

PUBLIC HEALTH STATISTICS

STATE OF

OKLAHOMA

1952



PART II

BIRTHS AND DEATHS

Oklahoma State Department of Health
Oklahoma City, Oklahoma

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PUBLIC HEALTH STATISTICS OF OKLAHOMA

BIRTHS AND DEATHS

1952

This bulletin, Public Health Statistics of Oklahoma, Part II, contains a summary of births, stillbirths, and deaths which occurred to people of Oklahoma during the year 1952. Since the series had its beginning for the year 1943, this is the tenth consecutive year for which it has been published. In the pages immediately following is a narrative summary of the more important aspects of the State's mortality and natality experience during the year with illustration of points of particular interest by means of tables and charts. There is also an Appendix which shows detailed summary statistics for the State as a whole and vital statistics pertaining to the individual counties and cities having a population of 2,500 or more in the 1950 Census.

These data are useful to public health workers and to all others working to promote the health and welfare of the people of this State. A study of vital statistics leads to an awareness, on the part of responsible officials, of the health needs of the people and aids in the development of health programs designed to meet these needs. Further study permits an evaluation of results to determine whether specific health programs have produced the desired results.

Tabulations in greater detail than those appearing in this publication are on file with the Division of Statistics of the State Department of Health and are available for reference by interested people.

POPULATION

Mortality and natality rates appearing in this publication are based upon population estimates made for the State and for individual counties and cities by the Division of Statistics. These estimates in general represent a projection of the change in population occurring in each area in the period 1940-1950 as revealed by the Census enumerations. The total population estimated for the State as of July 1, 1952, was 2,235,839, which is slightly larger than the 1950 Census figure of 2,233,351. Although the number of live births has exceeded the number of deaths by 20,000 or more annually since 1930, the State's population has shown a decrease in each of the 1940 and 1950 Censuses. Estimates by racial group within the State for 1952 were white, 2,036,567; Negro, 145,503; and Indian, 53,769.

RESIDENCE ALLOCATION

With the exception of Table C in the Appendix, all data appearing in this publication are by place of residence. Mortality and natality rates based on numbers of births and deaths occurring in the resident population are of greater value and meaning than rates based on numbers of births and deaths by place of occurrence. Since certificates are filed in the state in which the event occurs, full allocation of births and deaths to place of residence depends upon the

voluntary interchange among the states, territories, and Canada of transcripts of births and deaths occurring to non-residents of the areas. By this interchange, it was possible to count and include in this publication all reported births and deaths to residents of Oklahoma even though the event may have occurred outside the State.

Table 1
Residence Allocation, Oklahoma, 1952

	Non-resident Certificates Excluded	Resident Transcripts Included
Births	1,823	1,811
Deaths	501	966

In 1952, for the first time since this interchange has been operating, the number of births in the State to non-residents exceeded the number of resident transcripts of births received from outside the State although the numbers were very close as may be seen in Table 1. Resident deaths, however, occurring outside the State continued to be almost twice as great in number as non-resident deaths occurring in the State. The net result of residence allocation for the State was a loss in numbers of births and a gain in numbers of deaths.

Table 2
Births and Deaths of Oklahoma Residents Occurring
Outside Oklahoma, by State in which the Events Occurred
1952

State	Number	
	Births	Deaths
Total	1,811	966
Arizona	23	21
Arkansas	111	150
California	13	38
Colorado	20	29
Florida	15	2
Kansas	327	190
Kentucky	18	1
Louisiana	2	8
Minnesota	9	13
Missouri	92	71
New Mexico	69	24
North Carolina	17	1
Tennessee	8	9
Texas	646	306
Virginia	12	5
Washington	18	5
All Others	108	90

Since residents of the State living in counties along the border are attracted to hospital facilities in neighboring states, the largest numbers of resident births and deaths occurring outside Oklahoma occur in these states with Texas leading the list, Arkansas in second place, and Kansas, third. The states which reallocated the largest numbers of transcripts to Oklahoma are shown in Table 2 on the preceding page.

CAUSE OF DEATH CLASSIFICATION

The cause of death selected for statistical purposes from multiple causes reported on a death certificate is selected according to the procedure established in connection with the sixth revision of the International List of causes of death now called the International Statistical Classification of Diseases, Injuries, and Causes of Death. Because the sixth revision and its classification rules represented a radical departure from previous classification methods it has been necessary to publish special aids to interpreting mortality statistics when comparisons are to be made which bridge the year the sixth revision went into effect, 1949. Consequently, for the year 1949, deaths were classified both by the fifth revision rules and by the sixth revision rules and comparability ratios were established for main categories in causes of death. Such ratios provided a means for estimating how much of an increase or decrease in number of deaths for a specific cause was due to the difference in classification procedure alone.

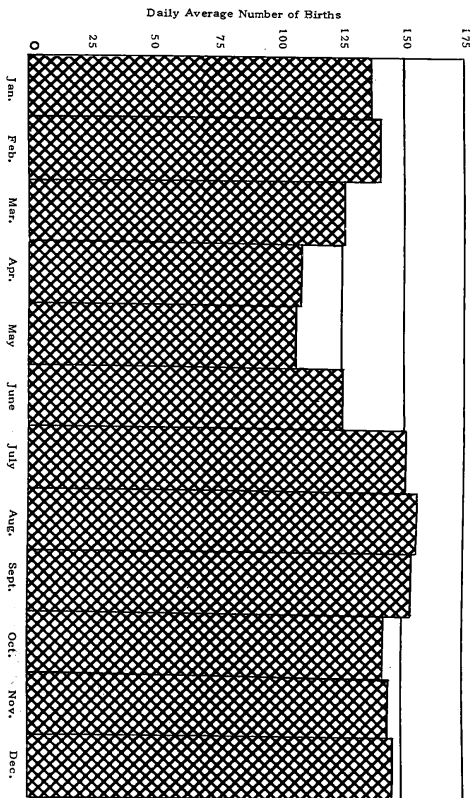
In Table B in the Appendix numbers and rates for certain diseases for the years 1940 through 1949 have been adjusted according to comparability ratios established in 1949. Numbers and rates appearing in Table B should be used whenever it is desired to compare mortality data for 1940-1949 with any year subsequent to 1949.

LIVE BIRTHS

The 50,116 live births occurring to Oklahoma residents during 1952 represented a decrease from the 50,597 occurring during 1951. This 1952 total was also exceeded in 1947, 1948, and 1950. However, the birth rate for 1952, 22.4 per 1,000 population was only very slightly lower than the rate of 22.6 for 1951. Among the white population the rate was 21.6, while the Negro rate was 26.9, and the Indian, 33.8. Corresponding numbers of births were white, 44,118; Negro, 3,912; and Indian, 1,816. Of the 50,116 live born infants 25,925 were male making a ratio of 1,070 male births to 1,000 female births.

The numbers of births vary for different seasons during the year. Chart 1 shows the numbers occurring during each month of 1952. The measurement for comparison was chosen as daily average for each month to overcome the difference in numbers of days falling in the twelve months. The greatest daily average, 156.6 live births, occurred during August followed by July and September, for both of which the daily average was 153.2. The lowest daily averages occurred in May and April.

Chart 1
Daily Average Numbers of Births by Month of Occurrence
Oklahoma, 1952



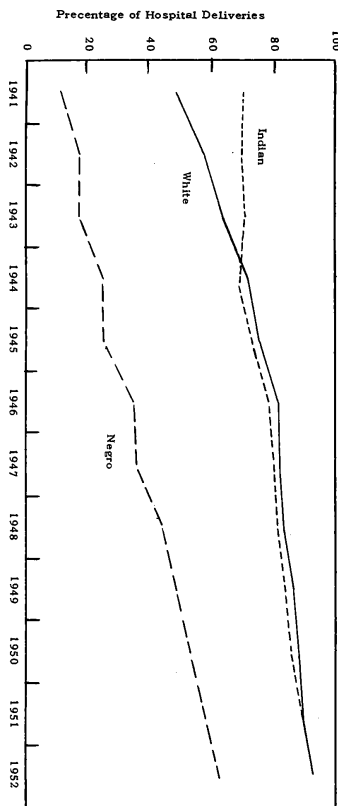
The 44,796 hospital births represented 89.3 per cent of all live births. The proportions among white and Indian population groups individually were 91.6 and 91.5 per cent, respectively, while that among Negroes was 62 per cent. These figures may be seen in Table 3.

Table 3
Live Birth Attendance by Race
Oklahoma, 1952

Attendance	Total		White		Negro		Indian	
	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Per Cent
Total live births	50,146	100.0	44,118	100.0	3,912	100.0	1,816	100.1
Physician in hospital	44,796	89.3	40,708	91.6	2,127	62.0	1,661	91.5
Physician in mat. home	263	0.5	251	0.6	10	0.3	2	0.1
Physician in home	4,037	8.1	3,209	7.2	727	18.6	101	5.6
Midwife and other	1,050	2.1	250	0.6	748	19.1	52	2.9

Each year since 1941 has brought an increase in the proportion of live births occurring in hospitals. This has been true also for white and Negro births for the same period of time and for Indian births since 1944, as may be seen in Chart 2.

Chart 2
Hospital Deliveries by Race
Oklahoma, 1941-1952



Birth weight of the infant has now been reported on birth certificates for five full years. The percentage of certificates showing birth weight has been steadily increasing until in 1952 only 1.5 per cent failed to report this item. Infants having a birth weight of five and one-half pounds or less were classified as immature. Of the number reporting birth weight, 6.7 per cent were immature by this classification.

Table 4
Percentage of Immature* Live Births, by Race
Oklahoma, 1952

	Total	White	Negro	Indian
Live births with birth weight specified	49,402	43,836	3,779	1,787
Birth weight 5½ pounds or less	3,329	2,846	382	101
Per cent	6.7	6.5	10.1	5.7

*Based on birth weight alone

As has been observed in previous years, there was a difference in the proportions of immature births among the racial groups. The highest percentage, 10.1, was observed among Negro births and the lowest, 5.7, among Indian births while that among white births was 6.5 per cent. These figures are shown in Table 4.

Chart 3
Percentage Age Distribution of Mature and Immature Infants, Oklahoma, 1952

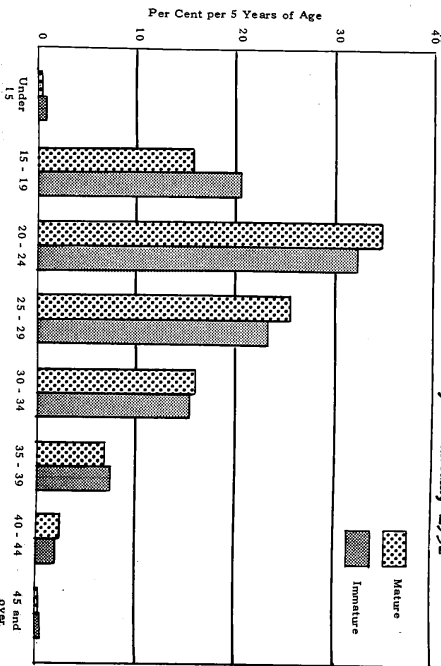


Chart 3 shows the percentage age distribution of the mothers of immature infants compared with that of mothers of mature infants. The proportion of mothers of immature infants in the 15 to 19 years age group was greater by almost 5 per cent than that of mothers of mature infants in the same age group.

Table 5
Immature Births by Weight and Age of Mother
Oklahoma, 1952

Birth Weight	Total	Age of Mother							
		Under 15	15-19	20-24	25-29	30-34	35-44	45 & Over	Unk.
Live births with birth weight spec.	49,402	62	7,950	16,930	12,466	7,281	4,519	61	133
Total immature births	3,329	8	677	1,061	784	471	313	7	8
Per cent immature	6.7	12.9	8.5	6.3	6.5	6.9	11.5	11.5	6.0
4 lb 7 oz-5 lb 8 oz	2,256	5	451	716	533	317	197	3	4
3 lb 5 oz-4 lb 6 oz	621	1	131	181	141	98	65	2	2
2 lb 4 oz-3 lb 4 oz	253	2	54	79	62	27	27	1	1
Less than 2 lb 4 oz	196	-	41	52	48	29	24	1	1

The numbers of immature infants by birth weight and by age of the mothers are shown in Table 5. As was also found in previous years, the highest proportion of immature births was to mothers under 15 years of age.

STILLBIRTHS

The 767 stillbirths counted during 1952 were almost the same as the number counted for 1951, 764. Both were less in number than those counted for any previous year. The ratio of stillbirths to live births for the year was 15.3 per 1,000 live births for the total population. Among the white population group the ratio was 13.8, while those among Negroes and Indians were 21.3 and 33.6, respectively. Table 6 shows numbers and percentages of stillbirths for each race by attendance and place of occurrence.

Table 6
Stillbirth Attendance by Race, Number and Per Cent
Oklahoma, 1952

Attendance at Birth	Total		White		Negro		Indian	
	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Per Cent
Total	767	100.0	611	100.0	95	100.1	61	100.0
Physician in hospital	650	84.7	534	87.4	60	63.2	56	91.8
Physician in mat. home	5	0.7	5	0.8	-	-	-	-
Physician in home	93	12.1	67	11.0	23	24.2	3	4.9
Midwife	14	1.8	3	0.5	11	11.6	-	-
Other and unknown	5	0.7	2	0.3	1	1.1	2	3.3

As defined by state statute, a stillbirth is a birth which is not a live birth at 20 weeks or more gestation. The same statute requires the filing of a stillbirth certificate for each such event. The certificate form provides for the reporting by the attendant of the fetal and maternal causes contributing to the stillbirth.

Table 7 shows numbers of stillbirths attributed to various important causes, together with percentages of total stillbirths. When more than one cause of stillbirth was reported on one certificate, and a logical sequence could not be established, then precedence was given to causes determined in the fetus, placenta, and cord, when these were included on the certificate with causes and conditions in the mother. The greatest number of stillbirths, 287, were attributed to conditions of the placenta and cord. Next greatest number among those for which the cause could be defined were attributed to congenital malformations of the fetus, 68 stillbirths. Difficult labor was next in numerical order, being reported as responsible for 54 stillbirths, and was followed in order by toxemias of pregnancy, 42, and erythroblastosis, 21. For the second year in succession no stillbirths were reported as due to self-induced abortion.

