DECEDENT, 1948

County or City	All Ages		Under 15 years		15 to 24 years		25 to 34 years		35 to 44 years		45 to 54 years		55 to 64 years		65 to 74 years		75 and* over	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
URBAN TOTAL	905	859	7	6	5	2	8	18	31	53	90	124	237	214	282	239	245	203
RURAL TOTAL	730	540	8	4	3	6	11	9	20	32	73	95	177	123	228	156	210	115
GRAND TOTAL	1635	1399	15	10	8	8	19	27	51	85	163	219	414	337	510	395	455	318

* Includes 3 of unknown age

SECTION VI

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TUBERCULOSIS MORBIDITY AND MORTALITY

CASES OF TUBERCULOSIS REPORTED IN THE STATE OF WASHINGTON BY AGE, RACE AND SEX
WITH MEDIAN AGE, 1948

Age Group	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	Un-known	M	F	Un-known	
Under 1 year	3				2											5			5
1 - 4 years	10	4		1	7	3					1					18	8		26
5 - 9 years	8	6		2	7						1					16	8		24
10 - 14 years	5	8		2	3	4							1			9	14		23
15 - 19 years	31	43	4	6	8	9				1				1		43	60		103
20 - 24 years	102	97	5	8	23	28	1	1	6	7	7		3	8		147	149		296
25 - 29 years	127	105	13	5	7	10	2	1	5	2	5	1	4	7		163	131		294
30 - 34 years	111	101	4	3	9	5	3	1	3	2	4		3	5		137	117		254
35 - 39 years	122	102	8	3	9	4	3			2	14		6	2		162	113		275
40 - 44 years	124	62	7	1	2	2	2		1	1	3		5	8		144	74		218
45 - 49 years	160	61	4		4	3		1	1	1	4		7	6		180	72		252
50 - 54 years	153	56	4	3	1	1	1			1			5	2		164	63		227
55 - 59 years	152	31	3	2	3	3	2		1				6	4		167	40		207
60 - 64 years	122	36		1	6	1		1	3		1		3	1		135	40		175
65 - 69 years	115	39	4	1	2		3		8				4	1		136	41		177
70 - 74 years	67	16	4		1		1		3				1	2		77	18		95
75 and over	71	37	1		2	1							4	1		78	39		117
Unknown	41	34		1	1	1							20	20		62	56		118
Total by sex	1524	838	61	39	97	75	18	5	31	17	40	1	72	68		1843	1043		2886
Median age	48.1	36.9	37.8	25.0	24.6	23.8	40.0	*	47.5	26.2	35.8	*	47.9	40.6		46.3	35.3		41.9

* Median age not calculated

TABLE 7

TUBERCULOSIS DEATHS IN THE STATE OF WASHINGTON, BY AGE, RACE AND SEX, WITH MEDIAN AGE, ALLOCATED TO RESIDENCE OF DECEDENT, 1948

Age Group	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	M	F	Unknown	
Under 1 year					1											1			1
1 - 4 years	5	2		1	5	1					1					11	4		15
5 - 9 years	1	3			1											2	3		5
10 - 14 years	2	3			1											3	3		6
15 - 19 years	3	5				1										3	6		9
20 - 24 years	5	10	1		5	3			1							12	13		25
25 - 29 years	13	10	1	2	1											15	12		27
30 - 34 years	22	16	1	1		1			1	1						24	19		43
35 - 39 years	22	15	1		1	1					2					26	16		42
40 - 44 years	23	15	4						1		1					29	15		44
45 - 49 years	33	8	1	1	1		1									36	9		45
50 - 54 years	38	12	2		1											41	12		53
55 - 59 years	42	4							1							43	4		47
60 - 64 years	35	7	2		1	1				1						38	9		47
65 - 69 years	39	11	1	1	1		1		1		1					44	12		56
70 - 74 years	30	8	2						1							33	8		41
75 and over	34	9			3											37	9		46
Unknown age																			
Total by sex	347	138	16	6	22	8	2	0	6	2	5	0	0	0	0	398	154	0	552
Median age	55.7	41.7	45.0	*	23.0	*	*	0.0	*	*	*	0.0	0.0	0.0	0.0	54.5	40.3	0.0	51.3

* Median age not calculated

TABLE 48

PORTED CASES OF PULMONARY TUBERCULOSIS, BY STAGE, AND NON-PULMONARY TUBERCULOSIS, BY COUNTY AND CITY CHARGED, STATE OF WASHINGTON, 1948

County or City	PULMONARY						Non Pulmonary	Tuberculosis (all forms)
	Minimal	Moderately advanced	Far advanced	Stage not stated	Pleurisy with effusion	Total		
Adams								
Asotin	1	2				3		3
Benton	8	5		6		19	2	21
Chelan	15	8	4	4		31		31
Rural	10	5	2	3		20		20
Wenatchee	5	3	2	1		11		11
Clallam	13	10	2	2		27	3	30
Rural	11	3	2			16	3	19
Port Angeles	2	7		2		11		11
Clark	70	22	18	13		123	5	128
Rural	32	14	5	6		57	4	61
Vancouver	38	8	13	7		66	1	67
Columbia								
Dlitz	40	24	11	7	1	83	1	84
Rural	26	16	10	4	1	57	1	58
Longview	14	8	1	3		26		26
Douglas	1	3	2			6	1	7
Ferry		3	2	2		7	1	8
Franklin	2	8	1	3		14	2	16
Garfield							1	1
Grant	1	2	4	4		11	1	12
Grays Harbor	11	18	11	3		43	2	45
Rural	5	6	5	1		17	1	18
Aberdeen	5	8	6	2		21	1	22
Hoquiam	1	4				5		5
Island		3	1	1		5		5
Jefferson	2	4	3	1	1	11	1	12
King	357	359	206	116	29	1067	56	1123
Rural	83	76	44	28	7	238	12	250
Seattle	274	283	162	88	22	829	44	873
Kitsap	31	25	9	6	1	72	6	78
Rural	20	15	7	4		46	3	49
Bremerton	11	10	2	2	1	26	3	29
Kittitas	2	1				3		3
Klickitat		1	2			3		3
Lewis	13	10	11	8	2	44	2	46
Lincoln	1					1		1
Mason	4	2	1			7		7
Okanogan	5	2	5	5		17	1	18
Pacific		6	1		1	8		8
Pend Oreille	1		2	3		6	1	7
Pierce	117	90	40	23	4	274	18	292
Rural	38	31	12	11	1	93	7	100
Tacoma	79	59	28	12	3	181	11	192

TABLE 48 (Continued)

'ORTED CASES OF PULMONARY TUBERCULOSIS, BY STAGE, AND NON-PULMONARY TUBERCULOSIS, BY COUNTY AND CITY CHARGED, STATE OF WASHINGTON, 1948

County or City	PULMONARY						Non Pulmonary	Tuberculosis (all forms)
	Minimal	Moderately advanced	Far advanced	Stage not stated	Pleurisy with effusion	Total		
San Juan	1	2	2			5		5
Skagit	13	12	7	15	1	48	2	50
Skamania	1			1		2		2
Snohomish	7	33	21	11	6	78	5	83
Rural	3	21	13	9	5	51	2	53
Everett	4	12	8	2	1	27	3	30
Spokane	15	31	37	72	2	157	5	162
Rural	7	7	8	58	2	82		82
Spokane	8	24	29	14		75	5	80
Stevens	1	4	1	5		11		11
Thurston	31	15	5	5	1	57	3	60
Rural	16	9	2	2	1	30	1	31
Olympia	15	6	3	3		27	2	29
[illegible]iakum	8	1				9	1	10
Walla Walla	3	11	8	1	1	24		24
Rural	1	2	1		1	5		5
Walla Walla	2	9	7	1		19		19
Whatcom	50	27	9	9	3	98	3	101
Rural	10	8	5	4	1	28	3	31
Bellingham	40	19	4	5	2	70		70
Whitman	8	9	2	5		24	2	26
Yakima	5	13	15	40		73	10	83
Rural	4	11	7	25		47	8	55
Yakima	1	2	8	15		26	2	28
Out of State*	23	121	73	45		262	18	280
URBAN TOTAL	499	462	273	157	29	1420	72	1492
RURAL TOTAL	339	304	170	214	24	1051	63	1114
GRAND TOTAL	861	887	516	416	53	2733	153	2886

* Included in Grand Total

T4 49 - REPORTED CASES OF TUBERCULOSIS (ALL FORMS) THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE GROUPS, 1948

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 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 and over	Unknown	Total
Adams																			0
Asotin						1									1		1		3
Benton																			
Rural		2				3	2	2	7		1	2	1			1			21
Richland*																			0
Chelan					2	2	2	4	2	1	6	2	1	2	2	1	2	2	31
Rural					1	2	2	2	1		5	1	1	2	1	1		1	20
Wenatchee					1			2	1	1	1	1			1		2	1	11
Clallam		3	1	1	2	5	3	1	5	2	3	1				2		1	30
Rural		3	1	1	2	4	1	1	2	2	1							1	19
Port Angeles						1	2		3		2	1				2			11
Clark	1		1	1	3	11	9	12	14	12	10	9	8	8	8	3	5	13	128
Rural				1	2	5	6	6	6	4	2	5	3	3	4	2	2	10	61
Vancouver	1		1		1	6	3	6	8	8	8	4	5	5	4	1	3	3	67
Columbia																			
Cowlitz					1	6	4	6	8	5	11	7	4	2	2	2	1	25	84
Rural					1	3	4	6	5	4	5	7	2	2	2			17	58
Longview						3			3	1	6		2			2	1	8	26
Douglas					1				1		1	2		1	1				7
Ferry					1	2	1			1		1	1				1		8
Franklin							2	1	7	1	1	1			2			1	16
Garfield															1				1
Grant	1					3	1	1				1	2	1		2			12
Grays Harbor		1		1	3	7	3	4	4	4	2	5	2	3	2	2	2		45
Rural				1	2	4		2	1	1		4	1	1	1				18
Aberdeen		1			1	3	2	2	3	3	2	1	1	1		1	1		22
Hoquiam							1							1	1	1	1		5
Island												1			1			3	5
Jefferson	1	1		1		3	1	1		1						3			12
King	1	11	5	7	40	100	135	107	98	95	97	91	88	64	76	40	50	18	1123
Rural	1	2	2	3	11	20	35	30	24	10	20	20	20	13	13	7	17	2	250
Renton*																			
Seattle		9	3	4	29	80	100	77	74	85	77	71	68	51	63	33	33	16	873
Kitsap						8	3	11	15	6	10	8	2	5	2	2	5	1	78
Rural						7	2	7	9	3	7	4	2	3	1	1	3		49
Bremerton						1	1	4	6	3	3	4		2	1	1	2	1	29

E 49 - REPORTED CASES OF TUBERCULOSIS (ALL FORM IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE GROUPS, 1948

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 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 and over	Unknown	Total
Kittitas						1		1			1								3
Klickitat					1							1	1						3
Lewis			1		1	4		5	6	1	5	5	6	5	3		3	1	46
Lincoln								1											1
Mason			1			1					1		2	1			1		7
Okanogan			1		3	1			2	2	3		1	2	1	1		1	18
Pacific					2	1	1	1							1	2			8
Pend Oreille					1		2	2					2						7
Pierce		3	3	1	9	16	24	19	31	29	21	23	23	23	25	13	16	13	292
Rural		2	2		2	6	10	8	5	12	9	7	6	9	7	6	8	1	100
Puyallup*																			
Tacoma		1	1	1	7	10	14	11	26	17	12	16	17	14	18	7	8	12	192
San Juan							3				2								5
Skagit				1	2	6	7	5	1	3	2		3	6	3	2	6	3	50
Skamania												1				1			2
Snohomish		1	1		4	11	8	5	10	7	5	6	7	2	6		3	7	83
Rural			1		4	8	5	2	5	5	1	6	3	2	4		3	4	53
Everett		1				3	3	3	5	2	4		4		2			3	30
Spokane				1	3	9	13	6	14	14	18	14	14	17	14	9	13	3	162
Rural				1	3	2	5	4	6	4	8	2	10	8	13	7	9		82
Spokane						7	8	2	8	10	10	12	4	9	1	2	4	3	80
Stevens					1			1	1	2	2		2	1	1				11
Thurston		1		1		7	4	4	8	2	11	7	5	5	2	2		1	60
Rural						4	3	1	2	2	5	5	4	4				1	31
Olympia		1		1		3	1	3	6		6	2	1	1	2	2			29
Wahkiakum								1	1		1							7	10
Walla Walla						6	6	3	1	2	2	1		1	1	1			24
Rural						3	2												5
Walla Walla						3	4	3	1	2	2	1		1	1	1			19
Whatcom	1		2	3	3	11	6	8	12	9	8	8	3	8	8	3	3	5	101
Rural	1		2	2	3	3	1	2	2	4	2	1		1	1	2		4	31
Bellingham				1		8	5	6	10	5	6	7	3	7	7	1	3	1	70
Whitman					1	1	1	2	1	1	2	2	1	4	4	1	1	4	26
Yakima		1	3	3	4	11	9	9	8	6	8	2	6	4	3	2	2	2	83
Rural		1	2	2	3	9	7	8	6	1	7	1	2		2	1	1	2	55
Yakima			1	1	1	2	2	1	2	5	1	1	4	4	1	1	1		28

