

PUBLIC HEALTH STATISTICS

STATE OF

OKLAHOMA

1948



PART II

BIRTHS AND DEATHS

Oklahoma State Department of Health
Oklahoma City, Oklahoma

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In this, the sixth annual publication of Public Health Statistics of Oklahoma, an effort has been made to summarize the principal happenings in vital statistics in Oklahoma for the year 1948. A publication of this sort must of necessity be selective in the choice of material which is to be included. For this reason it will be found that most of the tables, charts and graphs are of a general nature, rather than a specific one. These major tables provide a source from which more detailed, or specific information may be taken. Included are tables, graphs, and charts which reflect the current trends in natality and mortality experience. The information concerning the year 1946 and those years prior to that time was obtained from Bureau of the Census publications. All of the data subsequent to 1936 were obtained from the records on file in the State Department of Health. The figures have been allocated by place of residence. The major tables in this publication remain unchanged in form as it is believed that they will be of more value for comparison with tables of previous years which appear in the same form in earlier publications.

A narrative interpretation of the tables, graphs and charts dealing with population, births, deaths, principal causes of death, deaths due to acute communicable diseases, accidental, maternal, infant and neonatal deaths, will be found in the first sections of this volume. Immediately following this will be found a four-page table which pictures births, deaths, stillbirths, and deaths due to specific causes for the past twenty years. Similar tables enumerate the number of deaths by important causes in relation to the rate, and by race, age, and sex for resident deaths.

The fifth revision of the International List of Causes of Death and the Manual of Joint Causes of Death, along with the Vital Statistics Instruction Manual which was prepared by the National Office of Vital Statistics, were used in classifying causes of death. When there was doubt as to the proper classification of the cause of death because of insufficient or indefinite information on the death certificate, query procedures necessitating the cooperation of the attending physician were used to clarify the cause of death. Supplemental information on the factors involved in fatal motor vehicle accidents was obtained from the Department of Public Safety.

Population

The further one becomes removed from a basic point of reference, the greater becomes the probability of error. Such is the case in an estimate of the population. The task of such an estimation is complicated, of course, by the change in population resulting from World War II. This change was not exclusively concerned with service personnel, but also with the many who moved to industrial areas to work in defense plants. Many of those who fall in the latter group have since been integrated into rural or urban communities.

In approaching the task of estimating the population there were four rather accurate measures of population groups: (1) 1940 census, (2) 1945 Ration Book IV registration, (3) school census, (4) increase in births over deaths from records on file in the State Office of Vital Statistics. The 1948 estimate was based on net increases in the populations from the excess in resident live births over resident deaths during 1948. The net totals were adjusted for migration on the basis of change in the number of children aged 6-21 years as enumerated in the annual scholastic census.

By the above method, a total estimate for the State of 2,334,455, as of July 1, 1948, was made. The estimate for the Negro population was computed by the same method used for estimating county populations. The estimate for Indians was based on the 1940 census enumeration since population changes for this group were not known; the estimate for the other two racial groups from the estimate for the State as a whole. The percentage distribution according to race was as follows: White 90.41 per cent, Negro 6.89 per cent, Indian 2.70 per cent. In previous years it has been found that the number of people classified in "other races", such as Chinese and Japanese, was so small that these were included in the White population group. The 1948 population estimate was used in computing the rates enumerated in this bulletin.

Residence Allocation

Heretofore copies of birth and death certificates for residents of Oklahoma were not received from all States as they were not active in the residence reallocation program. Nation-wide reallocation was achieved in 1948, with the entrance of the State of Texas into this program. This made it possible to include reallocated birth, death and stillbirth certificates from all of the States. The entrance of Texas in the reallocation program will doubtless be reflected in birth and death rate changes in many of the southern border counties of Oklahoma. The criterion of allocation is established by the usual residence designated on the birth, death or stillbirth certificates. Residence of one or more years is taken as the permanent residence even though another is specified as such.

Table 1

Residence Allocation, Oklahoma, 1948

	Non-Resident Certificates Excluded	Resident Transcripts Included
Births	1,251	1,921
Deaths	457	896

Table 1 indicates the number of non-resident birth and death certificates which were excluded and also the number of similar certificates of Oklahoma residents which were included. It is to be noted that there was a slight decline in the number of certificates which were excluded but a

sharp increase in those which were included. This change was expected with the entrance of the State of Texas into the residence allocation reciprocal agreement. Of the counties bordering Texas, six showed an increase in the number of births over that of 1947. This occurred despite the fact that the State as a whole showed a substantial decrease. An increase of 846 certificates from other states was included over 1947; of these, 710 were received from Texas. From 1946 through 1948 there has been a substantial increase in the number of transcripts which have been exchanged. The number exchanged was (1946) 3,057, (1947) 3,744, (1948) 4,525. Table 2 lists the States in which the majority of Oklahoma resident births and deaths occurred. Thirty-eight States, Hawaii and Washington, D. C. reported resident Oklahoma births whereas thirty-seven States, Canada and Washington, D. C. reported resident Oklahoma deaths.

Table 2

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

1948

State	Number	
	Births	Deaths
Total	1,921	896
Arizona	30	41
Arkansas	524	134
California	51	26
Colorado	24	24
Florida	19	3
Illinois	4	8
Kansas	419	188
Kentucky	17	6
Mississippi	15	2
Missouri	115	101
New Mexico	63	46
Tennessee	28	8
Texas	483	227
Virginia	22	2
Washington	27	6
Wyoming	11	5
All others	69	69

The major portion of the charts, graphs and tables which follow will be using resident births and deaths, as it is believed that these figures more properly picture the true status of vital statistics events. Recorded figures represent the number of births or deaths according to the location

where the events occurred. Table B gives recorded births, stillbirths, deaths, infant and neonatal deaths by county. In cases of accidental death, the place of occurrence is often beneficial in establishing the various foci for accident prevention campaigns. With this in mind, figures have been used in Table VII which enumerate by counties the place in which the accidents resulting in death occurred. Principal among accidental deaths were those resulting from automobile accidents. Every effort has been made to gain a true picture in these cases. With the cooperation of the Department of Public Safety, more accurate and complete coverage of this particular type of accident has been obtained.

Live Births

The number of resident live births for 1948 showed a decline of slightly more than 2,000 from that reported in 1947. The birth rate has shown also a significant decrease. As can be seen in Table 3, this decrease was in the White and Indian populations. The colored population showed an increase in both the number and rate over those reported in 1947. It should be pointed out that in the year 1947 the greatest number of births ever recorded in Oklahoma was reached.

Table 3
Live Births, Number and Rate*, by Race
Oklahoma, 1947 - 1948

Year	Total		White		Negro		Indian	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1947	52,691	22.8	47,440	22.7	3,529	21.9	1,722	27.3
1948	50,428	21.6	45,083	21.4	3,639	22.6	1,706	27.0

* Rates represent number per 1,000 estimated population.

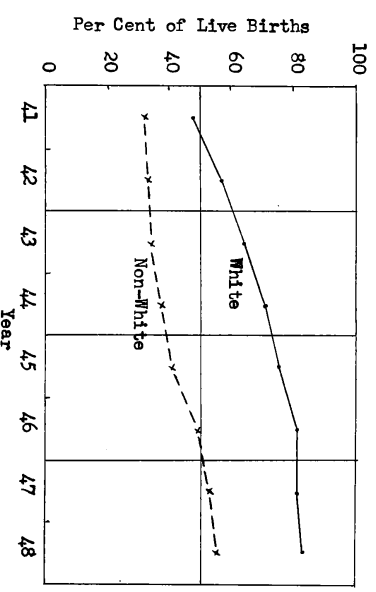
The artificially inflated birth rates in evidence in Cleveland and Payne Counties were more pronounced in 1948 than in 1947. This was expected since a peak enrollment of Oklahoma University and Oklahoma Agricultural and Mechanical College was reached in 1948. In making population estimates by counties, the student enrollments of the two state schools having the largest enrollment were not included in the counties in which the colleges are located. Live birth certificates for children born to student families, however, usually gave Cleveland or Payne County as the place of residence since the parents had established residence for the years during which they would be in school. Cleveland County showed a rate of 30.8 births per 1,000 estimated population as compared to 30.7 in 1947. Payne County showed the larger increase, with a rate of 31.3 for 1948 as compared with 30.5 for 1947.

For the first time since records of vital statistics data have been kept in the State of Oklahoma, over 80 per cent of all live births occurred in hospitals. This trend has been constant since 1941 as shown in Chart 1. In 1948, of the 50,428 resident live births, 40,545 or 80.4 per cent were delivered in hospitals. Chart V, page 19, which shows the maternal death rates for each year since 1928, is largely a function of this trend. The percentage of patients being delivered by midwives and others has not changed significantly in the past six years. In 1943, 1,556 or 3.3 per cent of all live births were attended by persons other than physicians as compared with 1948 when 1,457 or 2.9 per cent of all live births were delivered by persons other than physicians. Upon examining Table 4, it may be seen that 927 Negro births were delivered by midwives or others. This is 63.6 per cent of the births in this category for the three racial groups. The number of births delivered by physicians in the home has diminished in all racial classifications, in keeping with past trends.

Table 4
Live Birth Attendance by Race, Oklahoma, 1948

	Total		White		Negro		Indian	
	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Per Cent
Attendance at Birth	50,428	100.0	45,083	99.9	3,639	100.0	1,706	100.0
Total	40,545	80.4	37,570	83.3	1,597	43.9	1,378	80.8
Physician in hospital	8,426	16.7	7,130	15.8	1,115	30.6	181	10.6
Physician in home	1,457	2.9	383	0.8	927	25.5	147	8.6

Chart 1
Live Births Delivered by Physicians in Hospitals
by Race, Oklahoma, 1941 - 1948



The per cent of mothers being delivered in hospitals has continued to increase through 1948. The per cent of urban mothers being delivered in hospitals has not changed significantly; however, in the rural population a definite increase may be noted. This increase was greatest in the rural Negro population; 6.3 per cent more rural Negro mothers were delivered in hospitals in 1948 than in 1947. No significant difference in the percentage of White and Indian mothers delivered in hospitals was noted. Table 5 shows that the White and Indian races corresponded rather closely in the percentage of urban and rural mothers delivered by physicians as well as those delivered in hospitals. The Indian and White races as a group contrasted rather sharply with the Negro group which showed the lowest percentage for any group.

The racial group differences in percentages of mothers delivered by physicians were not great; however, the number of Negro mothers delivered by physicians was lower than that shown for the White and Indian races.

Table 5

Percentages of Live Births Delivered in Hospitals and by Physicians, by Urban or Rural Residence of Mother, by Race, Oklahoma, 1948

Attendance at Birth	Total		White		Negro		Indian	
	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural
Per cent delivered in hospitals	94.1	72.4	97.2	75.4	66.3	21.3	94.4	78.4
Per cent delivered by physicians	98.2	96.5	99.8	98.8	84.2	64.8	99.6	90.0

In grouping births into the quarter of occurrence, it may be seen the greatest percentage occurred in the first quarter, 27.4 per cent and the lowest percentage 22.8 per cent in the third or summer quarter. The percentages for the second and fourth quarters were 24.4 and 25.4 respectively.

Immature Births

For the first time, data on immaturity could be tabulated from the live birth records. The 1948 revision of the standard certificate included an item for birth weight, and about 93 per cent of the birth certificates reported this information. Infants weighing less than five and one-half pounds were classified as immature. As shown in Table 6, the percentage of Negro premature births was higher than for the White and Indian races. The difference between the White and Indian percentages was too small to be significant.

Table 6
Percentage of Immature Births, by Race
Oklahoma, 1948

	Total	White	Negro	Indian
Live births with birth weight specified	46,741	41,909	3,233	1,599
Birth weight less than 5½ pounds	2,526	2,235	213	78
Per Cent	5.4	5.3	6.6	4.9

Stillbirths

For the year 1948 the standard certificate of stillbirth was used for the first time. Formerly both birth and death certificates were required in cases of stillbirth. By the adoption of the new certificate, additional information relating specifically to stillbirths has been obtained.