Table 7
Resident Stillbirths, by Cause of Stillbirth
Oklahoma, 1952

Cause of Stillbirth	Number		Per Cent
	Total	Per Cent	
Total	767	100.0	
Causes Determined in the Mother, or Related to Pregnancy:			
Diabetes mellitus (Y30.2)	7	0.9	
Chronic disease of genito-urinary system (Y30.4)	2	0.3	
Other chronic diseases (Y30.0, .1, .3, .5)	14	1.8	
Acute disease in mother (Y31)	6	0.8	
Toxemias of pregnancy (Y32.3, .4)	42	5.5	
Infection (ante- and intra-partum) (Y32.5)	5	0.7	
Difficulties in labor (Y34)	54	7.0	
Self-induced abortion (Y32.0)	-	-	
Accident or violence (Y35.0, .1)	9	1.2	
Other and ill-defined causes in mother (Y32.1, .2, Y33, Y35.2, .3)	7	0.9	
Causes Determined in the Fetus,			
Placenta or Cord:			
Placenta and cord conditions (Y36)	287	37.4	
Birth injury (Y37)	6	0.8	
Congenital malformations of fetus (Y38)	68	8.9	
Erythroblastosis (Y39.2)	24	3.1	
Other causes determined in the fetus (Y39.0, .1, .3)	-	-	
Ill-defined causes (Y39.4, .5)	74	9.6	
Cause unspecified (Y39.6)	162	21.1	

In addition to the cause of stillbirth, the certificate form requests the time of death of the child with respect to the onset of labor. This information as reported for each racial group is given in Table 8.

Table 8
Resident Stillbirths, According to Whether Death Occurred Before or During Labor, by Race, Number and Per Cent
Oklahoma, 1952

Time of Death	Total		White		Negro		Indian	
	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Per Cent
Total Stillbirths	767	100.0	611	100.0	95	100.1	61	100.0
Before labor	434	56.6	339	55.5	51	53.7	44	72.1
During labor	223	29.1	185	30.3	24	25.3	14	23.0
Not stated	110	14.3	87	14.2	20	21.1	3	4.9

On 140 stillbirth certificates it was stated that an operative delivery was made. The certificate blank requests the time of death of the infant in relation to the beginning of the operative procedure. Such information reported on these certificates may be seen in tabular form in Table 9.

Table 9
Resident Stillbirths According to Whether Death Occurred Before or During Operation, by Race, Number and Per Cent
Oklahoma, 1952

Time of Death	Total		White		Negro		Indian	
	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Per Cent
Total Operations	140	100.0	114	100.0	14	99.9	12	100.0
Before operation	97	69.3	78	68.4	10	71.4	9	75.0
During operation	20	14.3	18	15.8	1	7.1	1	8.3
Not stated	23	16.4	18	15.8	3	21.4	2	16.7

LIFE EXPECTANCY

Table 10 on the following page shows an abridged life table for Oklahoma for the period 1949 to 1951. Average annual age specific mortality rates observed during the three year period formed the basis for the table which represents a hypothetical situation in which a cohort of 100,000 persons all born at the same time are exposed at successive ages to the mortality rates prevailing in Oklahoma at that time. From this it was learned that the life expectancy at birth was 68.9 years compared with a life expectancy at birth of 68.4 years in the United States as a whole based on mortality experience during 1949 and 1950. The Oklahoma life table also shows that under present mortality rates, at least half of the persons born alive are still living at age 75.

TOTAL DEATHS

The 19,645 resident deaths counted for 1952 gave a total death rate of 8.8 deaths per 1,000 estimated population compared with a rate of 9.0 for 1951. The rates for the white, Negro, and Indian population groups were 8.5, 12.5, and 10.9, respectively. These rates and the figures on which they are based, may be found in Tables I and II in the Appendix, together with data for important causes of death.

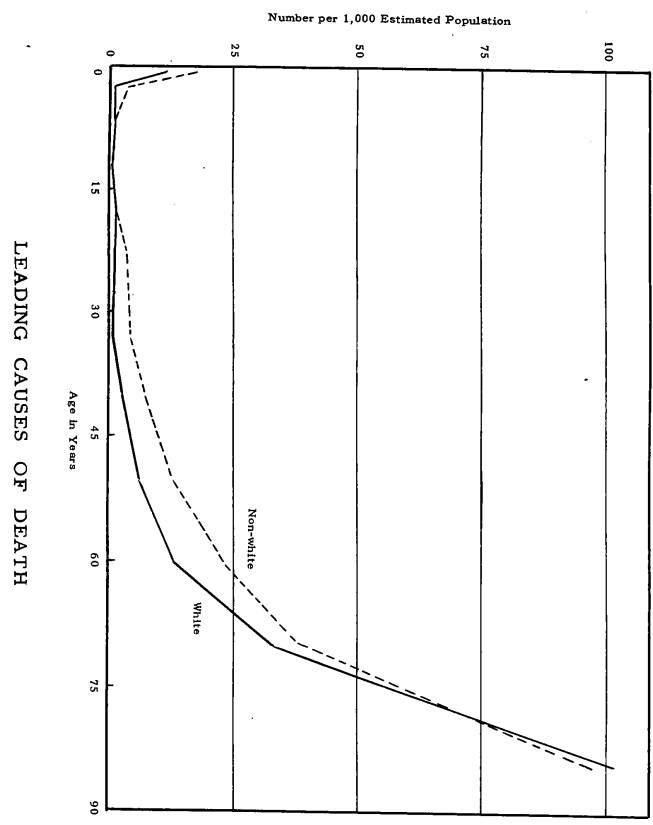
While the rate of 8.8 represents the mortality in the population as a whole, there is considerable variation in mortality rates at different ages and among the different population groups. Average annual age specific mortality rates for the period 1949-1951 are shown in Chart 4 for the white and non-white population groups. It was found that the rates were higher for the non-white group at all ages except 75 years and over.

Table 10
Abridged Life Table
Oklahoma, 1949-1951

Age Interval	Probability of a person age x dying within interval x to x + n	Number surviving to exact age x out of 100,000 born alive	Number dying in interval x to x + n	Years lived in interval x to x + n by survivors at age x	Total years of life remaining to survivors at age x	Average years of life remaining to survivors at age x
x to x + n (1)	q_x (2)	l_x (3)	d_x (4)	L_x (5)	T_x (6)	e_x^o (7)
0-1	.028177	100,000	2,818	97,498	6,892,935	68.93
1-4	.006657	97,182	647	387,434	6,795,437	69.92
5-9	.003542	96,535	342	481,820	6,408,003	66.30
10-14	.003193	96,193	307	480,198	5,926,183	61.61
15-19	.005783	95,886	555	478,043	5,445,985	56.80
20-24	.007720	95,331	736	474,815	4,967,942	52.11
25-29	.007422	94,595	702	471,220	4,493,127	47.50
30-34	.009507	93,893	893	467,233	4,031,907	42.84
35-44	.030984	93,000	2,882	915,590	3,554,674	38.22
45-54	.067309	90,118	6,066	870,850	2,639,084	29.28
55-64	.112942	84,052	12,015	780,445	1,768,234	21.04
65-74	.296262	72,037	21,342	613,660	987,789	13.71
75 and over	1.000000	50,695	50,695	374,129	374,129	7.38

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Chart 4
Average Annual Age Specific Mortality Rates,
by Race, Oklahoma, 1949-1951

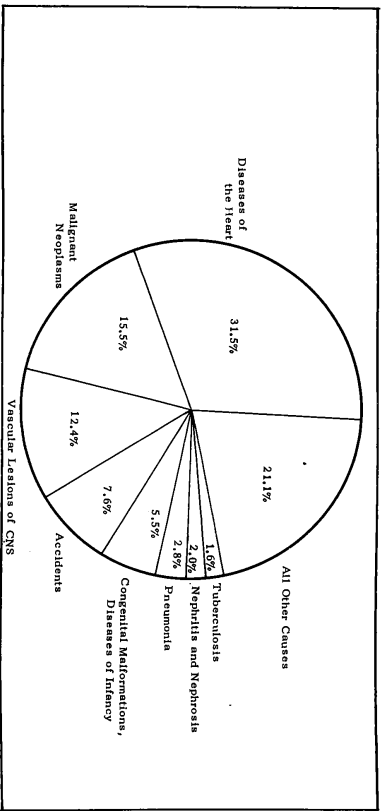


The eight numerically most important causes of death for 1952 were the same as those for the past several years and ranked in the same order as was noted for 1951. Heart disease, the leading cause, accounted for 31.5 per cent of deaths from all causes, and the three leading causes together -- heart disease, malignant neoplasms, and vascular lesions of the central nervous system -- accounted for almost 60 per cent of all deaths. These proportions are shown in Chart 5 together with those for the remaining causes of death.

The causes of death for the total population are dominated by the causes of death among persons of advanced age since 56.9 per cent of all deaths were among persons 65 years of age and over. Since both the numbers of deaths and the causes of death are related to age, it becomes important to learn the leading causes of death among specific age groups in life. Such a tabulation has been made in Table IV in the Appendix.

- 11 -

Chart 5
Leading Causes of Death
Oklahoma, 1952



In the age group 5 to 14 years, it was found that the leading cause of death was accidents, accounting for 100 deaths, or 39.4 per cent of deaths from all causes in this age group where general mortality is lowest. Ranking second was cancer which was reported as being responsible for 20 deaths, 7.9 per cent. Also in the 15 to 24 year age group and the 25 to 34 year age group was the leading cause of death found to be accidents. Nearly half (49.7 per cent) of the deaths from all causes in the 15 to 24 year age group were due to accidents while 36.3 per cent in the older group were attributed to the same cause. For both groups cancer held second place among leading causes. Third in the 15 to 24 year group was tuberculosis which has dropped to eighth place among all age groups. Homicide, suicide, and maternal causes also appeared among the eight leading causes for this age group. In the 25 to 34 year group heart disease was in third place and homicide, tuberculosis, and suicide also appeared among the eight leading causes. Because of the fact that accidents hold first place as cause of death in age groups 5 to 34 years and fourth place in deaths at all ages, a special bulletin has been devoted to their study, Public Health Statistics, Part III, Accidental Deaths.

Heart Disease

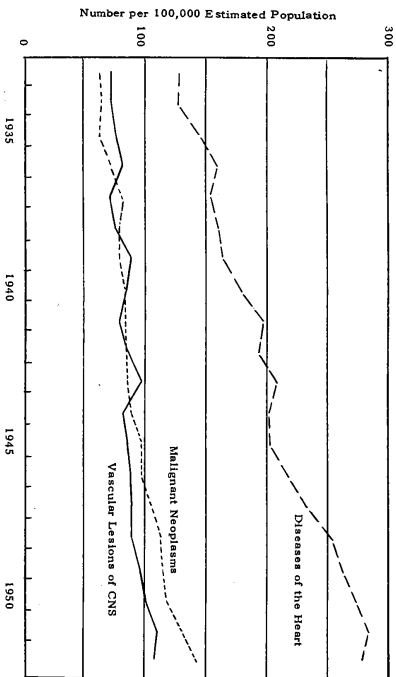
The 6,193 deaths attributed to heart disease during 1952 gave a rate from this cause of 277 deaths per 100,000 estimated population. This was a higher rate than that for any previous year except 1951 when the rate was 281. As in the past, arteriosclerotic and degenerative heart diseases were reported responsible for the largest proportion of deaths attributed to heart disease, 75.1 per cent. Another 13.7 per cent were due to hypertensive heart disease, while 3.2 per cent were due to chronic rheumatic heart disease, and 8 per cent were due to other heart disease. More detailed data for each of these four groups may be found in the Appendix.

Heart disease death rates for the white, Negro, and Indian population groups were 277.2, 290.7, and 230.6, respectively. Ninety-six per cent of deaths attributed to heart disease were persons 45 years of age and over and 64.8 per cent were male.

Malignant Neoplasms

Malignant neoplasms, including the leukemias and neoplasms of the lymphatic and hematopoietic system, ranked second in numerical importance as a cause of death during 1952 and accounted for 15.5 per cent of deaths from all causes. The general death rate from this cause, based on 3,010 deaths, was 136 per 100,000 estimated population, the highest rate yet recorded for any year. The annual mortality rates for cancer, heart disease, and vascular lesions of the central nervous system for the past twenty years are shown in Chart 6. For the white population group alone the cancer mortality rate was 137.1 while those for the Negro and Indian population groups were 134.7 and 94.9, respectively.

Chart 6
Annual Mortality Rates from Heart Disease, Malignant Neoplasms, and Vascular Lesions of the Central Nervous System
Oklahoma, 1933-1952



Of the 3,010 cancer deaths, 1,525 or 50.2 per cent were among males. Table 11 shows the numbers of resident deaths among males and females from malignant neoplasms according to primary site of lesion. For both sexes the greatest numbers of malignancies were primary in the digestive organs and peritoneum. Together these made up 35.8 per cent of cancer fatalities. The next most important sites among males were the respiratory system, with 226 deaths, and the male genital organs, with 225 deaths. Among females, the second and third most important primary sites were the uterus, with 272 deaths, and the breast, with 201 deaths.

