

PUBLIC HEALTH STATISTICS

STATE OF

OKLAHOMA

1949



PART II

BIRTHS AND DEATHS

Oklahoma State Department of Health
Oklahoma City, Oklahoma

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BIRTHS AND DEATHS

1949

Public Health Statistics, an annual summary of the births and deaths which have occurred to the people of Oklahoma, is published primarily as a tool for public health workers, the medical profession, research workers, and others interested in promoting physical and mental health for the public. It is the intent that the statistics contained in this and other bulletins in the series may serve as a driving rod for discovering local health needs and as a yardstick for measuring results in meeting these needs. This is the seventh edition of the bulletin and contains data relating to births, stillbirths, and deaths that occurred in 1949. Analysis of the data is somewhat limited in scope, but some of the findings of particular interest to the public health workers of today have been selected for discussion.

An appendix containing general tabulations for the State as a whole and for each county has been included to be used as a basis for further analyses as needed. More detailed information is available either in tabular form or in special publications prepared by the Division of Statistics of the Oklahoma State Department of Health.

POPULATION

Preliminary counts from the 1950 census were available for making 1949 population estimates for each county to be used as the base for computing rates. Characteristics of the population were not yet known so that data related to the population were limited to racial groups for the State as a whole and to total populations for counties and cities. Estimates for the counties have been made by decreasing or increasing the 1950 enumeration, according to the general trend, but the 1950 provisional figures have been used for the cities.

Population estimates for other years were based on the 1940 census, the 1945 Ration Book IV registration, school censuses, and the natural increase of the population indicated by the excess of births over deaths. No attempt as yet has been made to re-estimate the populations for the years 1940-1948 and to revise rates but this is anticipated for the 1950 bulletin.

RESIDENCE ALLOCATION

Through the voluntary exchange of copies of birth and death certificates between the States, sponsored by the National Office of Vital Statistics, births and deaths are reallocated to the resident state for statistical purposes. This procedure makes it possible to determine the number of births and deaths occurring to the resident population of

Oklahoma, regardless of where in the United States the events take place. Alaska, Canada, and Hawaii also participate in the program for the exchange of certificates. Correction of residence within the State is made on a county and city basis.

The usual residence as specified on the certificate is generally used for residence reallocation. If, however, information entered on the certificate in the place of birth or death indicates that the mother, in case of a birth, or decedent had lived in the place of birth or place of death for one year or more that is considered to be the place of residence also for statistical tabulations.

Most of the statistics in the bulletin are based on data which have been corrected for residence. Table C, however, which shows the births, stillbirths, deaths, infant and neonatal deaths for each county according to the place of occurrence of the event, has been included since this information is of value for some purposes. Other death tabulations for each county and city according to place of occurrence are on file.

As in 1948, the number of resident births and deaths occurring outside of Oklahoma exceeded the number of non-residents who were born or died in the State. This relationship is shown in Table 1.

Table 1

Residence Allocation, Oklahoma, 1949

	Non-Resident Certificates Excluded	Resident Transcripts Included
Births	1,278	1,654
Deaths	483	979

The states which reallocated the largest number of Oklahoma resident births and deaths are listed in Table 2. As might be expected, more of the resident births and deaths which occurred in other states were recorded in the states along the border, with Texas leading the list. Copies of two birth certificates and one death certificate were received from Canada, and one birth certificate was received from Alaska.

Table 2
Births and Deaths of Oklahoma Residents Occurring
Outside Oklahoma, by State in Which the Events Occurred
1949

State	Number	
	Births	Deaths
Total	1,654	979
Arizona	10	31
Arkansas	443	173
California	3	30
Colorado	15	32
Illinois	4	15
Kansas	355	192
Kentucky	16	3
Mississippi	14	5
Missouri	106	90
New Mexico	40	26
Tennessee	16	5
Texas	532	295
Virginia	11	3
Washington	21	1
Wyoming	7	6
All Others	61	72

CAUSE OF DEATH CLASSIFICATION

Coding Procedures

In 1948 the World Health Organization published the International Statistical Classification of Diseases, Injuries and Causes of Death, as the sixth decennial revision of the International List. This list, along with the special instructions for coding causes of death, was used during 1949 for primary classification of causes of death for statistical purposes. All of the statistics published in this bulletin for that year, except when otherwise specified, have been based on deaths classified according to the sixth revision, and the numbers in parentheses following each disease category refer to the list numbers included.

During the decade prior to 1949, the fifth revision of the List and the Manual for Joint Causes of Death was used for the selection of the primary cause to be used for statistical classification. Some of the changes

made in the inclusions in the categories for the sixth revision, and in the procedures for the selection of a single cause of death brought about some incomparability between the statistics for 1949 and those for previous years.

In order to determine how much the statistics were affected by these changes, the death certificates for 1949 were coded according to both the fifth and sixth revisions of the International List and a comparability ratio prepared for each main category. The results of this dual coding are shown in Table B in the appendix.

Comparability Ratios

The "comparability ratio" for each category is the ratio of the number of deaths classified to that category by the sixth revision to the number of deaths thus classified by the fifth revision. It is an index of how much of the increase or decrease in the number of deaths for a specific cause was due to the difference in coding procedures alone. The comparability ratio for any category may be applied to the number of deaths assigned to that category in previous years to estimate how many deaths would have been attributed to that cause had the sixth list and coding procedures been used instead of the fifth. Rates computed for the estimated number of deaths would then be comparable with the 1949 rates to determine increases or decreases in specific death rates. Table A, however, shows the deaths in 1949, with death rates, classified according to the fifth revision of the International List. These rates of course are comparable with the rates for any other years included in the same table.

Some of the major changes in the inclusions for the cause-of-death categories in the fifty-cause list were the addition of Hodgkin's disease and leukemia to the malignant neoplasm group; these diseases were formerly in the categories "other infectious and parasitic diseases" and "diseases of the blood and blood-forming organs," respectively. During 1949 there were 18 deaths assigned to Hodgkin's disease and 102 deaths assigned to leukemia by the fifth revision. There were 58 deaths assigned to "gentle psychosis"; these would have been tabulated as "genility" according to the fifth revision grouping but were classified to the category "psychoses" in the sixth revision and included in the residual group "all other diseases" for the fifty-cause list.

Most of the terms or combinations of conditions that were included in the subtitle "arteriosclerotic kidney" under chronic nephritis in the fifth revision were transferred to either the group "hypertensive heart disease with arteriolar nephrosclerosis" or "hypertension with arteriolar nephrosclerosis without mention of heart."

Pneumonia and diarrhea in infants under one month of age, in the sixth revision were included in the group "infections of the newborn" but were a part of the "pneumonia" and "diarrhea and enteritis" groups previously. Infant death statistics were affected even more by the inclusion of prematurity as a subtitle for each of the categories for diseases

peculiar to early infancy; prematurity took precedence over many other diseases in the old joint-cause weight tables used for selection of a single cause of death.

Other changes in inclusion terms under the different categories did not affect the statistics greatly, either because the number of deaths due to the diseases involved was small or because the change of diseases from one category to another occurred within one of the major groups in the fifty-cause list. The changes in procedure from the fifth to the sixth revision for the selection of a single underlying cause of death had more effect upon the statistics than did the changes in inclusion of terms in the tabular list.

The table below shows the major groups that showed the largest decrease in deaths due to changes in coding procedures, with a breakdown of the deaths assigned to these groups by the fifth revision according to the sixth revision classification.

Table 3
Deaths from Selected Causes as Classified by the Fifth Revision, Broken Down According to the Sixth Revision Classification Oklahoma, 1949

Cause of Death	Number Classified by	
	Sixth Revision	Fifth Revision
Diabetes	291	443
Vascular lesions of CNS	33	
Diseases of the heart	84	
Other causes	35	
Bronchitis	20	44
Bronchiectasis	12	
Asthma	2	
Other causes	10	
Ulcer of stomach and duodenum	84	111
Diseases of the heart	13	
Other causes	14	
Cirrhosis of liver	109	142
Diseases of the heart	19	
Other causes	14	
Nephritis and nephrosis	438	1,067
Vascular lesions of CNS	18	
Hypertensive heart disease with arteriolar nephrosclerosis	323	
Other diseases of the heart	128	
Hypertension with arteriolar nephrosclerosis	67	
Uremia, unqualified	20	
Other causes	73	

The numbers of deaths assigned to meningococcal meningitis, rheumatic fever, hypertension without heart disease, influenza and hyperplasia of prostate were increased more by changes in coding procedures, than any other diseases as shown on Table B in the appendix.

LIVE BIRTHS

In 1949 there were 49,971 resident live births which, though fewer than the 50,428 births reported in 1948, gave an increased rate of 22.3. The birth rates for the white and Negro groups were lower than for Indians; the Indian rate of 32.5, however, was somewhat accelerated by a change in coding procedures. Prior to 1949, births to mixed white and Indian parents were classified according to the race of the father; in 1949, births to mixed parents were all classified according to the minor racial group specified.

Table 4

Live Births, Number and Rate,* by Race
Oklahoma, 1948-1949

Year	Total		White		Negro		Indian	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1948	50,428	21.6	45,083	21.4	3,639	22.6	1,706	27.0
1949	49,971	22.3	44,272	21.9	3,647	23.6	2,052	32.5

*Number per 1,000 live births.

The per cent of infants delivered in hospitals continued to increase in 1949. As late as ten years ago (1940) only 40.1 per cent of the live births were delivered in hospitals. Except in the Indian race, the change in the last year seemed to be from delivery by physician in home to physician in hospital, with delivery by midwife in home remaining practically unchanged. In the Indian racial group, it was delivery by midwife and other which showed a decrease and delivery by physician in home changed only slightly.

Table 5

Live Birth Attendance by Race,
Oklahoma, 1949

Attendance at Birth	Total		White		Negro		Indian	
	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Per Cent
Total	49,971	100.0	44,272	100.0	3,647	99.9	2,052	100.0
Physician in hospital	41,078	82.2	37,639	85.0	1,730	47.4	1,709	83.3
Physician in home	7,507	15.0	6,293	14.2	1,004	27.5	210	10.2
Midwife and other	1,386	2.8	340	0.8	913	25.0	133	6.5

Table 6, below, shows the per cent of live births delivered in hospitals and by physicians, urban and rural. For the white race, the percentages were practically equal, 96.8 and 99.7 per cent, for both urban and rural deliveries by physicians. The most pronounced difference between urban and rural deliveries may be seen in the Negro race. It is interesting to see, however, that the percentages for the Indian race did not differ a great deal from those for the white race; the proportion of rural Indian live births delivered in hospitals was actually larger than that of the rural white live births.

Table 6

Percentages of Live Births Delivered in Hospitals and by Physicians
by Urban or Rural Residence of Mother, by Race
Oklahoma, 1949

Attendance at Birth	Total		White		Negro		Indian	
	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural
Per cent delivered in hospitals	91.8	72.7	94.9	75.2	61.4	25.5	93.4	79.9
Per cent delivered by physicians	98.2	96.3	99.7	98.8	83.1	62.2	99.4	91.5

Immature Births

This is the second year that data on immaturity based on birth weight have been available from the live birth tabulations, since an item for birth weight was first included in the 1948 revision of the standard certificate of live birth. In 1949 this item was complete on 96 per cent of the certificates, compared with 93 per cent in 1948. Infants with birth weight under five and one-half pounds were classified as immature. Table 7, below, shows that the Negro race had a higher percentage of immature births than the white or Indian races, based on birth weight alone as a criterion.

Table 7

Percentage of Immature Births, by Race,
Oklahoma, 1949

Live births with birth weight specified	Total		White		Negro		Indian	
	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Per Cent
Birth weight less than 5½ pounds	48,003	96.2	42,613	95.5	3,448	94.2	1,942	95
Per cent	2,710	5.4	2,363	5.5	252	7.3	95	4.9

Approximately two-thirds of the 2,710 immature infants weighed four and one-half to five and one-half pounds at birth, (Table 8). A higher per cent of immature infants whose mothers were 20-24 years of age were in the upper weight brackets than any other age group. The average age of mothers of the immature babies at delivery was 25.7 years compared with 25.9 years for mothers of total live births.