A sharp decrease in the number of stillbirths reported for 1948 as compared to 1947 was noted. A total of 1,043 stillbirths was reported in 1947 as compared with 914 for 1948. The rate of stillbirths per 1,000 live births dropped from 19.8 for 1947 to 18.1 for 1948. The number of Negro stillbirths occurring in hospitals was much lower than for the Whites and Indians. This was also in evidence in live births. Negroes and Indians showed a greater rate of stillbirths than did the Whites. The ratio for Negroes and Indians was higher in those cases where the stillbirth occurred in a hospital; it is thought that this high level is a true difference - one which would exhibit itself in the other places of delivery if all stillbirths were reported.

Table 7

Stillbirth Attendance by Race, Oklahoma, 1948

Attendance at Birth	Total		White		Negro		Indian	
	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Per Cent
Total	914	100.0	741	100.0	124	100.0	49	100.1
Physician in hospital	702	76.8	598	80.7	63	50.8	41	83.7
Physician in home	179	19.6	134	18.1	41	33.1	4	8.2
Midwife and other	33	3.6	9	1.2	20	16.1	4	8.2

Comparisons with previous years tabulations are made inadvisable because of the change in causes of stillbirth used in Table 8. The categories used in Table 8 are in accordance with the Manual for Classification of Causes of Stillbirth as approved by the Committee on Research and Standards of the American Public Health Association. The percentage of

certificates received which listed unknown or ill defined conditions dropped from 61.4 per cent in 1947 to 32.0 per cent in 1948. This sizable increase in the amount of usable information is partly attributable to the increased interest and cooperation on the part of physicians, and then also to the use of the Standard Certificate of Stillbirth which was used for the first time for the year 1948. Conditions in the foetus, placenta or cord were listed as causes on 61.4 per cent of the certificates with acceptable causes, as compared with the remaining 38.6 per cent of the acceptable certificates which listed causes as determined in the mother, or related to pregnancy. Of these two major sub-divisions, the principal cause in the former was "placental and cord conditions", which was responsible for 282 or 30.9 per cent of all stillbirths. In the latter sub-division, "difficult labor" resulted in the greatest number of stillbirths, with 109 cases reported or 11.9 per cent of all certificates.

Table 8

Resident Stillbirths by Cause of Stillbirth, Oklahoma, 1948

Cause of Stillbirth	Number	Per Cent
Total	914	100.0
Causes Determined in the Foetus, Placenta or Cord:	381	41.7
Congenital malformations	70	7.7
Placental and cord conditions	282	30.9
Birth injury	11	1.2
Erythroblastosis foetalis	15	1.6
Other causes determined in foetus	3	0.3
Causes Determined in the Mother, or Related to Pregnancy:	240	26.3
Diabetes mellitus	9	1.0
Chronic diseases of genito-urinary system	6	0.7
Other chronic diseases	4	0.4
Acute diseases in mother	16	1.8
Toxemias of pregnancy	62	6.8
Infection (ante- or intrapartum)	5	0.5
Difficult labor	109	11.9
Other conditions incident to pregnancy and childbirth	7	0.8
Overexertion	5	0.5
External violence	17	1.9
Ill defined causes	100	10.9
Unknown causes	193	21.1

Total Deaths - A total 19,074 deaths occurred among Oklahoma residents during 1948 as compared to 19,101 in 1947. The rates per 1,000 estimated population for the two years were essentially the same. The Negro death rate was somewhat higher than last year, with 11.2 for 1948 as compared

with 10.5 for 1947. The Negro death rate was considerably higher than the rate 9.5 for the Indian population and 7.9 for the Whites. The number and rate with which deaths have occurred to Oklahoma residents have not varied markedly in the past twenty-year period.

Leading Causes of Death

Slightly more than three-fourths of all the resident deaths recorded during 1948 listed one of the eight conditions shown on Table IV, page 28 as the cause of death. A greater per cent of White deaths were included than for any other race, 78.1 per cent, while 74.2 per cent of the Negro and 67.3 per cent of the Indian deaths were attributed to these leading causes. Heart disease led all other diseases in every race in 1947 as the cause of death. For 1948 this disease continued as the major cause of death in the White and Negro races, but it fell to second in the Indian race, where tuberculosis was shown as the chief cause of death as in 1946. Cancer, the number two cause of death in the White population was the third leading cause in the Negro and Indian groups.

Heart Disease

The importance of heart disease can not be overestimated considering that it accounted for over one-fourth of all deaths in 1948; 5,189 deaths from this malady were recorded. The effects of heart disease were felt by all races, however not equally. The rate per 100,000 population was almost identical in the White and Negro races. A rate of 225.3 was found in the White race and 227.6 for the Negro race. These rates were twice as great as that obtained for the Indian race, 109.3.

The increase in deaths from heart disease over 1947 was distributed rather evenly throughout the five major classifications shown in Table 9. As in 1947, diseases of the coronary arteries and angina pectoris led the other disorders in frequency. Diseases of the myocardium followed a close second. It is significant that the per cent of men who died from heart disease was larger than that for women; of the deaths from heart disease, 65.3 per cent were men, 34.7 per cent were women.

Table 9

Heart Disease Deaths, Oklahoma, 1948

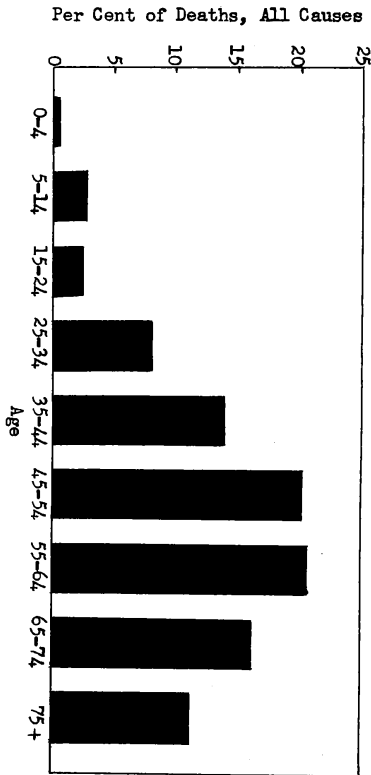
Type of Heart Disease	Deaths	
	Number	Rate*
All heart diseases	5,189	222.3
Pericarditis (except acute rheumatic)	7	0.3
Acute endocarditis (except rheumatic)	20	0.9
Chronic affections of the valves & endocardium	347	14.9
Diseases of the myocardium	1,919	82.2
Diseases of the coronary arteries and angina pectoris	2,165	92.7
Other diseases of the heart	791	31.3

* Rates represent number per 100,000 estimated population.

Cancer

The frequency with which cancer has been reported as a cause of death has increased progressively during the past twenty years. This, no doubt, has been largely a function of the progress in techniques by which cancer can be diagnosed. Cancer is primarily a disease of the aged, even more so than heart disease. In 1948 more than one-half, 1,357, of the total deaths reported from cancer, 2,490, died after their 65th birthday. Chart 2, however, shows that larger proportions of all deaths of persons ages 45-54 and 55-64 were due to cancer than for any other ten-year age group.

Chart 2
Proportionate Mortality from Cancer
Oklahoma, 1948



The rate of cancer in the combined White and Negro races was 107.3 per 100,000 estimated population as compared with a rate of 82.4 in the Indian population. The number of women dying from cancer has been rather uniformly in excess, though slightly, of the number of men. Since the life expectancy of women was slightly higher than that of men this might be expected. The principal site of cancer was the digestive organs and the peritoneum; of the 2,490 deaths from cancer, 1,026 specified involvement in that location. The genito-urinary system was second, with 651 deaths attributed to cancer specified as such.

Table 10
Cancer Deaths by Primary Site, Number and Rate*,
by Sex, Oklahoma, 1948

Primary Site	Total		Male		Female	
	Number	Rate	Number	Rate	Number	Rate
Total cancer deaths	2,490	106.7	1,235	103.9	1,255	108.8
Buccal cavity and pharynx	76	3.3	59	5.0	17	1.5
Digestive organs & peritoneum	1,026	44.0	550	46.3	476	41.3
Respiratory system	202	8.7	150	12.6	52	4.5
Uterus	258	11.1	-	-	258	22.4
Other female genital organs	64	2.7	-	-	64	5.5
Breast	204	8.7	4	0.3	200	17.3
Male genital organs	226	9.7	226	19.0	-	-
Urinary organs (male and female)	103	4.4	64	5.4	39	3.4
Skin	87	3.7	53	4.5	34	2.9
Brain and other parts of central nervous system	39	1.7	18	1.5	21	1.8
Other and unspecified organs	205	8.8	111	9.3	94	8.1

* Rates represent number per 100,000 estimated population.

Tuberculosis

In 1948, deaths from tuberculosis totaled 622, giving a rate of 26.6 per 100,000 population. The rate by race was 20.6 White, 65.3 Negro and 129.9 Indian.

Tuberculosis, unlike heart disease and cancer, is a disease of the young. The age group with the highest per cent of deaths from tuberculosis was between 25 and 34; 14.8 per cent of those who died in that age group died from tuberculosis. Race seems to play an important factor in predominance of tuberculosis as a cause of death, as may be seen by the rates quoted above.

Although the number of deaths from tuberculosis in the general population decreased in 1948, the number of deaths from this disease occurring in state-operated mental institutions did not decrease. Sixty-eight, or 10.9 per cent, of the deaths reported from tuberculosis in 1948 were reported from mental institutions, as compared to 63, or 8.9 per cent, in 1947. Table 11 shows the proportionate mortality for the general population and the mental institutions in 1948.

Table 11

Proportionate Mortality from Tuberculosis in State Mental Institutions and in the General Population, by Age, Oklahoma, 1948

Age in Years	Mental Institutions*		General Population	
	Total Deaths	Tuberculosis Deaths Per Cent	Total Deaths	Tuberculosis Deaths Per Cent
All ages	632	10.8	19,074	3.3
Under 15	12	-	2,308	0.7
15 - 24	20	20.0	502	9.6
25 - 34	28	53.6	583	14.8
35 - 44	59	37.3	1,015	12.4
45 - 54	73	23.3	1,714	6.8
55 - 64	92	4.3	2,761	3.6
65 - 74	159	2.5	4,270	1.8
75 & over	188	1.1	5,906	0.9
Unknown	1	-	15	6.7

* State Mental Institutions

Nephritis

Nephritis deaths showed an increase during 1948, with 1,034 deaths from this cause reported. Nephritis was the sixth leading cause of death for the entire population. In the Negro race nephritis deaths were only one less than those reported for cancer, the third leading cause of death for Negroes. Nephritis was shown as the cause of death at the rate of 44.3 per 100,000 estimated population; of these 70.5 per cent occurred after reaching the age of 65.

Accidental Deaths

A total of 1,480 deaths from accidents occurred to Oklahomans during 1948. Accidents occurred at the rate of 63.4 per 100,000 population. Although this was a considerable decrease in the number and rate of accidental deaths from 1947, it was not sufficient to remove "accidental death" as the fourth leading cause of death in Oklahoma.

Of the 1948 deaths assigned to accidental causes, 1,447 resulted from accidents which occurred in Oklahoma. This figure will be used in summarizing accidents, as it is likely to prove more beneficial from the standpoint of accident prevention. Accidents were distributed according to type as follows:

Table 12
Accidents by Type
Oklahoma, 1948

Type of Accident	Number	Per Cent
All accidents	1,447	100.0
Occupational accidents	117	8.1
Home accidents	498	34.4
Motor vehicle accidents	501	34.6
Public non-motor vehicle accidents	318	22.0
Type of accidents unknown	13	0.9

Occupational accidents - 37.6 per cent of the deaths in this category occurred in agricultural operations. This was closely followed by extractive industries, including mines and quarries, which was quoted as the occupation in 17.9 per cent of the deaths in this classification. About 42.7 per cent of occupational accidents occurred among individuals between the ages of 25 and 44.