Table 11
Resident Deaths from Malignant Neoplasms, by Primary Site,
by Sex, Oklahoma, 1952

Site	Male	Female
Total	1,525	1,515
Buccal cavity and pharynx	44	19
Digestive organs and peritoneum	567	520
Nose, nasal cavities, middle ear, and accessory sinuses	3	5
Other respiratory organs	226	86
Breast	4	201
Uterus	-	272
Other female genital organs	-	79
Male genital organs	225	-
Urinary organs	91	50
Skin	52	30
Brain and other parts of the central nervous system	43	20
Bone	28	13
Lymphosarcoma and reticulo-sarcoma	23	21
Hodgkin's disease	27	14
Leukemia and leukemla	81	71
Other neoplasms of lymphatic and hematopoietic tissues	16	15
Other and unspecified organs	95	99

Vascular Lesions of the Central Nervous System

As was shown in Chart 6, the mortality rates from vascular lesions of the central nervous system have been generally rising. The 2,442 deaths attributed to this cause in 1952 was a greater number than counted for any previous year except 1951 when there were 2,536. The rate of 109.2 per 100,000 population for 1952 also was higher than for any year except 1951. Among individual population groups the rates were 107.4, 153.3, and 59.5, respectively, among white persons, Negroes, and Indians. Almost 80 per cent of deaths from this cause were of persons 65 years of age and older.

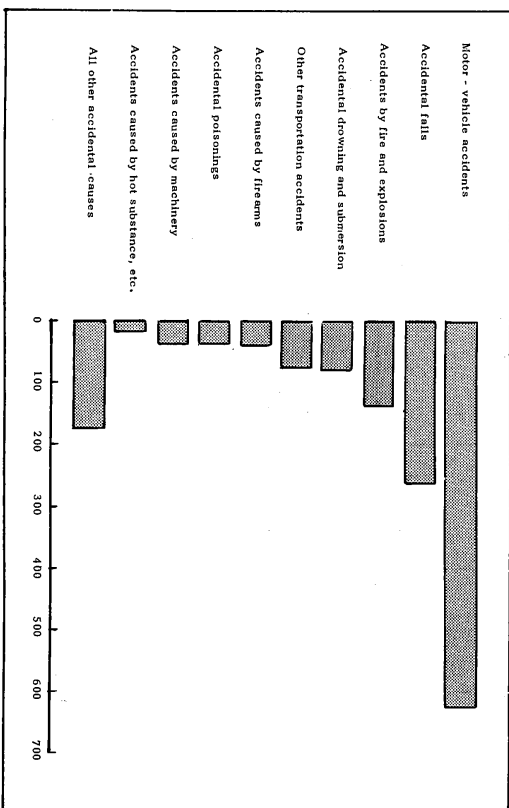
Accidents

As in previous years, accidents ranked fourth in the leading causes of death in the entire population and first in the leading causes of deaths for persons 5 to 34 years of age. The number of accidental deaths in 1952, 1,489 was only slightly lower than the 1,500 counted for 1951. Six hundred sixteen of these, 11.4 per cent, were classified as being motor vehicle accidents. The causes of

the injuries leading to death are shown in order of numerical importance in Chart 7. Information in detail concerning accidental deaths will be published in Public Health Statistics, Part III, Accidental Deaths.

Among the Indian population accidents ranked second in leading causes of death, being exceeded in number only by deaths from heart disease.

Chart 7
Accidental Deaths by Cause of Injury
Oklahoma, 1952



Congenital Malformations and Certain Diseases of Early Infancy

The large numbers of infant deaths classified as being due to "congenital malformations and certain diseases of early infancy" have made this the fifth leading cause of death in the State. Because 95 per cent of these deaths were in infants under the age of one year, the discussion has been included in the section for Infant Deaths.

Pneumonia

Pneumonia was reported as responsible for 552 deaths placing this cause sixth among the leading causes of death. The rate from this cause was 24.7 per 100,000 population for the whole population, while rates for white, Negro, and Indian groups were 21.2, 46.7, and 96.7, respectively.

While pneumonia has lost relative importance as a cause of death in the whole population, it ranked third in numerical importance among Indians. Also, pneumonia was second in importance among deaths in the 0 to 4 years age group.

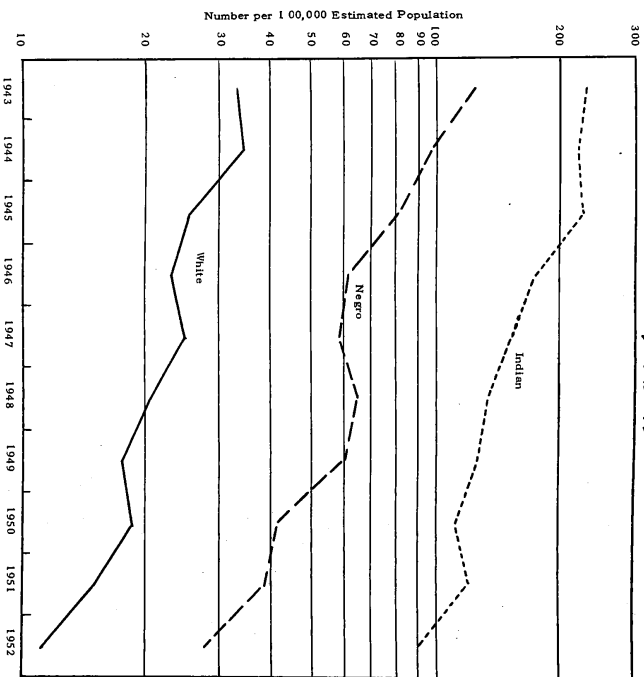
Nephritis and Nephrosis

Nephritis and nephrosis appeared in seventh place among leading causes in 1951 and 1952 because of decreases in tuberculosis mortality which dropped that cause to eighth place. The 390 deaths attributed to these diseases during 1952 gave a mortality rate of 17.4 per 100,000 population. As in previous years it was found that the mortality rate among Negroes, 49.5, was much higher than the rate among white and Indian groups which were 15.1 and 20.5, respectively.

Tuberculosis

The 318 deaths from tuberculosis in 1952 set a new low record in mortality from this cause. The rate of 14.2 deaths per 100,000 population is approximately one third as high as the rates which prevailed around 1940.

Chart 8
Tuberculosis Mortality Rates, by Race
Oklahoma, 1943-1952



The rate from this cause among Indians, 89.3, continued to be much higher than those among white and Negro population groups which were 11.2 and 28.2, respectively. The decreasing rates among the three population groups for the State are shown in Chart 8 on the preceding page.

COMMUNICABLE DISEASES

The mortality rates from acute communicable diseases have followed a downward trend for the past several years. Although the numbers of these deaths are now relatively small, they present a constant threat to the public health which demands the attention of those concerned with both preventive and curative medicine.

Typhoid fever was reported responsible for 2 deaths during 1952 and paratyphoid for 1 death. Dysentery, all forms, accounted for 18 deaths, of which 8 were attributed to the bacillary form of the disease, 1 to amebic dysentery, and 9 were unspecified as to type.

Whooping cough and diphtheria accounted for 7 and 2 deaths, respectively. The number for whooping cough was the same as that for the previous low year, 1949, while the 2 diphtheria deaths set a new low record, the previous low number, 6, being counted for 1951. Tetanus caused 8 deaths, of which 3 were white, 4 were Negro, and 1 was Indian.

Acute poliomyelitis, which was epidemic in 1952, caused 45 deaths and an additional 5 deaths were reported as being due to the late effects of poliomyelitis. Of the 45 deaths in the acute stage 44 were white persons and one was Negro. For this year, poliomyelitis appeared in third place among causes of death for children 5 to 14 years of age.

Two deaths were attributed to streptococcal sore throat and none to scarlet fever. Measles was responsible for 3 deaths in 1952 after being reported as causing 25 deaths in 1951 which was an epidemic year for the disease. Another 6 deaths in 1952 were due to infectious hepatitis.

Rabies was responsible for 2 deaths during this year. One of these was a white male eleven years of age and the other was a white female forty-three years of age.

Congenital syphilis was reported responsible for 2 deaths, both among the white population, while tabes dorsalis accounted for 3 deaths; general paralysis of the insane for 16 deaths, and other forms of syphilis for 63 deaths, making a total of 84 deaths.

MATERNAL DEATHS

Continued effort on the part of responsible authorities has reduced the number of maternal deaths 64 per cent in the last 10 years, so that in 1952 only 38 maternal deaths were reported among the residents of Oklahoma. The rate of 0.8 per 1,000 live births was the lowest ever recorded in Oklahoma.

Table 12
Maternal Deaths by Cause, by Race, Number and Rate*
Oklahoma, 1952

Cause of Death	Total		White		Negro		Indian	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate
All maternal causes	38	0.8	25	0.6	8	2.0	5	2.8
Sepsis of pregnancy (640, 641)	1	0.0	-	-	-	-	1	0.6
Toxemias of pregnancy (642)	7	0.1	2	0.0	3	0.8	2	1.1
Hemorrhage of pregnancy (643, 644)	-	-	-	-	-	-	-	-
Ectopic pregnancy without mention of sepsis (645.0)	1	0.0	1	0.0	-	-	-	-
Ectopic pregnancy with mention of sepsis (645.1)	1	0.0	1	0.0	-	-	-	-
Other complications of pregnancy (646-649)	2	0.0	1	0.0	1	0.3	-	-
Abortion without mention of sepsis or toxemia (650)	3	0.1	3	0.1	-	-	-	-
Abortion with mention of sepsis (651)	1	0.0	1	0.0	-	-	-	-
Abortion with toxemia, without mention of sepsis (652)	-	-	-	-	-	-	-	-
Delivery without specified complications (660)	2	0.0	1	0.0	1	0.3	-	-
Hemorrhage of childbirth (670-672)	11	0.2	8	0.2	1	0.3	2	1.1
Sepsis of childbirth and the puerperium (681, 682, 684)	3	0.1	2	0.0	1	0.3	-	-
Toxemias of the puerperium (685, 686)	1	0.0	-	-	1	0.3	-	-
Other complications of childbirth and the puerperium (673-680, 683, 687-689)	5	0.1	5	0.1	-	-	-	-

*Number per 1,000 Live Births.

Hemorrhage of childbirth was reported as the cause of death more often than any other condition. In 11 deaths, or 28.9 per cent, hemorrhage of childbirth was stated to be the cause. Toxemia of pregnancy caused 7 deaths, 18.4 per cent of the total maternal deaths. These two conditions are consistently the leading causes of maternal deaths. In the four year period, 1949-1952, toxemia of pregnancy caused 25.9 per cent of the maternal deaths and hemorrhage of childbirth, 17.6 per cent.

Childbearing became more hazardous as the age of the mother increased. The age-specific mortality rate, based on 1,000 live births, was 0.2 in the 15 to 19 years age group and rose to 2.2 in the 35 to 44 years age group and 16.1 in the 45 years and over age group, where only 62 live births and 1 maternal death were reported.

Table 13
Maternal Deaths, by Cause, by Age
Oklahoma, 1952

Cause of Death	Total	Age						
		-15	15-19	20-24	25-29	30-34	35-44	45+
All maternal causes	38	-	2	9	8	8	10	1
Sepsis of pregnancy, childbirth and the puerperium	4	-	1	2	-	1	-	-
Toxemias of pregnancy and the puerperium	8	-	-	3	-	2	3	-
Hemorrhage of pregnancy and childbirth	11	-	-	1	4	3	3	-
Abortion without mention of sepsis or toxemia	3	-	-	-	1	1	1	-
Other complications of pregnancy, childbirth, and the puerperium	11	-	1	3	3	1	2	1

INFANT DEATHS

Seven per cent of those dying in 1952 did not live to attain their first birthday. These infant deaths made the smallest number ever reported in Oklahoma in years for which records are available. The rate of 28.7 infant deaths per 1,000 live births was 2.1 deaths less than the rate of 1951.

Immaturity, stated alone on the death certificate, was the leading cause of infant deaths. One-fourth of the infant deaths were attributed to this cause. Congenital malformations, postnatal asphyxia and atelectasis, and injury at birth were the second, third, and fourth leading causes of death, respectively. These four conditions caused 61 per cent of the total infant deaths, the same percentage as in 1951.

The infant death rates for the Indian and Negro races were twice as high as the rate for the white race. The greatest differences occur in the infectious and parasitic diseases and in diseases of the respiratory and digestive systems. Greater advancement toward prevention of deaths from these diseases has been made in the white race than in the Negro and Indian races. Deaths due to these diseases have been decreased 53 per cent since 1945 in the white race, and the decreases for the Negro and Indian races were only 15 and 7 per cents, respectively. Pneumonia showed the greatest difference this year among the races, these rates being 1.7, 8.7, and 11.6, for the white, Negro, and Indian races, respectively.

Table 14

Deaths Under One Year, by Cause, by Race,
Number and Rate*, Oklahoma, 1952

Cause of Death	Total		White		Negro		Indian	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Infant deaths, all causes	1441	28.7	1127	25.4	214	54.7	100	55.1
Syphilis and its sequelae (020-029)	2	0.0	2	0.0	-	-	-	-
Whooping cough (056)	5	0.1	2	0.0	3	0.8	-	-
Other infective and parasitic diseases (001-019, 030-055, 057-138)	35	0.7	26	0.6	4	1.0	5	2.8
Pneumonia (490-493, 763)	131	2.6	76	1.7	34	8.7	21	11.6
Other diseases of the respiratory system (470-475, 480-483, 500-527)	30	0.6	12	0.3	12	3.1	6	3.3
Gastro-enteritis and colitis (571, 572, 764)	56	1.1	30	0.7	18	4.6	8	4.4
Other diseases of the digestive system (530-570, 573-587)	24	0.5	16	0.4	6	1.5	2	1.1
Congenital malformations (750-759)	189	3.8	169	3.8	21	2.8	9	5.0
Injury at birth (760-761)	152	3.0	123	2.8	22	5.6	7	3.9
Postnatal asphyxia and atelectasis (762)	183	3.6	160	3.6	19	4.9	4	2.2
Hemolytic disease of newborn (erythroblastosis) (770)	39	0.8	36	0.8	2	0.5	1	0.6
Immaturity (774, 776)	355	7.1	300	6.8	36	9.2	19	10.5
Other certain diseases of early infancy (765-769, 771-773)	74	1.5	55	1.2	16	4.1	3	1.7
Accidents (E800-E962)	62	1.2	46	1.0	11	2.8	5	2.8
Other defined causes	63	1.3	45	1.0	11	2.8	7	3.9
Symptoms and ill-defined conditions (780-793, 795)	41	0.8	29	0.7	9	2.3	3	1.7

*Number per 1,000 live births.