E 49 - REPORTED CASES OF TUBERCULOSIS (ALL FORM IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE GROUPS, 1948

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 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 and over	Unknown	Total
Out of State	0	2	5	2	15	59	44	31	18	12	18	27	25	10	3	0	2	7	280
URBAN TOTAL	1	13	6	8	40	130	146	120	156	142	140	121	109	96	102	55	59	48	1492
RURAL TOTAL	4	11	13	13	48	107	104	103	101	64	94	80	76	69	68	40	56	63	1114
GRAND TOTAL	5	26	24	23	103	296	294	254	275	218	252	228	210	175	173	95	117	118	2886
Percent of Total	0.2	0.9	0.8	0.8	3.6	10.2	10.2	8.8	9.5	7.6	8.7	7.9	7.3	6.1	6.0	3.3	4.0	4.1	100.0

* No separate tabulation made on these cities, cases included in rural part of county.

TABLE 9 - DEATHS FROM TUBERCULOSIS (ALL FORMS) IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON BY AGE GROUPS, ALLOCATED TO RESIDENCE OF DECEDENT, 1948

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 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 and over	Total
Adams																		0
Asotin																1		1
Benton																		0
Rural																		0
Richland																		0
Chelan					1		1		3					1			2	8
Rural					1		1		1					1				4
Wenatchee									2								2	4
Clallam		1				2							1					4
Rural		1				2												3
Port Angeles													1					1
Clark				2			1		3	1	3	2	2	1		1	3	19
Rural				2			1		2		1		1	1			2	10
Vancouver									1	1	2	2	1			1	1	9
Columbia																		0
Cowlitz							1	1		1	3					2	1	9
Rural								1		1	2						1	5
Longview							1				1					2		4
Douglas																		0
Ferry						1					1	1					2	5
Franklin							1		1						1			3
Garfield																		0
Grant						1								1				2
Grays Harbor		2		1	1	1	1	5	2	1			3	3		2	1	23
Rural		1		1	1	1		1	1				1			1		8
Aberdeen		1						4	1	1			1	2		1	1	12
Hoquiam							1						1	1				3
Island										1					1			2
Jefferson		1														1		2
King		6	1	1	2	10	6	14	17	23	21	33	21	17	27	15	22	236
Rural				1	1	2	1	3	4	4	3	9	4		4	1	7	44
Renton													1			1		2
Seattle		6	1		1	8	5	11	13	19	18	24	16	17	23	13	15	190
Kitsap						1	1				2	2		1	2			9
Rural						1	1					1		1	1			5
Bremerton											2	1			1			4

TAB 0.- DEATHS FROM TUBERCULOSIS (ALL FORMS) IN THE NTIES AND MAJOR CITIES OF THE STATE OF WASHINGT
BY AGE GROUPS, ALLOCATED TO RESIDENCE OF DECEDENT, 1948

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 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 and over	Total
Kittitas										1								1
Klickitat																		0
Lewis			1		1				4	1		1		1			1	10
Lincoln																		0
Mason																		0
Okanogan		1	1				1			1	1	3	1	2		1		12
Pacific					1								1	1	1			4
Pend Oreille								2					1					3
Pierce		3		1		2	4	8	1	4	3	4	5	6	4	6	6	57
Rural		2					1	3		2		1	1	1		1	3	15
Puyallup														2		1		3
Tacoma		1		1		2	3	5	1	2	3	3	4	3	4	4	3	39
San Juan							1											1
Skagit							3	1					1	2	1		2	10
Skamania																1		1
Snohomish							1	4	1	2	1	2	1		6	1	1	20
Rural							1	2	1	1		1	1		4	1	1	13
Everett								2		1	1	1			2			7
Spokane					1	2	2	1	4	5	5	2	6	7	4	4	2	45
Rural					1	2	2		1		3		1	2	1	1	1	15
Spokane								1	3	5	2	2	5	5	3	3	1	30
Stevens													1	1				2
Thurston						1			1					1	3	2		8
Rural									1					1	2	1		5
Olympia						1									1	1		3
Wahkiakum								1										1
Walla Walla			1					2		1	2		1					7
Rural																		0
Walla Walla			1					2		1	2		1					7
Whatcom	1		1			2	1		3					1	5	1	1	16
Rural	1		1			1	1		1					1	3	1	1	11
Bellingham						1			2						2			5
Whitman													1		1	2	1	5
Yakima		1		1	2	2	2	4	2	2	3	3	1	1		1	1	26
Rural		1			2	2	1	4	2		1	1	1	1			1	17
Yakima				1			1			2	2	2				1		9

TABLE 50 - DEATHS FROM TUBERCULOSIS (ALL FORMS) IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON BY AGE GROUPS, ALLOCATED TO RESIDENCE OF DECEDENT, 1948

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 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 and over	Total
URBAN TOTAL	0	8	2	2	1	12	11	25	23	32	33	35	31	30	36	28	23	332
RURAL TOTAL	1	7	3	4	8	13	16	18	19	12	12	18	16	17	20	13	23	220
GRAND TOTAL	1	15	5	6	9	25	27	43	42	44	45	53	47	47	56	41	46	552

TABLE 51

CASES OF PULMONARY TUBERCULOSIS BY EXTENT OF LESION AND NON-PULMONARY TUBERCULOSIS WITH PERCENT OF TOTAL, REPORTED FOR THREE YEARS, STATE OF WASHINGTON, 1946 - 1948

Extent of Lesion	1946	1947	1948	3 yr Total	Percent of Total
All causes	2597	2564	2886	8047	100.0
Pulmonary	2405	2405	2733	7543	93.7
Minimal	653	685	861	2199	29.1
Moderately advanced	692	726	887	2305	30.6
Far advanced	573	519	516	1608	21.3
Extent not stated	437	433	416	1286	17.1
Pleurisy with effusion	50	42	53	145	1.9
Non-Pulmonary	191	159	153	503	6.3
Unknown and not stated	1	0	0	1	*

* Less than 0.05 percent

TABLE 52

REPORTED CASES OF TUBERCULOSIS IN THE STATE OF WASHINGTON, FOR THREE YEARS, BY AGE GROUP, WITH PERCENT OF TOTAL, 1946 - 1948

Age Group	Number of Cases			Percent of Total		
	1946	1947	1948	1946	1947	1948
All ages	2597	2564	2886	100.0	100.0	100.0
Under 1 year	8	6	5	0.3	0.2	0.2
1 - 4 years	28	25	26	1.1	1.0	0.9
5 - 9 years	30	22	24	1.2	0.8	0.8
10 - 14 years	38	36	23	1.5	1.4	0.8
15 - 19 years	156	100	103	6.0	3.9	3.6
20 - 24 years	302	291	296	11.6	11.3	10.3
25 - 29 years	288	279	294	11.1	10.9	10.2
30 - 34 years	248	256	254	9.5	10.0	8.8
35 - 39 years	241	233	275	9.3	9.1	9.5
40 - 44 years	197	211	218	7.6	8.2	7.5
45 - 49 years	186	209	252	7.2	8.2	8.7
50 - 54 years	196	194	228	7.5	7.6	7.9
55 - 59 years	187	194	210	7.2	7.6	7.3
60 - 64 years	160	152	175	6.2	5.9	6.1
65 - 69 years	98	103	173	3.8	4.0	6.0
70 - 74 years	70	78	95	2.7	3.0	3.3
75 and over	82	56	117	3.2	2.2	4.1
Unknown	82	119	118	3.2	4.6	4.1

SECTION VII

* * * * *

COMMUNICABLE DISEASE

MORBIDITY AND MORTALITY

TABLE 53

NUMBER OF REPORTED CASES OF SELECTED COMMUNICABLE DISEASES IN THE STATE OF WASHINGTON, WITH ANNUAL AND FIVE-YEAR AVERAGE INCIDENCE RATES PER 100,000 ESTIMATED POPULATION, 1915 - 1948

Year	Number of Reported Cases						Incidence Rate Per 100,000 Estimated Population					
	Typhoid and Paratyphoid fever	Smallpox	Diphtheria	Poliomyelitis	Scarlet fever	Whooping Cough	Typhoid and Paratyphoid fever	Smallpox	Diphtheria	Poliomyelitis	Scarlet fever	Whooping Cough
1915	830	254	406	10	688	1886	66.1	20.2	32.3	0.8	54.8	150.2
1916	586	655	382	33	649	3417	45.9	51.3	29.9	2.6	50.8	267.4
1917	1008	408	426	*	1019	3858	77.6	31.4	32.8		78.4	296.9
1918	680	1675	856	23	2871	1766	51.5	126.8	64.8	1.7	217.3	133.6
1919	379	4390	1003	15	2483	1260	28.2	326.8	74.7	1.1	184.8	93.8
1915--1919	697	1476	615	16	154	2437	53.6	113.6	47.3	1.2	118.5	187.5
1920	469	6146	1344	10	2228	2062	34.4	450.3	98.5	0.7	163.2	151.1
1921	531	4443	1355	337	1787	1515	38.3	320.7	97.8	24.3	129.0	109.4
1922	578	1595	1169	19	1242	1461	41.1	113.5	83.2	1.4	88.3	103.9
1923	547	1623	1179	22	2095	2806	38.4	113.8	82.7	1.5	146.9	196.7
1924	435	1973	1623	592	2155	733	30.1	136.4	112.2	40.9	149.0	50.7
1920--1924	512	3156	1334	196	1901	1715	36.4	224.5	94.9	139.4	135.2	122.0
1925	391	2001	1425	115	2104	3273	26.7	136.4	97.1	7.8	143.4	223.1
1926	433	2413	1343	14	3535	2175	29.1	162.2	90.3	0.9	237.7	146.2
1927	288	1806	1006	292	2981	1263	19.1	119.8	66.7	19.4	197.7	83.8
1928	282	1772	626	343	1864	773	18.5	116.0	41.0	22.4	122.0	50.6
1929	294	2212	594	31	1592	2816	19.0	142.8	38.4	2.0	102.8	181.8
1925--1929	338	2041	999	159	2415	2060	22.4	135.4	66.2	10.5	160.2	136.6
1930	253	2378	599	51	2045	2825	16.1	151.6	38.2	3.3	130.3	180.1
1931	234	1112	466	86	1912	3111	14.8	70.2	29.4	5.4	120.6	196.3
1932	202	635	272	84	1405	975	12.6	39.7	17.0	5.2	87.8	60.9
1933	181	288	271	90	1689	1134	11.2	17.8	16.7	5.6	104.3	70.0
1934	179	580	137	743	2110	4955	10.9	35.3	8.3	45.2	128.5	301.7
1930--1934	210	999	349	211	1832	2600	13.1	62.3	21.8	13.2	114.3	162.2
1935	154	1347	129	46	2469	940	9.3	81.1	7.8	2.8	148.7	56.6
1936	150	331	78	77	2900	1143	8.9	19.7	4.7	4.6	173.0	68.2
1937	120	479	145	87	1565	3069	7.1	28.3	8.6	5.1	92.4	181.2
1938	167	966	106	18	1803	4507	9.8	56.5	6.2	1.0	105.5	263.6
1939	263	89	84	27	1818	991	15.2	5.2	4.9	1.6	105.4	57.4
1935--1939	171	642	108	51	2111	2130	10.1	37.9	6.4	3.0	124.7	125.8
1940	93	14	103	449	1696	2576	5.3	0.8	5.9	25.8	97.4	147.9
1941	84	31	71	74	1147	4960	4.6	1.7	3.9	4.1	63.1	272.9
1942	65	10	133	33	1260	2860	3.4	0.5	7.0	1.7	66.5	151.0
1943	41	6	357	359	2031	2406	2.1	0.3	18.0	18.1	102.4	121.4
1944	46	11	313	203	7324	1401	2.3	0.6	15.8	10.2	368.7	70.5
1940--1944	66	14	195	224	2692	2841	3.5	0.7	10.3	11.9	142.8	150.8
1945	59	10	278	328	2809	1352	3.1	0.5	13.7	16.1	138.2	66.5
1946	50	68	326	519	1378	1559	2.4	3.3	15.9	25.3	67.2	76.0
1947	33	0	187	168	1502	1501	1.6	0.0	9.0	8.1	72.0	72.0
1948	23	0	90	385	1827	938	1.1	0.0	4.2	17.9	85.1	43.7
1945--1948	41	20	220	350	1879	1338	2.0	1.0	10.6	16.8	90.4	64.4