Home accidents - The number of home accidents in Oklahoma was only three less than that for traffic accidents, which was the leading cause of death from accidents. Home accidents occurred principally among the children and the aged. Ninety-three, or 18.7 per cent, occurred to children less than five years old. Two hundred and fifty-four, or 51.0 per cent, occurred to those 65 and over. These two age groups would be most highly affected by the two principal causes of death in home accidents, namely, falls, which was the cause in 20%, or 41.0 per cent, of the deaths in this group, and conflagrations, burns and explosions, which caused 13%, or 27.1 per cent, of these deaths.

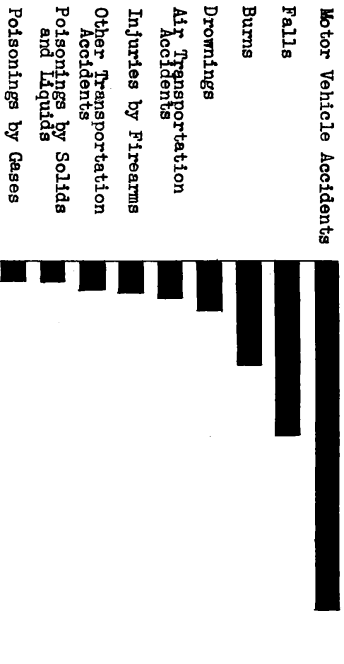
Public motor vehicle - 211, or 42.1 per cent, of all motor vehicle accidents resulted from collisions with other motor vehicles; 154 deaths from accidents of the non-collision type accounted for 30.7 per cent of motor vehicle deaths. The different age groups were rather uniformly affected. The greatest number for any five-year age group, however, occurred between the ages 20 and 24; 64 deaths, or 12.8 per cent of the deaths occurred in this age group.

Public non-motor vehicle - Of the 318 accidents of this type occurring in Oklahoma, 100, or 31.4 per cent, occurred among individuals between 25-44 years of age. The two major causes of death were drowning, which resulted in 80, or 25.2 per cent, of the deaths, and air transportation which caused 55, or 17.3 per cent, of all public, non-motor vehicle deaths.

Unknown - Thirteen deaths occurred in which the causative type of accident was unknown.

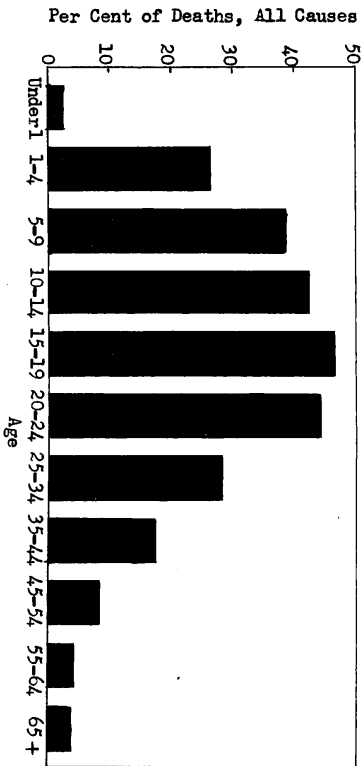
Leading causes of the fatalities resulting from accidents occurring in Oklahoma are shown in Table VII, page 56, and Chart 3. Motor vehicle accidents were responsible for approximately 36 per cent of the total number of fatalities. Falls were second, accounting for about 18 per cent of the accidental deaths.

Chart 3
Leading Causes of Accidental Deaths
Oklahoma, 1948



Accidents were the leading cause of death among children and young adults in 1948. Accidents accounted for 33.4 per cent of the deaths among children between the ages 1 and 15, and 27.4 per cent of the deaths of adults between the ages 15 and 45. Chart 4 shows the proportionate mortality due to accidents for each age group.

Chart 4
Proportionate Mortality from Accidents
Oklahoma, 1948



Communicable Diseases
Acute Communicable Diseases

Deaths from acute communicable diseases have continued in a downward trend for the past several years. Though the number of deaths from these diseases is relatively few, the constant threat which is imposed by these diseases merits the attention of those concerned with preventive medicine as well as curative medicine.

In 1948 typhoid and paratyphoid fever caused six deaths, all of which occurred in the white population; nine deaths from these diseases occurred in 1947. Sixteen deaths from diphtheria were reported, one more than in 1947, 15 of which occurred in children under ten years of age. No deaths were reported as due to scarlet fever; however, 12 deaths from genic sore throat were reported. Measles, which resulted in no deaths in 1947, accounted for seven deaths in 1948. One death was also reported as due to undulant fever.

The number of deaths from meningococcus meningitis showed no increase, with 10 deaths reported from this cause in 1947 as well as in 1948. Acute poliomyelitis showed the greatest increase of all of the acute communicable diseases in 1948. Thirty-five deaths were reported as caused by this disease in 1948; this was the largest number since 1937 when 75 deaths were reported. Only two deaths were reported in 1947.

Deaths from whooping cough continued to be outstanding among the causes of death in infants. Of the 46 deaths from whooping cough reported in 1948, 35 were under one year of age, and only four deaths were reported from this disease in children over two years of age.

Of the other acute communicable diseases which are of particular note as causes of infant deaths, dysentery and diarrhea and enteritis deserve special attention. These two causes accounted for a total of 117 deaths. Ninety-nine of these occurred in infants under one year of age. The cause shown on 119 certificates was diarrhea or enteritis, 82 of which affected infants; the remaining 28 deaths were due to dysentery of which 17 affected infants.

Influenza resulted in the most deaths in the acute communicable disease group; 119 deaths due to influenza were reported, the infants and the aged being principally affected.

One death from Rocky Mountain spotted fever was reported, six from malaria, and three from malaria. Deaths from tetanus totaled seven. Other acute infectious and parasitic diseases resulted in 58 deaths.

Syphilis

The lowest recorded death rate for syphilis on record, 6.9 deaths per 100,000 population, was obtained in 1948; 162 certificates listed syphilis as the cause of death. Syphilis deaths have decreased significantly during the past ten years.

Maternal Deaths

Maternal deaths for both the white and non-white races reached an all time low in 1948. A rate of 1.0 maternal deaths to every 1,000 live births was reached in the white population, and a rate of 3.4 maternal deaths to every 1,000 live births was reached in the non-white population. Of the 62 maternal deaths during 1948, 44 were of Whites, 14 of Negroes, and 4 in the Indian population. A rate of 3.8 maternal deaths per 1,000 live births occurred in the Negro population.

Toxemia of pregnancy and the puerperium resulted in 21 or 33.9 per cent of all maternal deaths. Of these toxic conditions, 13 were of the puerperium. Hemorrhage of childbirth and of the puerperium resulted in 11 deaths, the second leading cause of maternal deaths. Table 13 gives a detailed breakdown of the complications resulting in maternal deaths.

Table 13

Maternal Deaths by Cause, by Race, Number and Rate*, Oklahoma, 1948

Cause of Death	Total		White		Negro		Indian	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate
All maternal causes (140-150)	62	1.2	44	1.0	14	3.8	4	2.3
Abortion with mention of infection (140)	5	0.1	4	0.1	1	0.3	-	-
Abortion without mention of infection (141)	2	0.0	2	0.0	-	-	-	-
Ectopic gestation with mention of infection (142a)	-	-	-	-	-	-	-	-
Ectopic gestation without mention of infection (142b)	6	0.1	5	0.1	1	0.3	-	-
Toxemia of pregnancy (143)	1	0.0	1	0.0	-	-	-	-
Other septic conditions of pregnancy (145a)	8	0.2	5	0.1	2	0.5	1	0.6
Hemorrhage of childbirth and the puerperium (146)	11	0.2	9	0.2	1	0.3	1	0.6
Infection during childbirth and the puerperium (147)	4	0.1	3	0.1	1	0.3	-	-
Puerperal toxemias (148)	13	0.3	8	0.2	4	1.1	1	0.6
Other causes (145b, 149-150)	12	0.2	7	0.2	4	1.1	1	0.6

* Number per 1,000 live births.

Infant and Neonatal Deaths

Infant Deaths

Five more infant deaths occurred in 1948 than in 1947 for a total of 1,721 infant deaths. Infant deaths occurred in the total population at the rate of 34.1 per every 1,000 live births. The rate was unevenly distributed throughout the races. The Indian race had the highest rate with 64.5, followed closely by the Negro rate of 58.0. These combined to be almost twice that of the White race which was 31.1.

Table 14

Deaths Under One Year by Cause, by Race, Number and Rate*, Oklahoma, 1948

Cause of Death	Total		White		Negro		Indian	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Total, all causes (1-200)	1721	34.1	1400	31.1	211	58.0	110	64.5
Infectious and parasitic diseases (1-44)	101	2.0	56	1.2	22	6.0	23	13.5
Diseases of the respiratory system (107-114)	192	3.8	123	2.7	48	13.2	21	12.3
Diseases of the digestive system (115-129)	108	2.1	77	1.7	13	3.6	18	10.6
Congenital malformations (157)	220	4.4	202	4.5	13	3.6	5	2.9
Congenital debility (158)	32	0.6	27	0.6	4	1.1	1	0.6
Premature birth (159)	625	12.4	547	12.1	60	16.5	18	10.6
Injury at birth (160)	148	2.9	127	2.8	16	4.4	5	2.9
Other diseases peculiar to first year of life (161)	137	2.7	116	2.6	13	3.6	8	4.7
Accidents (169-195)	48	1.0	39	0.9	8	2.2	1	0.6
All other defined causes	64	1.3	58	1.3	3	0.8	3	1.8
Ill defined and unknown (199-200)	46	0.9	28	0.6	11	3.0	7	4.1

* The number includes those under one month shown in Table 14. Rates represent number per 1,000 live births.

Neonatal Deaths

A decrease of six deaths of infants under one month of age from 1947 gave a total of 1,184 neonatal deaths. Because of the decrease in the total number of births for the State, however, an increase in the rate

per 1,000 live births was found; neonatal deaths occurred at the rate of 23.5 per every 1,000 live births. As with infant deaths, the rates were unequal for the various races. The rate in the Negro race was greatest, 33.3, followed by the Indian, 24.0; a White rate of 22.7 neonatal deaths per 1,000 live births was noted.

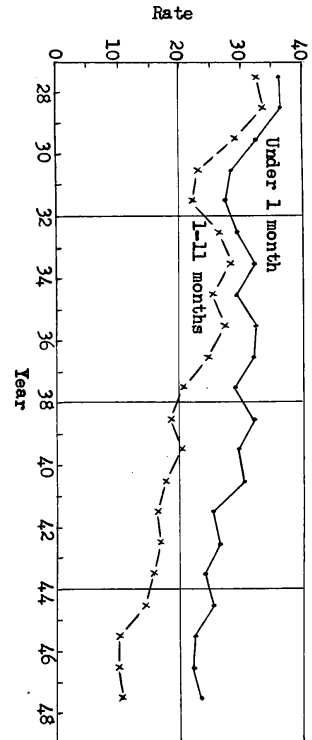
Table 15
Deaths Under One Month by Cause, by Race, Number and Rate*, Oklahoma, 1948

Cause of Death	Total		White		Negro		Indian	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Total, all causes (1-200).....	1184	23.5	1022	22.7	121	33.3	41	24.0
Infectious and parasitic diseases (1-4).....	18	0.4	8	0.2	5	1.4	5	2.9
Diseases of the respiratory system (104-114).....	47	0.9	33	0.7	14	3.8	-	-
Diseases of the digestive system (115-129).....	16	0.3	13	0.3	2	0.5	1	0.6
Congenital malformations (157).....	147	2.9	134	3.0	10	2.7	3	1.8
Congenital debility (158).....	15	0.3	15	0.3	-	-	3	-
Premature birth (159).....	605	12.0	538	11.9	52	14.3	15	8.8
Injury at birth (160).....	145	2.9	124	2.8	16	4.4	5	2.9
Other diseases peculiar to first year of life (161).....	130	2.6	113	2.5	11	3.0	6	3.5
Accidents (169-195).....	13	0.3	9	0.2	3	0.8	1	0.6
All other defined causes.....	22	0.4	20	0.4	-	-	2	1.2
All defined and unknown (199-200)	26	0.5	15	0.3	8	2.2	3	1.8

* Number per 1,000 live births.