Deaths of Infants Under
One Month of Age

Neonatal deaths made up the greater proportion of infant deaths, 71.7 per cent. This proportion was higher among white infant deaths, 76.8 per cent, than among Negro and Indian infant deaths, where 57.5 and 46.0 per cents, respectively, were neonatal.

Because neonatal deaths form such a large part of infant deaths, leading causes of death are the same in the two groups. Ninety-one per cent of those infants dying as a result of the four leading causes were less than one month of age at death.

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

Table 15

Deaths Under One Month by Cause, by Race, Number and Rate*
Oklahoma, 1952

Cause of Death	Total		White		Negro		Indian	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Neonatal deaths, all causes	1033	20.6	865	19.5	123	31.4	46	25.3
Syphilis and its sequelae (020-029)	1	0.0	-	-	-	-	-	-
Whooping cough (056)	-	-	-	-	-	-	-	-
Other infective and parasitic diseases (001-019, 030-055, 057-138)	6	0.1	3	0.1	2	0.5	1	0.6
Pneumonia (490-493, 763)	36	0.7	22	0.5	10	2.6	4	2.2
Other diseases of the respiratory system (470-475, 480-483, 500-527)	9	0.2	4	0.1	4	1.0	1	0.6
Gastro-enteritis and colitis (571, 572, 764)	14	0.3	7	0.2	4	1.0	3	1.7
Other diseases of the digestive system (530-570, 573-587)	9	0.2	7	0.2	2	0.5	-	-
Congenital malformations (750-759)	130	2.6	122	2.7	6	1.5	3	1.7
Injury at birth (760-761)	116	2.9	119	2.7	20	5.1	7	3.9
Postnatal asphyxia and atelectasis (762)	180	3.6	158	3.6	18	4.6	4	2.2
Hemolytic disease of newborn (erythroblastosis) (770)	38	0.8	35	0.8	2	0.5	1	0.6
Immaturity (774, 776)	347	6.9	295	6.6	35	8.9	17	9.4
Other certain diseases of early infancy (765-769, 771-773)	66	1.3	52	1.2	12	3.1	2	1.1
Accidents (E800-E962)	12	0.2	7	0.2	4	1.0	1	0.6
Other defined causes	21	0.4	19	0.4	1	0.3	1	0.6
Symptoms and ill-defined conditions (780-793, 795)	18	0.4	14	0.3	3	0.8	1	0.6

*Number per 1,000 live births.

More than half of the neonatal deaths occurred during the first day of life and 88 per cent occurred during the first week of life. Injury at birth, postnatal asphyxia and atelectasis, and immaturity were reported more often as the cause of death for infants less than one day of age than for any other age. Deaths from injury at birth decreased 80 per cent from immaturity, 78 per cent; and from postnatal asphyxia and atelectasis, 58 per cent after the first day of life. Only 4.7 per cent of the neonatal deaths attributed to these causes were reported after the first week of life.

Table 16
Deaths Under One Month, by Cause, by Age
Oklahoma, 1952

Cause of Death	Age in Days										
	Under 1	1	2	3	4	5	6	7-13	14-20	21-29	30-35
Neonatal deaths, all causes . . .	547	151	91	54	24	21	17	60	33	35	
Syphilis and its sequelae . . .	1	-	-	-	-	-	-	-	-	-	
Whooping cough	-	-	-	-	-	-	-	-	-	-	
Other infective and parasitic diseases	-	-	1	-	-	-	1	2	1	1	
Pneumonia	2	4	5	2	4	2	1	8	5	3	
Other diseases of the respiratory system	2	-	1	-	1	-	-	2	1	2	
Gastro-enteritis and colitis	1	-	1	-	1	-	-	2	6	3	
Other diseases of the digestive system	2	1	2	1	-	-	1	1	9	2	
Congenital malformations	51	11	9	14	6	2	4	15	2	9	
Injury at birth	100	19	10	10	3	1	-	2	1	-	
Postnatal asphyxia and atelectasis	98	41	19	14	2	2	1	2	-	1	
Hemolytic disease of newborn (erythroblastosis)	14	7	4	3	2	2	-	3	3	-	
Immaturity	229	51	30	5	2	9	7	9	4	1	
Other certain diseases of early infancy	34	10	3	3	1	3	2	5	1	4	
Accidents	2	1	2	-	-	-	-	2	1	4	
Other defined causes	5	3	3	-	-	-	1	3	1	4	
Symptoms and ill-defined conditions	6	3	1	2	-	-	-	4	-	1	

Deaths of Infants One to Eleven Months of Age

Deaths of infants in the one through eleven months age group present an entirely different problem from neonatal deaths. Immaturity, postnatal asphyxia and atelectasis, and injury at birth caused 65 per cent of the neonatal deaths; the same conditions were reported as causing only 4 per cent of the deaths of infants one through eleven months of age.

Pneumonia was the leading cause of death. Over a period of the last four years, it has caused one and one-half times as many deaths as the next leading cause, congenital malformations. Sixty per cent of the decedents with pneumonia as the cause of death died at ages one through four months.

The number of deaths resulting from accidents was 50 in 1952. There has been a steady increase in the number of deaths due to accidents in recent years.

Table 17
Deaths at One to Eleven Months of Age, by Cause, by Age, Oklahoma, 1952

Cause of Death	Age in Months										
	1-11	1	2	3	4	5	6	7	8-9	10-11	
Infant deaths, all causes . . .	408	71	54	55	45	42	27	39	44	31	
Syphilis and its sequelae	1	-	-	-	-	-	-	-	1	-	
Whooping cough	5	-	-	-	-	-	-	-	4	-	
Other infective and parasitic diseases	29	2	3	1	4	1	3	4	7	5	
Pneumonia	95	15	13	14	15	9	6	11	7	5	
Other diseases of the respiratory system	21	4	5	2	4	2	2	2	6	3	
Gastro-enteritis and colitis	42	5	3	4	3	7	5	4	2	2	
Other diseases of the digestive system	15	2	1	1	1	2	2	1	3	2	
Congenital malformations	59	17	7	15	7	3	1	4	3	2	
Injury at birth	6	2	-	-	3	-	-	-	1	-	
Postnatal asphyxia and atelectasis	3	3	-	-	-	-	-	-	-	-	
Hemolytic disease of newborn (erythroblastosis)	1	1	2	-	-	-	-	-	-	-	
Immaturity	8	6	2	-	-	-	-	-	-	-	
Other certain diseases of early infancy	8	1	1	2	2	2	3	4	4	7	
Accidents	50	6	8	8	1	8	6	4	4	7	
Other defined causes	42	2	4	6	5	6	4	4	4	7	
Symptoms and ill-defined conditions	23	5	7	2	-	1	1	2	2	2	

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 A. DEATHS, DEATHS, AND DEATHS BY IMPORTANT CAUSES, NUMBER AND RATE, OKLAHOMA, 1930-1952 - Continued
 Figures in Parentheses Refer to Fifth Revision of International List of Causes of Death

Estimated population, July 1	1930		1931		1932		1933		1934	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live births	14,777	124.1	15,313	124.5	15,272	124.6	15,800	126.0	16,885	134.5
Physician in home	20,999	177.5	22,477	183.5	22,812	185.0	23,054	186.5	23,510	190.0
Hidley, other or unknown	1,302	10.8	1,637	13.3	1,556	12.5	1,528	12.4	1,510	12.3
Physician in hospital	1,298	10.8	1,525	12.4	1,480	12.0	1,528	12.4	1,510	12.3
Hidley, other or unknown	661	5.5	618	5.0	611	5.0	611	5.0	611	5.0
Physician in home	51	0.4	51	0.4	51	0.4	51	0.4	51	0.4
Hidley, other or unknown	50,618	421.5	50,977	422.0	51,705	423.0	52,785	431.0	54,428	446.0
Deaths under 1 month	1,312	10.9	1,377	11.2	1,355	11.0	1,273	10.3	1,285	10.4
Typoid, paratyphoid fevers (1, 2)	56	0.5	35	0.3	23	0.2	23	0.2	9	0.1
Undulant fever (5)	12	0.1	1	0.0	0	0.0	0	0.0	0	0.0
Non-typhoid fever (6)	12	0.1	1	0.0	0	0.0	0	0.0	0	0.0
Whooping cough (9)	7	0.0	5	0.0	3	0.0	3	0.0	1	0.0
Diphtheria (10)	57	0.5	122	1.0	86	0.7	86	0.7	41	0.3
Scarlet fever (11)	72	0.6	67	0.5	55	0.4	55	0.4	33	0.3
Respiratory system (13)	1,252	10.5	1,073	8.8	1,024	8.3	972	7.9	856	7.0
Palaeud (26a)	5	0.0	3	0.0	0	0.0	0	0.0	0	0.0
Spent (27)	5	0.0	3	0.0	0	0.0	0	0.0	0	0.0
Respiratory system (31)	22	0.2	22	0.2	21	0.2	21	0.2	20	0.2
Spent (32)	265	2.2	253	2.1	212	1.7	211	1.7	182	1.5
Influenza (33)	589	5.0	544	4.5	514	4.2	296	2.4	353	2.9
Scarlet fever (34)	3	0.0	20	0.2	0	0.0	0	0.0	0	0.0
Acute poliomyelitis and acute poliomyelitis (36)	20	0.2	15	0.1	15	0.1	8	0.1	6	0.0
Acute infectious encephalitis (37)	2	0.0	1	0.0	0	0.0	0	0.0	0	0.0
Acute infectious encephalitis and paratyphoid diseases (38)	2	0.0	1	0.0	0	0.0	0	0.0	0	0.0
Other infectious and parasitic diseases (39)	1,262	10.6	1,260	10.4	1,117	9.1	1,058	8.6	1,024	8.4
Other number (56-57)	97	0.8	26	0.2	11	0.1	11	0.1	12	0.1
Acute rheumatic fever (58)	37	0.3	36	0.3	32	0.3	32	0.3	37	0.3
Acute rheumatic fever (59)	35	0.3	36	0.3	34	0.3	34	0.3	34	0.3
Cholera (60)	2	0.0	2	0.0	2	0.0	2	0.0	2	0.0
Cholera (61)	2	0.0	2	0.0	2	0.0	2	0.0	2	0.0
Cholera (62)	2	0.0	2	0.0	2	0.0	2	0.0	2	0.0
Other diseases of nutrition, endocrine glands, and arteriosclerosis (63-66)	70	0.6	61	0.5	71	0.6	77	0.6	80	0.7
Diabetes mellitus (67)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (68)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (69)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (70)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (71)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (72)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (73)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (74)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (75)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (76)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (77)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (78)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (79)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (80)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (81)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (82)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (83)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (84)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (85)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (86)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (87)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (88)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (89)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (90)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (91)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (92)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (93)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (94)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (95)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (96)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (97)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (98)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (99)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (100)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (101)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (102)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (103)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (104)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (105)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (106)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (107)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (108)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (109)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (110)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (111)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (112)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (113)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (114)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (115)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (116)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (117)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (118)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (119)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (120)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (121)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (122)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (123)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (124)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (125)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (126)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (127)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (128)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (129)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (130)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (131)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (132)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (133)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (134)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (135)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (136)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (137)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (138)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (139)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (140)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (141)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (142)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (143)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (144)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (145)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (146)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (147)	10	0.1	10	0.1	10	0.1	10	0.1	10	0.1
Diabetes mellitus (148										

TABLE A. DEATHS, DEATHS BY IMPORTANT CAUSES, NUMBER AND RATE, OKLAHOMA, 1950-1952
 Figures in Parentheses Refer to Sixth Revision of International List of Causes of Death
 (continued)