TAB 54

NUMBER OF CASES OF REPORTABLE DISEASES IN THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, TEN-YEAR AVERAGES, AVERAGE RATES AND TEN-YEAR MEDIANS, 1939 - 1948

Disease		Ten year average	Ten year median	1948	1947	1946	1945	1944	1943	1942	1941	1940	1939
Botulism	No.	4.1	2	0	10	1	0	6	2	1	1	4	16
	Rate	0.2		0.0	0.5	#	0.0	0.3	0.1	#	#	0.2	0.9
Chicken Pox	No.	7369.1	7801	8620	8776	4647	8357	8112	7759	7843	7158	5540	6879
	Rate	378.6		401.3	420.8	226.7	411.1	408.4	391.4	414.0	393.8	318.0	398.6
Diphtheria	No.	194.2	160	90	187	326	278	313	357	133	71	103	84
	Rate	10.0		4.2	9.0	15.9	13.7	15.8	18.0	7.0	3.9	5.9	4.9
Dysentery, amebic	No.	18.0	8	23	101	13	7	4	8	2	7	8	7
	Rate	0.9		1.1	4.8	0.6	0.3	0.2	0.4	0.1	0.4	0.4	0.4
Bacillary	No.	41.6	21	21	23	54	237	7	7	5	21	35	6
	Rate	2.1		1.0	1.1	2.6	11.6	0.4	0.4	0.3	1.2	2.0	0.3
Unspecified	No.	345.3	328	417	240	175	549	-	-	-	-	-	-
	Rate	16.6		19.4	11.5	8.5	27.0	-	-	-	-	-	-
Epidemic diarrhea of newborn	No.	42.0	25	13	31	19	105	-	-	-	-	-	-
	Rate	2.0		0.6	1.5	0.9	5.2	-	-	-	-	-	-
Encephalitis	No.	40.0	36	19	21	33	39	11	25	43	43	112	54
	Rate	2.0		0.9	1.0	1.6	1.9	0.6	1.3	2.3	2.4	6.4	3.1
Erysipelas	No.	49.2	43	17	33	41	65	100	74	35	21	44	62
	Rate	2.5		0.8	1.6	2.0	3.2	5.0	3.7	1.8	1.2	2.5	3.6
Food Poisoning	No.	331.2	79	75	481	82	187	9	2278	8	2	169	21
	Rate	17.0		3.5	23.1	4.0	9.2	0.4	114.9	0.4	0.1	9.7	1.2
German Measles	No.	2120.1	984	707	860	911	1134	2000	5257	1057	11269	570	166
	Rate	108.9		32.9	41.2	44.4	55.8	100.7	265.2	55.8	620.0	32.7	9.6
Influenza	No.	3164.1	1569	3269	1808	278	10251	600	4036	351	1329	9539	180
	Rate	162.6		152.2	86.7	13.6	504.2	30.2	203.6	18.5	73.1	547.6	10.4
Leprosy	No.	0.3	0	0	0	1	1	0	0	0	1	0	0
	Rate	#		0.0	0.0	#	#	0.0	0.0	0.0	#	0.0	0.0
Malaria	No.	7.2	4	4	13	29	10	1	1	3	8	2	1
	Rate	0.4		0.2	0.6	1.4	0.5	#	#	0.2	0.4	0.1	#
Measles	No.	10961.5	12660	12915	1307	12405	7161	5893	15458	12926	1857	17254	22439
	Rate	563.1		601.2	62.7	605.1	352.2	296.7	779.8	682.3	102.2	990.4	1300.4
Meningococcic meningitis	No.	82.0	48	46	47	60	71	240	242	49	25	23	17
	Rate	4.2		2.1	2.3	2.9	3.5	12.1	12.2	2.6	1.4	1.3	1.0
Mumps	No.	6492.0	5764	12247	3726	4409	7327	5081	6447	1236.7	8336	2911	2069
	Rate	333.5		570.1	178.7	215.1	360.4	255.8	325.2	652.8	458.6	167.1	119.9

TABLE . .Continued)

NUMBER OF CASES OF REPORTABLE DISEASES IN THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, TEN-YEAR AVERAGES, AVERAGE RATES AND TEN-YEAR MEDIANS, 1939 - 1948

Disease		Ten year average	Ten year median	1948	1947	1946	1945	1944	1943	1942	1941	1940	1939
Paratyphoid Fever	No.	10.6*	10	11	11	10	17	9	6	10	**	**	**
	Rate	0.7*		0.5	0.5	0.5	0.8	0.4	0.3	0.5			
Pneumonia, bacterial	No.	886.3	762	877	644	821	1345	2014	1221	529	361	348	703
	Rate	45.5		40.8	30.9	40.0	66.2	101.4	61.6	27.9	19.9	20.0	40.7
Virus	No.	38.2*	39	44	61	15	33	-	-	-	-	-	-
	Rate	1.8*		2.0	2.9	0.7	1.6	-	-	-	-	-	-
Poliomyelitis	No.	254.6	266	385	168	519	328	203	359	33	74	449	27
	Rate	13.1		17.9	8.1	25.3	16.1	10.2	18.1	1.7	4.1	25.8	1.6
Rheumatic Fever	No.	238.2*	277	334	66	294	259	-	-	-	-	-	-
	Rate	11.4*		15.5	3.2	12.7	14.3	-	-	-	-	-	-
Rocky Mountain Spotted Fever	No.	3.4	4	0	0	5	0	1	3	5	6	5	9
	Rate	0.2		0.0	0.0	0.2	0.0	#	0.2	0.3	0.3	0.3	0.5
Scarlet Fever	No.	2282.0	1757	1855	1502	1378	2809	7324	2031	1260	1147	1696	1818
	Rate	117.2		86.4	72.0	67.2	138.2	368.7	102.4	66.5	63.1	97.4	105.4
Septic Sore Throat	No.	106.3	108	104	170	107	183	110	119	108	45	39	78
	Rate	5.5		4.8	8.2	5.2	9.0	5.5	6.0	5.7	2.5	2.2	4.5
Smallpox	No.	23.9	11	0	0	68	10	11	6	10	31	14	89
	Rate	1.2		0.0	0.0	3.3	0.5	0.6	0.3	0.5	1.7	0.8	5.2
Trachoma	No.	11.2	5	18	0	1	0	3	32	0	28	24	6
	Rate	0.6		0.8	0.0	#	0.0	0.2	1.6	0.0	1.5	1.4	0.3
Tularemia	No.	2.4	3	4	3	0	2	0	3	2	4	1	5
	Rate	0.1		0.2	0.1	0.0	0.1	0.0	0.2	0.1	0.2	#	0.3
Typhoid Fever	No.	68.3	41	12	22	40	42	37	35	55	84	93	263
	Rate	3.5		0.6	1.1	2.0	2.1	1.9	1.8	2.9	4.6	5.3	15.2
Undulant Fever	No.	48.1	49	43	66	54	54	54	43	72	42	28	25
	Rate	2.5		2.0	3.2	2.6	2.6	2.7	2.2	3.8	2.3	1.6	1.4
Whooping Cough	No.	2060.0	1530	994	1501	1559	1352	1401	2406	2860	4960	2576	991
	Rate	105.8		46.3	72.0	76.0	66.5	70.5	121.4	151.0	272.9	147.9	57.4

* Average, rate, and median for number of years shown

** Paratyphoid cases included in typhoid total for these years

\# Less than 0.05 per 100,000 estimated population

TABLE 55

CASES OF DIPHTHERIA, POLIOMYELITIS AND WHOOPING COUGH REPORTED IN THE COUNTIES* AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY SINGLE YEARS OF AGE UNDER FIVE YEARS, 1948

	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
Asotin								1			1			2	1
Benton										1	1	1			1
Rural										1	1	1			1
Richland #															
Chelan											2	2	1	1	1
Rural											2	2	1	1	
Wenatchee															1
Clallam												1	1		
Rural															
Port Angeles												1	1		
Clark		1					1				5	6	13	6	10
Rural		1									4	3	8	3	7
Vancouver							1				1	3	5	3	3
Cowlitz								1			4	2	1	2	4
Rural											4	2	1	2	4
Longview								1							
[illegible]glas											2		1	1	
[illegible]nklin											1	2		1	1
Grant									1		1		1		
Grays Harbor			1		2					2					
Rural					1					2					
Aberdeen			1		1										
Hoquiam															
Island								1							
Jefferson											1	2	2	2	3
King	2		1		1	2	9	12	5	10	45	26	28	45	31
Rural	2						2	7	1	2	21	17	12	23	23
Renton #															
Seattle			1		1	2	7	5	4	8	24	9	16	22	8
Kitsap							1	2		1	5	1	5	6	
Rural								1			2	1	1	2	
Bremerton							1	1		1	3		4	4	
Kittitas							1			1					
Lewis						1	1	2		1					
Okanogan											2	1	2	3	5
Pend Oreille												1		1	
Pierce				1				2	2	1	5	1	2	1	2
Rural								2			1		1	1	
Puyallup #															
Tacoma				1					2	1	4	1	1		2
Skagit												1	1	1	
Snohomish						1	3	2	7	3	1				2
Rural						1	2	1	4	3	1				2
Everett							1	1	3	1					
Spokane								3	1	4	1		1	1	3
Rural										1	1		1	1	3
Spokane								3	1	3					

TABLE 55 (Continued)

CASES OF DIPHTHERIA, POLIOMYELITIS AND WHOOPING COUGH REPORTED IN THE COUNTIES* AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY SINGLE YEARS OF AGE UNDER FIVE YEARS, 1948

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
Thurston										1					
Rural										1					
Olympia															
Wahkiakum												1			
Walla Walla								1					1		
Rural													1		
Walla Walla								1							
Whatcom						1	1		1	2	1				
Rural											1				
Bellingham						1	1		1	2					
Whitman							1				1				
Yakima		2	1	1	1			2	2	1	13	9	15	6	11
Rural		2	1	1				2		1	10	5	10	5	8
Yakima					1				2		3	4	5	1	3
URBAN TOTAL	0	0	2	1	3	3	11	12	13	16	35	18	32	30	17
RAL TOTAL	2	3	1	1	1	2	7	17	6	13	57	39	43	49	58
GRAND TOTAL	2	3	3	2	4	5	18	29	19	29	92	57	75	79	75

* In this table when no cases occurred in a county, that county is not listed.
\# No separate breakdown for these cities; cases included in rural part of county.