Table 8
Resident Immature Births, by Birth Weight and Age of Mother, Oklahoma, 1949

Birth Weight	Total	Under 15	Age of Mother					45 & Over	Unk.
			15-19	20-24	25-29	30-34	35-44		
Live births with birth weight specified	48,003	88	8,354	16,581	11,787	6,339	4,603	93	171
Total Immature Births	2,710	7	513	920	642	352	267	4	5
4 lb 8 oz - 5 lb 7 oz	1,737	2	328	605	415	224	158	-	5
3 lb 8 oz - 4 lb 7 oz	537	2	96	186	123	63	65	2	5
2 lb 8 oz - 3 lb 7 oz	252	2	53	74	63	31	27	-	-
Less than 2 lb 8 oz	184	1	36	55	41	34	17	-	-

A higher percentage, 8.0 in 1949, of the infants born to mothers under 15 years of age were immature than for any other age group. The number of births to mothers under 15 was very small, but the average immature birth rate in this group for the two years 1948-1949, was still higher than for any other age group. Mothers age 45-54 had the smallest percentage of immature births, but the total number in this group was small also.

Mortality of Immature Infants

During 1949 the death certificates for resident infants were matched with the corresponding birth certificates for the preparation of special infant mortality data. Although the unmatched infant deaths were necessarily excluded from the study, the figures for deaths of immature infants have been compared with the 1949 immature birth data as an estimate of premature mortality rates.

Of the 2,710 infants weighing less than five and one-half pounds at birth, 525, or 19.4 per cent, died before they were one month of age. The proportion of immature infants that died varied for the three racial groups: 13.5 per cent for Negroes, 19.9 per cent for whites and 22.1 per cent for Indians.

The mortality rate for the smaller babies was high, with 90.8 per cent of those weighing less than 2 lbs. 9 oz. dying before one month of age. Only 6.4 per cent of the infants weighing 4 lbs. 9 oz. to 5 lbs. 8 oz. died during the neonatal period.

A total of 299, or 57 per cent, of the neonatal deaths among immature infants occurred during the first day of life, with the death rates decreasing with each day of life thereafter.

Almost 50 per cent of the deaths were assigned to immaturity as the cause of death, with another 46 per cent of the deaths attributed to congenital malformations, injuries at birth and other diseases peculiar to the first year of life.

STILLBIRTHS

There were only 860 stillbirths in 1949, striking a new low compared with the previous low number in 1942 of 911 stillbirths.

The Negro and Indian races had high rates - 35.6 and 21.9, respectively - compared with the white rate of 15.5 stillbirths per 1,000 live births.

The per cents of Negro and Indian stillbirths delivered by midwives and other non-professional attendants remained higher than the per cent of white stillbirths, and did not change much from the year before, although the percentages have been decreasing during the past twenty years.

Table 9
Stillbirth Attendance by Race, Oklahoma, 1949

Attendance at Birth	Total		White		Negro		Indian	
	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Per Cent
Total	860	100.0	685	100.0	130	100.0	45	99.9
Physician in hospital	655	76.2	559	81.6	63	48.5	33	73.3
Physician in home	167	19.4	113	16.5	48	36.9	6	13.3
Midwife and other	38	4.4	13	1.9	19	14.6	6	13.3

Certificates listing ill-defined or unknown causes of stillbirths formed 30.0 per cent of the number filed in 1949. This was somewhat lower than in 1948. Of those with cause specified, 65.8 per cent were attributed to aberrations in the fetus. This was expected because on certificates with joint causes of stillbirth, causes determined in the fetus, placenta and cord invariably took precedence in assignment over causes and conditions in the mother. Placental and cord conditions and congenital malformations of the fetus were the main causes determined in the fetus, accounting for 71.2 and 18.7 per cent, respectively, of these deaths. Of the causes determined in the mother or related to pregnancy, 49.0 per cent were due to difficulties in labor and 21.8 per cent to toxemias of pregnancy. Table 10 shows the distribution of the stillbirths by cause.

Table 10
Resident Stillbirths by Cause of Stillbirth,
Oklahoma, 1949

Cause of Stillbirth	Number	Per Cent
Total	860	100.0
Causes Determined in the Mother, or Related to Pregnancy:	206	24.0
Diabetes mellitus (Y30.2)	7	0.8
Chronic disease of genito-urinary system (Y30.4)	6	0.7
Other chronic diseases (Y30.0, .1, .3, .5)	11	1.3
Acute disease in mother (Y31)	10	1.2
Toxemias of pregnancy (Y32.3, .4)	45	5.2
Infection (ante- and intra-partum) (Y32.5)	3	0.3
Difficulties in labour (Y34)	101	11.7
Overexertion (Y35.2)	2	0.2
Accident or violence (Y35.0, .1)	14	1.6
Other and ill-defined causes in mother (Y32.1, .2, Y33, Y35.3)	7	0.8
Causes Determined in the Fetus,	396	46.0
Placenta or Cord:	282	32.8
Birth injury (Y37)	15	1.7
Congenital malformations of fetus (Y38)	74	8.6
Erythroblastosis (Y39.2)	19	2.2
Other causes determined in the fetus (Y39.0, .1, .3)	6	0.7
Ill-defined causes (Y39.4, .5)	93	10.8
Cause unspecified (Y39.6)	165	19.2

Figures in parentheses refer to "Classification of Causes of Stillbirths", *International Statistical Classification of Diseases, Injuries, and Causes of Death*, Sixth Revision, 1948.

There were 154 operations for delivery - 21.6 per cent of the number of stillbirth certificates reporting any information about operative delivery. Over one-fourth of the certificates indicating an operation were deficient in this information. Table 11, below, shows operations for delivery by time of death of the fetus. The most common operations performed were cesarean sections, forceps deliveries and versions unqualified as to whether forceps were used.

Unpublished tabulation: "Resident Stillbirths by Operative Procedure, by Race and Sex, Oklahoma, 1949," Division of Statistics, Oklahoma State Department of Health.

Table 11
Resident Stillbirths According to Whether Death Occurred Before or During Operation, by Race, Number and Per Cent
Oklahoma, 1949

Time of Death	Total		White		Negro		Indian	
	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Per Cent
Total operations	154	99.9	126	100.0	18	100.0	10	100.0
Before operation	86	55.8	70	55.5	11	61.1	5	50.0
During operation	27	17.5	23	18.3	2	11.1	2	20.0
Not stated	41	26.6	33	26.2	5	27.8	3	30.0

The certificates were more complete with respect to data concerning death before or during labor. Table 12, below, gives this information. The Indian race had a higher per cent of fetal deaths before labor than the Negro or the white races. The percentages were 64.4, 59.2 and 52.6, respectively.

Table 12
Resident Stillbirths According to Whether Death Occurred Before or During Labor, by Race, Number and Per Cent
Oklahoma, 1949

Time of Death	Total		White		Negro		Indian	
	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Per Cent
Total Stillbirths	860	100.0	685	100.0	130	100.0	45	100.0
Before Labor	466	54.2	360	52.6	77	59.2	29	64.4
During Labor	262	30.5	222	32.4	32	24.6	8	17.8
Not stated	132	15.3	103	15.0	21	16.2	8	17.8

Deaths of Oklahoma residents totaled 19,346 in 1949, for a crude rate of 8.6 per 100,000 estimated population. Rates for the Negro and Indian populations, 10.9 and 9.2, respectively, were higher than the white rate of 8.4.

TOTAL DEATHS

LEADING CAUSES OF DEATH

Concurrent with the increase in the proportion of the population age 65 and over has been an increase in the number and percentage of deaths due to diseases of older people. Table 13, below, shows a comparison of these percentages for Oklahoma.

Table 13
Change in Proportion of Deaths Due to Leading Causes in Relation to Aging Population, Oklahoma

	1920	1930	1940	1949
Per cent of population Age 65 and over	3.2	4.1	6.1	7.1
Per cent of total deaths Assigned to:				
Diseases of the heart	4.7	11.4	18.7	30.3
Malignant neoplasms	3.8	6.1	9.5	13.2
Vascular lesions affecting central nervous system	5.9	7.1	9.2	11.4

Over one-half of the deaths in 1949 were due to the three leading causes: diseases of the heart, malignant neoplasms, and vascular lesions affecting the central nervous system. In 1920, pneumonia, influenza, accidents and tuberculosis were the four leading causes of death and cerebral hemorrhage, heart disease and cancer were in sixth, eighth, and tenth places, respectively. By 1930 the picture had changed somewhat and heart disease had moved up to the top position as the leading cause of death, with cerebral hemorrhage fourth and cancer seventh; by 1940 these three causes were in the first three positions as causes of death as they were in 1949.

The leading causes of death vary for the different racial groups and age groups. Tuberculosis, which was the seventh leading cause of death for the Negro group and eighth for the white, was second in importance as a cause of death among the Indians in 1949. Heart disease, while the leading cause of death for all racial groups, was not the first cause of death for any age group under age 35. Accidents was the leading cause of death for all age groups between 5 and 34, but was only fourth on the list for the total population.

¹ Estimated as of July 1, 1948. Current Population Reports, Population Estimates, Series P-26, Nos. 28 and 37, Bureau of the Census, Department of Commerce.

Both suicide and homicide were listed among the eight leading causes of death for groups between the ages 15 and 45, but the total number of deaths for these age groups was small in comparison to those in groups 45 years of age and over. Complications of pregnancy, childbirth and the puerperium as a group was a leading cause of death for the two ten-year age groups 15-24 and 25-34 but, of course, maternal causes were not important causes of death for other age groups. Other interesting facts relating to the leading causes of death for racial and age groups may be found in Table III on page 41.

Heart Disease

Heart disease was responsible for 5,856 deaths in Oklahoma in 1949, a rate of 261.4 deaths per 100,000 population. This was the highest number and rate on record, but in line with the same general upward trend in Oklahoma that has been continuous from as far back as the records are available. The 1949 rate has been accelerated to some extent by the change in coding procedures as explained in the section on cause of death classification; the rate of 240.9 deaths per 100,000 population based on deaths assigned to heart diseases according to the fifth revision of the International List was also higher than that for any preceding year, however.

Race, sex and age all seemed to be significant factors in the heart disease deaths. The rate for the white population, 265.0 per 100,000 population, was higher than for the Negro or Indian, 249.8 and 175.8, respectively. One-third of the total male deaths were attributed to diseases of the heart and only 25.8 per cent of the female deaths were attributed to diseases of the heart. The age distribution of the heart disease deaths varied some for each race-sex group, but for all groups more than fifty per cent of the deaths were age 65 or over; 67.8 per cent of the total number of heart disease deaths were age 65 or over. Approximately 38 per cent of all deaths age 65 or over were due to heart disease.

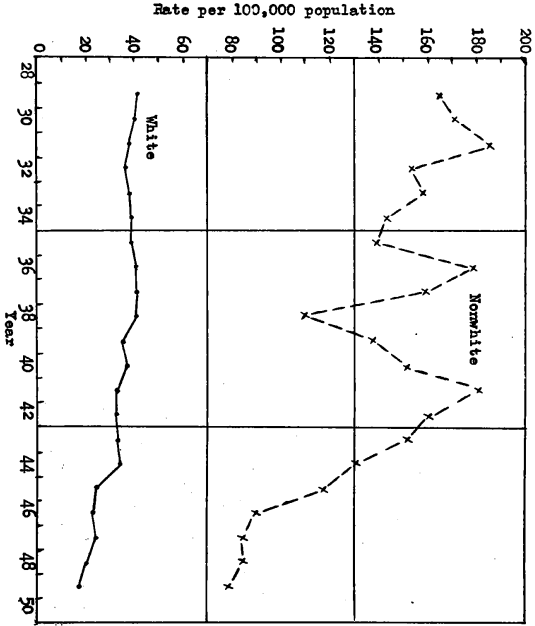
The arteriosclerotic and degenerative heart diseases led the list with 4,146 deaths, 71 per cent of the total heart disease deaths. Approximately 17 per cent of the heart disease deaths were assigned to the hypertensive heart diseases, 4 per cent to the chronic rheumatic heart diseases, and 9 per cent to other diseases of the heart. Statistics for these four major groups are included in the tables in the appendix.

Due to the high proportion of the heart disease deaths assigned to the arteriosclerotic and degenerative diseases, the pattern for that group of diseases as to race, sex and age seemed to be somewhat the same as for all heart diseases as a group. The rate for arteriosclerotic and degenerative heart disease was the highest for each of the three racial groups, with the white rate higher than for the other two races. Rates for the other three major heart disease groups, however, were higher for the Negroes than for the whites or Indians. The race-specific rates are shown in Table I in the appendix.

Tuberculosis

The new low rate of 23.5 deaths from tuberculosis per 100,000 population in 1949 was less than half of what it was in 1929 when the rate was 54.7. Although the disease has been more of a problem among the Negroes and Indians than among the white population, the death rate for the nonwhite population has decreased even faster than it has for the white groups since 1941, as shown in Chart 1. The nonwhite tuberculosis death rate has shown a 56.7 per cent decrease since the 1941 figure; the white tuberculosis death rate has shown a 46.2 per cent decrease.