Isolated population, July 1	1949		1950		1951		1952	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live births	19,972	22.3	20,472	22.6	20,597	22.6	20,116	22.4
Physician in hospital	41,078	...	42,513	...	43,971	...	44,796	...
Nursing home or infirmary	1,385	...	1,362	...	1,466	...	1,300	...
Skilled laborer	1,860	17.2	1,825	16.3	1,764	15.1	1,797	15.3
Physician in hospital	695	...	669	...	662	...	650	...
Physician in home	187	...	124	...	82	...	98	...
Total deaths, all causes	19,316	8.6	19,131	8.7	20,082	9.0	19,612	8.6
Deaths under 1 year	1,990	30.6	1,959	29.9	1,950	30.8	1,941	28.7
Deaths under 1 month	1,529	24.6	1,097	21.1	1,120	22.1	1,033	20.6
Thrombotic, other forms (I00-403)	38	1.7	33	1.4	38	1.7	38	1.8
Syphilis and its sequelae (020-029)	121	5.4	108	4.8	100	4.5	84	3.8
Synpoid fever (040, 041-046)	28	1.2	15	0.7	16	0.7	18	0.8
Scarlet fever and streptococcal sore throat (050, 051)	15	0.7	6	0.3	10	0.4	2	0.1
Diphtheria (055-057)	7	0.3	20	0.9	6	0.3	2	0.1
Whooping cough (059)	7	0.3	20	0.9	18	0.8	7	0.3
Measles (060-062)	109	4.9	112	5.0	117	5.1	112	5.0
Acute poliomyelitis (080)	109	4.9	112	5.0	117	5.1	112	5.0
Scarlet fever (085)	30	1.3	1	0.0	25	1.1	3	0.1
Scarlet fever and streptococcal disease (100-108)	1	0.0	2	0.1	1	0.0	1	0.0
Maligant neoplasms, including neoplasms of (110-205)	64	2.9	70	3.1	71	3.2	71	3.2
Benign and unspecified neoplasms (210-239)	2,558	111.1	2,682	120.1	2,813	127.2	3,010	136.0
Diabetes mellitus (260)	104	4.6	85	3.8	80	3.6	65	2.8
Venereal diseases (560-569)	298	13.3	308	13.8	312	14.0	300	13.4
Systemic lupus erythematosus (590)	60	2.7	62	2.8	73	3.3	59	2.6
Rheumatoid arthritis (710)	34	1.5	28	1.3	27	1.2	43	1.9
Nontraumatic fever (700-702)	22	1.0	19	0.9	18	0.8	20	0.9
Arteriosclerotic and degenerative heart disease (410-422)	227	10.1	216	9.7	215	10.1	200	8.9
Other diseases of heart (430-434)	4,116	186.0	4,262	190.8	4,511	203.2	4,648	207.9
Myocardial infarction (410-414)	970	43.3	930	41.6	921	41.2	850	38.0
Myocarditis without mention of heart (410-417)	222	9.9	221	9.9	198	8.9	183	8.2
Infarction (410-413)	92	4.1	211	9.6	117	5.2	151	6.8
Myocarditis (410-414)	50	2.3	60	2.8	518	23.2	552	24.7
Ulcer of stomach and duodenum (510, 511)	90	4.0	112	5.0	112	5.0	102	4.6
Appendicitis (580-583)	79	3.5	79	3.5	52	2.3	69	3.1
Intestinal obstruction and hernia (560)	167	7.5	147	6.6	150	6.7	127	5.7
Quarrel, influenza, enteritis and colitis, except diphtheria of the membrane (513, 514, 515)	121	5.4	95	4.3	87	3.9	102	4.6
Enteritis, except diphtheria of the membrane (513, 514, 515)	121	5.4	95	4.3	87	3.9	102	4.6
Nephritis and nephrosis (590-594)	120	5.4	120	5.4	119	5.3	115	5.2
Complications of pregnancy, childbirth and puerperium (630-644)	69	3.1	43	1.9	55	2.5	38	1.7
Complications of pregnancy, childbirth and puerperium (630-644)	69	3.1	43	1.9	55	2.5	38	1.7
Birth injuries, postnatal sepsis and convulsions (760-762)	138	6.1	241	10.9	214	10.0	203	9.2
Accidents and suicides (800-899)	511	22.8	515	23.1	505	22.6	462	20.7
Sanitary without mention of psychoses (11-19)	297	13.4	272	12.3	253	11.5	234	10.6
Sanitary without mention of psychoses (11-19)	297	13.4	272	12.3	253	11.5	234	10.6
All other accidents (800-899)	511	22.8	515	23.1	505	22.6	462	20.7
All other accidents (800-899)	511	22.8	515	23.1	505	22.6	462	20.7
Accidents and suicides (800-899)	100	4.5	123	5.5	123	5.5	121	5.5
Accidents and suicides (800-899)	100	4.5	123	5.5	123	5.5	121	5.5
Accidents and suicides (800-899)	100	4.5	123	5.5	123	5.5	121	5.5
Accidents and suicides (800-899)	100	4.5	123	5.5	123	5.5	121	5.5

TABLE B. HISTORICAL SUMMARY OF CERTAIN CAUSES OF DEATH, ADJUSTED BY 1949 COMPARABILITY RATIOS, NUMBER AND RATE
 OKLAHOMA, 1910-1949

Cause of Death	International List Revision	Comparability Ratio	Adjusted Deaths												
			1910	1911	1912	1913	1914	1915	1916	1917	1918	1919			
Thrombotic, all forms	(13-22)	0.9617	1,029	1,029	1,029	1,029	1,029	1,029	1,029	1,029	1,029	1,029	1,029	1,029	1,029
Respiratory system	(13)	0.9627	993	993	993	993	993	993	993	993	993	993	993	993	993
Syphilis	(30)	0.8921	225	191	8.2	146	6.3	179	7.4	155	6.8	155	6.8	155	6.8
Influenza	(33)	1.2105	713	30.6	655	28.2	287	12.4	358	15.5	427	18.6	427	18.6	427
Diabetes mellitus	(45-55)	1.0255	1,992	85.4	1,953	81.2	1.6	32	1.4	37	1.6	30	1.5	30	1.5
Diabetes mellitus	(58)	1.1467	57	2.4	230	9.9	225	9.7	257	11.2	220	9.6	220	9.6	220
Diabetes mellitus	(61)	0.6727	223	9.6	230	9.9	225	9.7	257	11.2	220	9.6	220	9.6	220
Diabetes mellitus	(63)	1.0162	1,979	81.8	1,897	81.6	2,010	86.9	2,135	92.7	1,912	81.7	1,912	81.7	1,912
Disease of the heart	(90-95)	1.0852	4,108	179.4	4,596	197.8	4,489	191.1	4,714	206.0	4,618	201.4	4,618	201.4	4,618
Phenomena, all forms	(107-109)	0.8682	1,179	50.5	981	42.3	851	36.8	867	37.6	799	34.9	799	34.9	799
Phenomena, all forms	(121)	0.9294	281	12.0	239	10.3	169	7.3	152	6.6	115	6.3	115	6.3	115
Phenomena, all forms	(124)	0.8099	96	4.1	78	3.4	83	3.6	93	4.0	69	3.0	69	3.0	69
Phenomena, all forms	(124)	0.8099	96	4.1	78	3.4	83	3.6	93	4.0	69	3.0	69	3.0	69
Phenomena, all forms	(130-132)	0.4630	619	29.1	609	26.2	538	23.3	582	25.3	522	23.2	522	23.2	522
Phenomena, all forms	(157-161)	1.0261	1,310	56.1	1,395	60.0	1,121	48.5	1,283	55.1	1,185	51.7	1,185	51.7	1,185
Phenomena, all forms	(159-195)	0.9180	1,271	54.6	1,317	59.3	1,317	59.3	1,338	58.1	1,299	56.7	1,299	56.7	1,299
Phenomena, all forms	(199-205)	0.9617	792	31.7	677	29.8	660	30.1	598	26.6	528	23.6	528	23.6	528
Phenomena, all forms	(13)	0.9627	712	32.5	629	27.7	639	28.3	559	24.1	490	21.9	490	21.9	490
Phenomena, all forms	(30)	0.8921	147	6.4	143	7.2	150	6.6	138	6.1	121	5.4	121	5.4	121
Phenomena, all forms	(33)	1.2105	272	11.9	230	10.1	244	10.8	244	10.8	244	10.8	244	10.8	244
Phenomena, all forms	(45-55)	1.0255	2,216	98.4	2,258	99.4	2,390	105.7	2,589	113.3	2,558	111.1	2,558	111.1	2,558
Phenomena, all forms	(58)	1.1467	25	1.1	22	1.0	12	0.5	13	0.6	22	1.0	22	1.0	22
Phenomena, all forms	(61)	0.6727	239	10.5	231	10.2	237	10.5	244	11.7	238	10.7	238	10.7	238
Phenomena, all forms	(63)	1.0162	1,999	87.6	2,083	91.7	2,111	93.3	2,107	93.6	2,127	98.0	2,127	98.0	2,127
Phenomena, all forms	(90-95)	1.0852	4,652	203.8	4,906	215.9	5,389	238.0	5,631	250.1	5,856	261.3	5,856	261.3	5,856
Phenomena, all forms	(107-109)	0.8682	752	32.9	667	29.4	681	30.2	629	27.9	560	25.0	560	25.0	560
Phenomena, all forms	(121)	0.9294	125	5.5	87	3.8	83	3.7	79	3.5	79	3.5	79	3.5	79
Phenomena, all forms	(124)	0.8099	3.6	1.6	107	4.7	92	4.1	125	5.6	115	5.1	115	5.1	115
Phenomena, all forms	(130-132)	0.4630	516	22.6	472	20.8	468	20.7	479	21.3	424	22.0	424	22.0	424
Phenomena, all forms	(157-161)	1.0261	1,082	47.1	1,121	52.4	1,156	52.9	1,227	54.5	1,139	50.8	1,139	50.8	1,139
Phenomena, all forms	(159-195)	0.9180	1,161	48.0	1,149	52.5	1,208	54.7	1,203	54.3	1,161	50.8	1,161	50.8	1,161

*Oklahoma enumeration, April 1, 1950.

TABLE III. RESIDUE DEATHS BY INTERNATIONAL ABSTRACTED LIST OF 50 DISEASES BY RACE, SEX, AND AGE, CINCINNATI, 1932 (Continued)

Cause of Death	1-4 Years						5-9 Years					
	White		Negro		Indian		White		Negro		Indian	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Feet, death, all causes	120	104	19	24	12	20	77	46	6	5	-	4
Respiratory system (001-008)	-	-	1	1	-	1	-	-	-	-	-	-
Bronchitis (001-002)	-	-	-	-	-	-	-	-	-	-	-	-
Pneumonia (003-008)	-	-	-	-	-	-	-	-	-	-	-	-
Spill and its sequelae (020-029)	1	-	-	-	-	-	-	-	-	-	-	-
Typhoid fever (040)	-	-	-	-	-	-	-	-	-	-	-	-
Dysentery, all forms (045-048)	2	-	-	1	1	-	2	-	-	-	-	-
Scarlet fever and streptococcal sore throat (050, 051)	-	-	-	-	-	-	-	-	-	-	-	-
Diphtheria (055)	1	-	-	-	-	-	-	-	-	-	-	-
Whooping cough (056)	2	2	1	-	-	-	1	2	-	-	-	-
Measles (060)	-	-	-	-	-	-	-	-	-	-	-	-
Measles and other rubeolal diseases (060-069)	3	6	1	1	-	-	5	2	-	-	-	-
Smallpox (084)	-	-	-	-	-	-	-	-	-	-	-	-
Scarlet fever (085)	-	-	-	-	-	-	-	-	-	-	-	-
Typhoid fever (090)	-	-	-	-	-	-	-	-	-	-	-	-
Typhoid fever (090)	-	-	-	-	-	-	-	-	-	-	-	-
Dysentery, all forms (095-098)	-	-	-	-	-	-	-	-	-	-	-	-
Scarlet fever and streptococcal sore throat (100, 101)	-	-	-	-	-	-	-	-	-	-	-	-
Diphtheria (105)	-	-	-	-	-	-	-	-	-	-	-	-
Whooping cough (106)	-	-	-	-	-	-	-	-	-	-	-	-
Measles (110-117)	-	-	-	-	-	-	-	-	-	-	-	-
Measles and other rubeolal diseases (100-109)	-	-	-	-	-	-	-	-	-	-	-	-
Smallpox (108)	-	-	-	-	-	-	-	-	-	-	-	-
Scarlet fever (109)	-	-	-	-	-	-	-	-	-	-	-	-
Typhoid fever (110-117)	-	-	-	-	-	-	-	-	-	-	-	-
Typhoid fever (110-117)	-	-	-	-	-	-	-	-	-	-	-	-
Dysentery, all forms (115-118)	-	-	-	-	-	-	-	-	-	-	-	-
Scarlet fever and streptococcal sore throat (120-129)	-	-	-	-	-	-	-	-	-	-	-	-
Diphtheria (125)	-	-	-	-	-	-	-	-	-	-	-	-
Whooping cough (126)	-	-	-	-	-	-	-	-	-	-	-	-
Measles (130)	-	-	-	-	-	-	-	-	-	-	-	-
Measles and other rubeolal diseases (130-139)	-	-	-	-	-	-	-	-	-	-	-	-
Smallpox (138)	-	-	-	-	-	-	-	-	-	-	-	-
Scarlet fever (139)	-	-	-	-	-	-	-	-	-	-	-	-
Typhoid fever (140-147)	-	-	-	-	-	-	-	-	-	-	-	-
Typhoid fever (140-147)	-	-	-	-	-	-	-	-	-	-	-	-
Dysentery, all forms (150-153)	-	-	-	-	-	-	-	-	-	-	-	-
Scarlet fever and streptococcal sore throat (160-169)	-	-	-	-	-	-	-	-	-	-	-	-
Diphtheria (170)	-	-	-	-	-	-	-	-	-	-	-	-
Whooping cough (171)	-	-	-	-	-	-	-	-	-	-	-	-
Measles (175)	-	-	-	-	-	-	-	-	-	-	-	-
Measles and other rubeolal diseases (175-184)	-	-	-	-	-	-	-	-	-	-	-	-
Smallpox (183)	-	-	-	-	-	-	-	-	-	-	-	-
Scarlet fever (184)	-	-	-	-	-	-	-	-	-	-	-	-
Typhoid fever (185-192)	-	-	-	-	-	-	-	-	-	-	-	-
Typhoid fever (185-192)	-	-	-	-	-	-	-	-	-	-	-	-
Dysentery, all forms (195-198)	-	-	-	-	-	-	-	-	-	-	-	-
Scarlet fever and streptococcal sore throat (200-209)	-	-	-	-	-	-	-	-	-	-	-	-
Diphtheria (210)	-	-	-	-	-	-	-	-	-	-	-	-
Whooping cough (211)	-	-	-	-	-	-	-	-	-	-	-	-
Measles (215)	-	-	-	-	-	-	-	-	-	-	-	-
Measles and other rubeolal diseases (215-224)	-	-	-	-	-	-	-	-	-	-	-	-
Smallpox (223)	-	-	-	-	-	-	-	-	-	-	-	-
Scarlet fever (224)	-	-	-	-	-	-	-	-	-	-	-	-
Typhoid fever (225-232)	-	-	-	-	-	-	-	-	-	-	-	-
Typhoid fever (225-232)	-	-	-	-	-	-	-	-	-	-	-	-
Dysentery, all forms (235-238)	-	-	-	-	-	-	-	-	-	-	-	-
Scarlet fever and streptococcal sore throat (240-249)	-	-	-	-	-	-	-	-	-	-	-	-
Diphtheria (250)	-	-	-	-	-	-	-	-	-	-	-	-
Whooping cough (251)	-	-	-	-	-	-	-	-	-	-	-	-
Measles (255)	-	-	-	-	-	-	-	-	-	-	-	-
Measles and other rubeolal diseases (255-264)	-	-	-	-	-	-	-	-	-	-	-	-
Smallpox (263)	-	-	-	-	-	-	-	-	-	-	-	-
Scarlet fever (264)	-	-	-	-	-	-	-	-	-	-	-	-
Typhoid fever (265-272)	-	-	-	-	-	-	-	-	-	-	-	-
Typhoid fever (265-272)	-	-	-	-	-	-	-	-	-	-	-	-
Dysentery, all forms (275-278)	-	-	-	-	-	-	-	-	-	-	-	-
Scarlet fever and streptococcal sore throat (280-289)	-	-	-	-	-	-	-	-	-	-	-	-
Diphtheria (290)	-	-	-	-	-	-	-	-	-	-	-	-
Whooping cough (291)	-	-	-	-	-	-	-	-	-	-	-	-
Measles (295)	-	-	-	-	-	-	-	-	-	-	-	-
Measles and other rubeolal diseases (295-304)	-	-	-	-	-	-	-	-	-	-	-	-
Smallpox (303)	-	-	-	-	-	-	-	-	-	-	-	-
Scarlet fever (304)	-	-	-	-	-	-	-	-	-	-	-	-
Typhoid fever (305-312)	-	-	-	-	-	-	-	-	-	-	-	-
Typhoid fever (305-312)	-	-	-	-	-	-	-	-	-	-	-	-
Dysentery, all forms (315-318)	-	-	-	-	-	-	-	-	-	-	-	-
Scarlet fever and streptococcal sore throat (320-329)	-	-	-	-	-	-	-	-	-	-	-	-
Diphtheria (330)	-	-	-	-	-	-	-	-	-	-	-	-
Whooping cough (331)	-	-	-	-	-	-	-	-	-	-	-	-
Measles (335)	-	-	-	-	-	-	-	-	-	-	-	-
Measles and other rubeolal diseases (335-344)	-	-	-	-	-	-	-	-	-	-	-	-
Smallpox (343)	-	-	-	-	-	-	-	-	-	-	-	-
Scarlet fever (344)	-	-	-	-	-	-	-	-	-	-	-	-
Typhoid fever (345-352)	-	-	-	-	-	-	-	-	-	-	-	-
Typhoid fever (345-352)	-	-	-	-	-	-	-	-	-	-	-	-
Dysentery, all forms (355-358)	-	-	-	-	-	-	-	-	-	-	-	-
Scarlet fever and streptococcal sore throat (360-369)	-	-	-	-	-	-	-	-	-	-	-	-
Diphtheria (370)	-	-	-	-	-	-	-	-	-	-	-	-
Whooping cough (371)	-	-	-	-	-	-	-	-	-	-	-	-
Measles (375)	-	-	-	-	-	-	-	-	-	-	-	-
Measles and other rubeolal diseases (375-384)	-	-	-	-	-	-	-	-	-	-	-	-
Smallpox (383)	-	-	-	-	-	-	-	-	-	-	-	-
Scarlet fever (384)	-	-	-	-	-	-	-	-	-	-	-	-
Typhoid fever (385-392)	-	-	-	-	-	-	-	-	-	-	-	-
Typhoid fever (385-392)	-	-	-	-	-	-	-	-	-	-	-	-
Dysentery, all forms (395-398)	-	-	-	-	-	-	-	-	-	-	-	-
Scarlet fever and streptococcal sore throat (400-409)	-	-	-	-	-	-	-	-	-	-	-	-
Diphtheria (410)	-	-	-	-	-	-	-	-	-	-	-	-
Whooping cough (411)	-	-	-	-	-	-	-	-	-	-	-	-
Measles (415)	-	-	-	-	-	-	-	-	-	-	-	-
Measles and other rubeolal diseases (415-424)	-	-	-	-	-	-	-	-	-	-	-	-
Smallpox (423)	-	-	-	-	-	-	-	-	-	-	-	-
Scarlet fever (424)	-	-	-	-	-	-	-	-	-	-	-	-
Typhoid fever (425-432)	-	-	-	-	-	-	-	-	-	-	-	-
Typhoid fever (425-432)	-	-	-	-	-	-	-	-	-	-	-	-
Dysentery, all forms (435-438)	-	-	-	-	-	-	-	-	-	-	-	-
Scarlet fever and streptococcal sore throat (440-449)	-	-	-	-	-	-	-	-	-	-	-	-
Diphtheria (450)	-	-	-	-	-	-	-	-	-	-	-	-
Whooping cough (451)	-	-	-	-	-	-	-	-	-	-	-	-
Measles (455)	-	-	-	-	-	-	-	-	-	-	-	-
Measles and other rubeolal diseases (455-464)	-	-	-	-	-	-	-	-	-	-	-	-
Smallpox (463)	-	-	-	-	-	-	-	-	-	-	-	-
Scarlet fever (464)	-	-	-	-	-	-	-	-	-	-	-	-
Typhoid fever (465-472)	-	-	-	-	-	-	-	-	-	-	-	-
Typhoid fever (465-472)	-	-	-	-	-	-	-	-	-	-	-	-
Dysentery, all forms (475-478)	-	-	-	-	-	-	-	-	-	-	-	-
Scarlet fever and streptococcal sore throat (480-489)	-	-	-	-	-	-	-	-	-	-	-	-
Diphtheria (490)	-	-	-	-	-	-	-	-	-	-	-	-
Whooping cough (491)	-	-	-	-	-	-	-	-	-	-	-	-
Measles (495)	-	-	-	-	-	-	-	-	-	-	-	-
Measles and other rubeolal diseases (495-504)	-	-	-	-	-	-	-	-	-	-	-	-
Smallpox (503)	-	-</										