TABLE 56

DEATHS OF DIPHTHERIA, POLIOMYELITIS AND WHOOPING COUGH REPORTED IN THE COUNTIES* AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY SINGLE YEARS OF AGE UNDER FIVE YEARS, ALLOCATED TO RESIDENCE, 1948

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
Benton								1							
Rural															
Richland								1							
Grant											1				
King	1							2		2	3				
Rural								1			2				
Renton	1							1							
Seattle										2	1				
Lewis							1								
Pierce								1							
Rural								1							
Puyallup															
Tacoma															
Snohomish						1			1	1					
Rural						1			1						
Everett										1					
Spokane										1					
Rural										1					
Spokane															
Yakima		1													
Rural		1													
Yakima															
URBAN TOTAL	1	0	0	0	0	0	0	2	0	4	1	0	0	0	0
RURAL TOTAL	0	1	0	0	0	1	1	2	1	0	3	0	0	0	0
GRAND TOTAL	1	1	0	0	0	1	1	4	1	4	4	0	0	0	0

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

TABLE 57

CASES OF DIPHTHERIA REPORTED IN THE COUNTIES* AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE GROUP, WITH PERCENTAGES, 1948

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
Adams						1							1
Chelan			1										1
Rural			1										1
Wenatchee													
Clark		1		2									3
Rural		1		1									2
Vancouver				1									1
Franklin					1								1
Grays Harbor		3	3	2	2		2	4	1	1	2	3	22
Rural		1	2	2	2		1				1	2	11
Aberdeen		2	1				1	3	1	1	1	1	11
Hoquiam								1					1
Jefferson												1	1
King	2	2	2	3	1	2			2	2	8	2	26
Rural	2					1						1	4
Renton#													
Seattle		2	2	3	1	1			2	2	8	1	22
Kitsap			1										1
Rural			1										1
Bremerton													
Klickitat			1										1
Lewis									1				1
Pierce		1	1	2	3					1	2		10
Rural				2							1		3
Puyallup#													
Tacoma		1	1		3					1	1		7
Skagit			1										1
Snohomish				1		1		1				1	4
Rural						1		1				1	3
Everett				1									1
Spokane			1		2								3
Rural			1		2								3
Spokane													
Thurston						1							1
Rural						1							1
Olympia													
Whatcom					2								2
Rural													
Bellingham					2								2
Yakima		5	2		2	1							10
Rural		4	1		1	1							7
Yakima		1	1		1								3
URBAN TOTAL	0	6	5	5	7	1	1	4	3	4	10	2	48
RURAL TOTAL	2	6	8	5	6	5	1	1	1	0	2	5	42
GRAND TOTAL	2	12	13	10	13	6	2	5	4	4	12	7	90
Percent of Total	2.2	13.3	14.4	11.1	14.4	6.7	2.2	5.6	4.4	4.4	13.3	7.8	100.0

	No.	Rate per 100,000 estimated population
Urban Total	48	4.4
Rural Total	42	4.0
Grand Total	90	4.2

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

\# No separate breakdown for these cities; cases included in rural part of county.

TABLE 58

DEATHS FROM DIPHTHERIA IN THE COUNTIES* AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE GROUP, WITH PERCENTAGES, ALLOCATED TO RESIDENCE, 1948

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	Unknown age	All ages
Grays Harbor							1	1					2
Rural													
Aberdeen							1	1					2
Hoquiam													
King	1									2	2		5
Rural													
Renton	1												1
Seattle										2	2		4
Pierce											1		1
Rural													
Puyallup													
Tacoma											1		1
Yakima		1											1
Rural		1											1
Yakima													
URBAN TOTAL	1	0	0	0	0	0	1	1	0	2	3	0	8
AL TOTAL	0	1	0	0	0	0	0	0	0	0	0	0	1
GRAND TOTAL	1	1	0	0	0	0	1	1	0	2	3	0	9
Percent of Total	11.1	11.1	0.0	0.0	0.0	0.0	11.1	11.1	0.0	22.2	33.3	0.0	100.0

	No.	Rate per 100,000 estimated population
Urban Total	8	0.7
Rural Total	1	0.1
Grand Total	9	0.4

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

TABLE 59

CASES OF POLIOMYELITIS REPORTED IN THE COUNTIES* AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE GROUP, WITH PERCENTAGES, 1948

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	Unknown age	All ages
Asotin		1											1
Benton		1	1	1	1								4
Rural		1	1	1	1								4
Richland#													
Chelan			1		2	1			1	1			6
Rural						1			1				2
Wenatchee			1		2					1			4
Clallam			1										1
Rural													
Port Angeles			1										1
Clark		1	4	3	3	1			2	1			15
Rural			1	1					1	1			4
Vancouver		1	3	2	3	1			1				11
Columbia				1									1
Wlitz		1	2	1	2				1				7
Rural			1		1								2
Longview		1	1	1	1				1				5
Franklin						1	1						2
Garfield					1								1
Grant		1											1
Grays Harbor		2	1					1					4
Rural		2											2
Aberdeen								1					1
Hoquiam			1										1
Island		1											1
Jefferson			3										3
King	2	36	33	29	4	12	10	8	3		3	1	141
Rural		12	12	14	2	6	3	2			1	1	53
Renton#													
Seattle	2	24	21	15	2	6	7	6	3		2		88
Kitsap		4	2	3	2	4	5	1	2				23
Rural		1	1	3			1	1	1				8
Bremerton		3	1		2	4	4		1				15
Kittitas		2	2	1									5
Lewis	1	4	3	2		1							11
Mason					1								1
Pierce		5	7	2	3	1	2					2	22
Rural		2	3	1	1	1						1	9
Puyallup#													
Tacoma		3	4	1	2		2					1	13
Juan						1							1
Skagit			2									1	3
Snohomish	1	16	14	10	2	3	4	1	3	2		4	60
Rural	1	10	10	9	2	3	4	1	3	2		3	48
Everett		6	4	1								1	12

TABLE 59 (Continued)

CASES OF POLIOMYELITIS REPORTED IN THE COUNTIES* AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE GROUP, WITH PERCENTAGES, 1948

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	Unknown age	All ages
Spokane		8	8	3	3	1	1	1	1		1		27
Rural		1		1									2
Spokane		7	8	2	3	1	1	1	1		1		25
Stevens			2	1									3
Thurston		1	1										2
Rural		1	1										2
Olympia													
Walla Walla		1		1	1				1				4
Rural					1								1
Walla Walla		1		1					1				3
Whatcom	1	4	5	3	4	1				1			19
Rural			4	2	4								10
Bellingham	1	4	1	1		1				1			9
Whitman		1											1
Yakima		5	3	5	1		1						15
Rural		3	2	4	1								10
Yakima		2	1	1			1						5
URBAN TOTAL	3	52	47	25	15	13	15	8	8	2	3	2	193
RURAL TOTAL	2	43	48	41	15	14	9	4	6	3	1	6	192
GRAND TOTAL	5	95	95	66	30	27	24	12	14	5	4	8	385
Percent of Total	1.3	24.7	24.7	17.1	7.8	7.0	6.2	3.1	3.6	1.3	1.0	2.1	100.0

	No.	Rate per 100,000 estimated population
Urban Total	193	17.6
Rural Total	192	18.3
Grand Total	385	17.9

* In this table when no cases occurred in a county, that county is not listed.
\# No separate breakdown for these cities; cases included in rural part of county.

TABLE 60

DEATHS FROM POLIOMYELITIS IN THE COUNTIES* AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE GROUP, WITH PERCENTAGES, ALLOCATED TO RESIDENCE, 1948

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	Unknown age	All ages
Benton		1											1
Rural													
Richland		1											1
Chelan				1									1
Rural				1									1
Wenatchee													
Clark										1			1
Rural										1			1
Vancouver													
Columbia					1								1
Cowlitz					1			1					2
Rural								1					1
Longview					1								1
Grays Harbor								1					1
Rural													
Aberdeen								1					1
Hoquiam													
King		4	1	1		2	2	2			1		13
Rural		1		1		1	2						5
Renton		1											1
Seattle		2	1			1		2			1		7
Lewis		1		1		1							3
Pierce		1	1										2
Rural		1	1										2
Puyallup													
Tacoma													
San Juan						1							1
Snohomish	1	2	2	1	1		1						8
Rural	1	1	1	1	1		1						6
Everett		1	1										2
Spokane		1	2	1					1				5
Rural													
Spokane		1	2	1					1				5
Walla Walla									1				1
Rural													
Walla Walla									1				1
Whatcom				1									1
Rural													
Bellingham				1									1
Yakima				1									1
Rural				1									1
Yakima													
URBAN TOTAL	0	6	4	2	1	1	0	3	2	0	1	0	20
RURAL TOTAL	1	4	2	5	2	3	3	1	0	1	0	0	22
GRAND TOTAL	1	10	6	7	3	4	3	4	2	1	1	0	42
Percent of Total	2.4	23.8	14.3	16.7	7.1	9.5	7.1	9.5	4.8	2.4	2.4	0.0	100.0

	No.	Rate per 100,000 estimated population
Urban Total	20	1.8
Rural Total	22	2.1
Grand Total	42	2.0

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

TABLE 61

CASES OF RHEUMATIC FEVER REPORTED IN THE COUNTIES* AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE GROUP, WITH PERCENTAGES, 1948

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
Adams											2		2
Asotin											1		1
Benton							1		1		2		4
Rural							1		1		2		4
Richland#													
Chelan									1		2		3
Rural													
Wenatchee									1		2		3
Clallam											1		1
Rural													
Port Angeles											1		1
Clark			2	3	1			2	1		7		16
Rural				2				1			6		9
Vancouver			2	1	1			1	1		1		7
Cowlitz			3	1	1			1		1	1		8
Rural			3	1	1			1			1		7
Longview										1			1
Douglas				1									1
[illegible]nklin											1		1
[illegible] field				1									1
Grant		2	3	1		1			2		4		13
Grays Harbor								1	1		2		4
Rural								1			1		2
Aberdeen									1				1
Hoquiam											1		1
King		2	11	4		4	9	6	2	4	55	1	98
Rural		1	6	3			3	1		2	14	1	31
Renton#													
Seattle		1	5	1		4	6	5	2	2	41		67
Kitsap											8		8
Rural											7		7
Bremerton											1		1
Kittitas								1			1		2
Lewis				2	1	1					1		5
Mason			1										1
Okanogan											1		1
Pacific											1		1
Pend Oreille							1						1
Pierce			2	1				2	3	4	28		40
Rural			1	2				1		3	6		13
Puyallup#													
Tacoma			1	1				1	3	1	22		29
Skagit								1			4		5
[illegible]homish				1			1		1		6		9
[illegible]ural									1		2		3
Everett				1			1				4		6
Spokane		2	16	6	5	1	3	2		2	20		57
Rural		1	4	4	2		1				6		18
Spokane		1	12	2	4	1	2	2		2	14		40

TABLE 61 (Continued)

CASES OF RHEUMATIC FEVER REPORTED IN THE COUNTIES* AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE GROUP, WITH PERCENTAGES, 1948

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	Unknown age	All ages
Stevens				1							1		2
Thurston		2	3	3			1				4		13
Rural			1	1							2		4
Olympia		2	2	2			1				2		9
Wahkiakum			1										1
Walla Walla										1	1		2
Rural													
Walla Walla										1	1		2
Whatcom			1	3						2	1		7
Rural			1	2							1		4
Bellingham				1						2			3
Whitman			2	1			1			2	2	1	9
Yakima							2	1	3	1	7		14
Rural							1	1			6		8
Yakima							1		3	1	1		6
URBAN TOTAL	0	4	22	9	5	5	11	9	10	10	89	0	174
RURAL TOTAL	0	4	23	22	4	2	8	8	5	7	75	2	160
GRAND TOTAL	0	8	45	31	9	7	19	17	15	17	164	2	334
Percent of Total	0.0	2.4	13.5	9.3	2.7	2.1	5.7	5.1	4.5	5.1	49.1	0.6	100.0

	No.	Rate per 100,000 estimated population
Urban Total	174	15.8
Rural Total	160	15.2
Grand Total	334	15.5

* In this table when no cases occurred in a county, that county is not listed.
\# No separate breakdown for these cities; cases included in rural part of county.