Chart 1
Tuberculosis Death Rates, by Race
Oklahoma, 1929 - 1949



Along with the decline in the tuberculosis death rate has been a shift in the age distribution of the deaths, with an increase in the proportion of tuberculosis deaths in older age groups. In 1940, 22.4 per cent of the tuberculosis deaths were between the ages 25-34, the highest per cent for any ten-year age group. By 1949, the highest percentage for a ten-year age group was 18.6 for the age group 45-54.

See also Tuberculosis in Oklahoma, Revised October, 1950, published by the Division of Tuberculosis Control, Oklahoma State Department of Health.

Tuberculosis in mental institutions has been recognized as a special problem for a number of years and much has been done for the early diagnosis and care of these patients. Still, over ten per cent of the total tuberculosis deaths occur in these institutions, though the State's mental hospitals have only about three per cent of the total deaths from all causes. The proportionate mortality from tuberculosis for each age group, with one exception, was higher in the mental institutions than in the general population as shown on Table 15, with very high proportions of deaths in the age groups 15-44, due to tuberculosis.

Table 15
Proportionate Mortality from Tuberculosis in State
Mental Institutions and in the General Population,
by Age, Oklahoma, 1949

Age in Years	Mental Institutions*			General Population		
	Total Deaths	Tuberculosis Number	Per Cent	Total Deaths	Tuberculosis Number	Per Cent
All ages	572	54	9.4	19,346	528	2.7
Under 15	19	1	5.3	2,183	34	1.6
15 - 24	26	8	30.8	500	39	7.8
25 - 34	15	10	66.7	554	70	12.6
35 - 44	36	16	44.4	975	97	9.9
45 - 54	65	10	15.4	1,695	98	5.8
55 - 64	67	2	3.0	2,849	97	3.4
65 - 74	143	4	2.8	4,312	57	1.3
75 & Over	197	2	1.0	6,238	34	0.5
Unknown	4	1	25.0	40	2	5.0

*State operated mental institutions.

Nephritis and Nephrosis

The death rate for nephritis and nephrosis has been greatly reduced by the change in coding procedures, as explained in the discussion on comparability ratios, and adjustments of rates must be made for any comparison with rates for previous years. Using the fifth revision of the International List and coding procedures, 1,067 deaths were assigned to this cause which would have placed it as the sixth leading cause of death instead of the eighth, and the rate of 47.6 per 100,000 estimated population would have shown no significant change from rates of previous years.

Using the sixth revision of the list and coding procedures, the rate of 64.7 for the Negro population was considerably higher than the rate of 19.0 for the whites and 17.5 for the Indians. Most of the deaths assigned to these causes were in the older age groups, with 65.4 per cent of the deaths sixty-five years of age or older.

COMMUNICABLE DISEASES

Thirty years ago (1918-1920) measles, whooping cough and diphtheria killed an average of 600 people a year in Oklahoma; during the last three years the number of deaths from the same three diseases was down to less than 60 per year. Deaths from these diseases in 1949 occurred almost exclusively in the younger age groups: the seven deaths from diphtheria were under fifteen years of age, all but three of the thirty deaths from measles were under fifteen, and the seven deaths from whooping cough were under one year of age.

Typhoid and paratyphoid fevers, too, have been greatly reduced from an average of 388 deaths thirty years ago to about seven deaths a year. In 1949 there were three deaths from typhoid fever and two from paratyphoid fever. Dysenteries accounted for 28 deaths in 1949 as compared to an average of 123 in 1920-1922; diarrhea and enteritis deaths dropped from 745 annually to 121 in the same period of time.

Deaths from scarlet fever have been reduced until the one recorded in 1949 was the only one in the last three years; in 1920-1922 there were 25 deaths annually from the disease. Deaths from streptococcal sore throat, however, have been recorded more frequently - 14 in 1949. The data for this disease do not go back beyond 1944, when 16 deaths were recorded, so that any significant changes in the death rates in Oklahoma are unknown.

The number of cases and deaths from poliomyelitis in 1949 were the highest in the history of the State, with 1,322 cases reported and 109 deaths. Most of the deaths, 107, occurred in the white population, with 61 per cent males and approximately 67 per cent under fifteen years of age.

More statistics indicating the progress made in communicable disease control and the problems still outstanding, are published in Part I of Public Health Statistics of Oklahoma, Reportable Diseases.

MATERNAL DEATHS

During the past decade, the number of deaths attributed to maternal causes has decreased 62.3 per cent, so that in 1949 only 69 deaths were attributed to causes of pregnancy, childbirth or the puerperium. Of every 1,000 births (live births and stillbirths) that occurred to residents of the State, only 1.3 resulted in death to the mother.

The races in order of highest maternal death rates (per 1,000 live births) were Negro, Indian and white as shown in Table 16 below. Also shown are the specific causes, of which toxemias of pregnancy and the puerperium produced almost one-third of the deaths. Sepsis during childbirth and the puerperium and hemorrhage of childbirth and the puerperium were assigned as the origin of the majority of the other maternal deaths.

Table 16
Maternal Deaths by Cause, by Race, Number and Rate*, Oklahoma, 1949

Cause of Death	Total		White		Negro		Indian	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate
All maternal causes.....	69	1.4	49	1.1	14	3.8	6	2.9
Sepsis of pregnancy (640-641).....	17	0.3	11	0.2	4	1.1	2	1.0
Toxemias of pregnancy (642).....	1	0.0	1	0.0	-	-	-	-
Hemorrhage of pregnancy (643-644).....	1	0.0	1	0.0	-	-	-	-
Other complications of pregnancy (646-649).....	1	0.0	1	0.0	-	-	-	-
Ectopic pregnancy without mention of sepsis (645.0).....	5	0.1	3	0.1	1	0.3	1	0.5
Retopic pregnancy with mention of sepsis (645.1).....	-	-	-	-	-	-	-	-
Abortion without mention of sepsis or toxemia (650).....	4	0.1	3	0.1	-	-	1	0.5
Abortion with mention of sepsis (651).....	3	0.1	2	0.0	-	-	1	0.5
Abortion with toxemia (652).....	1	0.0	1	0.0	-	-	-	-
Delivery without complications (660).....	-	-	-	-	-	-	-	-
Hemorrhage of childbirth (670-672).....	10	0.2	8	0.2	2	0.5	-	-
Sepsis of childbirth and the puerperium (681-682, 684).....	12	0.2	9	0.2	2	0.5	1	0.5
Toxemias of the puerperium (685-686).....	5	0.1	3	0.1	2	0.5	-	-
Other complications of childbirth and the puerperium (673-680, 683, 687-689).....	10	0.2	7	0.2	3	0.8	-	-

*Number per 1,000 live births.

Table 17 breaks down the 69 deaths by cause and by age group. The average age at delivery was 31 years compared with 26 years for mothers of live births in 1949. Maternal deaths were the fourth leading cause of death in the 15-24 year age group, and the seventh leading cause in the 25-34 year age group.

Unpublished tabulation: "Prenatal Live Births by Birth Weight and Race, by Age of Mother, Oklahoma, 1949," Division of Statistics, Oklahoma State Department of Health.

Table 17
Maternal Deaths by Cause, by Age
Oklahoma, 1949

Cause of Death	Age						
	-15	15-19	20-24	25-29	30-34	35-54	55+
All maternal causes	-	9	14	10	8	27	1
Sepsis of pregnancy, childbirth and the puerperium	-	-	4	3	3	2	-
Toxemia of pregnancy and the puerperium	-	4	3	4	2	10	-
Hemorrhage of pregnancy and childbirth	-	-	-	3	1	1	1
Abortion without mention of sepsis or toxemia	-	1	1	-	1	2	-
Abortion with sepsis	-	1	2	-	-	-	-
Other complications of pregnancy, childbirth and the puerperium	-	3	2	2	1	8	-

The women whose pregnancies lasted full term had less complications during pregnancy than those whose gestation period was terminated prematurely and in approximately four-fifths of all the cases, death occurred after delivery.

INFANT DEATHS

The 1,529 deaths of infants in 1949 was the lowest number reported, giving a rate of 30.6 deaths per 1,000 live births, Table 20. In 1948 there were 1,721 deaths, a rate of 34.1. The lowest rates were for the white infants with Negroes and Indians showing a rate almost twice as high.

Almost 69 per cent, 1,049, of all deaths under one year of age were assigned to congenital malformations, injury at birth, immaturity or other diseases peculiar to early infancy. This group of diseases ranked as the fifth leading cause of death for the total population. It is interesting to note that the death rates from congenital malformations and injuries at birth were lower for Indians than for Negroes and whites. Rates for the other causes of death in this group did not show as much variation for the three racial groups. Over one-half of the deaths assigned to this group of diseases occurred during the first day of life and 92 per cent during the first month.

A special study involving the matching of birth and death certificates of infant deaths occurring in 1949 with Oklahoma as place of residence is now in progress. More detailed information on infant mortality will be included in this study.

¹Division of Statistics, Oklahoma State Department of Health, *Maternal Mortality Study, Oklahoma 1949*, Unpublished administrative study.

Table 18
Deaths Under One Year by Cause, by Race, Number and Rate*,
Oklahoma, 1949

Cause of Death	Total		White		Negro		Indian	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Infant deaths, all causes	1529	30.6	1247	28.2	179	49.1	103	50.2
Syphilis and its sequelae (020)	7	0.1	1	0.0	3	0.8	3	1.5
Whooping cough (056)	7	0.1	4	0.1	1	0.3	2	1.0
Other infective and parasitic diseases (1-19, 21-55, 57-138)	42	0.8	27	0.6	11	3.0	4	1.9
Pneumonia (490-493, 763)	151	3.0	98	2.2	26	7.1	27	13.2
Other diseases of the respiratory system (470-475, 480-483, 500-527)	32	0.6	17	0.4	11	3.0	4	1.9
Gastro-enteritis and colitis (571-572, 764)	61	1.2	39	0.9	13	3.6	9	4.4
Other diseases of the digestive system (530-570, 573-587)	28	0.6	20	0.5	6	1.6	2	1.0
Congenital malformations (750-759)	194	3.9	175	4.0	15	4.1	4	1.9
Injury at birth (760-761)	157	3.1	140	3.2	13	3.6	4	1.9
Immaturity (774, 776)	379	7.6	335	7.6	29	8.0	15	7.3
Other certain diseases of early infancy (762, 765-773)	319	6.4	278	6.3	26	7.1	15	7.3
Accidents (E800-E962)	53	1.1	43	1.0	10	2.7	-	-
Other defined causes	55	1.1	45	1.0	8	2.2	2	1.0
Symptoms and ill-defined conditions (780-793, 795)	44	0.9	25	0.6	7	1.9	12	5.8

*Number per 1,000 live births.

Deaths of Infants Under One
Month of Age

Neonatal deaths formed by far the majority of infant deaths, 1,090 or 71.3 per cent. The proportion was smaller, however, for the Negro and Indian races than for the white - 58.1, 54.4 and 74.6 per cent, respectively. The mortality rates for white, Negro and Indian infants under one month were 21.0, 28.5 and 27.3, respectively (Table 19).

Immaturity was responsible for more deaths than any other disease or condition, although the number of deaths assigned to this cause alone has been greatly reduced by the inclusion of prematurity as a sub-title for each of the diseases peculiar to early infancy, as explained in the section on the comparability ratio. Injury at birth and congenital malformations also were primary causes.

Death rates for pneumonia and other respiratory diseases and the enteric diseases for these very young infants were noticeably higher among the Negro and Indian races than among the whites.

Table 19
Deaths Under One Month by Cause, by Race, Number and Rate*,
Oklahoma, 1949

Cause of Death	Total		White		Negro		Indian	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Neonatal deaths, all causes	1090	21.8	930	21.0	104	28.5	56	27.3
Syphilis and its sequelae (020)	4	0.1	-	-	1	0.3	3	1.5
Whooping cough (056)	1	0.0	-	-	-	-	1	0.5
Other infective and parasitic diseases (1-19, 21-55, 57-138)	8	0.2	4	0.1	3	0.8	1	0.5
Pneumonia (490-493, 763)	39	0.8	24	0.5	7	1.9	8	3.9
Other diseases of the respiratory system (470-475, 480-483, 500-527)	9	0.2	6	0.1	2	0.5	1	0.5
Gastro-enteritis and colitis (571-572, 764)	9	0.2	4	0.1	4	1.1	1	0.5
Other diseases of the digestive system (530-570, 573-587)	6	0.1	4	0.1	2	0.5	-	-
Congenital malformations (750-759)	139	2.8	126	2.8	10	2.7	3	1.5
Injury at birth (760-761)	157	3.1	140	3.2	13	3.6	4	1.9
Immaturity (774, 776)	372	7.4	328	7.4	29	8.0	15	7.3
Other certain diseases of early infancy (762, 765-773)	297	5.9	262	5.9	22	6.0	13	6.3
Accidents (E800-E962)	13	0.3	9	0.2	4	1.1	-	-
Other defined causes	12	0.2	10	0.2	2	0.5	-	-
Symptoms and ill-defined conditions (780-793, 795)	24	0.5	13	0.3	5	1.4	6	2.9

*Number per 1,000 live births.