It has been a matter of some concern that the neonatal death rate has not fallen at the same rate as that for infants over one month of age. The rates quoted above and shown in tables 14 and 15 do not show a complete picture of infant deaths. Infant deaths include all of the deaths under 12 months; this includes all neonatal deaths (those under 1 month). Using the deaths from 1 month to 12 months, then, and comparing these with neonatal deaths, the inequality of fall in this downward trend has been revealed in Chart 5.

Chart 5
Death Rates for Infants Under One Month and from One Through Eleven Months of Age Oklahoma, 1928 - 1948



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 V. RESIDENT BIRTHS, DEATHS, AND DEATHS BY APPOINTEE CAUSES, NUMBERS AND RATE BY COUNTY, AND NUMBER BY COUNTY AND RACE, OKLAHOMA, 1948

Estimated population, July 1, 1948	HEAVENER			BERNARD			BLAINE				
	Total	No.	Rate	Total	No.	Rate	Total	No.	Rate		
	No.	No.	No.	No.	No.	No.	No.	No.	No.		
Live Births*	176	20.7	176	107	21.1	397	388	21.9	310	31	47
Physician in home	16	1.8	16	10	2.1	381	316	17.9	262	12	18
Physician in hospital	14	1.6	14	7	1.5	10	58	3.3	47	8	12
Midwife, other, or unknown	1	0.1	1	1	0.2	1	14	0.8	1	1	1
Stillbirths	7	0.8	7	7	1.5	7	30.9	1.7	3	1	1
Physician in hospital	7	0.8	7	7	1.5	7	6	0.3	3	1	1
Midwife, other, or unknown	0	0	0	0	0	0	5	0.3	0	0	0
Deaths under 1 year	53	6.2	53	184	42.5	180	145	8.2	124	13	11
Deaths under 1 month	2	0.2	2	20	4.5	17	8	0.4	7	1	1
Typhoid, paratyphoid fevers (1,2)	2	0.2	2	20	4.5	17	20	1.1	7	1	1
Unlabeled fever (5)	0	0	0	0	0	0	20.6	1.1	0	0	0
Meningococcus meningitis (6)	0	0	0	0	0	0	0	0	0	0	0
Saracate fever (8)	0	0	0	0	0	0	0	0	0	0	0
Diphtheria (9)	0	0	0	0	0	0	5.6	0.3	1	1	1
Scarlet fever (10)	0	0	0	0	0	0	11.3	0.6	1	1	1
Measles (11)	0	0	0	0	0	0	11.3	0.6	1	1	1
Whooping cough (9)	0	0	0	0	0	0	5.6	0.3	1	1	1
Relapsing fever (12)	0	0	0	0	0	0	11.3	0.6	1	1	1
Relapsing fever (13)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (13-22)	0	0	0	0	0	0	5.6	0.3	1	1	1
Neuroleptos all forms (13)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (14)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (15)	0	0	0	0	0	0	5.6	0.3	1	1	1
Neuroleptos all forms (16)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (17)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (18)	0	0	0	0	0	0	5.6	0.3	1	1	1
Neuroleptos all forms (19)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (20)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (21)	0	0	0	0	0	0	5.6	0.3	1	1	1
Neuroleptos all forms (22)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (23)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (24)	0	0	0	0	0	0	5.6	0.3	1	1	1
Neuroleptos all forms (25)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (26)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (27)	0	0	0	0	0	0	5.6	0.3	1	1	1
Neuroleptos all forms (28)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (29)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (30)	0	0	0	0	0	0	5.6	0.3	1	1	1
Neuroleptos all forms (31)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (32)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (33)	0	0	0	0	0	0	5.6	0.3	1	1	1
Neuroleptos all forms (34)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (35)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (36)	0	0	0	0	0	0	5.6	0.3	1	1	1
Neuroleptos all forms (37)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (38)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (39)	0	0	0	0	0	0	5.6	0.3	1	1	1
Neuroleptos all forms (40)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (41)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (42)	0	0	0	0	0	0	5.6	0.3	1	1	1
Neuroleptos all forms (43)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (44)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (45)	0	0	0	0	0	0	5.6	0.3	1	1	1
Neuroleptos all forms (46)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (47)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (48)	0	0	0	0	0	0	5.6	0.3	1	1	1
Neuroleptos all forms (49)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (50)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (51)	0	0	0	0	0	0	5.6	0.3	1	1	1
Neuroleptos all forms (52)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (53)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (54)	0	0	0	0	0	0	5.6	0.3	1	1	1
Neuroleptos all forms (55)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (56)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (57)	0	0	0	0	0	0	5.6	0.3	1	1	1
Neuroleptos all forms (58)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (59)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (60)	0	0	0	0	0	0	5.6	0.3	1	1	1
Neuroleptos all forms (61)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (62)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (63)	0	0	0	0	0	0	5.6	0.3	1	1	1
Neuroleptos all forms (64)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (65)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (66)	0	0	0	0	0	0	5.6	0.3	1	1	1
Neuroleptos all forms (67)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (68)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (69)	0	0	0	0	0	0	5.6	0.3	1	1	1
Neuroleptos all forms (70)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (71)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (72)	0	0	0	0	0	0	5.6	0.3	1	1	1
Neuroleptos all forms (73)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (74)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (75)	0	0	0	0	0	0	5.6	0.3	1	1	1
Neuroleptos all forms (76)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (77)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (78)	0	0	0	0	0	0	5.6	0.3	1	1	1
Neuroleptos all forms (79)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (80)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (81)	0	0	0	0	0	0	5.6	0.3	1	1	1
Neuroleptos all forms (82)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (83)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (84)	0	0	0	0	0	0	5.6	0.3	1	1	1
Neuroleptos all forms (85)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (86)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (87)	0	0	0	0	0	0	5.6	0.3	1	1	1
Neuroleptos all forms (88)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (89)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (90)	0	0	0	0	0	0	5.6	0.3	1	1	1
Neuroleptos all forms (91)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (92)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (93)	0	0	0	0	0	0	5.6	0.3	1	1	1
Neuroleptos all forms (94)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (95)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (96)	0	0	0	0	0	0	5.6	0.3	1	1	1
Neuroleptos all forms (97)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (98)	0	0	0	0	0	0	11.3	0.6	1	1	1
Neuroleptos all forms (99)	0	0	0	0	0	0	5.6	0.3	1	1	1
Neuroleptos all forms (100)	0	0	0	0	0	0	11.3	0.6	1	1	1

See notes on Table I

TABLE V. RESIDENT BIRTHS, DEATHS, AND DEATHS BY APPOINTEE CAUSES, NUMBERS AND RATE BY COUNTY, AND NUMBER BY COUNTY AND RACE, OKLAHOMA, 1948

Estimated population, July 1, 1948	BRYAN			CADDO			CANDIEN					
	Total	No.	Rate	Total	No.	Rate	Total	No.	Rate			
	No.	No.	No.	No.	No.	No.	No.	No.	No.			
Live Births*	763	23.0	732	13	919	23.4	764	33	125	492	17.1	458
Physician in home	497	15.7	486	6	633	16.2	520	3	111	436	16.1	415
Physician in hospital	299	9.6	289	4	369	9.4	288	2	99	385	14.5	412
Midwife, other, or unknown	13	0.4	13	1	17	0.4	13	0				

TABLE V. RESIDENT BIRNDS, DEATHS, AND DEATHS BY IMPORTANT CAUSES, NUMBERS AND RATE BY COUNTY, AND NUMBER BY COUNTY AND RACE, OKLAHOMA, 1948

Estimated population, July 1, 1948	OCCASIONS			COTTON			CATTLE		
	No.	Rate	Rate	No.	Rate	Rate	No.	Rate	Rate
Live Birches*	1,208	22.3	1,034	93	81	112	10	8	314
Physician in hospital	1,031	191	917	35	81	132	2	7	260
Physician in home	149	110	39	7	78	48	7	3	92
Madriety, other, or unknown	26	16	19	4	2	12.2	1	6	19.1
Stillbirths	24	15.9	16	4	1	1	1	6	3
Physician in hospital	5	2	2	1	3	2	1	2	2
Physician in home	350	294	33	23	83	7.0	1	3	151
Madriety, other, or unknown	149	110	39	7	78	48	7	3	92
Total deaths, all causes*	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 1 month	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 1 year	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 2 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 5 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 10 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 15 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 20 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 25 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 30 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 35 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 40 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 45 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 50 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 55 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 60 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 65 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 70 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 75 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 80 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 85 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 90 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 95 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 100 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 105 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 110 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 115 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 120 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 125 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 130 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 135 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 140 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 145 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 150 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 155 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 160 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 165 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 170 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 175 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 180 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 185 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 190 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 195 years	39	34.3	30	6	4.7	1	1	12	54.2
Deaths under 200 years	39	34.3	30	6	4.7	1	1	12	54.2
Ill defined and unknown (139, 200)	7	12.9	4	1	7	93.3	6	2	10.4

See notes on Table I

TABLE V. RESIDENT BIRNDS, DEATHS, AND DEATHS BY IMPORTANT CAUSES, NUMBERS AND RATE BY COUNTY, AND NUMBER BY COUNTY AND RACE, OKLAHOMA, 1948

Estimated population, July 1, 1948	CHICK			CISLER			DELAWARE		
	No.	Rate	Rate	No.	Rate	Rate	No.	Rate	Rate
Live Birches*	47,071	22.7	1,034	106	39	524	22.9	474	17
Physician in hospital	774	639	22	33	524	498	450	17	
Physician in home	67	11	53	3	26	24	24	2	
Madriety, other, or unknown	28	28.6	23	3	8	15.3	8	8	
Stillbirths	21	18	1	2	7	7	7	1	
Physician in hospital	2	1	1	1	1	1	1	1	
Physician in home	449	423	34	12	206	9.0	196	2	
Madriety, other, or unknown	11.1	40.4	27	7	18	34.4	17	4	
Total deaths, all causes*	59	29.7	2	2	18	34.4	17	6	
Deaths under 1 month	59	29.7	2	2	18	34.4	17	6	
Deaths under 1 year	59	29.7	2	2	18	34.4	17	6	
Deaths under 2 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 5 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 10 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 15 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 20 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 25 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 30 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 35 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 40 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 45 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 50 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 55 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 60 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 65 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 70 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 75 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 80 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 85 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 90 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 95 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 100 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 105 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 110 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 115 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 120 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 125 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 130 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 135 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 140 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 145 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 150 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 155 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 160 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 165 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 170 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 175 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 180 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 185 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 190 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 195 years	59	29.7	2	2	18	34.4	17	6	
Deaths under 200 years	59	29.7	2	2	18	34.4	17	6	
Ill defined and unknown (139, 200)	4	11.6	4	1	2	8.7	1	1	

TABLE V. RESIDENT BURNS, DEATHS, AND DEATHS BY WOUNDING CAUSES, NUMBER AND RATE BY COUNTY, AND NUMBER BY COUNTY AND RACE, OLANHAWA, 1948

