Kansas

Annual Summary of Vital Statistics, 2023

Our Vision – Healthy Kansans living in safe and sustainable environments.

Our Mission – To protect and improve the health and environment of all Kansans.

ANNUAL SUMMARY OF VITAL STATISTICS KANSAS, 2023

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Annual Summary 2023

Introduction

The 2023 *Kansas Annual Summary of Vital Statistics* is a general summary of data compiled from vital event records during calendar year 2023. Content includes statistics from live births, stillbirths, abortions, deaths, marriages, and marriage dissolutions based on records and reports filed with the Office of Vital Statistics in the Bureau of Epidemiology and Public Health Informatics. Selected Kansas vital statistics are compared to national targets set by the Healthy People 2030 project.[1]

In the 2020 Annual Summary, mortality tables pertaining to cause of death were modified to include Coronavirus 2019 (also known as COVID-19 and SARS-CoV-2), and additional tables were created for more detailed analyses of deaths due to this cause. The new tables were added at the end of the General Mortality section to avoid renumbering existing tables. These modifications will remain in place so long as Coronavirus 2019 is a leading cause of death for Kansas residents.

Tables and figures presented for births, stillbirths, and deaths are residence data unless otherwise indicated. Occurrence data are presented for marriage and marriage dissolution tables and figures. Reported abortions include both residence and occurrence events.

This report provides an overview of the events contributing to the health status of Kansans. Public health statistics are essential to governmental agencies, businesses, industries, and citizens for effective health policy decisions and program planning. A PDF version of the *Annual Summary* is at kdhe.ks.gov/1088.

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Population

In early 2024, the United States Census Bureau (USCB) released its first population estimates for July 1, 2023. Kansas total population was estimated at 2,940,546, an increase of 3,396 (0.1%) from the estimate of Kansas total population for July 1, 2022 (2,937,150) released in 2023 (Table B1).

Population Density and Peer Groups

The population density of Kansas was 36.0 inhabitants per square mile in 2023, a 7.8 percent increase from 33.4 persons per square mile in 2004. For comparison, the population density of the U.S. increased from 83.0 to 94.8 persons per square mile from 2004 to 2023, a 14.2 percent increase (Figure B4).

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[1] Healthy People 2030 [Internet]. Washington: U.S. Department of Health and Human Services; [cited 2024 Sep 10] Available from: https://health.gov/healthypeople.

In 2023, 37 of the state's 105 counties had population densities of less than 6.0 persons per square mile. The most sparsely populated county was Greeley, with a density of 1.5 persons per square mile. The most densely populated county was Johnson, with 1,314.5 persons per square mile (Figure B6).

Kansas counties are assigned to peer groups based on population density calculated from population at the most recent U.S. Census. (See the Technical Notes, Appendix 2 for peer group composition.) During the 2019-2023 period, the population of the urban peer group increased by 2.0 percent, while that of the densely-settled rural peer group decreased by 5.0 percent. Changes to the populations of the frontier, rural, and densely-settled rural peer groups over the 2019-2023 period are due in part to the fact that the composition of those groups changed after the 2020 U.S. Census results were released – Phillips county moved from the rural peer group to the frontier peer group, and Sumner County moved from the densely-settled rural peer group to the rural peer group – so comparisons of pre-census years to post-census years should be made with caution (Table B4).

Natural Increase
In 2023, the rate of natural increase (the birth rate minus the death rate) was 1.8 persons per 1,000 population, an increase of 63.6 percent from 1.1 per 1,000 population in 2022. Over the past 20 years (2004-2023), the rate of natural increase has fluctuated between a maximum of 6.3 persons per 1,000 population (2007) and a minimum of 0.9 persons per 1,000 population (2020) (Figure B2).

The population of Kansas increased by about 211,000 from the 1990 Census to the 2000 Census, by about 165,000 from the 2000 Census to the 2010 Census, and by about 85,000 from the 2010 Census to the 2020 Census.[2] Natural increase accounted for about 68 percent (144,000) of the increase in population in the 1990s, but it accounted for almost 96 percent (158,000) of the increase in population in the 2000s. Net in-migration accounted for about 32 percent (67,000) of the population increase in the 1990s, but it accounted for only about four percent (7,000) of the population increase in the 2000s. In the 2010s, Kansas became a net out-migration state: the natural increase of about 111,000 persons was reduced by net out-migration of about 26,000 persons.

Median Age
The median age of Kansans in 2023 was 37.7 years, a 5.3 percent increase from the median age of 35.8 in 2004. The median ages of Kansas males and females in 2023 were 35.6 and 38.8 respectively (Figure B3, Table B2).