TABLE 62

DEATHS FROM RHEUMATIC FEVER AND RHEUMATIC HEART DISEASE* IN THE COUNTIES** AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE GROUP, WITH PERCENTAGES, ALLOCATED TO RESIDENCE, 1948

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	Unknown age	All ages
Adams											1		1
Benton							1		1		3		5
Rural							1		1		3		5
Richland													
Chelan									1		1		2
Rural									1		1		2
Wenatchee													
Clallam											1		1
Rural													
Port Angeles											1		1
Clark				1	1			1	2		6		11
Rural				1	1			1			4		7
Vancouver									2		2		4
Cowlitz					1						2		3
Rural					1						2		3
Longview													
Douglas				1									1
Ferry											1		1
Franklin											1		1
Garfield				1									1
Grant											5		5
Grays Harbor								1			2		3
Rural								1			1		2
Aberdeen													
Hoquiam											1		1
Island											1		1
Jefferson										1			1
King				1		3	6	5	2	2	34		53
Rural				1			3	1	1	1	10		17
Renton													
Seattle						3	3	4	1	1	24		36
Kitsap											6		6
Rural											5		5
Bremerton											1		1
Kittitas								1			1		2
Lewis				1							2		3
Okanogan											2		2
Pacific											1		1
Pierce				2				1	1	2	23		29
Rural				2						2	4		8
Puyallup													
Tacoma								1	1		19		21
Skagit								1			4		5
Snohomish				1							6		7
Rural											3		3
Everett				1							3		4
Spokane					2		1	2			11		16
Rural					1						3		4
Spokane					1		1	2			8		12

TABLE 62 (Continued)

DEATHS FROM RHEUMATIC FEVER AND RHEUMATIC HEART DISEASE* IN THE COUNTIES** AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE GROUP, WITH PERCENTAGES, ALLOCATED TO RESIDENCE, 1948

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	Unknown age	All ages
Stevens				1							1		2
Thurston											1		1
Rural											1		1
Olympia													
Walla Walla											1		1
Rural													
Walla Walla											1		1
Whatcom			1		1					1			3
Rural			1		1					1			3
Bellingham													
Whitman										2			2
Yakima						1	2	1	1		4		9
Rural							1	1			3		5
Yakima						1	1		1		1		4
URBAN TOTAL	0	0	0	1	1	4	5	7	5	1	61	0	85
RURAL TOTAL	0	0	1	8	4	0	5	6	3	7	60	0	94
GRAND TOTAL	0	0	1	9	5	4	10	13	8	8	121	0	179
Percent of Total	0.0	0.0	0.5	5.0	2.8	2.2	5.6	7.3	4.5	4.5	67.6	0.0	100.0

	No.	Rate per 100,000 estimated population
Urban Total	85	7.7
Rural Total	94	9.0
Grand Total	179	8.3

* Includes International List numbers, 58, 90A, 92C, 93C, 95B

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

TABLE 63

CASES OF TYPHOID AND PARATYPHOID REPORTED IN THE COUNTIES* AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE GROUP, WITH PERCENTAGES, 1948

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	Unknown age	All ages
Benton			1										1
Rural			1										1
Richland#													
Chelan							1						1
Rural													
Wenatchee							1						1
Cowlitz							1						1
Rural							1						1
Longview													
Grays Harbor				1									1
Rural				1									1
Aberdeen													
Hoquiam													
King		2	1								1		4
Rural		1											1
Renton #													
Seattle		1	1								1		3
Pierce				1					1		1		3
Rural				1									1
Puyallup#													
Tacoma									1		1		2
Skagit				1		1							2
Stevens											1		1
Whitman											1		1
Yakima	1	3	1						1		1	1	8
Rural	1	1	1						1			1	5
Yakima		2									1		3
URBAN TOTAL	0	3	1	0	0	0	1	0	1	0	3	0	9
RURAL TOTAL	1	2	2	3	0	1	1	0	1	0	2	1	14
GRAND TOTAL	1	5	3	3	0	1	2	0	2	0	5	1	23
Percent of Total	4.3	21.7	13.0	13.0	0.0	4.3	8.7	0.0	8.7	0.0	21.7	4.3	100.0

	No.	Rate per 100,000 estimated population
Urban Total	9	0.8
Rural Total	14	1.3
Grand Total	23	1.1

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

\# Separate breakdown for these cities; cases included in rural part of county.

TABLE 64

DEATHS FROM TYPHOID AND PARATYPHOID IN THE COUNTIES* AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE GROUP, WITH PERCENTAGES, ALLOCATED TO RESIDENCE, 1948

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	Unknown age	All ages
Stevens											1		1
Thurston											1		1
Rural											1		1
Olympia													
URBAN TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
RURAL TOTAL	0	0	0	0	0	0	0	0	0	0	2	0	2
GRAND TOTAL	0	0	0	0	0	0	0	0	0	0	2	0	2
Percent of Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	100.0

	No.	Rate per 100,000 estimated population
Urban Total	0	0.0
Rural Total	2	0.2
Grand Total	2	0.1

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

TABLE 65

CASES OF UNDULANT FEVER REPORTED IN THE COUNTIES** AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE GROUP, WITH PERCENTAGES, 1948

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	Unknown age	All ages
Benton								1					1
Rural								1					1
Richland#													
Chelan								1					1
Rural													
Wenatchee								1					1
Franklin							2						2
Grant				1									1
Island									1				1
King					1	1			1	1	1		5
Rural									1	1			2
Renton#													
Seattle					1	1					1		3
Lewis				1								1	2
Lincoln							1		1				2
Skagit				1		1					1	2	5
Snohomish										1			1
Rural										1			1
Everett													
Spokane								1				1	2
Rural												1	1
Spokane								1					1
Thurston								1					1
Rural								1					1*
Olympia													
Walla Walla		1							1				2
Rural									1				1
Walla Walla		1											1
Whatcom		2		3	1				2	1	1		10
Rural		2		3	1				2	1	1		10
Bellingham													
Whitman					1							1	2
Yakima						1			1	2		1	5
Rural						1			1	2		1	5
Yakima													
URBAN TOTAL	0	1	0	0	1	1	0	2	0	0	1	0	6
RURAL TOTAL	0	2	0	6	2	2	3	2	7	5	2	6	37
GRAND TOTAL	0	3	0	6	3	3	3	4	7	5	3	6	43
Percent of Total	0.0	7.0	0.0	13.9	7.0	7.0	7.0	9.3	16.3	11.6	7.0	13.9	100.0

	No.	Rate per 100,000 estimated population
Urban Total	6	0.5
Rural Total	37	3.5
Grand Total	43	2.0

* One death to Thurston county rural resident in age group 1-4 years. No other deaths from this disease.

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

\# No separate breakdown for these cities; cases included in rural part of county.

TABLE 66

CASES OF WHOOPING COUGH REPORTED IN THE COUNTIES* AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE GROUP, WITH PERCENTAGES, 1948

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	Unknown age	All ages
Asotin	1	3	19	2									25
Benton	1	2	13									32	48
Rural	1	2	13									32	48
Richland#													
Chelan	2	5	2									1	10
Rural	2	4	1										7
Wenatchee		1	1									1	3
Clallam		2											2
Rural													
Port Angeles		2											2
Clark	5	35	28	2	1							13	84
Rural	4	21	24	2	1							10	62
Vancouver	1	14	4									3	22
Columbia			1										1
Cowlitz	4	9	15	3								1	32
Rural	4	9	15	3								1	32
[illegible]ngview													
[illegible]las	2	2	3										7
Franklin	1	4	3									8	16
Grant	1	1	1									20	23
Jefferson	1	9	12	3								7	32
King	45	130	197	31	2		2					23	430
Rural	21	75	125	21	1							20	263
Renton#													
Seattle	24	55	72	10	1		2					3	167
Kitsap	5	12	6		1	1							25
Rural	2	4	3		1								10
Bremerton	3	8	3			1							15
Lincoln												6	6
Mason												7	7
Okanogan	2	11	18	6				1				2	40
Pacific												3	3
Pend Oreille		2											2
Pierce	5	6	3										14
Rural	1	2	1										4
Puyallup#													
Tacoma	4	4	2										10
Skagit		3	10	1									14
Snohomish	1	2	4	1								2	10
Rural	1	2	4	1									8
Everett												2	2
S[illegible]ane	1	5											6
[illegible]ral	1	5											6
Spokane													
Thurston			1	1									2
Rural													
Olympia			1	1									2

TABLE 66 (Continued)

CASES OF WHOOPING COUGH REPORTED IN THE COUNTIES* AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE GROUP, WITH PERCENTAGES, 1948

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	Unknown age	All ages
Wahkiakum		1											1
Walla Walla		1										22	23
Rural		1										7	8
Walla Walla												15	15
Whatcom	1											10	11
Rural	1												1
Bellingham												10	10
Whitman		1	2	2								1	6
Yakima	13	41	44	6	1	1				1		7	114
Rural	10	28	34	3	1					1		3	80
Yakima	3	13	10	3		1						4	34
URBAN TOTAL	35	97	93	14	1	2	2	0	0	0	0	38	282
RURAL TOTAL	56	190	289	44	4	0	0	1	0	1	0	127	712
GRAND TOTAL	91	287	382	58	5	2	2	1	0	1	0	165	994
I ent of Total	9.2	28.9	38.4	5.8	0.5	0.2	0.2	0.1	0.0	0.1	0.0	16.6	100.0

	No.	Rate per 100,000 estomated population
Urban Total	282	25.7
Rural Total	712	67.8
Grand Total	994	46.3

* In this table when no cases occurred in a county, that county is not listed.
\# No separate breakdown for these cities; cases included in rural part of county.

TABLE 67

DEATHS FROM WHOOPING COUGH IN THE COUNTIES* AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE GROUP, WITH PERCENTAGES, ALLOCATED TO RESIDENCE, 1948

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	Unknown age	All ages
Grant	1												1
King	3												3
Rural	2												2
Renton													0
Seattle	1												1
URBAN TOTAL	1	0	0	0	0	0	0	0	0	0	0	0	1
RURAL TOTAL	3	0	0	0	0	0	0	0	0	0	0	0	3
GRAND TOTAL	4	0	0	0	0	0	0	0	0	0	0	0	4
Percent of Total	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0

	No.	Rate per 100,000 estimated population
Urban Total	1	0.1
Rural Total	3	0.3
Grand Total	4	0.2

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

SECTION VIII

* * * * * *

VENEREAL DISEASE

MORBIDITY AND MORTALITY

TABLE 68

CIVILIAN CASES OF SYPHILIS, GONORRHEA, CHANCROID AND LYMPHOGRANULOMA, AND GRANULOMA INGUINALE, REPORTED IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, ALLOCATED TO RESIDENCE, 1948

County or City	Syphilis		Gonorrhea		Chancroid		Lymphogranuloma Venereum		Lymphogranuloma Inguinale	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Adams										
Asotin	1	9.8								
Benton										
Rural	278	596.6	259	555.8	1	2.1				
Richland*										
Chelan	13	33.5	12	30.9						
Rural	5	19.4	8	31.0						
Wenatchee	8	61.5	4	30.8						
Clallam	5	21.8	5	21.8						
Rural	2	16.5	4	33.1						
Port Angeles	3	27.8	1	9.3						
Clark	87	115.8	54	71.9	1	1.3				
Rural	36	80.5	27	60.4	1	2.2				
Vancouver	51	167.8	27	88.8						
Columbia	2	35.1								
Cowlitz	46	86.1	10	18.7						
Rural	30	88.1	7	20.6						
[illegible]ngview	16	82.5	3	15.5						
L[illegible]las			1	11.6						
Ferry	2	47.6								
Franklin	96	761.9	80	634.9	1	7.9				
Garfield	3	103.4								
Grant	14	112.0	10	80.0						
Grays Harbor	24	44.6	23	42.7						
Rural	8	37.6	4	18.8						
Aberdeen	8	39.0	8	39.0						
Hoquiam	8	66.4	11	91.3						
Island			1	13.5						
Jefferson	3	33.3	4	44.4						
King	581	86.5	1541	229.4	82	12.2	6	0.9	2	0.3
Rural	68	36.6	109	58.7	1	0.5	1	0.5		
Renton*										
Seattle	513	107.8	1432	300.8	81	17.0	5	1.1	2	0.4
Kitsap	82	105.6	84	108.2	2	2.6	1	1.3		
Rural	33	73.1	40	88.6	2	4.4	1	2.2		
Bremerton	49	150.8	44	135.4						
Kittitas	13	55.1	1	4.2						
Klickitat	5	45.0	1	9.0						
Lewis	16	36.9	21	48.4	2	4.6				
Lincoln										
Mason	18	138.5	4	30.8	1	7.7	1	7.7		
Okanogan	23	82.4	15	53.8						
P[illegible]fic	7	44.6	1	6.4						
L[illegible] Oreille	1	13.3								
Pierce	159	76.1	275	131.6	2	1.0	2	1.0		
Rural	43	60.6	39	54.9	1	1.4	2	2.8		
Puyallup*										
Tacoma	116	84.1	236	171.1	1	0.7				