Estimated population, July 1, 1948	JERSEYSON			JONKSTON			KAT		
	Total No.	Wh. No.	Rate	Total No.	Wh. No.	Rate	Total No.	Wh. No.	Rate
Live births*	235	171	238	6	1	216	13	1,158	22.9
Physician in home	171	169	48	5	1	130	1106	1,040	21.45
Midwife, other, or unknown	53	48	100	1	3	113	60	95	3.2
Stillbirths	3	2	22.2	2	2	8.1	2	18.8	1.9
Physician in home	1	1	1	1	1	1	21	19	2
Midwife, other, or unknown	1	1	1	1	1	1	1	1	1
Deaths under 1 year	89	68	88	2	6	88	478	440	22
Deaths under 1 month	4	3	13.3	2	2	4	41.2	27	2
Phyoid, paratyphoid fevers (1,2)	1	1	1	1	1	16.3	29	24.8	1
Montipococcus meningitis (6)	1	1	1	1	1	8.5	1	2.0	1
Scarlet fever (9)	1	1	1	1	1	8.5	1	1	1
Whooping cough (9)	1	1	1	1	1	8.5	1	1	1
Measles (12)	1	1	1	1	1	8.5	1	1	1
Diphtheria (10)	1	1	1	1	1	8.5	1	1	1
Tetanus (12)	1	1	1	1	1	8.5	1	1	1
Respiratory system (13)	1	1	1	1	1	8.5	1	1	1
Pharyngitis (27)	1	1	1	1	1	8.5	1	1	1
Scarlet fever (9)	1	1	1	1	1	8.5	1	1	1
Whooping cough (9)	1	1	1	1	1	8.5	1	1	1
Measles (12)	1	1	1	1	1	8.5	1	1	1
Diphtheria (10)	1	1	1	1	1	8.5	1	1	1
Tetanus (12)	1	1	1	1	1	8.5	1	1	1
Respiratory system (13)	1	1	1	1	1	8.5	1	1	1
Pharyngitis (27)	1	1	1	1	1	8.5	1	1	1
Scarlet fever (9)	1	1	1	1	1	8.5	1	1	1
Whooping cough (9)	1	1	1	1	1	8.5	1	1	1
Measles (12)	1	1	1	1	1	8.5	1	1	1
Diphtheria (10)	1	1	1	1	1	8.5	1	1	1
Tetanus (12)	1	1	1	1	1	8.5	1	1	1
Respiratory system (13)	1	1	1	1	1	8.5	1	1	1
Pharyngitis (27)	1	1	1	1	1	8.5	1	1	1
Scarlet fever (9)	1	1	1	1	1	8.5	1	1	1
Whooping cough (9)	1	1	1	1	1	8.5	1	1	1
Measles (12)	1	1	1	1	1	8.5	1	1	1
Diphtheria (10)	1	1	1	1	1	8.5	1	1	1
Tetanus (12)	1	1	1	1	1	8.5	1	1	1
Respiratory system (13)	1	1	1	1	1	8.5	1	1	1
Pharyngitis (27)	1	1	1	1	1	8.5	1	1	1
Scarlet fever (9)	1	1	1	1	1	8.5	1	1	1
Whooping cough (9)	1	1	1	1	1	8.5	1	1	1
Measles (12)	1	1	1	1	1	8.5	1	1	1
Diphtheria (10)	1	1	1	1	1	8.5	1	1	1
Tetanus (12)	1	1	1	1	1	8.5	1	1	1
Respiratory system (13)	1	1	1	1	1	8.5	1	1	1
Pharyngitis (27)	1	1	1	1	1	8.5	1	1	1
Scarlet fever (9)	1	1	1	1	1	8.5	1	1	1
Whooping cough (9)	1	1	1	1	1	8.5	1	1	1
Measles (12)	1	1	1	1	1	8.5	1	1	1
Diphtheria (10)	1	1	1	1	1	8.5	1	1	1
Tetanus (12)	1	1	1	1	1	8.5	1	1	1
Respiratory system (13)	1	1	1	1	1	8.5	1	1	1
Pharyngitis (27)	1	1	1	1	1	8.5	1	1	1
Scarlet fever (9)	1	1	1	1	1	8.5	1	1	1
Whooping cough (9)	1	1	1	1	1	8.5	1	1	1
Measles (12)	1	1	1	1	1	8.5	1	1	1
Diphtheria (10)	1	1	1	1	1	8.5	1	1	1
Tetanus (12)	1	1	1	1	1	8.5	1	1	1
Respiratory system (13)	1	1	1	1	1	8.5	1	1	1
Pharyngitis (27)	1	1	1	1	1	8.5	1	1	1
Scarlet fever (9)	1	1	1	1	1	8.5	1	1	1
Whooping cough (9)	1	1	1	1	1	8.5	1	1	1
Measles (12)	1	1	1	1	1	8.5	1	1	1
Diphtheria (10)	1	1	1	1	1	8.5	1	1	1
Tetanus (12)	1	1	1	1	1	8.5	1	1	1
Respiratory system (13)	1	1	1	1	1	8.5	1	1	1
Pharyngitis (27)	1	1	1	1	1	8.5	1	1	1
Scarlet fever (9)	1	1	1	1	1	8.5	1	1	1
Whooping cough (9)	1	1	1	1	1	8.5	1	1	1
Measles (12)	1	1	1	1	1	8.5	1	1	1
Diphtheria (10)	1	1	1	1	1	8.5	1	1	1
Tetanus (12)	1	1	1	1	1	8.5	1	1	1
Respiratory system (13)	1	1	1	1	1	8.5	1	1	1
Pharyngitis (27)	1	1	1	1	1	8.5	1	1	1
Scarlet fever (9)	1	1	1	1	1	8.5	1	1	1
Whooping cough (9)	1	1	1	1	1	8.5	1	1	1
Measles (12)	1	1	1	1	1	8.5	1	1	1
Diphtheria (10)	1	1	1	1	1	8.5	1	1	1
Tetanus (12)	1	1	1	1	1	8.5	1	1	1
Respiratory system (13)	1	1	1	1	1	8.5	1	1	1
Pharyngitis (27)	1	1	1	1	1	8.5	1	1	1
Scarlet fever (9)	1	1	1	1	1	8.5	1	1	1
Whooping cough (9)	1	1	1	1	1	8.5	1	1	1
Measles (12)	1	1	1	1	1	8.5	1	1	1
Diphtheria (10)	1	1	1	1	1	8.5	1	1	1
Tetanus (12)	1	1	1	1	1	8.5	1	1	1
Respiratory system (13)	1	1	1	1	1	8.5	1	1	1
Pharyngitis (27)	1	1	1	1	1	8.5	1	1	1
Scarlet fever (9)	1	1	1	1	1	8.5	1	1	1
Whooping cough (9)	1	1	1	1	1	8.5	1	1	1
Measles (12)	1	1	1	1	1	8.5	1	1	1
Diphtheria (10)	1	1	1	1	1	8.5	1	1	1
Tetanus (12)	1	1	1	1	1	8.5	1	1	1
Respiratory system (13)	1	1	1	1	1	8.5	1	1	1
Pharyngitis (27)	1	1	1	1	1	8.5	1	1	1
Scarlet fever (9)	1	1	1	1	1	8.5	1	1	1
Whooping cough (9)	1	1	1	1	1	8.5	1	1	1
Measles (12)	1	1	1	1	1	8.5	1	1	1
Diphtheria (10)	1	1	1	1	1	8.5	1	1	1
Tetanus (12)	1	1	1	1	1	8.5	1	1	1
Respiratory system (13)	1	1	1	1	1	8.5	1	1	1
Pharyngitis (27)	1	1	1	1	1	8.5	1	1	1
Scarlet fever (9)	1	1	1	1	1	8.5	1	1	1
Whooping cough (9)	1	1	1	1	1	8.5	1	1	1
Measles (12)	1	1	1	1	1	8.5	1	1	1
Diphtheria (10)	1	1	1	1	1	8.5	1	1	1
Tetanus (12)	1	1	1	1	1	8.5	1	1	1
Respiratory system (13)	1	1	1	1	1	8.5	1	1	1
Pharyngitis (27)	1	1	1	1	1	8.5	1	1	1
Scarlet fever (9)	1	1	1	1	1	8.5	1	1	1
Whooping cough (9)	1	1	1	1	1	8.5	1	1	1
Measles (12)	1	1	1	1	1	8.5	1	1	1
Diphtheria (10)	1	1	1	1	1	8.5	1	1	1
Tetanus (12)	1	1	1	1	1	8.5	1	1	1
Respiratory system (13)	1	1	1	1	1	8.5	1	1	1
Pharyngitis (27)	1	1	1	1	1	8.5	1	1	1
Scarlet fever (9)	1	1	1	1	1	8.5	1	1	1
Whooping cough (9)	1	1	1	1	1	8.5	1	1	1
Measles (12)	1	1	1	1	1	8.5	1	1	1
Diphtheria (10)	1	1	1	1	1	8.5	1	1	1
Tetanus (12)	1	1	1	1	1	8.5	1	1	1
Respiratory system (13)	1	1	1	1	1	8.5	1	1	1
Pharyngitis (27)	1	1	1	1	1	8.5	1	1	1
Scarlet fever (9)	1	1	1	1	1	8.5	1	1	1
Whooping cough (9)	1	1	1	1	1	8.5	1	1	1
Measles (12)	1	1	1	1	1	8.5	1	1	1
Diphtheria (10)	1	1	1	1	1	8.5	1	1	1
Tetanus (12)	1	1	1	1	1	8.5	1	1	1
Respiratory system (13)	1	1	1	1	1	8.5	1	1	1
Pharyngitis (27)	1	1	1	1	1	8.5	1	1	1
Scarlet fever (9)	1	1	1	1	1	8.5	1	1	1
Whooping cough (9)	1	1	1	1	1	8.5	1	1	1
Measles (12)	1	1	1	1	1	8.5	1	1	1
Diphtheria (10)	1	1	1	1	1	8.5	1	1	1
Tetanus (12)	1	1	1	1	1	8.5	1	1	1
Respiratory system (13)	1	1	1	1	1	8.5	1	1	1
Pharyngitis (27)	1	1	1	1	1	8.5	1	1	1
Scarlet fever (9)	1	1	1	1	1	8.5	1	1	1
Whooping cough (9)	1	1	1	1	1	8.5	1	1	1
Measles (12)	1	1	1	1	1	8.5	1	1	1
Diphtheria (10)	1	1	1	1	1	8.5	1	1	1
Tetanus (12)	1	1	1	1	1	8.5	1	1	1
Respiratory system (13)	1	1	1	1	1	8.5	1	1	1
Pharyngitis (27)	1	1	1	1	1	8.5	1	1	1
Scarlet fever (9)	1	1	1	1	1	8.5</			

TABLE V. RESIDENCY BIRTHS, DEATHS, AND DEATHS BY REPORTING CAUSE, NUMBER AND RATE BY COUNTY, AND NUMBER BY COUNTY AND RACE, OKLAHOMA, 1948

Estimated population, July 1, 1948	LAFLORE						LINCOLN						LOGAN						
	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*	42,246	18.5	728	33	22	447	18.8	406	40	1	457	17.8	342	11.5	297	12.4	27	1.1	
Physician in hospital	310	...	290	2	18	313	...	303	27	1	304	...	294	4.8	27	...	2	...	
Physician in home	272	...	252	2	14	277	...	268	6	1	269	...	259	3	1	...	1	...	
Physician in home, other or unknown	27	...	11	1	2	7	...	8	7	1	8	...	7	3	1	...	1	...	
Stillbirths	12	...	11	1	2	17	...	15	7	1	17	...	15	3	1	...	1	...	
Physician in hospital	7	...	6	1	1	4	...	4	4	1	4	...	3	3	1	...	1	...	
Physician in home	4	...	3	1	1	1	...	1	1	1	...	1	1	1	...	1	...	1	...
Physician in home, other or unknown	1	...	1	1	1	1	...	1	1	1	...	1	1	1	...	1	...	1	...
Deaths under 1 year	292	...	271	14	7	297	...	281	23	3	269	...	246	74	7	...	7	...	
Deaths under 1 year, other or unknown	18	...	17	2	1	13	...	11	8	2	10	...	6	6	3	...	3	...	
Typhoid, paratyphoid fever (1,2)	23	...	22	1	1	17	...	18	1	1	17	...	11	6	6	...	6	...	
Scarlet fever (6)	1	...	1	1	1	1	...	1	1	1	...	1	1	1	...	1	...	1	...
Diphtheria (10)	1	...	1	1	1	1	...	1	1	1	...	1	1	1	...	1	...	1	...
Whooping cough (9)	1	...	1	1	1	1	...	1	1	1	...	1	1	1	...	1	...	1	...
Measles (26)	1	...	1	1	1	1	...	1	1	1	...	1	1	1	...	1	...	1	...
Rubella (2)	1	...	1	1	1	1	...	1	1	1	...	1	1	1	...	1	...	1	...
Thrombocytopenic purpura (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13)	21	...	20	1	1	33	...	27	5	1	...	27	5	5	...	5	...	5	...
Neuroleptosy system (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...	3	...	3	...
Neuroleptosy system (13-22)	19	...	18	1	1	8	...	5	3	2	...	4	3	3	...				