Over one-half of the neonatal deaths were in infants not yet one day old and approximately 87 per cent died within the first week after birth, Table 20.

The 241 deaths of infants less than one day old constituted 63.6 per cent of the total number of deaths assigned to this cause. About 60.5 per cent of the deaths due to birth injuries, 45.8 per cent of the deaths assigned to "other certain diseases of infancy," and 24.7 per cent of the deaths attributed to congenital malformations occurred during the first day of life.

Table 20
Deaths Under One Month of Age, by Cause, by Age
Oklahoma, 1949

Cause of Death	Age in Days										
	Under 1	1	2	3	4	5	6	7-13	14-20	21-29	
Neonatal deaths, all causes.	553	178	83	58	25	26	20	64	46	37	
Syphilis and its sequelae.	2	1	-	-	-	-	-	1	-	-	
Whooping cough	-	-	-	-	-	-	-	-	-	1	
Other infective and parasitic diseases	-	-	-	-	-	-	-	2	-	2	
Pneumonia	2	3	3	2	1	1	4	11	8	4	
Other diseases of the respiratory system	2	1	-	1	-	-	-	-	5	2	
Gastro-enteritis and colitis	-	-	-	1	1	-	-	-	2	-	
Other diseases of the digestive system	1	-	-	2	-	-	1	-	1	-	
Congenital malformations	48	21	14	8	4	7	3	14	12	8	
Injury at birth	95	19	19	8	4	3	4	3	1	1	
Immaturity	241	60	17	14	7	7	3	11	6	6	
Other certain diseases of early infancy	146	67	24	16	9	6	3	11	6	9	
Accidents	-	2	2	3	-	-	-	4	2	2	
Other defined causes	7	2	2	-	-	-	-	1	-	-	
Symptoms and ill-defined conditions	9	2	4	2	-	-	-	4	1	2	

Deaths of Infants One to Eleven Months of Age

Only 439 of the 1,529 deaths in infants were one to eleven months old (Table 21). Approximately one-fourth of these were one month old with the number of deaths diminishing as the months of life increased.

The four leading causes of death in this group were pneumonia, congenital malformations, gastro-enteritis and colitis, and accidents. Almost one-half of the accidents occurred to infants under three months of age and, in general, were due to smothering in bed by bed covers or parent.

All but one of the total whooping cough deaths were in this age group and these were in infants one to seven months of age; the one other whooping cough death for the year was under one month of age. The syphilis deaths in the infants one-eleven months of age were all under five months. Immaturity, the first cause of death in neonatals, was responsible for only seven deaths, all under six months of age.

Table 21
Deaths One to Eleven Months of Age, by Cause, by Age
Oklahoma, 1949

Cause of Death	Age in Months										
	1-11	1	2	3	4	5	6	7	8-9	10-11	
Infant deaths, all causes..	439	102	57	52	49	34	33	26	51	35	
Syphilis and its sequelae..	3	-	1	1	1	-	-	-	-	-	
Whooping cough.....	6	1	-	2	-	-	-	2	-	-	
Other infective and parasitic diseases.....	34	4	4	4	4	5	3	3	5	2	
Pneumonia.....	112	19	14	12	6	11	13	8	15	14	
Other diseases of the respiratory system.....	23	2	2	3	8	3	1	-	4	-	
Gastro-enteritis and colitis	52	13	8	6	9	2	2	3	6	3	
Other diseases of the digestive system.....	22	6	1	3	3	1	1	2	2	2	
Congenital malformations..	55	25	7	6	2	3	5	1	3	3	
Injury at birth.....	7	3	2	-	-	-	-	-	-	-	
Immaturity.....	-	-	-	-	-	-	-	-	-	-	
Other certain diseases of early infancy.....	22	9	2	5	1	1	1	1	1	1	
Accidents.....	40	8	10	4	3	4	2	3	2	4	
Other defined causes.....	43	7	2	3	9	1	3	3	10	5	
Symptoms and ill-defined conditions.....	20	5	4	2	3	-	-	-	3	1	

APPENDIX

Symbols Used in Tables

- Number or rate is zero
- .. Item not applicable
- 0.0 Rate is more than 0 but less than 0.05
- Data not available

TABLE 1. DEATHS, DEATHS BY IMPORTANT CAUSES, NUMBER AND RATE, OCEANARIA, 1950-1949 - Continued
 Figures in Parentheses Refer to Fifth Revision of International List of Causes of Death

Detailed population, July 1	1940		1941		1942		1943		1944	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live births	47,238	19.1	45,313	20.3	45,277	21.0	42,071	23.1	41,880	22.1
Physicians in hospital	17,740	20,999	17,677	20,985	17,683	20,980	17,684	20,979	17,685	20,978
Physicians in home	25,216	29.3	22,677	25.6	15,985	17.9	13,510	15.1	13,510	15.1
Physicians in home, or unknown	1,202	1.4	1,657	1.9	1,680	1.9	1,556	1.8	1,556	1.8
Physicians in hospital, or unknown	1,859	2.2	1,422	1.6	511	0.6	228	0.3	228	0.3
Physicians in home, or unknown	661	0.8	648	0.7	383	0.4	311	0.4	311	0.4
Physicians in hospital, or unknown	29,426	34.8	26,181	29.3	18,975	21.8	19,765	22.5	18,438	20.8
Total deaths, all causes	29,426	34.8	26,181	29.3	18,975	21.8	19,765	22.5	18,438	20.8
Deaths under 1 year	2,258	2.7	1,977	2.2	1,156	1.3	1,273	1.5	1,273	1.5
Deaths under 1 month	1,311	1.5	1,177	1.3	688	0.8	723	0.8	723	0.8
Deaths under 1 week	56	0.1	35	0.0	38	0.0	23	0.0	9	0.0
Phyloid, paratyphoid fever (1,2)	12	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Measles (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Scarlet fever (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Whooping cough (9)	7	0.0	1	0.0	3	0.0	5	0.0	2	0.0
Diphtheria (10)	7	0.0								

Disease of the ... 450-456 394 96-99 418 0.7426

TABLE B. RESIDUAL DEATHS BY CAUSE, CLASSIFIED BY FIFTH AND SIXTH REVISIONS OF INTERNATIONAL STATISTICAL CLASSIFICATION AND COMPARABILITY RATIOS, OMAHA, 1949

Cause of Death	Sixth Revision of International List			Fifth Revision of International List			Comparability Ratio
	List Number	Number of Deaths	Death Rate*	List Number	Number of Deaths	Death Rate*	
All causes	001-008	4,990	21.9	13	19,316	22.7	0.96
Infectious diseases	001-008	1,388	6.1	13	10,509	11.8	0.52
Neoplasms	009-019	1,288	5.7	14-22	10,106	11.4	0.50
Cardiovascular diseases	020-049	1,315	5.8	23-28	10,106	11.4	0.51
Respiratory diseases	050-059	1,315	5.8	29-34	10,106	11.4	0.51
Accidents and violence	060-069	1,315	5.8	35-39	10,106	11.4	0.51
Unspecified	070-079	1,315	5.8	40-44	10,106	11.4	0.51
Other	080-089	1,315	5.8	45-49	10,106	11.4	0.51
Maternal and perinatal	090-091	1,315	5.8	50-59	10,106	11.4	0.51
Unspecified	099-099	1,315	5.8	60-69	10,106	11.4	0.51
Unspecified	100-108	1,315	5.8	70-79	10,106	11.4	0.51
Unspecified	109-117	1,315	5.8	80-89	10,106	11.4	0.51
Unspecified	118-119	1,315	5.8	90-99	10,106	11.4	0.51
Unspecified	120-128	1,315	5.8	100-108	10,106	11.4	0.51
Unspecified	129-138	1,315	5.8	109-117	10,106	11.4	0.51
Unspecified	139-148	1,315	5.8	118-119	10,106	11.4	0.51
Unspecified	149-158	1,315	5.8	120-128	10,106	11.4	0.51
Unspecified	159-168	1,315	5.8	129-138	10,106	11.4	0.51
Unspecified	169-178	1,315	5.8	139-148	10,106	11.4	0.51
Unspecified	179-188	1,315	5.8	149-158	10,106	11.4	0.51
Unspecified	189-198	1,315	5.8	159-168	10,106	11.4	0.51
Unspecified	199-199	1,315	5.8	169-178	10,106	11.4	0.51
Unspecified	200-200	1,315	5.8	179-188	10,106	11.4	0.51
Unspecified	201-201	1,315	5.8	189-198	10,106	11.4	0.51
Unspecified	202-202	1,315	5.8	199-199	10,106	11.4	0.51
Unspecified	203-203	1,315	5.8	200-200	10,106	11.4	0.51
Unspecified	204-204	1,315	5.8	201-201	10,106	11.4	0.51
Unspecified	205-205	1,315	5.8	202-202	10,106	11.4	0.51
Unspecified	206-206	1,315	5.8	203-203	10,106	11.4	0.51
Unspecified	207-207	1,315	5.8	204-204	10,106	11.4	0.51
Unspecified	208-208	1,315	5.8	205-205	10,106	11.4	0.51
Unspecified	209-209	1,315	5.8	206-206	10,106	11.4	0.51
Unspecified	210-210	1,315	5.8	207-207	10,106	11.4	0.51
Unspecified	211-211	1,315	5.8	208-208	10,106	11.4	0.51
Unspecified	212-212	1,315	5.8	209-209	10,106	11.4	0.51
Unspecified	213-213	1,315	5.8	210-210	10,106	11.4	0.51
Unspecified	214-214	1,315	5.8	211-211	10,106	11.4	0.51
Unspecified	215-215	1,315	5.8	212-212	10,106	11.4	0.51
Unspecified	216-216	1,315	5.8	213-213	10,106	11.4	0.51
Unspecified	217-217	1,315	5.8	214-214	10,106	11.4	0.51
Unspecified	218-218	1,315	5.8	215-215	10,106	11.4	0.51
Unspecified	219-219	1,315	5.8	216-216	10,106	11.4	0.51
Unspecified	220-220	1,315	5.8	217-217	10,106	11.4	0.51
Unspecified	221-221	1,315	5.8	218-218	10,106	11.4	0.51
Unspecified	222-222	1,315	5.8	219-219	10,106	11.4	0.51
Unspecified	223-223	1,315	5.8	220-220	10,106	11.4	0.51
Unspecified	224-224	1,315	5.8	221-221	10,106	11.4	0.51
Unspecified	225-225	1,315	5.8	222-222	10,106	11.4	0.51
Unspecified	226-226	1,315	5.8	223-223	10,106	11.4	0.51
Unspecified	227-227	1,315	5.8	224-224	10,106	11.4	0.51
Unspecified	228-228	1,315	5.8	225-225	10,106	11.4	0.51
Unspecified	229-229	1,315	5.8	226-226	10,106	11.4	0.51
Unspecified	230-230	1,315	5.8	227-227	10,106	11.4	0.51
Unspecified	231-231	1,315	5.8	228-228	10,106	11.4	0.51
Unspecified	232-232	1,315	5.8	229-229	10,106	11.4	0.51
Unspecified	233-233	1,315	5.8	230-230	10,106	11.4	0.51
Unspecified	234-234	1,315	5.8	231-231	10,106	11.4	0.51
Unspecified	235-235	1,315	5.8	232-232	10,106	11.4	0.51
Unspecified	236-236	1,315	5.8	233-233	10,106	11.4	0.51
Unspecified	237-237	1,315	5.8	234-234	10,106	11.4	0.51
Unspecified	238-238	1,315	5.8	235-235	10,106	11.4	0.51
Unspecified	239-239	1,315	5.8	236-236	10,106	11.4	0.51
Unspecified	240-240	1,315	5.8	237-237	10,106	11.4	0.51
Unspecified	241-241	1,315	5.8	238-238	10,106	11.4	0.51
Unspecified	242-242	1,315	5.8	239-239	10,106	11.4	0.51
Unspecified	243-243	1,315	5.8	240-240	10,106	11.4	0.51
Unspecified	244-244	1,315	5.8	241-241	10,106	11.4	0.51
Unspecified	245-245	1,315	5.8	242-242	10,106	11.4	0.51
Unspecified	246-246	1,315	5.8	243-243	10,106	11.4	0.51
Unspecified	247-247	1,315	5.8	244-244	10,106	11.4	0.51
Unspecified	248-248	1,315	5.8	245-245	10,106	11.4	0.51
Unspecified	249-249	1,315	5.8	246-246	10,106	11.4	0.51
Unspecified	250-250	1,315	5.8	247-247	10,106	11.4	0.51
Unspecified	251-251	1,315	5.8	248-248	10,106	11.4	0.51
Unspecified	252-252	1,315	5.8	249-249	10,106	11.4	0.51
Unspecified	253-253	1,315	5.8	250-250	10,106	11.4	0.51
Unspecified	254-254	1,315	5.8	251-251	10,106	11.4	0.51
Unspecified	255-255	1,315	5.8	252-252	10,106	11.4	0.51
Unspecified	256-256	1,315	5.8	253-253	10,106	11.4	0.51
Unspecified	257-257	1,315	5.8	254-254	10,106	11.4	0.51
Unspecified	258-258	1,315	5.8	255-255	10,106	11.4	0.51
Unspecified	259-259	1,315	5.8	256-256	10,106	11.4	0.51
Unspecified	260-260	1,315	5.8	257-257	10,106	11.4	0.51
Unspecified	261-261	1,315	5.8	258-258	10,106	11.4	0.51
Unspecified	262-262	1,315	5.8	259-259	10,106	11.4	0.51
Unspecified	263-263	1,315	5.8	260-260	10,106	11.4	0.51
Unspecified	264-264	1,315	5.8	261-261	10,106	11.4	0.51
Unspecified	265-265	1,315	5.8	262-262	10,106	11.4	0.51
Unspecified	266-266	1,315	5.8	263-263	10,106	11.4	0.51
Unspecified	267-267	1,315	5.8	264-264	10,106	11.4	0.51
Unspecified	268-268	1,315	5.8	265-265	10,106	11.4	0.51
Unspecified	269-269	1,315	5.8	266-266	10,106	11.4	0.51
Unspecified	270-270	1,315	5.8	267-267	10,106	11.4	0.51
Unspecified	271-271	1,315	5.8	268-268	10,106	11.4	0.51
Unspecified	272-272	1,315	5.8	269-269	10,106	11.4	0.51
Unspecified	273-273	1,315	5.8	270-270	10,106	11.4	0.51
Unspecified	274-274	1,315	5.8	271-271	10,106	11.4	0.51
Unspecified	275-275	1,315	5.8	272-272	10,106	11.4	0.51
Unspecified	276-276	1,315	5.8	273-273	10,106	11.4	0.51
Unspecified	277-277	1,315	5.8	274-274	10,106	11.4	0.51
Unspecified	278-278	1,315	5.8	275-275	10,106	11.4	0.51
Unspecified	279-279	1,315	5.8	276-276	10,106	11.4	0.51
Unspecified	280-280	1,315	5.8	277-277	10,106	11.4	0.51
Unspecified	281-281	1,315	5.8	278-278	10,106	11.4	0.51
Unspecified	282-282	1,315	5.8	279-279	10,106	11.4	0.51
Unspecified	283-283	1,315	5.8	280-280	10,106	11.4	0.51
Unspecified	284-284	1,315	5.8	281-281	10,106	11.4	0.51
Unspecified	285-285	1,315	5.8	282-282	10,106	11.4	0.51
Unspecified	286-286	1,315	5.8	283-283	10,106	11.4	0.51
Unspecified	287-287	1,315	5.8	284-284	10,106	11.4	0.51
Unspecified	288-288	1,315	5.8	285-285	10,106	11.4	0.51
Unspecified	289-289	1,315	5.8	286-286	10,106	11.4	0.51
Unspecified	290-290	1,315	5.8	287-287	10,106	11.4	0.51
Unspecified	291-291	1,315	5.8	288-288	10,106	11.4	0.51
Unspecified	292-292	1,315	5.8	289-289	10,106	11.4	0.51
Unspecified	293-293	1,315	5.8	290-290	10,106	11.4	0.51
Unspecified	294-294	1,315	5.8	291-291	10,106	11.4	0.51
Unspecified	295-295	1,315	5.8	292-292	10,106	11.4	0.51
Unspecified	296-296	1,315	5.8	293-293	10,106	11.4	0.51
Unspecified	297-297	1,315	5.8	294-294	10,106	11.4	0.51
Unspecified	298-298	1,315	5.8	295-295	10,106	11.4	0.51
Unspecified	299-299	1,315	5.8	296-296	10,106	11.4	0.51
Unspecified	300-300	1,315	5.8	297-297	10,106	11.4	0.51