TABLE 68 (Continued)

CIVILIAN CASES OF SYPHILIS, GONORRHEA, CHANCROID AND LYMPHOGRANULOMA, AND GRANULOMA INGUINALE, REPORTED IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, WITH RATES PER 100,000 ESTIMATED POPULATION, ALLOCATED TO RESIDENCE, 1948

County or City	Syphilis		Gonorrhea		Chancroid		Lymphogranuloma venereum		Lymphogranuloma Inguinale	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
San Juan										
Skagit	31	69.2	19	42.4	1	2.2				
Skamania	1	22.2	1	22.2						
Snohomish	31	32.0	21	21.7						
Rural	24	39.2	12	19.6						
Everett	7	19.7	9	25.3						
Spokane	121	58.4	189	91.2	1	0.5				
Rural	29	51.3	7	12.4						
Spokane	92	61.0	182	120.7	1	0.7				
Stevens	3	15.9	3	15.9						
Thurston	15	37.7	16	40.3						
Rural	9	38.4	8	34.1						
Olympia	6	36.8	8	49.0						
Wahkiakum										
Walla Walla	9	27.6	27	82.9	1	3.1				
Rural	1	11.2	8	89.4						
Walla Walla	8	33.9	19	80.5	1	4.2				
Wh[illegible]m	27	42.9	25	39.7	1	1.6				
[illegible]al	12	40.3	13	43.6	1	3.4				
Bellingham	15	45.3	12	36.3						
Whitman	8	27.0	4	13.5			1	3.4		
Yakima	167	139.2	231	192.6	27	22.5				
Rural	99	121.9	118	145.3	14	17.2				
Yakima	68	175.5	113	291.6	13	33.5				
URBAN TOTAL	968	88.2	2109	192.1	97	8.8	5	0.5	2	0.2
RURAL TOTAL	924	88.0	829	79.0	26	2.5	6	0.6	0	0.0
GRAND TOTAL	1892	88.1	2938	136.8	123	5.7	11	0.5	2	0.1

* No separate breakdown on these cities, cases included in rural part of county.

TABLE 69

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, 1948

County or City	Primary and secondary		Early Latent		Late Latent		Ter-tiary		Con-genital		Unknown		Total	
	W	N W	W	N W	W	N W	W	N W	W	N W	W	N W	W	N W
Adams													0	0
Asotin									1				1	
Benton	12	4	31	73	71	71	3	5	3	1	2	2	122	156
Chelan	1		3		4		1		2	1	1		12	1
Rural	1		1				1			1	1		4	1
Wenatchee			2		4				2				8	0
Clallam					1	1	3						4	1
Rural						1	1						1	1
Port Angeles					1		2						3	
Clark	14		11	5	19	2	2		6	1	25	2	77	10
Rural	6		6	1	9				3		10	1	34	2
Vancouver	8		5	4	10	2	2		3	1	15	1	43	8
Columbia					1						1		2	0
[illegible]litz	14		8		10		4		1		9		46	0
[illegible]ural	11		6		8		3		1		1		30	0
Longview	3		2		2		1				8		16	0
Douglas													0	0
Ferry	2												2	0
Franklin	5	8	4	26	14	34	2	1			1	1	26	70
Garfield		2		1										3
Grant	5	1	4	1	2		1						12	2
Grays Harbor	11	2	2		2	1	2		2		1	1	20	4
Rural	1	2	2		1						1	1	5	3
Aberdeen	8												8	0
Hoquiam	2				1	1	2		2				7	1
Island													0	0
Jefferson			1		1		1						3	0
King	132	53	47	70	104	74	60	11	11	8	6	5	360	221
Rural	19	2	3	4	18	4	15	1	2				57	11
Seattle	113	51	44	66	86	70	45	10	9	8	6	5	303	210
Kitsap	12	6	5	6	24	9	5	3	1	2	6	3	53	29
Rural	5	3	4	4	9	3	2				2	1	22	11
Bremerton	7	3	1	2	15	6	3	3	1	2	4	2	31	18
Kittitas	5		1		2		1			1	2	1	11	2
Klickitat	3			2									3	2
Lewis	5		1		6		2		1		1		16	0
Lincoln													0	0
Mason	5	2	2	2	4		1					2	12	6
[illegible]nogan	5	4	2	1	3					2	5	1	15	8
[illegible]ific	1		2	1	2		1						6	1
Pend Oreille					1								1	0
Pierce	29	3	33	17	38	13	10		2	2	10	2	122	37
Rural	7	2	8	2	12	2	4				6		37	6
Tacoma	22	1	25	15	26	11	6		2	2	4	2	85	31

TABLE 69 (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, 1948

County or City	Primary and Secondary		Early Latent		Late Latent		Ter-tiary		Con-gehital		Unknown		Total	
	W	N W	W	N W	W	N W	W	N W	W	N W	W	N W	W	N W
San Juan													0	0
Skagit	15		2	2	5	1	3		1		1	1	27	4
Skamania											1		1	
Snohomish	5	2	3	2	7	1	4		2	3	1	1	22	9
Rural	2	2	2	2	7	1	2		1	3	1	1	15	9
Everett	3		1				2		1				7	0
Spokane	14	10	16	14	30	6	26	3	1		1		88	33
Rural	1	1	2		3		17	3	1		1		25	4
Spokane	13	9	14	14	27	6	9						63	29
Stevens		1			1						1		2	1
Thurston	2		5	1	3		2				2		14	1
Rural	1		4	1	1		1				1		8	1
Olympia	1		1		2		1				1		6	0
[illegible]iakum													0	0
[illegible]a Walla	2	1	4		2								8	1
Rural	1												1	0
Walla Walla	1	1	4		2								7	1
Whatcom	3	2	4	1	6	1	3	1	1	2	3		20	7
Rural	2	1	1		3	1			1	1	2		9	3
Bellingham	1	1	3	1	3		3	1		1	1		11	4
Whitman	1		3		1		2				1		8	0
Yakima	24	11	38	26	24	13	9	1	10	3	3	5	108	59
Rural	12	7	28	11	16	5	3	1	9	1	2	4	70	29
Yakima	12	4	10	15	8	8	6		1	2	1	1	38	30
URBAN TOTAL	194	70	112	117	187	104	82	14	21	16	40	11	636	332
RURAL TOTAL	133	42	120	134	201	123	66	11	24	10	44	16	588	336
GRAND TOTAL	327	112	232	251	388	227	148	25	45	26	84	27	1224	668

TABLE 70

CIVILIAN CASES OF GONORRHEA, CHANCROID AND LYMPHOGRANULOMA, AND GRANULOMA INGUINALE, BY WHITE AND NON-WHITE, REPORTED IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, 1948

County or City	Gonorrhea		Chancroid		Lymphogranuloma Venereum		Granuloma Inguinale	
	White	Non-White	White	Non-White	White	Non-White	White	Non-White
Adams								
Asotin								
Benton	91	168		1				
Chelan	12							
Rural	8							
Wenatchee	4							
Clallam	4	1						
Rural	3	1						
Port Angeles	1							
Clark	45	9		1				
Rural	20	7		1				
Vancouver	25	2						
Columbia								
C[illegible]tz	10							
[illegible]cal	7							
Longview	3							
Douglas	1							
Ferry								
Franklin	26	54		1				
Garfield								
Grant	7	3						
Grays Harbor	20	3						
Rural	3	1						
Aberdeen	6	2						
Hoquiam	11							
Island	1							
Jefferson	3	1						
King	663	878	41	41		6		2
Rural	79	30	1			1		
Seattle	584	848	40	41		5		2
Kitsap	49	35		2		1		
Rural	17	23		2		1		
Bremerton	32	12						
Kittitas	1							
Klickitat	1							
Lewis	20	1	2					
Lincoln								
Mason	2	2	1			1		
Ok[illegible]gan	11	4						
P[illegible]ic	1							
Pend Oreille								
Pierce	150	125	2			2		
Rural	17	22	1			2		
Tacoma	133	103	1					

TABLE 70 (Continued)

CIVILIAN CASES OF GONORRHEA, CHANCROID AND LYMPHOGRANULOMA, AND GRANULOMA INGUINALE, BY WHITE AND NON-WHITE, REPORTED IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, 1948

County or City	Gonorrhea		Chancroid		Lymphogranuloma Venereum		Granuloma Inguinale	
	White	Non-White	White	Non-White	White	Non-White	White	Non-White
San Juan								
Skagit	16	3	1					
Skamania	1							
Snohomish	13	8						
Rural	5	7						
Everett	8	1						
Spokane	126	63		1				
Rural	5	2						
Spokane	121	61		1				
Stevens	2	1						
Thurston	14	2						
Rural	6	2						
Olympia	8							
Skiakum								
Walla Walla	25	2	1					
Rural	7	1						
Walla Walla	18	1	1					
Whatcom	14	11		1				
Rural	6	7		1				
Bellingham	8	4						
Whitman	4				1			
Yakima	137	94	9	18				
Rural	71	47	4	10				
Yakima	66	47	5	8				
URBAN TOTAL	1028	1081	47	50	0	5	0	2
RURAL TOTAL	442	387	10	16	1	5	0	0
GRAND TOTAL	1470	1468	57	66	1	10	0	2

TABLE 71

ASES OF CONGENITAL SYPHILIS REPORTED IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE GROUP, ALLOCATED TO RESIDENCE, 1948

County or City	Under 1 yr	1 to 2 yrs	2 to 3 yrs	3 to 4 yrs	4 to 5 yrs	5 to 6 yrs	Over 6 yrs	Not Stated	Total
Adams									0
Asotin							1		1
Benton	2						2		4
Chelan						1	2		3
Rural						1			1
Wenatchee							2		2
Clallam									0
Rural									0
Port Angeles									0
Clark	3	1					3		7
Rural	1						2		3
Vancouver	2	1					1		4
Columbia									0
[illegible]litz							1		1
[illegible]ural							1		1
Longview									0
Douglas									0
Ferry									0
Franklin									0
Garfield									0
Grant									0
Grays Harbor							2		2
Rural									0
Aberdeen									0
Hoquiam							2		2
Island									0
Jefferson									0
King	1	1				1	16		19
Rural	1					1			2
Seattle		1					16		17
Kitsap		2					1		3
Rural									0
Bremerton		2					1		3
Kittitas							1		1
Klickitat									0
Lewis							1		1
Lincoln									0
Mason									0
[illegible]anogan							2		2
[illegible]ific									0
Pend Oreille									0
Pierce				1		1	2		4
Rural									0
Tacoma				1		1	2		4

TABLE 71 (Continued)

ASES OF CONGENITAL SYPHILIS REPORTED IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY AGE GROUP, ALLOCATED TO RESIDENCE, 1948

County or City	Under 1 yr	1 to 2 yrs	2 to 3 yrs	3 to 4 yrs	4 to 5 yrs	5 to 6 yrs	Over 6 yrs	Not Stated	Total
San Juan									0
Skagit	1								1
Skamania									0
Snohomish					1		4		5
Rural					1		3		4
Everett							1		1
Spokane		1							1
Rural		1							1
Spokane									0
Stevens									0
Thurston									0
Rural									0
Olympia									0
[illegible]riakum									0
[illegible]a Walla									0
Rural									0
Walla Walla									0
Whatcom	1			1			1		3
Rural	1			1					2
Bellingham							1		1
Whitman									0
Yakima	4						8	1	13
Rural	3						6	1	10
Yakima	1						2		3
URBAN TOTAL	3	4	0	1	0	1	28	0	37
RURAL TOTAL	9	1	0	1	1	2	19	1	34
GRAND TOTAL	12	5	0	2	1	3	47	1	71