TABLE V. RESIDENT BIRTHS, DEATHS, AND DEATHS BY IMPORTANT CAUSES, NUMBER AND RATE BY COUNTY, AND NUMBER BY COUNTY AND RACE, OKLAHOMA, 1948

Estimated population, July 1, 1948	BAYNESBORO			MAYON			MAYHURST					
	No.	Rate	No.	No.	Rate	No.	No.	Rate	No.	Rate	No.	No.
Live Births*	524	22.7	331	43	213	18.1	212	191	20.7	172	6	15
Physician in home	145	189	189	7	18	18.6	184	144	20.7	132	2	10
Physician in hospital	145	189	189	7	18	18.6	184	144	20.7	132	2	10
Midwife, other, or unknown	145	189	189	7	18	18.6	184	144	20.7	132	2	10
Stillbirths	5	10.9	5	1	20	5.1	27	4.4	3.9	1	4	
Physician in home	5	10.9	5	1	20	5.1	27	4.4	3.9	1	4	
Physician in hospital	5	10.9	5	1	20	5.1	27	4.4	3.9	1	4	
Midwife, other, or unknown	5	10.9	5	1	20	5.1	27	4.4	3.9	1	4	
Total deaths, all causes	165	8.2	98	46	21	9.1	91	7.7	6.9	1	2	
Death under 1 year	77	15.1	45	2	2	9.4	2	9.4	6	1	2	
Death under 1 month	15	3.0	8	2	2	9.4	2	9.4	6	1	2	
Infant mortality rate	15	3.0	8	2	2	9.4	2	9.4	6	1	2	
Scarlet fever (9)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Measles (35)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Acute poliomyelitis and acute paralytic poliomyelitis (37)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Acute infectious encephalitis (37)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Rocky Mountain spotted fever (39)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Other infectious and parasitic diseases (34, 41, 23-25, 26, 28, 29)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Other infectious and parasitic diseases (42-55)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Other tumors (56-57)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Acute rheumatic fever (58)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Diphtheria (59)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Other diseases of nutrition, endocrine glands, and endocrinoses (60, 62-68, 70-71)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Disease of the blood and blood-forming organs (72-76)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Chronic poisoning and intoxication (77-79)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Obstetric hemorrhage (80)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Other diseases of the circulatory system (81-83)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Other diseases of the circulatory system (84-88)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Disease of the heart (89-95)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Disease of the arteries (96-99)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Other diseases of the circulatory system (100-103)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Pneumonia, all forms (104-109)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Other diseases of the respiratory system (110-115)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Diphtheria, pertussis, and tetanus (116-118)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Diphtheria, pertussis, and tetanus (119-120)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Appendicitis (121)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Hernia, intestinal obstruction (122)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Other diseases of the lower (123)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Other diseases of the digestive system (124-129)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Other diseases of the genitourinary system (130-133)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Disease of pregnancy, childbirth, and the puerperium (134-136)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Septicemia (137, 145, 147)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Conjunctivitis (148-149)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Scalds and burns (150)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Sunburn (151)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Other accidents (152-156)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Other accidents (157-159)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
Other defined causes (59, 151-156, 157-159)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	
III defined and unknown (159, 200)	2	9.9	2	2	9.9	2	2	9.9	2	2	2	

See notes on Table I

TABLE V. RESIDENT BIRTHS, DEATHS, AND DEATHS BY IMPORTANT CAUSES, NUMBER AND RATE BY COUNTY, AND NUMBER BY COUNTY AND RACE, OKLAHOMA, 1948

Estimated population, July 1, 1948	MAYES			MURKIN			MURKOCREEK								
	No.	Rate	No.	No.	Rate	No.	No.	Rate	No.	Rate	No.	No.	Rate		
Live Births*	22,292	16.5	309	4	57	202	18.9	230	6	3	1501	22.1	1482	281	38
Physician in home	284	284	284	4	57	202	18.9	197	2	2	1116	10.2	56	36	2
Physician in hospital	284	284	284	4	57	202	18.9	197	2	2	1116	10.2	56	36	2
Midwife, other, or unknown	284	284	284	4	57	202	18.9	197	2	2	1116	10.2	56	36	2
Stillbirths	8	21.6	5	2	2	35	32	3	1	254	14.7	105	2	2	
Physician in home	8	21.6	5	2	2	35	32	3	1	254	14.7	105	2	2	
Physician in hospital	8	21.6	5	2	2	35	32	3	1	254	14.7	105	2	2	
Midwife, other, or unknown	8	21.6	5	2	2	35	32	3	1	254	14.7	105	2	2	
Total deaths, all causes	7	18.9	1	1	18	122	9.7	111	6	3	692	16.1	458	208	11
Death under 1 year	10	29.3	6	6	2	6	25.1	5	1	29	44.6	36	12	12	
Death under 1 month	7	18.9	1	1	1	6	25.1	5	1	48	32.0	12	12		
Infant mortality rate	7	18.9	1	1	1	6	25.1	5	1	48	32.0	12	12		
Scarlet fever (9)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Measles (35)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Acute poliomyelitis and acute paralytic poliomyelitis (37)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Acute infectious encephalitis (37)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Rocky Mountain spotted fever (39)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Other infectious and parasitic diseases (34, 41, 23-25, 26, 28, 29)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Other infectious and parasitic diseases (42-55)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Other tumors (56-57)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Acute rheumatic fever (58)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Diphtheria (59)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Other diseases of nutrition, endocrine glands, and endocrinoses (60, 62-68, 70-71)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Disease of the blood and blood-forming organs (72-76)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Chronic poisoning and intoxication (77-79)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Obstetric hemorrhage (80)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Other diseases of the circulatory system (81-83)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Other diseases of the circulatory system (84-88)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Disease of the heart (89-95)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Disease of the arteries (96-99)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Other diseases of the circulatory system (100-103)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Pneumonia, all forms (104-109)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Other diseases of the respiratory system (110-115)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Diphtheria, pertussis, and tetanus (116-118)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Diphtheria, pertussis, and tetanus (119-120)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Appendicitis (121)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Hernia, intestinal obstruction (122)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Other diseases of the lower (123)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Other diseases of the digestive system (124-129)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Other diseases of the genitourinary system (130-133)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Disease of pregnancy, childbirth, and the puerperium (134-136)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Septicemia (137, 145, 147)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Conjunctivitis (148-149)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Scalds and burns (150)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Sunburn (151)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Other accidents (152-156)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Other accidents (157-159)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
Other defined causes (59, 151-156, 157-159)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		
III defined and unknown (159, 200)	2	4.5	2	2	4.5	2	4.5	2	2	4.5	2	2	2		

TABLE V. RESIDENT BIRTHS, DEATHS, AND DEATHS BY IMPORTANT CAUSES, NUMBER AND RATE BY COUNTY, AND NUMBER BY COUNTY AND RACE, OKLAHOMA, 1948

Estimated population, July 1, 1948	INDIA						KENTUCKY						OHIO					
	Total		Race		Total		Race		Total		Race		Total		Race			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate		
Life births*	248	184.1	225	11	12	299	18.6	236	22	1	431	21.1	290	89	52	29		
Physicians in hospital	162	129	149	9	11	172	10.6	169	12	1	251	15.6	168	42	6	4		
Physicians in home	86	66.7	96	6	7	84	5.2	82	6	1	31	1.9	5	21	1	1		
Midwife, other, or unknown	4	3.1	1	0.8	1	7	4.4	5	0.4	7	4.4	4	1	2	2	1		
Stillbirths in hospital	2	1.5	1	0.8	1	27.0	16.2	2	1.5	4	2.5	4	1	2	1	1		
Physicians in home	2	1.5	1	0.8	1	3	1.9	2	1.5	4	2.5	4	1	2	1	1		
Midwife, other, or unknown	100	77.5	95	6	2	145	10.4	123	19	3	195	11.8	98	19	3	2		
Total deaths, all causes*	5	20.2	4	1.6	1	42	26.3	39	2.4	15	9.5	11	2	2	1	1		
Deaths under 1 month†	2	8.1	1	0.8	1	9	5.7	9	0.7	15	9.5	11	2	2	1	1		
Pythoid, paratyphoid fever (1,2)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Unlabeled fever (9)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Scarlet fever (6)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Measles (8)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Whooping cough (9)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Diphtheria (10)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Tetanus (12)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Respiratory system (13-22)	5	36.5	3	2.3	1	2	1.4	1	0.7	12	7.5	2	7	2	1	1		
Pharyngitis, all forms (13-22)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Pharyngitis (27)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Dysentery (28)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Diarrhea (29)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Malaria (30)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Influenza (31)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Smallpox (32)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Measles (33)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Acute poliomyelitis (36)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Acute infectious encephalitis (37)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Acute infectious meningitis (38)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Body hemorrhagic fever (39)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Other infectious diseases (40-48)	3	21.9	3	2.3	1	1	0.6	1	0.7	1	0.6	1	1	1	1	1		
Other tumors (49-57)	10	7.9	10	7.9	1	17	10.7	15	1.1	31	19.4	22	8	2	1	1		
Other causes (58-59)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Diseases of the blood and blood-forming organs (72-85)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Chronic poisoning and intoxication (77-79)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Overexertion, exhaustion, embolism, thrombosis, poisoning (83)	11	80.4	11	80.4	1	17	10.7	12	0.9	17	10.7	8	9	2	1	1		
Other diseases of nervous system (86-98)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Diseases of the heart (90-95)	32	253.8	30	233.8	2	28	17.8	25	1.9	36	22.5	27	6	3	2	1		
Diseases of the arteries (94-99)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Other diseases of the circulatory system (100-105)	5	36.5	4	31.6	1	7	4.4	1	0.7	7	4.4	1	3	3	3	3		
Other diseases of the respiratory system (106-110)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Diphtheria (106)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Scarlet fever (107)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Measles (108)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Whooping cough (109)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Diphtheria (110)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Diarrhea (111)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Other diseases of the digestive system (112-129)	2	14.5	2	14.5	1	1	0.6	1	0.7	1	0.6	1	1	1	1	1		
Other diseases of the respiratory system (130-132)	5	36.5	5	36.5	2	13	8.2	13	1.0	14	8.9	3	3	1	1	1		
Other diseases of the genitourinary system (133-139)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Diphtheria (133)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Scarlet fever (134)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Measles (135)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Whooping cough (136)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Diphtheria (137)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Diarrhea (138)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Other diseases of the digestive system (139)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Other diseases of the genitourinary system (140-150)	3	21.9	3	21.9	1	9	5.7	9	0.7	12	7.5	2	2	1	1	1		
Diphtheria (140)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Scarlet fever (141)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Measles (142)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Whooping cough (143)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Diphtheria (144)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Diarrhea (145)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Other diseases of the digestive system (146-150)	1	7.3	1	7.3	1	1	0.6	1	0.7	1	0.6	1	1	1	1	1		
Other diseases of the respiratory system (151-159)	6	47.8	6	47.8	2	10	6.3	8	0.6	8	5.0	3	3	1	1	1		
Other diseases of the genitourinary system (160-169)	2	14.5	2	14.5	1	1	0.6	1	0.7	1	0.6	1	1	1	1	1		
Diphtheria (160)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Scarlet fever (161)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Measles (162)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Whooping cough (163)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Diphtheria (164)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Diarrhea (165)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Other diseases of the digestive system (166-170)	6	47.8	6	47.8	2	10	6.3	8	0.6	8	5.0	3	3	1	1	1		
Other diseases of the respiratory system (171-179)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Other diseases of the genitourinary system (180-189)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Diphtheria (180)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Scarlet fever (181)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Measles (182)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Whooping cough (183)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Diphtheria (184)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Diarrhea (185)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Other diseases of the digestive system (186-190)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Other diseases of the respiratory system (191-199)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Other diseases of the genitourinary system (200)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		

See notes on Table I

TABLE V. RESIDENT BIRTHS, DEATHS, AND DEATHS BY IMPORTANT CAUSES, NUMBER AND RATE BY COUNTY, AND NUMBER BY COUNTY AND RACE, OKLAHOMA, 1948

Estimated population, July 1, 1948	OKLAHOMA						INDIAN TERRITORY						MISSOURI					
	Total		Race		Total		Race		Total		Race		Total		Race			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.									