TABLE V. RESIDENT DEATHS, DEATHS, AND DEATHS BY PROGRAM DISEASE, NUMBER AND RATE BY COUNTY, AND NUMBER BY COUNTY AND RACE, OKLAHOMA, 1952 (Continued)

Estimated population, July 1, 1952	BIXIE			OLMUD			OQUHEIM		
	No.	Rate	Rate	No.	Rate	Rate	No.	Rate	Rate
Live births	28,959	19.2	10	31,017	22.6	10	25,283	18.1	17
Physician in home	157	0.5	11	124	0.4	4	458	1.6	17
Physician in hospital	181	0.6	1	114	0.4	1	98	0.4	16
Physician in home or hospital	2	0.01	1	26	0.1	2	1	0.01	1
Physician in hospital or home	8	0.03	1	10	0.03	3	9	0.03	8
Physician in home, hospital, or elsewhere	4	0.01	1	10	0.03	7	2	0.01	1
Deaths under 1 year	265	0.9	7	313	1.0	6	221	0.8	4
Deaths under 1 month	17	0.06	1	24	0.08	1	4	0.01	1
Deaths under 1 week	20.5	0.07	1	11.4	0.04	1	4	0.01	1
Rheumatoids of respiratory system (001-008)	6.9	0.02	2	6	0.02	1	4	0.01	1
Rheumatoids of other forms (000-009)	2	0.01	1	1	0.00	1	3	0.01	1
Syphilis and its sequelae (020-029)	1	0.00	1	2	0.01	1	1	0.00	1
Dysentery, all forms (045-049)	1	0.00	1	1	0.00	1	1	0.00	1
Scarlet fever and streptococcal sore throat (050, 051, 052)	1	0.00	1	1	0.00	1	1	0.00	1
Whooping cough (056)	1	0.00	1	1	0.00	1	1	0.00	1
Hemorrhagic infections (057)	1	0.00	1	1	0.00	1	1	0.00	1
Acute poliomyelitis (080)	1	0.00	1	1	0.00	1	1	0.00	1
Measles (085)	1	0.00	1	1	0.00	1	1	0.00	1
Typhus and other rickettsial diseases (100-109)	1	0.00	1	1	0.00	1	1	0.00	1
All other diseases classified as infectious and parasitic (030-039, 041, 042, 044, 045, 052-054, 059-071, 081-083, 086-086, 120-139)	2	0.01	1	1	0.00	1	1	0.00	1
Septicemia and hemolytic diseases (140-149)	1	0.00	1	1	0.00	1	1	0.00	1
Benign and unspecified neoplasms (200-239)	39	134.5	1	49	146.6	45	39	154.4	4
Basal cell carcinoma (200-209)	34	118.4	1	44	138.4	4	5	19.6	1
Squamous cell carcinoma (210-219)	1	3.4	1	2	6.0	2	1	3.4	1
Adenocarcinoma (220-229)	1	3.4	1	1	3.0	1	1	3.4	1
Vascular lesions affecting central nervous system (330-334)	28	96.6	28	34	101.7	22	21	81.1	19
Nonhemorrhagic meningitis (340)	1	3.4	1	1	3.0	1	1	3.4	1
Chronic meningitis (350-359)	1	3.4	1	1	3.0	1	1	3.4	1
Chronic rheumatic heart disease (410-415)	5	17.2	4	2	6.0	2	2	7.9	2
Arteriosclerotic and degenerative heart disease (420-429)	79	272.4	76	64	191.5	61	58	229.6	53
Other diseases of heart (430-434)	11	37.9	11	13	40.3	7	8	27.7	7
Hypertension without mention of heart disease (440-443)	1	3.4	1	1	3.0	1	1	3.4	1
Myocardial infarction (444-447)	1	3.4	1	1	3.0	1	1	3.4	1
Pericarditis (450-459)	2	6.8	2	2	6.0	2	2	7.9	2
Bronchitis (500-502)	3	10.3	3	1	3.0	1	1	4.0	1
Upper of bronch and duodenum (540, 541)	1	3.4	1	1	3.0	1	1	3.4	1
Lower of bronch and duodenum (550-553)	1	3.4	1	1	3.0	1	1	3.4	1
Esophagitis (560-569)	1	3.4	1	1	3.0	1	1	3.4	1
Intestinal obstruction and hernia (560, 561, 570)	1	3.4	1	1	3.0	1	1	3.4	1
Gastritis, duodenitis, enteritis and colitis (570-579)	1	3.4	1	1	3.0	1	1	3.4	1
All other diseases of the nervous system (580-589)	3	10.3	3	4	12.0	4	1	4.0	1
Cirrhosis of liver (581)	3	10.3	3	2	6.0	2	4	15.8	3
Hepatitis and hepatosis (590-594)	3	10.3	3	3	9.0	3	1	4.0	1
Other diseases of liver (595-599)	1	3.4	1	1	3.0	1	1	3.4	1
Opportunistic infections (600-609)	1	3.4	1	1	3.0	1	1	3.4	1
Other diseases of the respiratory system (610-619)	3	10.3	3	2	6.0	2	1	4.0	1
Other diseases of the respiratory system (620-629)	1	3.4	1	1	3.0	1	1	3.4	1
Other diseases of the respiratory system (630-639)	1	3.4	1	1	3.0	1	1	3.4	1
Other diseases of the respiratory system (640-649)	1	3.4	1	1	3.0	1	1	3.4	1
Other diseases of the respiratory system (650-659)	1	3.4	1	1	3.0	1	1	3.4	1
Other diseases of the respiratory system (660-669)	1	3.4	1	1	3.0	1	1	3.4	1
Other diseases of the respiratory system (670-679)	1	3.4	1	1	3.0	1	1	3.4	1
Other diseases of the respiratory system (680-689)	1	3.4	1	1	3.0	1	1	3.4	1
Other diseases of the respiratory system (690-699)	1	3.4	1	1	3.0	1	1	3.4	1
Other diseases of the respiratory system (700-709)	1	3.4	1	1	3.0	1	1	3.4	1
Other diseases of the respiratory system (710-719)	1	3.4	1	1	3.0	1	1	3.4	1
Other diseases of the respiratory system (720-729)	1	3.4	1	1	3.0	1	1	3.4	1
Other diseases of the respiratory system (730-739)	1	3.4	1	1	3.0	1	1	3.4	1
Other diseases of the respiratory system (740-749)	1	3.4	1	1	3.0	1	1	3.4	1
Other diseases of the respiratory system (750-759)	1	3.4	1	1	3.0	1	1	3.4	1
Other diseases of the respiratory system (760-769)	1	3.4	1	1	3.0	1	1	3.4	1
Other diseases of the respiratory system (770-779)	1	3.4	1	1	3.0	1	1	3.4	1
Other diseases of the respiratory system (780-789)	1	3.4	1	1	3.0	1	1	3.4	1
Other diseases of the respiratory system (790-799)	1	3.4	1	1	3.0	1	1	3.4	1
Other diseases of the respiratory system (800-809)	1	3.4	1	1	3.0	1	1	3.4	1
Other diseases of the respiratory system (810-819)	1	3.4	1	1	3.0	1	1	3.4	1
Other diseases of the respiratory system (820-829)	1	3.4	1	1	3.0	1	1	3.4	1
Other diseases of the respiratory system (830-839)	1	3.4	1	1	3.0	1	1	3.4	1
Other diseases of the respiratory system (840-849)	1	3.4	1	1	3.0	1	1	3.4	1
Other diseases of the respiratory system (850-859)	1	3.4	1	1	3.0	1	1	3.4	1
Other diseases of the respiratory system (860-869)	1	3.4	1	1	3.0	1	1	3.4	1
Other diseases of the respiratory system (870-879)	1	3.4	1	1	3.0	1	1	3.4	1
Other diseases of the respiratory system (880-889)	1	3.4	1	1	3.0	1	1	3.4	1
Other diseases of the respiratory system (890-899)	1	3.4	1	1	3.0	1	1	3.4	1
Other diseases of the respiratory system (900-909)	1	3.4	1	1	3.0	1	1	3.4	1

TABLE V. RESIDENT DEATHS, DEATHS, AND DEATHS BY PROGRAM DISEASE, NUMBER AND RATE BY COUNTY, AND NUMBER BY COUNTY AND RACE, OKLAHOMA, 1952 (Continued)