TABLE 72 - CIVILIAN CASES OF SYPHILIS, BY STAGE, AND GONORRHEA, REPORTED IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY REPORTING AGENCY, 1948

County or City	Private Physician								Other Reporting Agencies								Total 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	
Asotin					1		1																	
Benton	1		2		1	2	6	11	15	104	140	8	3	2	272	248	16	104	142	8	4	4	278	259
Chelan	1		1		1	1	4	5		3	3	1	2		9	7	1	3	4	1	3	1	13	12
Rural	1					1	2	3		1		1	1		3	5	1	1		1	1	1	5	8
Wenatchee			1		1		2	2		2	3		1		6	2		2	4		2		8	4
Clallam			1	1			2	3			1	2			3	2			2	3			5	5
Rural				1			1	3			1				1	1			1	1			2	4
Port Angeles			1				1					2			2	1			1	2			3	1
Clark	8	6	7	2	5	14	42	12	6	10	14		2	13	45	42	14	16	21	2	7	27	87	54
Rural	4	3	6		3	4	20	3	2	4	3			7	16	24	6	7	9		3	11	36	27
Vancouver	4	3	1	2	2	10	22	9	4	6	11		2	6	29	18	8	9	12	2	4	16	51	27
Columbia			1			1	2												1			1	2	
Cowlitz	5	6	8	3		9	31	5	9	2	2	1	1		15	5	14	8	10	4	1	9	46	10
Rural	2	4	6	2		1	15	3	9	2	2	1	1		15	4	11	6	8	3	1	1	30	7
Longview	3	2	2	1		8	16	2								1	3	2	2	1		8	16	3
Douglas								1																1
Ferry	1						1		1						1		2						2	
Franklin	2	3	10			2	17	11	11	27	38	3			79	69	13	30	48	3		2	96	80
Garfield									2	1					3		2	1					3	
Grant	4	2					6	2	2	3	2	1			8	8	6	5	2	1			14	10
Grays Harbor	4	1	1	1	1	2	10	9	9	1	2	1	1		14	14	13	2	3	2	2	2	24	23
Rural		1	1			2	4	1	3	1					4	3	3	2	1			2	8	4
Aberdeen	3						3	4	5						5	4	8						8	8
Hoquiam	1			1	1		3	4	1		2	1	1		5	7	2		2	2	2		8	11
Island																1								1
Jefferson			1				1	4		1		1			2			1	1	1			3	4
King	42	25	37	22	3	3	132	197	143	92	141	49	16	8	449	1344	185	117	178	71	19	11	581	1541
Rural	6	1	2	5	1		15	21	15	6	20	11	1		53	88	21	7	22	16	2		68	109
Seattle	36	24	35	17	2	3	117	176	128	86	121	38	15	8	396	1256	164	110	156	55	17	11	513	1432
Kitsap	8	4	17	4		2	35	13	10	7	16	4	3	7	47	71	18	11	33	8	3	9	82	84
Rural	5	3	8	1			17	7	3	5	4	1		3	16	33	8	8	12	2		3	33	40
Bremerton	3	1	9	3		2	18	6	7	2	12	3	3	4	31	38	10	3	21	6	3	6	49	44
Kittitas	1		2		1	2	6		4	1		1		1	7	1	5	1	2	1	1	3	13	1
Klickitat									3	2					5	1	3	2					5	1
Lewis	3		2	2		1	8	8	2	1	4		1		8	13	5	1	6	2	1	1	16	21

TABLE 72 - CIVILIAN CASES OF SYPHILIS, BY STAGE, AND GONORRHEA, REPORTED IN THE COUNTIES AND MAJOR CITIES OF THE STATE OF WASHINGTON, BY REPORTING AGENCY, 1948

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	Go.	Pri. & Sec.	Early Lat.	Late Lat.	Ter-tiary	Cong.	Not Stat.	Syph. Total	Go.	Pri. & Sec.	Early Lat.	Late Lat.	Ter-tiary	Cong.	Not Stat.	Syph. Total	Go.
Lincoln																								
Mason	1		1				2		6	4	3	1		2	16	4	7	4	4	1		2	18	4
Okanogan	4		2			2	8	8	5	3	1		2	4	15	7	9	3	3		2	6	23	15
Pacific	1						1	1		3	2	1			6		1	3	2	1			7	1
Pend Oreille			1				1												1				1	
Pierce	4	11	15	6		4	40	39	28	39	36	4	4	8	119	236	32	50	51	10	4	12	159	275
Rural	1	4	4	2		3	14	7	8	6	10	2		3	29	32	9	10	14	4		6	43	39
Tacoma	3	7	11	4		1	26	32	20	33	26	2	4	5	90	204	23	40	37	6	4	6	116	236
San Juan																								
Skagit	5	1	4	1		1	12	14	10	3	2	2	1	1	19	5	15	4	6	3	1	2	31	19
Skamania						1	1									1						1	1	1
Snohomish	2		3	1		1	7	9	5	5	5	3	5	1	24	12	7	5	8	4	5	2	31	21
Rural			3			1	4	4	4	4	5	2	4	1	20	8	4	4	8	2	4	2	24	12
Everett	2			1			3	5	1	1		1	1		4	4	3	1		2	1		7	9
Spokane	7	10	15	9	1		42	33	17	20	21	20		1	79	156	24	30	36	29	1	1	121	189
Rural	1	1			1		3	2	1	1	3	20		1	26	5	2	2	3	20	1	1	29	7
Spokane	6	9	15	9			39	31	16	19	18				53	151	22	28	33	9			92	182
Stevens			1				1	1	1					1	2	2	1		1			1	3	3
Thurston	1		1				2	10	1	6	2	2		2	13	6	2	6	3	2		2	15	16
Rural								4	1	5	1	1		1	9	4	1	5	1	1		1	9	8
Olympia	1		1				2	6		1	1	1		1	4	2	1	1	2	1		1	6	8
Wahkiakum																								
Walla Walla	1						1	3	2	4	2				8	24	3	4	2				9	27
Rural								2	1						1	6	1						1	8
Walla Walla	1						1	1	1	4	2				7	18	2	4	2				8	19
Whatcom	4	1	1	3	2	2	13	16	1	4	6	1	1	1	14	9	5	5	7	4	3	3	27	25
Rural	2	1	1		1	2	7	8	1		3		1		5	5	3	1	4		2	2	12	13
Bellingham	2			3	1		6	8		4	3	1		1	9	4	2	4	3	4	1	1	15	12
Whitman	1	1	1	2			5	1		2				1	3	3	1	3	1	2		1	8	4
Yakima	6	11	13	5		5	40	44	29	53	24	5	13	3	127	187	35	64	37	10	13	8	167	231
Rural	5	6	8	4		5	28	32	14	33	13		10	1	71	86	19	39	21	4	10	6	99	118
Yakima	1	5	5	1			12	12	15	20	11	5	3	2	56	101	16	25	16	6	3	2	68	113
URBAN TOTAL	66	51	81	42	7	24	271	298	198	178	210	54	30	27	697	1811	264	229	291	96	37	51	968	2109
RURAL TOTAL	51	31	67	20	9	31	209	162	124	223	257	57	25	29	715	667	175	254	324	77	34	60	924	829
GRAND TOTAL	117	82	148	63	16	55	480	460	322	401	467	111	55	56	1412	2478	439	483	615	173	71	111	1892	2938

TABLE 73

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, ALLOCATED TO RESIDENCE OF DECEDENT, 1948

County or City	Syphilis		All Others	
	No.	Rate	No.	Rate
Adams				
Asotin				
Benton	1	2.1		
Rural	1	3.9		
Richland				
Chelan	2	5.2		
Rural				
Wenatchee	2	15.4		
Clallam				
Rural				
Port Angeles				
Clark	2	2.7		
Rural	1	2.2		
Vancouver	1	3.3		
Columbia				
Cowlitz	4	7.5		
Rural	2	5.9		
Longview	2	10.3		
Douglas				
Ferry				
Franklin				
Garfield				
Grant	1	8.0		
Grays Harbor	8	14.9		
Rural	1	4.7		
Aberdeen	6	29.3		
Hoquiam	1	8.3		
Island				
Jefferson				
King	39	5.8		
Rural	7	3.9		
Renton	1	6.2		
Seattle	31	6.5		
Kitsap	2	2.6		
Rural	1	2.2		
Bremerton	1	3.1		
Kittitas	1	4.2		
Klickitat				
Lewis	1	2.3		
Lincoln				

County or City	Syphilis		All Others	
	No.	Rate	No.	Rate
Mason	1	7.7		
Okanogan	2	7.2		
Pacific				
Pend Oreille				
Pierce	21	10.1		
Rural	5	8.2		
Puyallup	1	10.0		
Tacoma	15	10.9		
San Juan				
Skagit				
Skamania				
Snohomish				
Rural	4	6.5		
Everett				
Spokane	11	5.3		
Rural	3	5.3		
Spokane	8	5.3		
Stevens	1	5.3		
Thurston	6	15.1		
Rural	5	21.3		
Olympia	1	6.1		
Wahkiakum				
Walla Walla				
Rural				
Walla Walla				
Whatcom	1	1.6		
Rural				
Bellingham	1	3.0		
Whitman				
Yakima	6	5.0		
Rural	2	2.5		
Yakima	4	10.3		
URBAN TOTAL	75	6.8	0	0.0
RURAL TOTAL	39	3.7	0	0.0
GRAND TOTAL	114	5.3	0	0.0

SECTION IX

* * * * *

MEDICAL PERSONNEL, HOSPITAL FACILITIES, AND RELATED STATISTICS

Table 74 - GENERAL HOSPITAL BEDS PER 1000 POPULATION BY COUNTIES, STATE OF WASHINGTON, 1948

County	Population[1]	Number of Hospitals[2]	Beds In Use[2]	Beds Per 1000 Population
AL[illegible]	7,044	1	18	2.6
ASOTIN	12,032	1	12	1.0
BENTON	52,548	2	124	2.4
CHELAN	43,639	4	230	5.3
CLALLAM	25,894	2	150	5.8
CLARK	88,193	4	656	7.4
COLUMBIA	6,414	1	22	3.4
COWLITZ	60,938	2	153	2.5
DOUGLAS	10,531	0	0	0.0
FERRY	4,936	1	10	2.0
FRANKLIN	14,709	1	68	4.6
GARFIELD	3,421	1	17	5.0
GRANT	22,185	1	25	1.1
GRAYS HARBOR	61,603	3	237	3.8
ISLAND	8,660	0	0	0.0
JEFFERSON	10,281	1	90	8.8
KING	761,249	23	2,730	3.6
KITSAP	86,692	2	251	2.9
KITTITAS	26,954	4	116	4.3
KLICKITAT	12,843	2	46	3.6
LE[illegible]S	50,910	3	101	2.0
L[illegible]LN	12,986	0	0	0.0
MASON	14,911	2	70	4.7
OKANOGAN	31,802	3	124	3.9
PACIFIC	17,828	2	55	3.1
PEND OREILLE	8,566	2	35	4.1
PIERCE	236,136	8	864	3.7
SAN JUAN	6,169	0	0	0.0
SKAGIT	51,532	5	194	3.8
SKAMANIA	5,140	0	0	0.0
SNOHOMISH	108,848	5	303	2.8
SPOKANE	237,015	6	932	3.9
STEVENS	21,677	3	100	4.6
THURSTON	44,657	1	134	3.0
WAHKIAKUM	4,569	0	0	0.0
WALLA WALLA	36,243	2	180	5.0
WHATCOM	71,720	3	281	3.9
WHITMAN	34,325	3	201	6.6
YAKIMA	137,200	4	408	3.0
ALL COUNTIES	2,453,000	108	8,937	3.6

1/ Based on "Estimated Population of the State of Washington, by County, City and Rural Areas, July 1, 1948," prepared by the Washington State Department of Health, Section of Public Health Statistics; "Populations of the Chartered and Incorporated Towns and Cities of the State of Washington: April 1, 1940, April 1, 1947, and April 1, 1948," Washington State Census Board; and on "Current Population Reports" as of July 1, 1948, Series P-25, No. 14, Bureau of the Census.