* Rates represent number per 100,000 estimated population.
 † Comparability ratio of sixth revision to death.
 ‡ Rates represent number per 1,000 live births.

TABLE C. RESIDUAL DEATHS, STILLBIRTHS, DEATHS, IMPART AND NEONATAL DEATHS, NUMBER AND RATE, BY COUNTY, OMAHA, 1949

COUNTY	BIRTHS		STILLBIRTHS		DEATHS		NEONATAL DEATHS		IMPART DEATHS	
	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*
BENTON COUNTY	159	23.1	5	39.7	104	7.0	1,063	21.4	1,063	30.1
BUTTE COUNTY	122	18.9	4	14.7	112	7.8	6	7.4	10	61.3
CASS COUNTY										

TABLE IV. RESIDENT BIRTHS, DEATHS, AND DEATHS BY IMPORTANT CAUSES, NUMBER AND RATE BY COUNTY, AND NUMBER BY COUNTY AND RACE, OKLAHOMA, 1949 (Continued)

Estimated population, July 1, 1949	CHANGING						TOTAL					
	Total		Race		Total		Total		Race		Total	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Live births*	118	26.3	118	26.3	961	24.0	950	23.8	11	1.8	148	18.8
Physician in hospital	66	14.6	66	14.6	911	22.9	903	22.8	8	1.3	138	17.4
Physician in home	52	11.5	52	11.5	4	0.1	4	0.1	48	6.1	10	1.3
Mildly, other, or unknown	1	0.2	1	0.2	6	0.2	6	0.2	1	0.1	1	0.1
Stillbirths†	1	0.2	1	0.2	12	0.3	12	0.3	1	0.1	1	0.1
Physician in hospital	1	0.2	1	0.2	12	0.3	12	0.3	1	0.1	1	0.1
Physician in home	29	6.5	29	6.5	121	3.1	121	3.1	65	8.3	10	1.3
Mildly, other, or unknown	1	0.2	1	0.2	4	0.1	4	0.1	1	0.1	1	0.1
Total deaths, all causes*	8.5	1.9	8.5	1.9	19	0.5	19	0.5	2	0.3	2	0.3
Deaths under 1 year†	1	0.2	1	0.2	21	0.5	21	0.5	2	0.3	2	0.3
Respiratory system (000-019)	1	0.2	1	0.2	19	0.5	19	0.5	2	0.3	2	0.3
Thrombocytosis, other forms (000-019)	1	0.2	1	0.2	2	0.05	2	0.05	2	0.3	2	0.3
Syphilis and its sequelae (020-029)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Typhoid fever (040) (04-040)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever and streptococcal sore throat (050, 051) (05-050)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (050)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (051)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (052)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (053)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (054)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (055)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (056)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (057)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (058)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (059)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (060)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (061)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (062)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (063)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (064)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (065)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (066)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (067)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (068)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (069)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (070)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (071)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (072)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (073)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (074)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (075)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (076)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (077)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (078)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (079)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (080)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (081)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (082)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (083)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (084)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (085)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (086)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (087)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (088)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (089)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (090)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (091)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (092)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (093)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (094)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (095)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (096)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (097)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (098)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (099)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (100)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (101)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (102)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (103)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (104)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (105)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (106)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (107)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (108)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (109)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (110)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (111)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (112)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (113)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (114)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (115)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (116)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (117)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (118)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (119)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (120)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (121)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (122)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (123)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (124)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (125)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (126)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (127)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (128)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (129)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (130)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (131)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (132)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (133)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (134)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (135)	1	0.2	1	0.2	1	0.03	1	0.03	1	0.1	1	0.1
Scarlet fever (136)	1	0.2	1	0.2	1	0.03	1					

TABLE IV. RESIDENT BIRTHS, DEATHS, AND DEPARTS BY IMPORTANT CAUSES, NUMBER AND RATE BY COUNTY, AND NUMBER BY COUNTY AND RACE, OMAHA, 1949 (Continued)

Estimated population, July 1, 1949	OMAHA			DUBUQUE			GRANT							
	Total	Race		Total	Race		Total	Race						
		No.	Rate		No.	Rate		No.	Rate	No.	Rate			
Live births*	722	24.4	684	28	10	735	20.8	686	4.4	5	17.5	188		
Physician in hospital	656	21.4	644	24	10	536	19.7	527	3.8	5	18.9	183		
Physician in home	62	2.1	38	2	1	197	5.7	159	3.8	2	7.3	5		
Military, other, or unknown	4	0.1	2	0	0	2	0.1	2	0.1	1	3.7	2		
Physician in hospital	6	0.2	6	1	0	3	0.1	5	1.2	1	3.7	1		
Physician in home	2	0.1	1	0	0	3	0.1	2	0.7	1	3.7	1		
Military, other, or unknown	212	7.3	202	11	2	331	9.4	308	2.2	4	12.7	127		
Total deaths, all causes	17	0.6	17	1	0	31	0.9	28	0.8	4	11.8	127		
Deaths under 1 month	13	0.5	13	1	0	24	0.7	23	0.7	3	10.1	4		
Deaths under 1 year	3	0.1	3	0	0	19	0.5	17	0.5	1	3.7	4		
Deaths under 1 year	2	0.1	2	0	0	8.5	0.2	7	0.2	1	3.7	4		
Subventricular of respiratory system (001-008)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other forms (009-029)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Spontaneous (030)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Typhoid fever (040)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Dysentery, all forms (045-049)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Serous fever and streptococcal sore throat	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Diphtheria (051)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Rheumatic fever (052)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Whooping cough (056)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Measles (057)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Scarlet fever (058)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Small pox (060)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Measles (061)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Scarlet fever (062)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Typhus and other rickettsial diseases (100-109)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Rocky Mountain spotted fever (101)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
All other diseases classified as infectious and parasitic (090-099, 001, 042, 043, 050, 051-054, 059-074, 081-083, 085-096, 097, 098-099)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140-209)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Breast and all sites (200)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Colon and all sites (201)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Rectum and all sites (202)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Stomach (203)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Small intestine (204)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Large intestine (205)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Bladder (206)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Prostate gland (207)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Uterus (208)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Vagina (209)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Testis (210)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Penis (211)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Prostate gland (212)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other sites (213-219)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Brain (220)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other sites (221-229)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Heart (230)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Arteriosclerosis and degenerative heart	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of heart (430-434)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Hypertension with heart disease (440-443)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Hypertension without mention of heart	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Influenza (480-483)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Pneumonia (490-493)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Bronchitis (500-502)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Pneumonia (503-504)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other forms of pneumonia (505-511)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Appendicitis (570-573)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Intestinal obstruction and hernia (560-561, 970)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of the abdomen (562-571, 972)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Gastritis, duodenitis, enteritis and colitis (574-577)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Cholecystitis and cholangitis (580-581)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Hepatitis and nephritis (590-594)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of the digestive system (595-600)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Complications of pregnancy, childbirth and the puerperium (640-652, 670-689)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of the circulatory system (710-719)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of the circulatory system (720-729)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of the circulatory system (730-739)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of the circulatory system (740-749)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of the circulatory system (750-759)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of the circulatory system (760-769)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of the circulatory system (770-779)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of the circulatory system (780-789)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of the circulatory system (790-799)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of the circulatory system (800-809)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of the circulatory system (810-819)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of the circulatory system (820-829)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of the circulatory system (830-839)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of the circulatory system (840-849)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of the circulatory system (850-859)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of the circulatory system (860-869)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of the circulatory system (870-879)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of the circulatory system (880-889)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of the circulatory system (890-899)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of the circulatory system (900-909)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of the circulatory system (910-919)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of the circulatory system (920-929)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of the circulatory system (930-939)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of the circulatory system (940-949)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of the circulatory system (950-959)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of the circulatory system (960-969)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of the circulatory system (970-979)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of the circulatory system (980-989)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		
Other diseases of the circulatory system (990-999)	1	0.0	1	0	0	1	0.0	1	0.0	1	3.7	4		

TABLE IV. RESIDENT BIRTHS, DEATHS, AND DEPARTS BY IMPORTANT CAUSES, NUMBER AND RATE BY COUNTY, AND NUMBER BY COUNTY AND RACE, OMAHA, 1949 (Continued)