Estimated population, July 1, 1952	OILWELL			CENOSCOPE			OQUHEIM		
	No.	Rate	Rate	No.	Rate	Rate	No.	Rate	Rate
Live births	56,455	24.3	50	19	100.1	15	31	153.9	26
Physician in home	612	1.1	6	19	100.1	15	31	153.9	26
Physician in hospital	182	0.3	2	4	21.1	3	1	4.9	1
Physician in home or hospital	19	0.03	1	1	5.3	1	1	4.9	1
Physician in home, hospital, or elsewhere	13	0.02	1	1	5.3	1	1	4.9	1
Physician in hospital or home	1	0.00	1	1	5.3	1	1	4.9	1
Deaths under 1 year	322	0.6	274	146	7.7	108	202	9.9	157
Deaths under 1 month	8.8	0.02	4	6	3.0	6	6	2.8	6
Deaths under 1 week	20.9	0.04	2	2	10.0	2	2	9.0	2
Rheumatoids of respiratory system (001-008)	16.5	0.03	1	4	21.1	2	3	14.7	2
Rheumatoids of other forms (000-009)	1	0.00	1	1	5.3	1	1	4.9	1
Syphilis and its sequelae (020-029)	2.7	0.00	1	1	5.3	1	1	4.9	1
Dysentery, all forms (045-049)	1	0.00	1	1	5.3	1	1	4.9	1
Scarlet fever and streptococcal sore throat (050, 051, 052)	1	0.00	1	1	5.3	1	1	4.9	1
Whooping cough (056)	1	0.00	1	1	5.3	1	1	4.9	1
Hemorrhagic infections (057)	1	0.00	1	1	5.3	1	1	4.9	1
Acute poliomyelitis (080)	1	0.00	1	1	5.3	1	1	4.9	1
Measles (085)	1	0.00	1	1	5.3	1	1	4.9	1
Typhus and other rickettsial diseases (100-109)	1	0.00	1	1	5.3	1	1	4.9	1
All other diseases classified as infectious and parasitic (030-039, 041, 042, 044, 045, 052-054, 059-071, 081-083, 086-086, 120-139)	1	0.00	1	1	5.3	1	1	4.9	1
Septicemia and hemolytic diseases (140-149)	1	0.00	1	1	5.3	1	1	4.9	1
Benign and unspecified neoplasms (200-239)	56	133.6	50	19	100.1	15	31	153.9	26
Basal cell carcinoma (200-209)	42	115.2	36	18	94.8	15	18	88.2	13
Squamous cell carcinoma (210-219)	1	2.7	1	1	5.3	1	1	4.9	1
Adenocarcinoma (220-229)	1	2.7	1	1	5.3	1	1	4.9	1
Vascular lesions affecting central nervous system (330-334)	42	115.2	36	18	94.8	15	18	88.2	13
Nonhemorrhagic meningitis (340)	1	2.7	1	1	5.3	1	1	4.9	1
Chronic meningitis (350-359)	1	2.7	1	1	5.3	1	1	4.9	1
Chronic rheumatic heart disease (410-415)	1	2.7	1	1	5.3	1	1	4.9	1
Arteriosclerotic and degenerative heart disease (420-429)	92	227.7	78	38	188.5	28	40	196.0	35
Other diseases of heart (430-434)	14	38.4	12	6	28.2	8	8	38.2	2
Hypertension without mention of heart disease (440-443)	1	2.7	1	1	5.3	1	1	4.9	1
Myocardial infarction (444-447)	1	2.7	1	1	5.3	1	1	4.9	1
Pericarditis (450-459)	1	2.7	1	1	5.3	1	1	4.9	1
Bronchitis (500-502)	4	11.0	4	1	5.3	1	1	4.9	1
Upper of bronch and duodenum (540, 541)	1	2.7	1	1	5.3	1	1	4.9	1
Lower of bronch and duodenum (550-553)	1	2.7	1	1	5.3	1	1	4.9	1
Esophagitis (560-569)	1	2.7	1	1	5.3	1	1	4.9	1
Intestinal obstruction and hernia (560, 561, 570)	1	2.7	1	1	5.3	1	1	4.9	1
Gastritis, duodenitis, enteritis and colitis (570-579)	1	2.7	1	1	5.3	1	1	4.9	1
All other diseases of the nervous system (580-589)	1	2.7	1	1	5.3	1	1	4.9	1
Cirrhosis of liver (581)	1	2.7	1	1	5.3	1	1	4.9	1
Hepatitis and hepatosis (590-594)	1	2.7	1	1	5.3	1	1	4.9	1
Other diseases of liver (595-599)	1	2.7	1	1	5.3	1	1	4.9	1
Opportunistic infections (600-609)	1	2.7	1	1	5.3	1	1	4.9	1
Other diseases of the respiratory system (610-619)	1	2.7	1						

TABLE V. RESIDENT BURNS, DEATHS, AND INJURIES BY HOSPITAL QUARTERS, NUMBER AND RATE BY COUNTY AND NUMBER BY COUNTY AND RACE, OKLAHOMA, 1932 (Continued)

Estimated population, July 1, 1932	COUNTY			COUNTY			COUNTY			TOTAL		
	No.	Rate	Rate	No.	Rate	Rate	No.	Rate	Rate	No.	Rate	Rate
Live births*	659	21.5	702	96	31	510	159	364	19	27	220	17.0
Physician in home	105	35	657	20	7	372	112	19	7	8	132	10.2
Physician in hospital	10	11.5	7	32	2	1	1	1	1	10	20.0	5
Physician in home	9	9	7	1	1	6	3	2	1	3	3	3
Midwife, other, or unknown	423	10.5	346	66	11	221	10.7	208	6	7	140	5.5
Deaths under 1 year	26	29.9	16	9	1	18	49.9	13	2	3	8	32.0
Deaths under 1 month	6	14.9	2	3	1	1	1	1	1	2	13.6	1
Rheumatoid, other forms (001-008)	1	2.5	1	2	1	1	4.8	1	1	1	1	1
Syphilis and its sequelae (090-099)	1	1	1	1	1	1	1	1	1	1	1	1
Dysentery, all forms (047-048)	1	1	1	1	1	1	1	1	1	1	1	1
Scarlet fever and streptococcal sore throat (090, 091-9)	1	1	1	1	1	1	1	1	1	1	1	1
Diphtheria (095)	1	1	1	1	1	1	1	1	1	1	1	1
Whooping cough (096)	1	1	1	1	1	1	1	1	1	1	1	1
Measles (085)	1	1	1	1	1	1	1	1	1	1	1	1
Scarlet fever and streptococcal sore throat (090, 091-9)	1	1	1	1	1	1	1	1	1	1	1	1
Diphtheria (095)	1	1	1	1	1	1	1	1	1	1	1	1
Whooping cough (096)	1	1	1	1	1	1	1	1	1	1	1	1
Measles (085)	1	1	1	1	1	1	1	1	1	1	1	1
Scarlet fever and streptococcal sore throat (090, 091-9)	1	1	1	1	1	1	1	1	1	1	1	1
Diphtheria (095)	1	1	1	1	1	1	1	1	1	1	1	1
Whooping cough (096)	1	1	1	1	1	1	1	1	1	1	1	1
Measles (085)	1	1	1	1	1	1	1	1	1	1	1	1
Scarlet fever and streptococcal sore throat (090, 091-9)	1	1	1	1	1	1	1	1	1	1	1	1
Diphtheria (095)	1	1	1	1	1	1	1	1	1	1	1	1
Whooping cough (096)	1	1	1	1	1	1	1	1	1	1	1	1
Measles (085)	1	1	1	1	1	1	1	1	1	1	1	1
Scarlet fever and streptococcal sore throat (090, 091-9)	1	1	1	1	1	1	1	1	1	1	1	1
Diphtheria (095)	1	1	1	1	1	1	1	1	1	1	1	1
Whooping cough (096)	1	1	1	1	1	1	1	1	1	1	1	1
Measles (085)	1	1	1	1	1	1	1	1	1	1	1	1
Scarlet fever and streptococcal sore throat (090, 091-9)	1	1	1	1	1	1	1	1	1	1	1	1
Diphtheria (095)	1	1	1	1	1	1	1	1	1	1	1	1
Whooping cough (096)	1	1	1	1	1	1	1	1	1	1	1	1
Measles (085)	1	1	1	1	1	1	1	1	1	1	1	1
Scarlet fever and streptococcal sore throat (090, 091-9)	1	1	1	1	1	1	1	1	1	1	1	1
Diphtheria (095)	1	1	1	1	1	1	1	1	1	1	1	1
Whooping cough (096)	1	1	1	1	1	1	1	1	1	1	1	1
Measles (085)	1	1	1	1	1	1	1	1	1	1	1	1
Scarlet fever and streptococcal sore throat (090, 091-9)	1	1	1	1	1	1	1	1	1	1	1	1
Diphtheria (095)	1	1	1	1	1	1	1	1	1	1	1	1
Whooping cough (096)	1	1	1	1	1	1	1	1	1	1	1	1
Measles (085)	1	1	1	1	1	1	1	1	1	1	1	1
Scarlet fever and streptococcal sore throat (090, 091-9)	1	1	1	1	1	1	1	1	1	1	1	1
Diphtheria (095)	1	1	1	1	1	1	1	1	1	1	1	1
Whooping cough (096)	1	1	1	1	1	1	1	1	1	1	1	1
Measles (085)	1	1	1	1	1	1	1	1	1	1	1	1
Scarlet fever and streptococcal sore throat (090, 091-9)	1	1	1	1	1	1	1	1	1	1	1	1
Diphtheria (095)	1	1	1	1	1	1	1	1	1	1	1	1
Whooping cough (096)	1	1	1	1	1	1	1	1	1	1	1	1
Measles (085)	1	1	1	1	1	1	1	1	1	1	1	1
Scarlet fever and streptococcal sore throat (090, 091-9)	1	1	1	1	1	1	1	1	1	1	1	1
Diphtheria (095)	1	1	1	1	1	1	1	1	1	1	1	1
Whooping cough (096)	1	1	1	1	1	1	1	1	1	1	1	1
Measles (085)	1	1	1	1	1	1	1	1	1	1	1	1
Scarlet fever and streptococcal sore throat (090, 091-9)	1	1	1	1	1	1	1	1	1	1	1	1
Diphtheria (095)	1	1	1	1	1	1	1	1	1	1	1	1
Whooping cough (096)	1	1	1	1	1	1	1	1	1	1	1	1
Measles (085)	1	1	1	1	1	1	1	1	1	1	1	1
Scarlet fever and streptococcal sore throat (090, 091-9)	1	1	1	1	1	1	1	1	1	1	1	1
Diphtheria (095)	1	1	1	1	1	1	1	1	1	1	1	1
Whooping cough (096)	1	1	1	1	1	1	1	1	1	1	1	1
Measles (085)	1	1	1	1	1	1	1	1	1	1	1	1
Scarlet fever and streptococcal sore throat (090, 091-9)	1	1	1	1	1	1	1	1	1	1	1	1
Diphtheria (095)	1	1	1	1	1	1	1	1	1	1	1	1
Whooping cough (096)	1	1	1	1	1	1	1	1	1	1	1	1
Measles (085)	1	1	1	1	1	1	1	1	1	1	1	1
Scarlet fever and streptococcal sore throat (090, 091-9)	1	1	1	1	1	1	1	1	1	1	1	1
Diphtheria (095)	1	1	1	1	1	1	1	1	1	1	1	1
Whooping cough (096)	1	1	1	1	1	1	1	1	1	1	1	1
Measles (085)	1	1	1	1	1	1	1	1	1	1	1	1
Scarlet fever and streptococcal sore throat (090, 091-9)	1	1	1	1	1	1	1	1	1	1	1	1
Diphtheria (095)	1	1	1	1	1	1	1	1	1	1	1	1
Whooping cough (096)	1	1	1	1	1	1	1	1	1	1	1	1
Measles (085)	1	1	1	1	1	1	1	1	1	1	1	1
Scarlet fever and streptococcal sore throat (090, 091-9)	1	1	1	1	1	1	1	1	1	1	1	1
Diphtheria (095)	1	1	1	1	1	1	1	1	1	1	1	1
Whooping cough (096)	1	1	1	1	1	1	1	1	1	1	1	1
Measles (085)	1	1	1	1	1	1	1	1	1	1	1	1
Scarlet fever and streptococcal sore throat (090, 091-9)	1	1	1	1	1	1	1	1	1	1	1	1
Diphtheria (095)	1	1	1	1	1	1	1	1	1	1	1	1
Whooping cough (096)	1	1	1	1	1	1	1	1	1	1	1	1
Measles (085)	1	1	1	1	1	1	1	1	1	1	1	1
Scarlet fever and streptococcal sore throat (090, 091-9)	1	1	1	1	1	1	1	1	1	1	1	1
Diphtheria (095)	1	1	1	1	1	1	1	1	1	1	1	1
Whooping cough (096)	1	1	1	1	1	1	1	1	1	1	1	1
Measles (085)	1	1	1	1	1	1	1	1	1	1	1	1
Scarlet fever and streptococcal sore throat (090, 091-9)	1	1	1	1	1	1	1	1	1	1	1	1
Diphtheria (095)	1	1	1	1	1	1	1	1	1	1	1	1
Whooping cough (096)	1	1	1	1	1	1	1	1	1	1	1	1
Measles (085)	1	1	1	1	1	1	1	1	1	1	1	1
Scarlet fever and streptococcal sore throat (090, 091-9)	1	1	1	1	1	1	1	1	1	1	1	1
Diphtheria (095)	1	1	1	1	1	1	1	1	1	1	1	1
Whooping cough (096)	1	1	1	1	1	1	1	1	1	1	1	1
Measles (085)	1	1	1	1	1	1	1	1	1	1	1	1
Scarlet fever and streptococcal sore throat (090, 091-9)	1	1	1	1	1	1	1	1	1	1	1	1
Diphtheria (095)	1	1	1	1	1	1	1	1	1	1	1	1
Whooping cough (096)	1	1	1	1	1	1	1	1	1	1	1	1
Measles (085)	1	1	1	1	1	1	1	1	1	1	1	1
Scarlet fever and streptococcal sore throat (090, 091-9)	1	1	1	1	1	1	1	1	1	1	1	1
Diphtheria (095)	1	1	1	1	1	1	1	1	1	1	1	1
Whooping cough (096)	1	1	1	1	1	1	1	1	1	1	1	1
Measles (085)	1	1	1	1	1	1	1	1	1	1	1	1
Scarlet fever and streptococcal sore throat (090, 091-9)	1	1	1	1	1	1	1	1	1	1	1	1
Diphtheria (095)	1	1	1	1	1	1	1	1	1	1	1	1
Whooping cough (096)	1	1	1	1	1	1	1	1	1	1	1	1
Measles (085)	1	1	1	1	1	1	1	1	1	1	1	1
Scarlet fever and streptococcal sore throat (090, 091-9)	1	1	1	1	1	1	1	1	1	1	1	1
Diphtheria (095)	1	1	1	1	1	1	1	1	1	1	1	1
Whooping cough (096)	1	1	1	1	1	1	1	1	1	1	1	1
Measles (085)	1	1	1	1	1	1	1	1	1	1	1	1
Scarlet fever and streptococcal sore throat (090, 091-9)	1	1	1	1	1	1	1	1	1	1	1	1
Diphtheria (095)	1	1										