TABLE V. RESIDENT BIRTHS, DEATHS, AND DEATHS BY INTERCAUSE, NUMBER AND RATE BY COUNTY, AND NUMBER BY COUNTY AND RACE, OKLAHOMA, 1948

Estimated population, July 1, 1948	OTAMA				PITTSBURG				POTWOCOS				POTWATOWNE				
	Total No.	Rate	No.	Rate	Total No.	Rate	No.	Rate	Total No.	Rate	No.	Rate	Total No.	Rate	No.	Rate	
Live Births*	846	24.7	819	24.7	901	19.9	807	18.1	744	22.9	695	27	22	999	20.5	884	35
Physician in hospital	639	18.8	621	18.2	659	14.6	569	12.5	629	17.8	584	22	15	870	18.8	827	32
Physician in home	206	5.9	198	5.7	242	5.3	238	5.2	215	4.8	211	5.5	19	4.2	67	1.5	5
Mother's, other, or unknown	11	0.3	11	0.3	17	0.4	15	0.3	12	0.3	10	0.3	2	0.05	17	0.4	1
Stillbirths	11	0.3	11	0.3	13	0.3	12	0.3	12	0.3	10	0.3	2	0.05	14	0.3	1
Physician in home	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	1	0.03	1	0.03	1
Physician in hospital	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	1	0.03	1	0.03	1
Mother's, other, or unknown	361	10.5	355	10.3	363	8.0	352	7.8	357	9.8	345	13	10	433	9.3	410	10
Total deaths, all causes	361	10.5	355	10.3	363	8.0	352	7.8	357	9.8	345	13	10	433	9.3	410	10
Deaths under 1 year	27	0.8	27	0.8	27	0.6	27	0.6	27	0.7	27	0.7	27	0.6	27	0.6	27
Deaths under 1 month	27	0.8	27	0.8	27	0.6	27	0.6	27	0.7	27	0.7	27	0.6	27	0.6	27
Typoid, paratyphoid fever (1,2)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Influenza (5)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Montigonococcus meningitidis (6)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Scarlet fever (8)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Diphtheria (9)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Tetanus (12)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Rheumatoid, all forms (13-22)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Tuberculosis (27)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Measles (28)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Dysentery (27)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Malaria (28)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Trachoma (31)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Smallpox (34)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Measles (35)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Acute poliomyelitis and encephalomyelitis (36)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Acute infectious encephalitis (37)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Roady Mountain spotted fever (38)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Rocky Mountain spotted fever (38)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Other infectious and parasitic diseases (45-55)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Other tumors (56-57)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Acute rheumatic fever (58)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Rheumatic nodules (61)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Other diseases of nutrition, endocrine glands, and vitaminous (60, 62-68, 70-71)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Diseases of the blood and blood-forming organs (72-76)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Chronic poisoning and intoxication (77-79)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Operated hemorrhage, embolism, thromboses, poisoning (81)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Other diseases of nervous system and sense organs (80-82, 84-89)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Diseases of the heart (90-92)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Diseases of the respiratory system (100-103)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Pneumonia, all forms (107-109)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Other diseases of the respiratory system (104-106, 110-111)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Diphtheria, pertussis, whooping cough, and other diseases under 2 years (119)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Appendicitis (121)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Other diseases of the digestive system (122)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Other diseases of the digestive system (125-129)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Other diseases of the genitourinary system (133-139)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Disease of pregnancy, childbirth, and the puerperium (140-149)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Operated malformations, congenital anomalies, malformations, postnatal (150-157)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Senility (162)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Senility (162)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Senility (162)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Motor vehicle accidents (170)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Other accidents (169, 171-195)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Other defined causes (99, 191-196)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Other undetermined causes (99, 191-196)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2
Ill defined and unknown (199, 200)	2	0.06	2	0.06	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2

See notes on Table I

TABLE V. RESIDENT BIRTHS, DEATHS, AND DEATHS BY INTERCAUSE, NUMBER AND RATE BY COUNTY, AND NUMBER BY COUNTY AND RACE, OKLAHOMA, 1948

Estimated population, July 1, 1948	PITTSBURG				POTWOCOS				POTWATOWNE				
	Total No.	Rate	No.	Rate	Total No.	Rate	No.	Rate	Total No.	Rate	No.	Rate	
Live Births*	901	19.9	807	18.1	744	22.9	695	27	22	999	20.5	884	35
Physician in hospital	659	14.6	569	12.5	629	17.8	584	22	15	870	18.8	827	32
Physician in home	242	5.3	238	5.2	215	4.8	211	5.5	19	4.2	67	1.5	
Mother's, other, or unknown	17	0.4	15	0.3	12	0.3	10	0.3	2	0.05	17	0.4	
Stillbirths	13	0.3	12	0.3	12	0.3	10	0.3	2	0.05	14	0.3	
Physician in hospital	2	0.05	2	0.05	2	0.05	2	0.05	1	0.03	1	0.03	
Physician in home	2	0.05	2	0.05	2	0.05	2	0.05	1	0.03	1	0.03	
Mother's, other, or unknown	357	7.9	352	7.8	357	9.8	345	13	10	433	9.3	410	10
Total deaths, all causes	357	7.9	352	7.8	357	9.8	345	13	10	433	9.3	410	10
Deaths under 1 year	27	0.6	27	0.6	27	0.7	27	0.7	27	0.6	27	0.6	
Deaths under 1 month	27	0.6	27	0.6	27	0.7	27	0.7	27	0.6	27	0.6	
Typoid, paratyphoid fever (1,2)	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	
Influenza (5)	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	
Montigonococcus meningitidis (6)	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	
Scarlet fever (8)	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	
Diphtheria (9)	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	
Tetanus (12)	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	2	0.05	
Rheumatoid, all forms (13-22)	2	0.05	2	0.05	2	0.05	2	0.05	2				

TABLE V. RESIDENT BIRTHS, DEATHS, AND DEATHS BY TEMPORAL CAUSE, NUMBER AND RATE BY COUNTY, AND NUMBER BY COUNTY AND RACE, OKLAHOMA, 1948

Estimated population, July 1, 1948	ROSEMOUNT				ROBIN HILLS				ROGERS			
	Total		Race		Total		Race		Total		Race	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Live Births*	291	21.5	269	21.5	172	18.1	143	14.9	168	17.3	145	14.5
Physician in hospital
Physician in home
Midwife, other, or unknown
Stillbirths	19	1.4	17	1.3	11	1.1	10	1.0	4	0.4	4	0.4
Physician in hospital
Physician in home
Midwife, other, or unknown
Total deaths, all causes	85	6.3	74	5.7	53	5.6	50	5.0	204	20.6	195	19.5
Deaths under 1 year	6	0.4	4	0.3	2	0.2	2	0.2	14	1.4	12	1.2
Deaths under 1 month	4	0.3	2	0.2	2	0.2	2	0.2	7	0.7	6	0.6
Infantile fever (5)
Scarlet fever (6)
Septicemic meningitis (6)
Secretory fever (8)
Diphtheria (10)
Tetanus (12)
Whooping cough (9)
Measles (35)
Polioencephalitis (56)
Acute infectious encephalitis (37)
Rocky Mountain spotted fever (39)
Other infectious and parasitic diseases (45-59)
Other tumors (54-57)
Other cancer (45-59)
Diabetes mellitus (61)
Pellagra (69)
Other diseases of nutrition, endocrine glands and endocrinosis (60, 62-68, 90-91)
Disease of the blood and blood-forming organs (72-76)
Chronic poisoning and intoxication (77-79)
Cerebral hemorrhage, embolism, thrombosis, softening (83)
Other diseases of nervous system and sense organs (80-82, 84-89)
Disease of the heart (90-99)
Disease of the arteries (96-99)
Other diseases of the circulatory system (100-103)
Pneumonia, all forms (107-109)
Other diseases of the respiratory system (104-106, 110-111)
Diphtheria keratitis under 2 years (119)
Diphtheria keratitis over 2 years (120)
Amoebiasis (121)
Hemiplegia, insubstantial obstruction (122)
Disorders of the liver (124)
Other diseases of the digestive system (112-118, 123, 125-129)
Other diseases of the genitourinary system (130-132)
Other diseases of the genitourinary system (133-139)
Disease of pregnancy, childbirth, and the puerperium (140-150)
Syphilis (140-149)
Congenital malformations, diseases peculiar to first year of life (151-261)
Senility (162)
Paralysis (163-164)
Stroke (165-168)
Motor vehicle accidents (170)
Other external causes (169, 171-195)
Other defined causes (99, 191-196, 196-198)
Ill defined and unknown (199, 200)

See notes on Table 1

TABLE V. RESIDENT BIRTHS, DEATHS, AND DEATHS BY TEMPORAL CAUSE, NUMBER AND RATE BY COUNTY, AND NUMBER BY COUNTY AND RACE, OKLAHOMA, 1948

Estimated population, July 1, 1948	SEBASTIAN				SEQUOYAH				STEPHENS			
	Total		Race		Total		Race		Total		Race	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Live Births*	882	19.6	702	19.6	727	19.6	625	19.6	659	24.4	484	24.1
Physician in hospital
Physician in home
Midwife, other, or unknown
Stillbirths	62	2.7	51	2.7	72	2.7	66	2.7	276	10.2	276	10.2
Physician in hospital
Physician in home
Midwife, other, or unknown
Total deaths, all causes	247	5.7	222	5.7	247	5.7	222	5.7	137	5.8	120	5.8
Deaths under 1 year	19	0.4	17	0.4	19	0.4	17	0.4	39	1.4	39	1.4
Deaths under 1 month	11	0.2	10	0.2	11	0.2	10	0.2	11	0.4	11	0.4
Infantile fever (5)
Scarlet fever (6)
Septicemic meningitis (6)
Secretory fever (8)
Diphtheria (10)
Tetanus (12)
Whooping cough (9)
Measles (35)
Polioencephalitis (56)
Acute infectious encephalitis (37)
Rocky Mountain spotted fever (39)
Other infectious and parasitic diseases (45-59)
Other tumors (54-57)
Other cancer (45-59)
Diabetes mellitus (61)
Pellagra (69)
Other diseases of nutrition, endocrine glands and endocrinosis (60, 62-68, 90-91)
Disease of the blood and blood-forming organs (72-76)
Chronic poisoning and intoxication (77-79)
Cerebral hemorrhage, embolism, thrombosis, softening (83)
Other diseases of nervous system and sense organs (80-82, 84-89)
Disease of the heart (90-99)
Disease of the arteries (96-99)
Other diseases of the circulatory system (100-103)
Pneumonia, all forms (107-109)
Other diseases of the respiratory system (104-106, 110-111)
Diphtheria keratitis under 2 years (119)
Diphtheria keratitis over 2 years (120)
Amoebiasis (121)
Hemiplegia, insubstantial obstruction (122)
Disorders of the liver (124)
Other diseases of the digestive system (112-118, 123, 125-129)
Other diseases of the genitourinary system (130-132)
Other diseases of the genitourinary system (133-139)
Disease of pregnancy, childbirth, and the puerperium (140-150)
Syphilis (140-149)
Congenital malformations, diseases peculiar to first year of life (151-261)
Senility (162)
Paralysis (163-164)
Stroke (165-168)
Motor vehicle accidents (170)
Other external causes (169, 171-195)
Other defined causes (99, 191-196, 196-198)
Ill defined and unknown (199, 200)

TABLE V. RESIDENT BIRTHS, DEATHS, AND DEATHS BY IMPORTANCE CAUSES, NUMBER AND RATE BY COUNTY, AND NUMBER BY COUNTY AND RACE, OKLAHOMA, 1948