Estimated population, July 1, 1949	DUBUQUE			HAWAII			HAYWARD		
	Total								

TABLE IV. RESIDENT BIRTHS, DEATHS, AND DEATHS BY DEPARTMENT CAUSES, NUMBER AND RATE BY COUNTY, AND NUMBER BY COUNTY AND RACE, OKLAHOMA, 1949 (Continued)

Estimated population, July 1, 1949	HERSHEL						HERRIS						JANISON						
	Total		Rate		Rate		Total		Rate		Rate		Total		Rate		Rate		
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	
Live births*	245	17.9	225	4	16	451	21.0	564	26	61	407	20.2	371	36	298	20.7	231	17	19
Physician in hospital	55	4.4	44	4	4	106	5.1	84	4	13	66	3.3	37	7	15	1.1	17	1	1
Physician in home	187	13.5	179	4	4	111	5.4	111	5	11	27.0	10	1	4	3.0	4	3	3	3
Physician, other, or unknown	1	0.1	1	0	1	24.4	1.2	13	0.6	11	0.5	10	1	1	0.7	1	0.7	1	1
Stillbirths	1	0.1	1	0	1	4.7	0.2	8	0.4	3	0.1	3	0.1	1	0.1	1	0.1	1	1
Physician in hospital	1	0.1	1	0	1	11	0.5	13	0.6	11	0.5	10	1	1	0.7	1	0.7	1	1
Physician in home	1	0.1	1	0	1	8	0.4	8	0.4	3	0.1	3	0.1	1	0.1	1	0.7	1	1
Physician, other, or unknown	1	0.1	1	0	1	3	0.1	3	0.1	1	0.1	1	0.1	1	0.1	1	0.7	1	1
Deaths under 1 year	86	6.3	81	5	5	213	10.1	167	8	23	1.1	175	11	11	0.8	17	1	1	1
Deaths under 1 month	4	0.3	4	0	4	18	0.9	12	0.6	2	0.1	12	0.6	2	0.1	2	0.1	2	2
Respiratory system (000-008)	3	0.2	3	0	3	11	0.5	8	0.4	3	0.1	3	0.1	3	0.2	3	0.2	3	3
Pharynx and its sequelae (020-029)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Trachea and bronchi (030-039)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Other diseases of respiratory system (040-049)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever (050)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Diphtheria (051)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Whooping cough (052)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Measles (053)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever and streptococcal sore throat (054)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever (055)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever and streptococcal sore throat (056)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever (057)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever and streptococcal sore throat (058)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever (059)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever and streptococcal sore throat (060)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever (061)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever and streptococcal sore throat (062)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever (063)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever and streptococcal sore throat (064)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever (065)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever and streptococcal sore throat (066)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever (067)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever and streptococcal sore throat (068)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever (069)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever and streptococcal sore throat (070)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever (071)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever and streptococcal sore throat (072)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever (073)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever and streptococcal sore throat (074)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever (075)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever and streptococcal sore throat (076)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever (077)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever and streptococcal sore throat (078)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever (079)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever and streptococcal sore throat (080)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever (081)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever and streptococcal sore throat (082)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever (083)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever and streptococcal sore throat (084)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever (085)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever and streptococcal sore throat (086)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever (087)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever and streptococcal sore throat (088)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever (089)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever and streptococcal sore throat (090)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever (091)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever and streptococcal sore throat (092)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever (093)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever and streptococcal sore throat (094)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever (095)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever and streptococcal sore throat (096)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever (097)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever and streptococcal sore throat (098)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever (099)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever and streptococcal sore throat (100)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Scarlet fever (101-117)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Malaria (110-117)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
All other diseases classified as infectious and parasitic (090-099, 011, 042, 043, 044, 052-054, 059-069, 81-883, 884-896, 120-138, 139-149, 099-099, 81-883, 884-896, 120-138)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
All other diseases classified as neoplasms of malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140-209)	1	0.1	1	0	1	4	0.2	5	0.2	1	0.0	1	0.0	1	0.1	1	0.1	1	1
Benign and unspecified neoplasms (210-239)	1	0.1	1																

TABLE IV. RESIDENT BIRTHS, DEATHS, AND DEATHS BY IMPORTANT CAUSES, NUMBER AND RATE BY COUNTY AND NUMBER BY COUNTY AND RACE, OKLAHOMA, 1949 (Continued)

Cause	OKLAHOMA				OKMUSSE				OSAGE						
	Total		Rate		Total		Rate		Total		Rate				
	No.	No./1,000	No.	No./1,000	No.	No./1,000	No.	No./1,000	No.	No./1,000	No.	No./1,000			
Live births*	8,063	25.6	7,178	809	76	932	20.8	758	121	53	624	18.6	538	32	42
Physician in hospital	4,990	15.4	4,733	543	42	679	17.2	622	10	47	492	14.1	439	11	12
Physician in home	161	0.5	107	12	1	190	4.8	135	3	3	123	3.5	99	18	5
Births, other, or unknown	2,912	9.1	2,338	270	33	463	11.7	301	7	10	208	6.0	160	7	3
Stillbirths, stillborn, or unknown	112	0.4	82	9	1	23	0.6	11	0	1	2	0.1	1	0	0
Physician in hospital	106	0.3	89	10	1	19	0.5	15	0	3	10	0.3	3	0	0
Physician in home	3	0.0	2	0	0	3	0.0	3	0	0	0	0.0	0	0	0
Births, other, or unknown	2,455	7.8	2,226	257	32	446	11.4	283	6	17	201	5.8	157	12	1
Deaths under 1 year†	285	0.9	253	28	3	47	1.2	38	0	14	18	0.5	14	1	1
Deaths under 1 month†	186	0.6	165	19	2	16	0.4	30	0	4	2	0.1	4	0	0
Respiratory and circulatory systems (001-008)	52	0.2	46	5	0	16	0.4	14	0	2	2	0.1	3	0	0
Neurological system (009-014)	25	0.1	23	3	0	15	0.4	10	0	2	2	0.1	2	0	0
Syphilis and its sequelae (020-029)	25	0.1	23	3	0	15	0.4	10	0	2	2	0.1	2	0	0
Pythoid fever (040)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Dysentery, all forms (045-048)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Dysentery, all forms (045-048)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Scarlet fever and streptococcal sore throat (050-051)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Diphtheria (052)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Whooping cough (056)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Measles (061)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Scarlet fever (062)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Smallpox (084)	2	0.0	2	0	0	2	0.0	2	0	0	0	0.0	0	0	0
Measles (085)	2	0.0	2	0	0	2	0.0	2	0	0	0	0.0	0	0	0
Scarlet fever (086)	2	0.0	2	0	0	2	0.0	2	0	0	0	0.0	0	0	0
Diphtheria and other rickettsial diseases (100-104)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Dysentery and other rickettsial diseases (100-104)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Malta fever and streptococcal sore throat (090-091)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Diphtheria (092)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Whooping cough (093)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Measles (094)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Scarlet fever (095)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Smallpox (084)	2	0.0	2	0	0	2	0.0	2	0	0	0	0.0	0	0	0
Measles (085)	2	0.0	2	0	0	2	0.0	2	0	0	0	0.0	0	0	0
Scarlet fever (086)	2	0.0	2	0	0	2	0.0	2	0	0	0	0.0	0	0	0
Diphtheria and other rickettsial diseases (100-104)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Dysentery and other rickettsial diseases (100-104)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Malta fever and streptococcal sore throat (090-091)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Diphtheria (092)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Whooping cough (093)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Measles (094)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Scarlet fever (095)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Smallpox (084)	2	0.0	2	0	0	2	0.0	2	0	0	0	0.0	0	0	0
Measles (085)	2	0.0	2	0	0	2	0.0	2	0	0	0	0.0	0	0	0
Scarlet fever (086)	2	0.0	2	0	0	2	0.0	2	0	0	0	0.0	0	0	0
Diphtheria and other rickettsial diseases (100-104)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Dysentery and other rickettsial diseases (100-104)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Malta fever and streptococcal sore throat (090-091)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Diphtheria (092)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Whooping cough (093)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Measles (094)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Scarlet fever (095)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Smallpox (084)	2	0.0	2	0	0	2	0.0	2	0	0	0	0.0	0	0	0
Measles (085)	2	0.0	2	0	0	2	0.0	2	0	0	0	0.0	0	0	0
Scarlet fever (086)	2	0.0	2	0	0	2	0.0	2	0	0	0	0.0	0	0	0
Diphtheria and other rickettsial diseases (100-104)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Dysentery and other rickettsial diseases (100-104)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Malta fever and streptococcal sore throat (090-091)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Diphtheria (092)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Whooping cough (093)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Measles (094)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Scarlet fever (095)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Smallpox (084)	2	0.0	2	0	0	2	0.0	2	0	0	0	0.0	0	0	0
Measles (085)	2	0.0	2	0	0	2	0.0	2	0	0	0	0.0	0	0	0
Scarlet fever (086)	2	0.0	2	0	0	2	0.0	2	0	0	0	0.0	0	0	0
Diphtheria and other rickettsial diseases (100-104)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Dysentery and other rickettsial diseases (100-104)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Malta fever and streptococcal sore throat (090-091)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Diphtheria (092)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Whooping cough (093)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Measles (094)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Scarlet fever (095)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Smallpox (084)	2	0.0	2	0	0	2	0.0	2	0	0	0	0.0	0	0	0
Measles (085)	2	0.0	2	0	0	2	0.0	2	0	0	0	0.0	0	0	0
Scarlet fever (086)	2	0.0	2	0	0	2	0.0	2	0	0	0	0.0	0	0	0
Diphtheria and other rickettsial diseases (100-104)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Dysentery and other rickettsial diseases (100-104)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Malta fever and streptococcal sore throat (090-091)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Diphtheria (092)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Whooping cough (093)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Measles (094)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Scarlet fever (095)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Smallpox (084)	2	0.0	2	0	0	2	0.0	2	0	0	0	0.0	0	0	0
Measles (085)	2	0.0	2	0	0	2	0.0	2	0	0	0	0.0	0	0	0
Scarlet fever (086)	2	0.0	2	0	0	2	0.0	2	0	0	0	0.0	0	0	0
Diphtheria and other rickettsial diseases (100-104)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Dysentery and other rickettsial diseases (100-104)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Malta fever and streptococcal sore throat (090-091)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Diphtheria (092)	1	0.0	1	0	0	1	0.0	1	0	0	0	0.0	0	0	0
Whooping cough (093)	1	0.0	1	0	0	1	0.0								

TABLE IV. RESIDENT BIRTHS, DEATHS, AND DEATHS BY APERTAIN CAUSES, NUMBER AND RATE BY COUNTY, AND NUMBER BY RACE, OKLAHOMA, 1949 (Continued)