TABLE V. BIRTHDAY BIRTHS, DEATHS AND DEATHS BY IMPORTANT CAUSES, NUMBER AND RATE BY COUNTY, AND NUMBER BY COUNTY AND RACE, OKLAHOMA, 1952 (Continued)

Estimated population, July 1, 1952	MAYNARD				HUBBS				JAYNARD			
	Total		Race		Total		Race		Total		Race	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Live births	218	16.4	212	16.2	204	15.6	197	15.1	227	17.5	219	16.9
Physician in home	142	10.9	138	10.6	135	10.4	131	10.1	145	11.1	140	10.8
Physician in hospital	76	5.8	74	5.7	69	5.3	66	5.1	82	6.3	79	6.1
Midwife, other, or unknown	100	7.7	100	7.7	100	7.7	100	7.7	100	7.7	100	7.7
Deaths under 1 year	91	6.9	84	6.4	82	6.3	79	6.1	100	7.7	97	7.5
Deaths under 1 month	5	0.4	5	0.4	5	0.4	5	0.4	5	0.4	5	0.4
Subventricles of respiratory system (000-008)	3	0.2	3	0.2	3	0.2	3	0.2	3	0.2	3	0.2
Subventricles of respiratory system (000-009)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Syphilis and its sequelae (020-029)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Spontaneous abortion (030-039)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Scarlet fever and streptococcal sore throat (050-051)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Diphtheria (052)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Whooping cough (056)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (060)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (061)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (062)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (063)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (064)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (065)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (066)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (067)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (068)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (069)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (070)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (071)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (072)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (073)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (074)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (075)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (076)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (077)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (078)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (079)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (080)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (081)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (082)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (083)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (084)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (085)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (086)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (087)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (088)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (089)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (090)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (091)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (092)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (093)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (094)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (095)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (096)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (097)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (098)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (099)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (100)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (101)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (102)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (103)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (104)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (105)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (106)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (107)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (108)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (109)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (110)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (111)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (112)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (113)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (114)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (115)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (116)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (117)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (118)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (119)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (120)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (121)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (122)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (123)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (124)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (125)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (126)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (127)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (128)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (129)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (130)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (131)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (132)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (133)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (134)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (135)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (136)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (137)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (138)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (139)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (140)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (141)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (142)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (143)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (144)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (145)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (146)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (147)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (148)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1
Measles (149)	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1

TABLE V. RESIDENT BIRTHS, DEATHS, AND DEATHS BY PROGRAM CAUSES, NUMBER AND RATE BY COUNTY AND RACE, OKLAHOMA, 1952 (Continued)

Estimated population, July 1, 1952	KEMPSON			KEMA			LATHROP		
	Total	No.	Rate	Total	No.	Rate	Total	No.	Rate
Live births	12,239	265	21.7	19,051	392	20.6	9,690	113	11.8
Physician in home		233	19.1		317	17.2		120	12.4
Physician in hospital		27	2.2		75	4.1		93	9.6
Physician in home, or unknown		10	0.8		5	0.3		36	3.6
Physician in hospital, or unknown		11.3	0.9		3	0.2		2	0.2
Physician in hospital, or unknown, or unknown		3	0.2		1	0.0		3	0.3
Births under 1 year		11.1	0.9		17.6	0.9		62	6.4
Births under 1 month		16	1.3		10	0.5		2	0.2
Births under 1 week		10.2	0.8		11.0	0.6		3	0.3
Respiratory and circulatory systems (000-008)		2	0.2		2	0.1		1	0.1
Respiratory system (000-001)		2	0.2		2	0.1		1	0.1
Respiratory system (000-002)		2	0.2		2	0.1		1	0.1
Respiratory system (000-003)		2	0.2		2	0.1		1	0.1
Respiratory system (000-004)		2	0.2		2	0.1		1	0.1
Respiratory system (000-005)		2	0.2		2	0.1		1	0.1
Respiratory system (000-006)		2	0.2		2	0.1		1	0.1
Respiratory system (000-007)		2	0.2		2	0.1		1	0.1
Respiratory system (000-008)		2	0.2		2	0.1		1	0.1
Respiratory system (000-009)		2	0.2		2	0.1		1	0.1
Respiratory system (000-010)		2	0.2		2	0.1		1	0.1
Respiratory system (000-011)		2	0.2		2	0.1		1	0.1
Respiratory system (000-012)		2	0.2		2	0.1		1	0.1
Respiratory system (000-013)		2	0.2		2	0.1		1	0.1
Respiratory system (000-014)		2	0.2		2	0.1		1	0.1
Respiratory system (000-015)		2	0.2		2	0.1		1	0.1
Respiratory system (000-016)		2	0.2		2	0.1		1	0.1
Respiratory system (000-017)		2	0.2		2	0.1		1	0.1
Respiratory system (000-018)		2	0.2		2	0.1		1	0.1
Respiratory system (000-019)		2	0.2		2	0.1		1	0.1
Respiratory system (000-020)		2	0.2		2	0.1		1	0.1
Respiratory system (000-021)		2	0.2		2	0.1		1	0.1
Respiratory system (000-022)		2	0.2		2	0.1		1	0.1
Respiratory system (000-023)		2	0.2		2	0.1		1	0.1
Respiratory system (000-024)		2	0.2		2	0.1		1	0.1
Respiratory system (000-025)		2	0.2		2	0.1		1	0.1
Respiratory system (000-026)		2	0.2		2	0.1		1	0.1
Respiratory system (000-027)		2	0.2		2	0.1		1	0.1
Respiratory system (000-028)		2	0.2		2	0.1		1	0.1
Respiratory system (000-029)		2	0.2		2	0.1		1	0.1
Respiratory system (000-030)		2	0.2		2	0.1		1	0.1
Respiratory system (000-031)		2	0.2		2	0.1		1	0.1
Respiratory system (000-032)		2	0.2		2	0.1		1	0.1
Respiratory system (000-033)		2	0.2		2	0.1		1	0.1
Respiratory system (000-034)		2	0.2		2	0.1		1	0.1
Respiratory system (000-035)		2	0.2		2	0.1		1	0.1
Respiratory system (000-036)		2	0.2		2	0.1		1	0.1
Respiratory system (000-037)		2	0.2		2	0.1		1	0.1
Respiratory system (000-038)		2	0.2		2	0.1		1	0.1
Respiratory system (000-039)		2	0.2		2	0.1		1	0.1
Respiratory system (000-040)		2	0.2		2	0.1		1	0.1
Respiratory system (000-041)		2	0.2		2	0.1		1	0.1
Respiratory system (000-042)		2	0.2		2	0.1		1	0.1
Respiratory system (000-043)		2	0.2		2	0.1		1	0.1
Respiratory system (000-044)		2	0.2		2	0.1		1	0.1
Respiratory system (000-045)		2	0.2		2	0.1		1	0.1
Respiratory system (000-046)		2	0.2		2	0.1		1	0.1
Respiratory system (000-047)		2	0.2		2	0.1		1	0.1
Respiratory system (000-048)		2	0.2		2	0.1		1	0.1
Respiratory system (000-049)		2	0.2		2	0.1		1	0.1
Respiratory system (000-050)		2	0.2		2	0.1		1	0.1
Respiratory system (000-051)		2	0.2		2	0.1		1	0.1
Respiratory system (000-052)		2	0.2		2	0.1		1	0.1
Respiratory system (000-053)		2	0.2		2	0.1		1	0.1
Respiratory system (000-054)		2	0.2		2	0.1		1	0.1
Respiratory system (000-055)		2	0.2		2	0.1		1	0.1
Respiratory system (000-056)		2	0.2		2	0.1		1	0.1
Respiratory system (000-057)		2	0.2		2	0.1		1	0.1
Respiratory system (000-058)		2	0.2		2	0.1		1	0.1
Respiratory system (000-059)		2	0.2		2	0.1		1	0.1
Respiratory system (000-060)		2	0.2		2	0.1		1	0.1
Respiratory system (000-061)		2	0.2		2	0.1		1	0.1
Respiratory system (000-062)		2	0.2		2	0.1		1	0.1
Respiratory system (000-063)		2	0.2		2	0.1		1	0.1
Respiratory system (000-064)		2	0.2		2	0.1		1	0.1
Respiratory system (000-065)		2	0.2		2	0.1		1	0.1
Respiratory system (000-066)		2	0.2		2	0.1		1	0.1
Respiratory system (000-067)		2	0.2		2	0.1		1	0.1
Respiratory system (000-068)		2	0.2		2	0.1		1	0.1
Respiratory system (000-069)		2	0.2		2	0.1		1	0.1
Respiratory system (000-070)		2	0.2		2	0.1		1	0.1
Respiratory system (000-071)		2	0.2		2	0.1		1	0.1
Respiratory system (000-072)		2	0.2		2	0.1		1	0.1
Respiratory system (000-073)		2	0.2		2	0.1		1	0.1
Respiratory system (000-074)		2	0.2		2	0.1		1	0.1
Respiratory system (000-075)		2	0.2		2	0.1		1	0.1
Respiratory system (000-076)		2	0.2		2	0.1		1	0.1
Respiratory system (000-077)		2	0.2		2	0.1		1	0.1
Respiratory system (000-078)		2	0.2		2	0.1		1	0.1
Respiratory system (000-079)		2	0.2		2	0.1		1	0.1
Respiratory system (000-080)		2	0.2		2	0.1		1	0.1
Respiratory system (000-081)		2	0.2		2	0.1		1	0.1
Respiratory system (000-082)		2	0.2		2	0.1		1	0.1
Respiratory system (000-083)		2	0.2		2	0.1		1	0.1
Respiratory system (000-084)		2	0.2		2	0.1		1	0.1
Respiratory system (000-085)		2	0.2		2	0.1		1	0.1
Respiratory system (000-086)		2	0.2		2	0.1		1	0.1
Respiratory system (000-087)		2	0.2		2	0.1		1	0.1
Respiratory system (000-088)		2	0.2		2	0.1		1	0.1
Respiratory system (000-089)		2	0.2		2	0.1		1	0.1
Respiratory system (000-090)		2	0.2		2	0.1		1	0.1
Respiratory system (000-091)		2	0.2		2	0.1		1	0.1
Respiratory system (000-092)		2	0.2		2	0.1		1	0.1
Respiratory system (000-093)		2	0.2		2	0.1		1	0.1
Respiratory system (000-094)		2	0.2		2	0.1		1	0.1
Respiratory system (000-095)		2	0.2		2	0.1		1	0.1
Respiratory system (000-096)		2	0.2		2	0.1		1	0.1
Respiratory system (000-097)		2	0.2		2	0.1		1	0.1
Respiratory system (000-098)		2	0.2		2	0.1		1	0.1
Respiratory system (000-099)		2	0.2		2	0.1		1	0.1
Respiratory system (000-100)		2	0.2		2	0.1		1	0.1

TABLE V. RESIDENT BIRTHS, DEATHS, AND DEATHS BY PROGRAM CAUSES, NUMBER AND RATE BY COUNTY AND RACE, OKLAHOMA, 1952 (Continued)

Estimated population, July 1, 1952	MAYBROS			LINCOLN			LOAN		
	Total	No.	Rate	Total	No.	Rate	Total	No.	Rate
Live births	35,276	617	17.5	20,130	382	19.0	21,177	395	18.7
Physician in home		402	11.4		37	1.8		106	4.9
Physician in hospital		192	5.5		15	0.7		71	3.3
Physician in home, or unknown		128	3.6		17	0.8		55	2.6
Physician in hospital, or unknown		17.6	0.5		3	0.1		18	0.8
Physician in home, or unknown, or unknown		7	0.2		2	0.1		5	0.2
Physician in hospital, or unknown, or unknown		4	0.1		1	0.0		2	0.1
Births under 1 year		283	8.0		26	1.3		67	3.1
Births under 1 month		18	0.5		8	0.4		2	0.1
Births under 1 week		16.2	0.5		7	0.3		2	0.1
Respiratory and circulatory systems (000-008)		13	0.4		2	0.1		1	0.0
Respiratory system (000-001)		13	0.4		2	0.1		1	0.0
Respiratory system (000-002)		13	0.4		2	0.1		1	0.0
Respiratory system (000-003)		13	0.4		2	0.1		1	0.0
Respiratory system (000-004)		13	0.4		2	0.1		1	0.0
Respiratory system (000-005)		13	0.4		2	0.1		1	0.0
Respiratory system (000-006)		13	0.4		2	0.1		1	0.0
Respiratory system (000-007)		13	0.4		2	0.1		1	0.0
Respiratory system (000-008)		13	0.4		2	0.1		1	0.0
Respiratory system (000-009)		13	0.4		2	0.1		1	0.0
Respiratory system (000-010)		13	0.4		2	0.1		1	0.0
Respiratory system (000-011)		13	0.4		2	0.1		1	0.0
Respiratory system (000-012)		13	0.4		2	0.1		1	0.0
Respiratory system (000-013)		13	0.4		2	0.1		1	0.0
Respiratory system (000-014)		13	0.4		2				