Estimated population, July 1, 1948	MOORE				MORGAN			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Live births*	363	26.1	363	26.1	340	21.4	339	21.4
Physician in hospital	361	26.0	361	26.0	322	20.4	322	20.4
Physician in home	2	0.1	2	0.1	17	1.1	16	1.0
Midwife, other, or unknown	4	0.3	4	0.3	1	0.1	3	0.2
Physician in home	4	0.3	4	0.3	3	0.2	3	0.2
Midwife, other, or unknown	136	9.8	136	9.8	126	8.1	126	8.1
Physician in home	7	0.5	7	0.5	10	0.7	10	0.7
Midwife, other, or unknown	129	9.3	129	9.3	116	7.4	116	7.4
Deaths under 1 month	7	0.5	7	0.5	10	0.7	10	0.7
Infantile paratyphoid fever (1,2)	1	0.1	1	0.1	1	0.1	1	0.1
Unlabeled fever (5)	6	0.4	6	0.4	9	0.6	9	0.6
Menigeococcus meningitidis (6)	1	0.1	1	0.1	1	0.1	1	0.1
Whooping cough (9)	1	0.1	1	0.1	1	0.1	1	0.1
Diphtheria (10)	1	0.1	1	0.1	1	0.1	1	0.1
Tetanus (12)	1	0.1	1	0.1	1	0.1	1	0.1
Respiratory system (13)	2	0.1	2	0.1	3	0.2	3	0.2
Alarvearia (26a)	2	0.1	2	0.1	3	0.2	3	0.2
Spentery (27)	1	0.1	1	0.1	1	0.1	1	0.1
Bacteria (28)	1	0.1	1	0.1	1	0.1	1	0.1
Infant (30)	1	0.1	1	0.1	1	0.1	1	0.1
Infant (31)	1	0.1	1	0.1	1	0.1	1	0.1
Smallpox (32)	1	0.1	1	0.1	1	0.1	1	0.1
Measles (33)	1	0.1	1	0.1	1	0.1	1	0.1
Polioencephalitis (36)	1	0.1	1	0.1	1	0.1	1	0.1
Acute infectious encephalitis (37)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (38)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (39)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (40)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (41)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (42)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (43)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (44)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (45)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (46)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (47)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (48)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (49)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (50)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (51)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (52)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (53)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (54)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (55)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (56)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (57)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (58)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (59)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (60)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (61)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (62)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (63)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (64)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (65)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (66)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (67)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (68)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (69)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (70)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (71)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (72)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (73)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (74)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (75)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (76)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (77)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (78)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (79)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (80)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (81)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (82)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (83)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (84)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (85)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (86)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (87)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (88)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (89)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (90)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (91)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (92)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (93)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (94)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (95)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (96)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (97)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (98)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (99)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (100)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (101)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (102)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (103)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (104)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (105)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (106)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (107)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (108)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (109)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (110)	1	0.1	1	0.1	1	0.1	1	0.1
Other infectious and parasitic diseases (111)	1	0.1	1	0.1	1	0.1	1	0.1

See notes on Table I

TABLE VI. RESIDENT BIRTHS, DEATHS, AND DEATHS BY IMPORTANCE CAUSES, NUMBER AND RATE, BY RACE OKLAHOMA CITY AND TULSA, 1948

Estimated population, July 1, 1948	OKLAHOMA CITY				TULSA			
	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Live Births*	5,699	23.6	5,020	22.9	4,098	22.9	3,560	22.9
Physician in hospital	5,988	25.3	5,462	24.2	4,368	25.3	3,795	24.2
Physician in home	106	0.4	95	0.4	110	0.5	74	0.4
Midwife, other, or unknown	107	0.4	81	0.3	95	0.5	54	0.3
Physician in hospital	97	0.4	81	0.3	69	0.4	16	0.1
Midwife, other, or unknown	8	0.0	6	0.0	8	0.0	4	0.0
Physician in home	8	0.0	6	0.0	8	0.0	5	0.0
Midwife, other, or unknown	1,860	7.7	1,636	7.2	1,422	8.0	1,230	8.0
Deaths under 1 month	114	0.4	107	0.4	167	0.9	105	0.7
Infantile paratyphoid fever (1,2)	1	0.0	1	0.0	1	0.0	1	0.0
Unlabeled fever (5)	1	0.0	1	0.0	1	0.0	1	0.0
Menigeococcus meningitidis (6)	4	0.0	4	0.0	1	0.0	1	0.0
Whooping cough (9)	1	0.0	1	0.0	1	0.0	1	0.0
Diphtheria (10)	1	0.0	1	0.0	1	0.0	1	0.0
Tetanus (12)	1	0.0	1	0.0	1	0.0	1	0.0
Respiratory system (13)	55	0.2	42	0.2	44	0.2	36	0.2
Alarvearia (26a)	2	0.0	2	0.0	2	0.0	2	0.0
Spentery (27)	1	0.0	1	0.0	1	0.0	1	0.0
Bacteria (28)	1	0.0	1	0.0	1	0.0	1	0.0
Infant (30)	22	0.1	22	0.1	20	0.1	14	0.1
Infant (31)	6	0.0	6	0.0	5	0.0	5	0.0
Measles (33)	1	0.0	1	0.0	1	0.0	1	0.0
Polioencephalitis (36)	5	0.0	5	0.0	1	0.0	1	0.0
Acute infectious encephalitis (37)	1	0.0	1	0.0	1	0.0	1	0.0
Other infectious and parasitic diseases (38)	1	0.0	1	0.0	1	0.0	1	0.0
Other infectious and parasitic diseases (39)	1	0.0	1	0.0	1	0.0	1	0.0
Other infectious and parasitic diseases (40)	1	0.0	1	0.0	1	0.0	1	0.0
Other infectious and parasitic diseases (41)	1	0.0	1	0.0	1	0.0	1	0.0
Other infectious and parasitic diseases (42)	1	0.0	1	0.0	1	0.0	1	0.0
Other infectious and parasitic diseases (43)	1	0.0	1</					

TABLE VII. DEATHS FROM ACCIDENTAL CAUSES BY TYPE OF ACCIDENT, BY COUNTY OF OCCURRENCE OF ACCIDENT, OKLAHOMA, 1948

County	Total		Type of Accident									
	Number	Rate*	Motor Vehicle	Air Transportation	Other Transportation	Poisonings (Except Gas)	Poisonous Gases	Conflagration & Burns	Drowning	Firearms	Falls	All Other Accidents
ENTIRE STATE	1,447	62.0	516	55	44	32	30	155	73	48	257	237
Adair	3	18.4	2	-	-	-	-	-	1	-	-	-
Alfalfa	8	62.7	6	-	-	-	-	-	-	-	1	1
Atoka	10	68.7	4	-	-	-	-	2	1	1	1	1
Beaver	1	11.8	-	-	-	-	-	-	1	-	-	-
Beckham	17	88.0	9	1	-	-	-	-	-	1	5	1
Blaine	9	50.7	1	-	-	-	-	5	-	-	2	1
Bryan	19	57.3	8	-	1	1	-	1	1	-	3	4
Caddo	26	66.2	5	-	1	-	1	1	1	-	3	14
Canadian	19	66.0	9	-	-	-	-	3	1	1	2	3
Carter	29	73.4	11	-	1	1	-	4	-	1	3	8
Cherokee	10	49.7	3	2	-	-	-	2	-	1	1	1
Cherokee	13	54.6	3	-	-	1	-	2	2	-	2	3
Cimarron	6	123.9	1	-	-	-	1	1	1	-	1	1
Cleveland	24	79.2	9	-	2	-	-	2	2	-	7	2
Coal	3	34.3	2	-	-	-	-	-	-	-	1	-
Comanche	25	46.2	12	-	-	2	2	1	1	2	3	2
Cotton	14	118.5	6	2	-	2	-	1	1	2	-	-
Craig	16	83.2	4	2	-	-	1	2	-	-	4	3
Crack	50	116.1	21	-	3	1	-	5	3	1	8	8
Custer	12	52.5	5	-	-	-	-	3	-	-	2	2
Delaware	12	75.8	1	-	-	1	2	-	1	-	1	6
Dewey	9	82.7	2	1	-	-	-	1	1	-	3	1
Ellis	3	38.0	1	-	-	-	-	-	-	-	2	-
Garfield	29	58.3	13	4	-	1	1	-	-	-	7	2
Garvin	24	77.3	5	-	-	1	-	4	-	1	5	8
Grady	31	76.8	16	2	3	-	1	1	-	-	5	3
Grant	7	60.4	2	-	-	-	-	1	-	-	2	2
Greer	6	47.8	1	-	-	-	1	1	1	-	1	1
Harmon	3	29.8	3	-	-	-	-	-	-	-	-	-
Harper	4	65.0	-	-	-	1	-	-	-	-	2	1
Haskell	4	28.0	-	-	-	-	-	1	-	-	1	2
Hughes	22	93.2	2	-	2	1	-	3	1	1	3	9
Jackson	18	85.2	4	-	-	2	-	-	1	1	7	4
Jefferson	11	83.4	4	-	-	-	-	-	1	1	1	4
Johnston	13	110.6	4	-	1	-	2	-	2	-	4	-
Kay	20	39.1	4	1	1	-	1	3	1	-	6	3
Kingfisher	7	46.5	2	-	-	-	-	-	1	1	1	2
Kiowa	12	55.0	5	-	-	-	-	-	2	-	1	4
Latimer	8	82.5	3	-	1	-	-	1	-	-	2	1
LeFlore	15	35.5	3	2	1	1	-	2	1	-	1	4
Lincoln	24	100.7	11	1	-	-	-	4	1	-	1	6
Logan	23	89.5	9	2	-	-	-	4	2	-	3	3
Love	5	56.0	3	-	-	-	-	2	-	-	-	-
McClain	6	33.4	4	-	-	-	-	-	-	-	-	2
McCurtain	23	65.8	9	-	-	-	-	4	2	1	3	4
McIntosh	17	84.3	3	-	1	1	-	1	2	2	-	7
Major	4	33.9	1	-	-	-	-	1	-	1	1	-
Marshall	3	32.2	1	-	-	1	-	1	-	-	-	-
Mayes	12	53.6	2	1	-	-	-	-	4	1	3	1
Murray	6	47.5	-	-	-	-	-	2	3	-	1	-
Muskogee	58	85.4	25	1	3	2	-	11	5	3	1	7
Noble	12	87.7	5	2	-	-	-	-	2	-	2	1
Nowata	16	115.0	6	1	-	-	-	1	1	1	3	3
Okfuskee	14	68.6	5	-	-	-	1	3	-	-	1	4
Oklahoma	181	55.5	73	1	5	4	11	25	2	4	36	20
Okmulgee	29	64.6	13	-	1	1	-	-	3	1	2	5
Osage	21	61.8	8	-	3	-	-	2	1	-	3	6
Ottawa	18	52.6	9	2	1	-	-	3	-	-	-	3
Pawnee	13	84.8	4	3	-	-	-	-	1	-	3	2
Payne	17	45.4	2	-	1	1	1	1	1	-	7	3
Pittsburg	34	75.0	14	-	1	1	-	6	1	4	3	4
Pontotoc	19	58.4	4	-	2	-	-	1	-	-	7	5
Pottawatomie	26	55.6	8	-	2	1	-	3	-	-	11	1
Pushmataha	8	59.2	2	-	-	-	1	-	-	-	2	3
Roger Mills	1	11.9	-	-	-	-	-	-	-	-	-	1
Rogers	23	108.2	9	-	-	-	-	3	2	2	4	3
Seminole	22	48.9	8	-	-	-	1	1	2	4	3	3
Sequoyah	20	84.4	1	11	1	-	-	-	2	-	2	3
Stephens	19	60.0	7	-	1	-	-	3	-	-	4	4
Texas	14	105.1	9	1	-	-	-	-	-	-	1	3
Tillman	11	55.0	6	-	-	-	-	-	-	2	1	2
Tulsa	106	42.9	38	5	3	2	2	14	5	2	30	5
Wagoner	5	25.2	1	2	-	-	-	-	1	-	1	-
Washington	26	81.4	7	-	1	1	-	2	1	2	5	7
Washita	6	30.8	2	1	-	-	-	-	1	-	1	1
Woods	13	93.6	3	-	-	1	-	1	-	2	6	-
Woodward	20	125.7	8	4	1	-	-	1	-	1	2	3

* Number per 100,000 estimated population.