Established population, July 1, 1949	PITTSBURGH				PAWBUCK				POTOMATAKINE			
	Total No.	Rate	No.	Rate	Total No.	Rate	No.	Rate	Total No.	Rate	No.	Rate
Live births*	699	21.1	776	6.4	702	22.2	656	21.1	893	19.9	832	21.7
Physician in hospital	688	20.9	766	6.3	697	21.5	656	20.9	882	19.7	821	21.1
Midwife, other, or unknown	58	1.7	10	0.3	5	0.1	10	0.3	11	0.2	11	0.3
Stillbirths†	15	0.4	10	0.3	14	0.4	13	0.4	16	0.4	15	0.4
Physician in hospital	7	0.2	9	0.3	7	0.2	4	0.1	16	0.4	15	0.4
Midwife, other, or unknown	8	0.2	1	0.0	7	0.2	9	0.3	1	0.0	1	0.0
Total deaths, all causes*	348	10.3	308	9.4	285	8.7	268	8.1	412	9.2	388	9.8
Deaths under 1 year‡	16	0.5	15	0.4	21	0.6	17	0.5	23	0.5	20	0.5
Deaths under 1 month§	16	0.5	15	0.4	21	0.6	17	0.5	23	0.5	20	0.5
Pharyngitis, other forms (010-019)	20	0.6	3	0.1	7	0.2	15	0.4	11	0.2	10	0.3
Rheumatoid, other forms (010-029)	1	0.0	1	0.0	1	0.0	1	0.0	1	0.0	1	0.0
Syphilis and its sequelae (020-029)	1	0.0	1	0.0	2	0.0	2	0.0	2	0.0	2	0.0
Syphilitic fever (020-049)	1	0.0	1	0.0	1	0.0	1	0.0	1	0.0	1	0.0
Serous fever and streptococcal sore throat (050-051)	1	0.0	1	0.0	1	0.0	1	0.0	1	0.0	1	0.0
Diphtheria (051-053)	1	0.0	1	0.0	1	0.0	1	0.0	1	0.0	1	0.0
Scarlet fever (051-053)	1	0.0	1	0.0	1	0.0	1	0.0	1	0.0	1	0.0
Mononucleosis infectious (057)	1	0.0	1	0.0	1	0.0	1	0.0	1	0.0	1	0.0
Acute poliomyelitis (080)	6	0.2	6	0.2	2	0.0	2	0.0	1	0.0	1	0.0
Smeillox (084)	1	0.0	1	0.0	1	0.0	1	0.0	1	0.0	1	0.0
Smallpox (084)	1	0.0	1	0.0	1	0.0	1	0.0	1	0.0	1	0.0
Scarlet fever and streptococcal sore throat (100-108)	1	0.0	1	0.0	1	0.0	1	0.0	1	0.0	1	0.0
All other diseases classified as infectious (09-099-099, 099-099, 081-083, 086-086, 120-138)	2	0.0	1	0.0	1	0.0	1	0.0	1	0.0	1	0.0
Malignant neoplasms, including neoplasms of (140-209) and mesoneoplastic tissues (210-239)	34	1.0	31	0.9	28	0.8	27	0.8	40	0.9	39	1.0
Diabetes mellitus (260)	3	0.1	3	0.1	4	0.1	4	0.1	2	0.0	2	0.0
Wenke (280-289)	39	1.1	34	1.0	42	1.2	41	1.2	55	1.2	51	1.4
Nonmeningococcal meningitis (340)	1	0.0	1	0.0	1	0.0	1	0.0	1	0.0	1	0.0
Chronic rheumatic heart disease (110-116)	1	0.0	1	0.0	1	0.0	1	0.0	1	0.0	1	0.0
Arteriosclerosis and degenerative heart disease (420-422)	74	2.1	67	2.0	76	2.2	74	2.1	90	2.0	89	2.1
Other diseases of heart (430-434)	26	0.8	25	0.7	24	0.7	24	0.7	31	0.7	31	0.8
Hypertension without mention of heart (440-447)	4	0.1	4	0.1	6	0.2	6	0.2	4	0.1	4	0.1
Infarction (440-449)	4	0.1	3	0.1	6	0.2	6	0.2	6	0.1	6	0.1
Bronchitis (500-502)	13	0.4	12	0.4	9	0.3	9	0.3	12	0.3	12	0.3
Ulcer of stomach and duodenum (540, 541)	2	0.0	2	0.0	1	0.0	1	0.0	1	0.0	1	0.0
Appendicitis (590-593)	2	0.0	2	0.0	3	0.1	3	0.1	2	0.0	2	0.0
Intestinal obstruction and hernia (560, 561, 570)	1	0.0	1	0.0	2	0.0	2	0.0	5	0.1	5	0.1
Gastritis, duodenitis, enteritis and colitis, except diarrhea of the newborn (543, 544, 579)	4	0.1	4	0.1	4	0.1	4	0.1	3	0.0	3	0.0
Diarrhea and proctitis (590-594)	9	0.3	9	0.3	6	0.2	6	0.2	10	0.2	10	0.3
Hypertension of prostate (610)	1	0.0	1	0.0	5	0.1	5	0.1	4	0.1	4	0.1
Complications of pregnancy, childbirth and puerperium (640-649)	3	0.1	3	0.1	1	0.0	1	0.0	2	0.0	2	0.0
Congenital malformations (750-799)	3	0.1	3	0.1	1	0.0	1	0.0	2	0.0	2	0.0
Birth injuries, postnatal asphyxia and tetanus (760-762)	1	0.0	1	0.0	1	0.0	1	0.0	2	0.0	2	0.0
Other diseases peculiar to early infancy, and lambrity unqualified (760-776)	1	0.0	1	0.0	1	0.0	1	0.0	1	0.0	1	0.0
Smell without mention of psychosis (111-113)	18	0.5	16	0.5	10	0.3	9	0.3	12	0.3	12	0.3
All other mental diseases (800-899)	16	0.5	13	0.4	26	0.8	23	0.7	14	0.3	13	0.4
Motor vehicle accidents (8810-883)	11	0.3	10	0.3	8	0.2	8	0.2	10	0.2	10	0.3
All other accidents (8800-8802, 8840-8862), Struck and self-inflicted injury (890-899)	6	0.2	6	0.2	4	0.1	4	0.1	2	0.0	2	0.0
Hostile and operations of war (894, 895, 8980-8999)	4	0.1	4	0.1	2	0.0	2	0.0	1	0.0	1	0.0

TABLE IV. RESIDENT BIRTHS, DEATHS, AND DEATHS BY APERTAIN CAUSES, NUMBER AND RATE BY COUNTY, AND NUMBER BY RACE, OKLAHOMA, 1949 (Continued)

Established population, July 1, 1949	HESBROOK				MOORE MILLS				ROBBS			
	Total No.	Rate	No.	Rate	Total No.	Rate	No.	Rate	Total No.	Rate	No.	Rate
Live births*	262	20.6	230	7.7	167	21.6	162	19.2	380	19.2	350	19.0
Physician in hospital	262	20.6	230	7.7	167	21.6	162	19.2	380	19.2	350	19.0
Midwife, other, or unknown	17	1.3	16	1.2	6	0.4	6	0.7	62	3.1	56	2.8
Stillbirths†	9	0.7	9	0.7	3	0.2	3	0.4	11	0.6	10	0.5
Physician in hospital	5	0.4	5	0.4	1	0.1	1	0.1	9	0.5	8	0.4
Midwife, other, or unknown	4	0.3	4	0.3	2	0.1	2	0.2	2	0.1	2	0.1
Total deaths, all causes*	89	7.0	82	6.4	55	7.1	54	6.5	201	10.2	188	9.4
Deaths under 1 year‡	4	0.3	4	0.3	4	0.5	4	0.5	12	1.6	10	0.5
Deaths under 1 month§	4	0.3	4	0.3	4	0.5	4	0.5	9	2.3	8	0.4
Pharyngitis, other forms (010-019)	4	0.3	4	0.3	2	0.2	2	0.2	3	0.1	3	0.1
Rheumatoid, other forms (010-029)	1	0.0	1	0.0	1	0.1	1	0.1	1	0.0	1	0.0
Syphilis and its sequelae (020-029)	1	0.0	1	0.0	1	0.1	1	0.1	1	0.0	1	0.0
Syphilitic fever (020-049)	1	0.0	1	0.0	1	0.1	1	0.1	1	0.0	1	0.0
Serous fever and streptococcal sore throat (050-051)	1	0.0	1	0.0	1	0.1	1	0.1	1	0.0	1	0.0
Diphtheria (051-053)	1	0.0	1	0.0	1	0.1	1	0.1	1	0.0	1	0.0
Scarlet fever (051-053)	1	0.0	1	0.0	1	0.1	1	0.1	1	0.0	1	0.0
Mononucleosis infectious (057)	1	0.0	1	0.0	1	0.1	1	0.1	1	0.0	1	0.0
Acute poliomyelitis (080)	1	0.0	1	0.0	1	0.1	1	0.1	1	0.0	1	0.0
Smeillox (084)	1	0.0	1	0.0	1	0.1	1	0.1	1	0.0	1	0.0
Smallpox (084)	1	0.0	1	0.0	1	0.1	1	0.1	1	0.0	1	0.0
Scarlet fever and streptococcal sore throat (100-108)	1	0.0	1	0.0	1	0.1	1	0.1	1	0.0	1	0.0
All other diseases classified as infectious (09-099-099, 099-099, 081-083, 086-086, 120-138)	1	0.0	1	0.0	1	0.1	1	0.1	1	0.0	1	0.0
Malignant neoplasms, including neoplasms of (140-209) and mesoneoplastic tissues (210-239)	13	1.0	12	0.9	6	0.8	6	0.7	28	1.4	28	1.4
Diabetes mellitus (260)	1	0.0	1	0.0	1	0.1	1	0.1	6	0.3	6	0.3
Wenke (280-289)	12	0.9	12	0.9	6	0.8	6	0.7	23	1.2	20	1.0
Nonmeningococcal meningitis (340)	1	0.0	1	0.0	1	0.1	1	0.1	1	0.0	1	0.0
Chronic rheumatic heart disease (110-116)	1	0.0	1	0.0	1	0.1	1	0.1	1	0.0	1	0.0
Arteriosclerosis and degenerative heart disease (420-422)	9	0.7	9	0.7	17	2.1	16	1.9	43	2.1	40	2.0
Other diseases of heart (430-434)	2	0.2	2	0.2	2	0.3	2	0.2	11	0.5	11	0.5
Hypertension without mention of heart (440-447)	3	0.2	3	0.2	2	0.3	2	0.2	19	0.9	18	0.9
Infarction (440-449)	1	0.0	1	0.0	1	0.1	1	0.1	2	0.1	2	0.1
Bronchitis (500-502)	7	0.5	7	0.5	4	0.5	4	0.5	2	0.1	2	0.1
Ulcer of stomach and duodenum (540, 541)	1	0.0	1	0.0	1	0.1	1	0.1	2	0.1	2	0.1
Appendicitis (590-593)	1	0.0	1	0.0	1	0.1	1	0.1	1	0.0	1	0.0
Intestinal obstruction and hernia (560, 561, 570)	1	0.0	1	0.0	1	0.1	1	0.1	1	0.0	1	0.0
Gastritis, duodenitis, enteritis and colitis, except diarrhea of the newborn (543, 544, 579)	15	1.1	15	1.1	12	1.5	12	1.4	1	0.0	1	0.0
Diarrhea and proctitis (590-594)	7	0.5	7	0.5	4	0.5	4	0.5	1	0.0	1	0.0
Hypertension of prostate (610)	2	0.2	2	0.2	1	0.1	1	0.1	1	0.0	1	0.0
Complications of pregnancy, childbirth and puerperium (640-649)	2	0.2	2	0.2	1	0.1	1	0.1	2	0.1	2	0.1
Congenital malformations (750-799)	1	0.0	1	0.0	1	0.1	1	0.1	3	0.1	3	0.1
Birth injuries, postnatal asphyxia and tetanus (760-762)	1	0.0	1	0.0	1	0.1	1	0.1	1	0.0	1	0.0
Other diseases peculiar to early infancy, and lambrity unqualified (760-776)	5	0.4	5	0.4	3	0.4	3	0.4	1	0.0	1	0.0
Smell without mention of psychosis (111-113)	3	0.2	3	0.2	2	0.3	2	0.2	21	1.0	21	1.0
All other mental diseases (800-899)	3	0.2	3	0.2	3	0.4	3	0.4	1	0.0	1	0.0
Motor vehicle accidents (8810-883)	8	0.6	8	0.6	3	0.4	3	0.4	2	0.1	2	0.1
All other accidents (8800-8802, 8840-8862), Struck and self-inflicted injury (890-899)	1	0.0	1	0.0	1	0.1	1	0.1	9	0.4	8	0.4
Hostile and operations of war (894, 895, 8980-8999)	1	0.0	1	0.0	1	0.1	1	0.1	2			