2/ From records on file in the Hospital Planning and Development Section of the State Department of Health.

Table 75 - BEDS IN NURSING HOMES PER 1000 POPULATION, BY COUNTIES, STATE OF WASHINGTON, 1948[1]

County	Population[2]	Number of Homes	Beds In Use	Beds Per 1000 Population
ADAMS	7,044	1	5	0.7
ASOTIN	12,032	6	94	0.8
BENTON	52,548	0	0	0.0
CHELAN	43,639	2	28	0.6
CLALLAM	25,894	2	75	2.9
CLARK	88,193	9	186	2.1
COLUMBIA	6,414	1	21	3.3
COWLITZ	60,938	1	10	0.2
DOUGLAS	10,531	1	25	2.4
FERRY	4,936	1	5	1.0
FRANKLIN	14,709	0	0	0.0
GARFIELD	3,421	0	0	0.0
GRANT	22,185	0	0	0.0
GRAYS HARBOR	61,603	5	102	1.7
ISLAND	8,660	3	53	6.1
JEFFERSON	10,281	1	40	3.9
KING	761,249	40	1,384	1.8
KITSAP	86,692	2	38	0.4
KITTITAS	26,954	2	47	1.7
KLICKITAT	12,843	1	10	0.8
LEWIS	50,910	7	211	4.1
LINCOLN	12,986	3	28	2.2
MASON	14,911	0	0	0.0
OKANOGAN	31,802	1	12	0.4
PACIFIC	17,828	3	34	1.9
PEND OREILLE	8,566	1	8	0.9
PIERCE	236,136	14	535	2.3
SAN JUAN	6,169	0	0	0.0
SKAGIT	51,532	5	87	1.7
SKAMANIA	5,140	1	32	6.2
SNOHOMISH	108,848	14	288	2.6
SPOKANE	237,015	36	706	3.0
STEVENS	21,677	1	34	1.6
THURSTON	44,657	2	24	0.5
WAHKIAKUM	4,569	0	0	0.0
WALLA WALLA	36,243	7	76	2.1
WHATCOM	71,720	7	269	3.8
WHITMAN	34,325	2	50	1.5
YAKIMA	137,200	14	316	2.3
ALL COUNTIES	2,453,000	196	4,833	2.0

1/ Includes those chronic disease units of general hospitals, chronic disease hospitals, nursing homes admitting bed patients, and nursing home units of boarding homes for which information was available to the State Department of Health.

2/ Based on "Estimated Population of the State of Washington, by County, City and Rural Areas, July 1, 1940," prepared by the Washington State Department of Health, Section of Public Health Statistics; "Populations of the Chartered and Incorporated Towns and Cities of the State of Washington: April 1, 1940, April 1, 1947, and April 1, 1948," Washington State Census Board; and on "Current Population Reports" as of July 1, 1948, Series P-25, No. 14, Bureau of the Census.

Table 76
REGISTERED NURSES AND THEIR FIELD OF NURSING BY COUNTIES,
STATE OF WASHINGTON, 1948[1]

County	Active in Nursing by Field of Nursing: Institutional	Private Duty	Public Office	Public Health	Other	All Active Nurses	Inactive Nurses	Total Reporting
ADAMS	1	1	1	1	0	4	1	5
ASOTIN	1	3	0	1	1	6	3	9
BENTON	28	2	9	7	42	88	39	127
CHELAN	41	16	10	4	15	86	42	128
CLALLAM	20	13	8	5	9	55	33	88
CLARK	67	19	19	8	20	133	47	180
COLUMBIA	2	1	0	0	0	3	4	7
COWLITZ	40	9	11	7	10	77	30	107
DOUGLAS	0	1	0	0	0	1	8	9
FERRY	2	1	0	0	1	4	5	9
FRANKLIN	13	4	1	1	3	22	23	45
GARFIELD	0	1	0	0	0	1	0	1
GRANT	11	3	2	2	7	25	22	47
GRAYS HARBOR	63	12	9	4	10	98	43	141
ISLAND	6	4	2	0	2	14	5	19
JEFFERSON	6	3	4	2	1	16	19	35
KING	1,011	353	264	152	275	2,055	865	2,920
KITSAP	82	14	17	12	15	140	79	219
KITTITAS	25	10	8	7	7	57	29	86
KLICKITAT	2	0	1	0	0	3	29	32
LEWIS	39	4	6	5	4	58	25	83
LINCOLN	3	3	1	0	2	9	19	28
MASON	11	0	4	1	1	17	22	39
OKANOGAN	11	10	4	2	2	29	27	56
PACIFIC	12	2	1	0	1	16	9	25
PEND OREILLE	2	0	2	0	1	5	4	9
PIERCE	306	103	67	38	72	586	313	899
SAN JUAN	3	3	1	1	2	10	5	15
SKAGIT	42	19	12	5	9	87	45	132
SKAMANIA	1	0	1	0	0	2	3	5
SNOHOMISH	81	26	38	15	24	184	132	316
SPOKANE	209	132	74	19	65	499	277	776
STEVENS	13	4	2	0	1	20	12	32
THURSTON	20	24	10	5	11	70	41	111
WAHKIAKUM	0	0	0	1	1	2	4	6
WALLA WALLA	55	37	14	8	26	140	57	197
WHATCOM	76	26	33	7	12	154	86	240
WHITMAN	40	12	11	6	10	79	43	122
YAKIMA	76	42	31	7	30	186	113	299
ALL COUNTIES	2,421	917	678	333	692	5,041	2,563	7,604

[1] From data furnished by Mrs. Mary S. Farah, Acting Executive Secretary, Washington State Nurses' Association.

Table 77

PHYSICIANS IN RELATION TO POPULATION BY COUNTIES, STATE OF WASHINGTON, 1948[1]

County	Population[2]	Number of Physicians In Active Practice[3]	Physicians Per 1000 Population	Persons Per Physician
Al	7,044	5	0.71	1,409
ASOTIN	12,032	3	0.25	4,011
BENTON	52,548	44	0.84	1,194
CHELAN	43,639	45	1.03	970
CLALLAM	25,894	17	0.66	1,523
CLARK	88,193	67	0.76	1,316
COLUMBIA	6,414	3	0.53	2,138
COWLITZ	60,938	36	0.59	1,693
DOUGLAS	10,531	6	0.57	1,755
FERRY	4,936	2	0.41	2,468
FRANKLIN	14,709	9	0.61	1,634
GARFIELD	3,421	3	0.88	1,140
GRANT	22,185	10	0.45	2,218
GRAYS HARBOR	61,603	46	0.75	1,339
ISLAND	8,660	5	0.58	1,732
JEFFERSON	10,281	7	0.68	1,469
KING	761,249	1,117	1.47	682
KITSAP	86,692	60	0.69	1,445
KITTITAS	26,954	16	0.59	1,685
KLICKITAT	12,843	8	0.62	1,605
LEWIS	50,910	26	0.51	1,958
LINCOLN	12,986	9	0.69	1,443
MASON	14,911	7	0.47	2,130
OKANOGAN	31,802	17	0.53	1,871
PACIFIC	17,828	10	0.56	1,783
PEND OREILLE	8,566	5	0.58	1,713
PIERCE	236,136	276	1.17	856
SAN JUAN	6,169	3	0.49	2,056
SKAGIT	51,532	36	0.70	1,431
SKAMANIA	5,140	2	0.39	2,570
SNOHOMISH	108,848	77	0.71	1,414
SPOKANE	237,015	280	1.18	846
STEVENS	21,677	11	0.51	1,971
THURSTON	44,657	35	0.78	1,276
WAHKIAKUM	4,567	2	0.44	2,284
WALLA WALLA	36,243	40	1.10	906
WHATCOM	71,720	69	0.96	1,039
WHITMAN	34,325	34	0.99	1,010
YAKIMA	137,200	91	0.66	1,508
ALL COUNTIES	2,453,000	2,539	1.04	966

1/ Data from American Medical Directory, pp. 1984-2004. Excludes 178 physicians retired or not in practice.

2/ Based on "Estimated Population of the State of Washington, by County, City and Rural Areas, July 1, 1948," prepared by the Washington State Department of Health, Section of Public Health Statistics, "Populations of the Chartered and Incorporated Towns and Cities of the State of Washington: April 1, 1940, April 1, 1947, and April 1, 1948," Washington State Census Board; and on "Current Population Reports" as of July 1, 1948, Series P-25, No. 14, Bureau of the Census.

3/ Includes physicians in practice at institutions and hospitals, armed forces' hospitals and in public health work.

Table 78 - ASSESSED VALUE OF REAL AND PERSONAL PROPERTY AND INCOME PER CAPITA, STATE OF WASHINGTON, 1948

Counties	Population 1/	Assessed Value 2/	Effective Buying Income 3/	Income Per Capita
ADAMS	7,044	$14,578,411	$8,281,000	$1,176
ASOTIN	12,032	5,427,645	5,619,000	467
BENTON	52,548	15,368,882	60,249,000	1,147
CHELAN	43,639	30,360,497	54,714,000	1,254
CLALLAM	25,894	15,269,616	27,505,000	1,062
CLARK	88,193	31,341,108	119,450,000	1,354
COLUMBIA	6,414	8,855,019	6,802,000	1,060
COWLITZ	60,938	30,220,595	53,530,000	878
DOUGLAS	10,531	12,452,094	6,025,000	572
FERRY	4,936	2,519,407	2,958,000	599
FRANKLIN	14,709	11,492,030	20,976,000	1,426
GARFIELD	3,421	6,006,095	4,140,000	1,210
GRANT	22,185	13,970,811	13,013,000	587
GRAYS HARBOR	61,603	26,188,413	82,514,000	1,339
ISLAND	8,660	3,656,937	6,321,000	730
JEFFERSON	10,281	5,450,532	9,759,000	949
KING	761,249	484,855,691	1,200,964,000	1,578
KITSAP	86,692	25,914,625	126,248,000	1,456
KITTITAS	26,954	18,592,217	27,209,000	1,009
KLICKITAT	12,843	11,645,261	11,830,000	921
LEWIS	50,910	32,441,121	43,180,000	848
LINCOLN	12,986	24,003,419	14,491,000	1,116
MASON	14,911	8,211,050	15,083,000	1,012
OKANOGAN	31,802	15,048,060	22,773,000	716
PACIFIC	17,828	11,830,327	20,110,000	1,128
PEND OREILLE	8,566	4,851,142	6,802,000	794
PIERCE	236,136	113,809,361	350,008,000	1,482
SAN JUAN	6,169	1,763,114	3,549,000	575
SKAGIT	51,532	27,477,750	40,518,000	786
SKAMANIA	5,140	4,908,125	3,253,000	633
SNOHOMISH	108,848	50,834,414	125,147,000	1,150
SPOKANE	237,015	152,492,503	344,513,000	1,454
STEVENS	21,677	11,635,583	15,970,000	737
THURSTON	44,657	22,506,901	52,644,000	1,179
WAHKIAKUM	4,569	2,006,566	3,844,000	841
WALLA WALLA	36,243	34,275,966	50,573,000	1,395
WHATCOM	71,720	34,203,823	77,512,000	1,081
WHITMAN	34,325	43,293,179	43,771,000	1,275
YAKIMA	137,200	57,607,464	139,925,000	1,020
ALL COUNTIES	2,453,000	$1,427,365.754	$3,221,773,000	$1,313

1/ Based on "Estimated Population of the State of Washington, by County, City and Rural Areas, July 1, 1948," prepared by the Washington State Department of Health, Section of Public Health Statistics; "Populations of the Chartered and Incorporated Towns and Cities of the State of Washington: April 1, 1940, April 1, 1947, and April 1, 1948," Washington State Census Board; and on "Current Population Reports" as of July 1, 1948, Series P-25, No. 14, Bureau of the Census.

2/ From Exhibit "Statement of Taxes Due in 1948, Segregated by Funds, Functions, and Counties (as reported by County Assessors), prepared by the Division of Municipal Corporations, Cliff Yelle, State Auditor, State of Washington.

3/ Taken from estimates in "Sales Management," May 10, 1949, pp. 574-581.