TABLE V. RESIDENT BIRTHS, DEATHS AND DEATHS BY INDIAN CAUSES, NUMBER AND RATE, BY RACE
OKLAHOMA CITY AND TULSA, 1949

Estimated population, July 1, 1949	OKLAHOMA CITY						TULSA					
	Total		Race		Total		Race		Total		Race	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Live births	5,280	22.0	4,554	22.0	644	62	4,368	22.4	3,652	486	30	
Stillbirths	319	1.2	279	1.2	40	3	279	1.2	279	3	2	
Deaths	1,170	4.8	1,000	4.8	170	16	1,000	4.8	1,000	13	8	
Deaths from leading causes:												
Heart disease	177	0.7	157	0.7	20	2	157	0.7	157	2	1	
Stroke	88	0.3	77	0.3	11	1	77	0.3	77	1	0	
Cancer	81	0.3	68	0.3	13	1	68	0.3	68	1	0	
Tuberculosis	4	0.0	4	0.0	0	0	4	0.0	4	0	0	
Pneumonia	1,859	7.1	1,669	7.1	190	18	1,669	7.1	1,669	22	10	
Influenza	77	0.3	77	0.3	0	0	77	0.3	77	0	0	
Scarlet fever	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Diphtheria	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Whooping cough	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Measles	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Mumps	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Scarlet fever and streptococcal sore throat	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Diphtheria and tetanus	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Whooping cough	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Measles	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Mumps	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Scarlet fever and streptococcal sore throat	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Diphtheria and tetanus	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Whooping cough	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Measles	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Mumps	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Scarlet fever and streptococcal sore throat	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Diphtheria and tetanus	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Whooping cough	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Measles	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Mumps	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Scarlet fever and streptococcal sore throat	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Diphtheria and tetanus	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Whooping cough	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Measles	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Mumps	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Scarlet fever and streptococcal sore throat	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Diphtheria and tetanus	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Whooping cough	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Measles	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Mumps	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Scarlet fever and streptococcal sore throat	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Diphtheria and tetanus	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Whooping cough	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Measles	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Mumps	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Scarlet fever and streptococcal sore throat	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Diphtheria and tetanus	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Whooping cough	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Measles	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Mumps	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Scarlet fever and streptococcal sore throat	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Diphtheria and tetanus	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Whooping cough	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Measles	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Mumps	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Scarlet fever and streptococcal sore throat	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Diphtheria and tetanus	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Whooping cough	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Measles	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Mumps	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Scarlet fever and streptococcal sore throat	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Diphtheria and tetanus	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Whooping cough	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Measles	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Mumps	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Scarlet fever and streptococcal sore throat	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Diphtheria and tetanus	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Whooping cough	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Measles	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Mumps	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Scarlet fever and streptococcal sore throat	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Diphtheria and tetanus	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Whooping cough	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Measles	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Mumps	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Scarlet fever and streptococcal sore throat	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Diphtheria and tetanus	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Whooping cough	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Measles	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Mumps	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Scarlet fever and streptococcal sore throat	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Diphtheria and tetanus	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Whooping cough	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Measles	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Mumps	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Scarlet fever and streptococcal sore throat	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Diphtheria and tetanus	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Whooping cough	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Measles	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Mumps	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Scarlet fever and streptococcal sore throat	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Diphtheria and tetanus	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Whooping cough	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Measles	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Mumps	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Scarlet fever and streptococcal sore throat	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Diphtheria and tetanus	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Whooping cough	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Measles	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Mumps	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Scarlet fever and streptococcal sore throat	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Diphtheria and tetanus	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Whooping cough	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Measles	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Mumps	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Scarlet fever and streptococcal sore throat	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Diphtheria and tetanus	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Whooping cough	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Measles	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Mumps	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Scarlet fever and streptococcal sore throat	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Diphtheria and tetanus	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Whooping cough	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Measles	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Mumps	9	0.0	9	0.0	0	0	9	0.0	9	0	0	
Scarlet fever and streptococcal sore throat	1	0.0	1	0.0	0	0	1	0.0	1	0	0	
Diphtheria and tetanus	1	0.0	1									

TABLE VI. RESIDENT BIRTHS, DEATHS AND DEATHS FROM LEADING CAUSES, NUMBER AND RATE, FOR CITIES HAVING A POPULATION OF 2,500 OR MORE, OKLAHOMA, 1949 (Continued)

Estimated population	El Reno		Bird		Piedmont		Owasso		Muskogee		Norman		Okemuh		Tulsa		Muskogee		
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	
Live births	243	22.1	948	26.4	115	21.1	218	21.8	52	22.3	181	22.6	133	24.8	130	21.0	126	21.4	
Stillbirths	6	24.7	16	16.9	2	9.2	2	9.2	2	9.5	10	52.0	3	22.6	62	15.4	12	15.4	
Deaths all causes	136	12.4	322	29.0	66	12.4	153	15.2	22	9.5	96	12.9	69	12.6	82	13.2	77	12.4	
Infant deaths	12	49.4	22	29.2	3	26.1	3	16.3	-	-	12	15.2	3	15.0	1	7.7	-	-	
Maternal deaths	-	-	2	2.1	-	-	1	4.6	-	-	1	5.5	-	-	-	-	-	-	-
Deaths from leading causes:																			
Diseases of the heart (10-443)	41	37.7	108	30.2	26	47.2	59	58.9	5	21.9	23	28.7	27	50.2	29	46.4	22	33.9	
Malignant neoplasms (140-205)	21	19.1	48	13.4	6	11.1	22	21.9	5	21.9	19	23.7	8	14.6	12	19.8	10	15.4	
Accidents (880-982)	18	16.4	17	15.6	2	4.6	16	15.7	2	8.9	8	10.2	2	3.7	12	19.8	12	18.2	
Acute infectious diseases (930-934)	9	8.0	20	18.5	8	14.8	16	15.7	-	-	8	9.9	2	3.7	1	1.6	1	1.6	
Neurotic system (330-334)	12	10.9	25	22.9	4	7.3	4	3.9	2	8.9	5	6.2	3	5.5	2	3.2	2	3.2	
Diabetes mellitus (250-252)	3	2.7	5	4.5	2	3.6	3	2.9	1	4.5	1	1.2	1	1.8	2	3.2	1	1.6	
Alcoholism (290-292)	1	0.9	1	0.9	1	1.8	1	0.9	1	4.5	1	1.2	1	1.8	1	1.6	1	1.6	
Phthisis and nephritis (590-594)	-	-	11	10.6	3	5.4	4	3.9	-	-	3	3.7	3	5.5	1	1.6	1	1.6	

Estimated population	Hollis		Henry		Hugo		Tahleah		Hartford		Lardon		Muskogee		Muskogee			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate		
Live births	75	24.3	71	26.3	147	24.7	95	20.6	64	19.1	80	24.9	39	22.0	61	21.9		
Stillbirths	2	10.0	4	12.3	1	4.3	2	4.5	1	3.1	1	3.1	1	1.6	1	1.6		
Deaths all causes	5	66.7	4	56.3	1	6.8	5	52.6	2	6.2	10	31.2	4	10.2	3	4.9		
Infant deaths	5	66.7	4	56.3	1	6.8	1	4.2	2	31.2	1	2.4	4	10.2	3	4.9		
Maternal deaths	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Deaths from leading causes:																		
Diseases of the heart (10-443)	9	291.5	16	191.9	29	487.4	17	387.9	14	417.9	63	182.5	53	297.6	10	339.5		
Malignant neoplasms (140-205)	6	64.8	4	42.0	10	168.1	8	173.1	5	129.3	23	66.6	10	56.2	4	124.8		
Accidents (880-982)	2	64.8	2	74.0	6	100.8	10	216.4	4	119.4	20	57.9	14	78.6	3	107.8		
Acute infectious diseases (930-934)	2	64.8	2	74.0	6	100.8	10	216.4	4	119.4	7	20.3	14	78.6	3	107.8		
Neurotic system (330-334)	5	161.9	2	74.0	1	16.8	4	86.6	3	89.6	22	63.7	4	22.5	3	107.8		
Diabetes mellitus (250-252)	1	37.0	1	16.8	1	16.8	2	43.3	1	8.7	4	11.6	3	16.8	2	74.0		
Alcoholism (290-292)	1	37.0	1	16.8	1	16.8	2	43.3	1	8.7	4	11.6	3	16.8	2	74.0		
Phthisis and nephritis (590-594)	-	-	-	-	3	50.4	2	43.3	-	-	3	8.7	3	16.8	3	107.8		

Estimated population	Haskell		Haskell		Haskell		Haskell		Haskell		Haskell		Haskell		Haskell		
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	
Live births	75	17.6	75	22.1	297	25.4	834	22.4	718	26.6	87	21.9	78	22.6	397	18.4	
Stillbirths	4	17.3	3	11.2	1	3.7	1	3.7	1	3.7	1	3.7	1	3.7	1	3.7	
Deaths all causes	14	33.3	1	13.3	4	13.5	13	15.6	1	1.4	1	1.4	1	1.4	1	1.4	
Infant deaths	3	10.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maternal deaths	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Deaths from leading causes:																	
Diseases of the heart (10-443)	20	469.8	18	551.3	28	239.3	130	318.9	27	100.1	24	604.2	22	637.7	41	224.0	
Malignant neoplasms (140-205)	5	117.5	3	88.5	18	153.8	55	127.6	13	48.2	6	151.1	6	173.9	33	180.3	
Accidents (880-982)	-	-	-	-	12	108.5	29	158.4	16	59.3	12	102.1	6	119.9	30	164.0	
Neurotic system (330-334)	-	-	-	-	8	68.4	59	75.2	13	48.2	12	125.9	6	173.9	9	49.2	
Diabetes mellitus (250-252)	4	94.0	4	118.1	4	34.2	12	30.2	12	44.5	4	100.7	3	87.0	15	82.0	
Alcoholism (290-292)	1	23.5	2	59.0	7	59.8	25	67.1	1	3.7	2	50.4	2	58.0	7	38.3	
Phthisis and nephritis (590-594)	1	23.5	2	59.0	3	25.6	9	24.2	2	7.4	2	50.4	2	58.0	6	33.0	

TABLE VI. RESIDENT BIRTHS, DEATHS AND DEATHS FROM LEADING CAUSES, NUMBER AND RATE, FOR CITIES HAVING A POPULATION OF 2,500 OR MORE, OKLAHOMA, 1949 (Continued)

Estimated population	Muskogee		Pawnee		Pawnee		Pawnee		Pawnee		Pawnee		Pawnee		Pawnee		
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	
Live births	166	24.2	121	22.8	66	23.8	108	21.0	110	28.0	510	35.3	117	24.5	83	18.7	
Stillbirths	57	8.3	66	12.4	29	10.4	56	10.9	61	15.5	156	11.7	7	1.7	2	2.1	
Deaths all causes	5	30.1	3	24.8	2	15.2	5	16.3	6	48.2	6	48.2	3	25.8	4	9.9	
Infant deaths	2	12.0	3	24.8	2	15.2	5	16.3	6	48.2	6	48.2	3	25.8	4	9.9	
Maternal deaths	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Deaths from leading causes:																	
Diseases of the heart (10-443)	22	330.4	7	153.9	11	396.0	14	271.6	15	382.4	53	285.6	11	200.2	21	372.9	
Malignant neoplasms (140-205)	8	116.5	6	113.1	3	108.0	6	116.4	2	51.0	2	51.0	3	62.8	8	130.1	
Accidents (880-982)	5	72.8	6	113.1	-	-	6	116.4	5	97.0	6	116.4	5	104.6	7	157.6	
Neurotic system (330-334)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diabetes mellitus (250-252)	2	29.1	3	56.5	2	72.0	5	97.0	2	51.0	2	51.0	4	83.7	-	-	
Alcoholism (290-292)	1	14.6	3	56.5	1	36.0	1	19.4	1	19.4	1	19.4	2	41.9	1	22.5	
Phthisis and nephritis (590-594)	2	29.1	3	56.5	1	36.0	1	19.4	1	19.4	1	19.4	2	41.9	1	22.5	

Estimated population	Pawnee		Sand Springs		Sand Springs		Sand Springs		Sand Springs		Sand Springs		Sand Springs		Sand Springs	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Live births	72	20.4	203	29.1	319	24.5	62	18.5	228	19.2	531	21.7	684	31.9	97	22.7
Stillbirths	2	9.1	10	49.2	14	12.5	1	16.1	3	13.2	15	13.1	4	5.8	1	10.3
Deaths all causes	32	27.8	13	12.8	13	40.8	8	25.2	13	40.8	19	48.2	17	32.6	10	24.6
Infant deaths	1	13.9	3	14.8	3	25.2	3	48.4	9	39.5	13	24.5	12	17.5	1	10.3
Maternal deaths	-	-	-	-	-	-	-	-	1	4.4	1	1.9	-	-	-	-
Deaths from leading causes:																
Diseases of the heart (10-443)	13	368.6	19	272.1	42	322.6	12	397.6	18	211.9	78	318.9	30	148.8	30	666.4
Malignant neoplasms (140-205)	7	198.5	11	157.5	18	138.3	9	268.2	6	67.5	23	94.0	14	69.5	4	91.5
Accidents (880-982)	2	56.7	7	100.3	18	138.3	2	59.6	6	50.6	17	69.5	10	49.6	1	22.9
Neurotic system (330-334)	2	56.7	7	100.3	18	138.3	2	59.6	6	50.6	17	69.5	10	49.6	1	22.9
Diabetes mellitus (250-252)	2	56.7	7	100.3	18	138.3	2	59.6	6	50.6	17	69.5	10	49.6	1	22.9
Alcoholism (290-292)	2	56.7	7	100.3	18	138.3	2	59.6	6	50.6	17	69.5	10	49.6	1	22.9
Phthisis and nephritis (590-594)	-	-	-	-	4	30.7	-	-	1	8.4	5	20.4	5	24.8	1	22.9

Estimated population	Tulsa		Tulsa		Tulsa		Tulsa		Tulsa		Tulsa		Tulsa		Tulsa	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Live births	117	24.7	78	21.5	132	24.0	120	27.3	9	21.3	92	36.2				