Population Characteristics
The percent increase in the Kansas total population from 2004-2023 was 7.5 percent, including a 8.6 percent increase for Kansas males and a 6.5 percent increase for Kansas females. Shifts in the Kansas population distribution by age from 2004 to 2023 included a decrease in the 45-54 age group of 15.8 percent. This decrease, and another of 2.3 percent in residents 35-44 years of age, and increases of 78.2 percent in residents 65-74 years of age, and 33.8 percent in residents 55-64 years of age reflected the aging of the baby boomers.[3] There was a decrease of

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[2] "Population Change and Net Migration in Kansas, by County, 2010-2020," downloaded from https://ipsr.ku.edu/ksdata/ksah/population/2pop14.pdf.
[3] The common definition of 1946-1964 for the baby boom years implies that in 2023, baby boomers were between 59 and 77 years of age.

7.4 percent over the same period in the number of residents in the 0-4 age-group, reflecting several years of declines in the Kansas birth rate (see following section for discussion). Furthermore, there were increases of 4.5, 1.7, 5.0, and 14.7 percent in the 5-14, 15-24, 25-34, and 75 and over age-groups respectively (Table B2, Figure B5).[4]

According to the 2023 Census Bureau estimates, 73.7 percent of Kansans were White non-Hispanic and 5.7 percent were Black non-Hispanic. Hispanics made up 13.7 percent of Kansas' population (Tables B3 and B5).

Live Births and Fertility

During 2023, there were 34,041 live births to residents of Kansas. This was a decrease of 1.0 percent from the 34,389 births reported in 2022. The birth rate in 2023 was 11.6 births per 1,000 population, a decrease of 0.9 percent from 11.7 births per 1,000 population in 2022 (Table C10).

The 2023 birth rate (11.6 per 1,000 population) was the lowest Kansas birth rate in the period from 1912 to date (the entire period in which KDHE and its predecessors have maintained the Kansas Vital Records System). The only other years with birth rates below 12.0 per 1,000 population were 2020-2022 (Figure C1).

Figure A. Birth Rates, **Kansas Residents, 2004-2023**
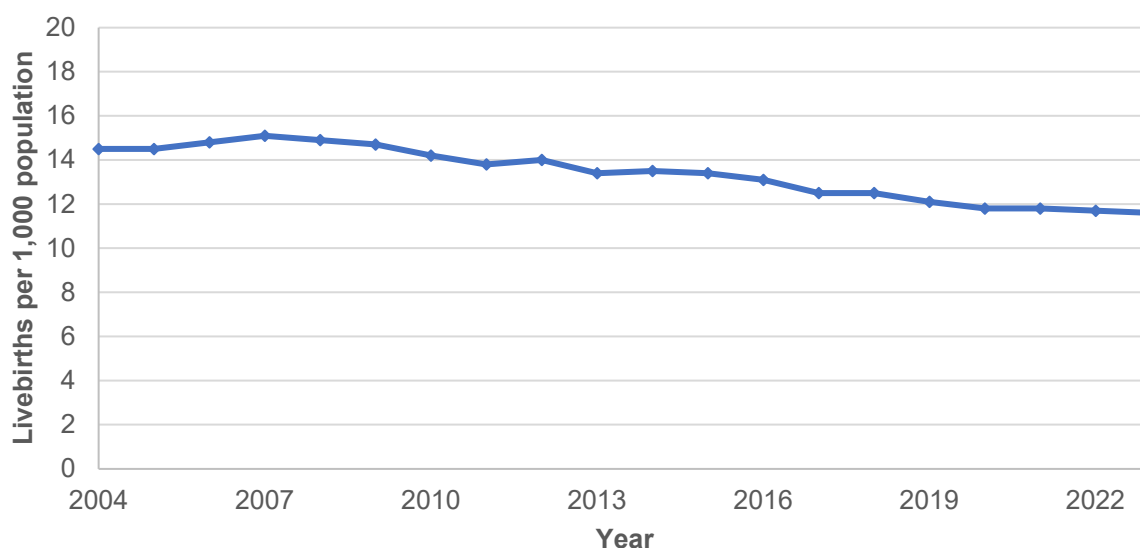
Over the past 20 years (2004-2023), the Kansas birth rate has fluctuated between a peak of 15.1 births per 1,000 population (reported in 2007) and a low of 11.6 births per 1,000 population (reported in 2023) (Figure A). Recent low birth rates continue a sustained decline that began in 2008 (Table C1, Figure C1).

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[4] Calculated percent changes for some age groups in Table B2 may differ slightly from those for the same age groups in Figure B5, since population estimates were rounded to the nearest 1,000 in Table B2, while exact population estimates were used in creating Figure B5.

Population Group Statistics

In 2023, there were 22,963 births to resident White non-Hispanic mothers, a decrease of 2.6 percent from the 23,569 births reported in 2022. The birth rate for White non-Hispanic mothers decreased 1.9 percent, from 10.8 births per 1,000 population in 2022 to 10.6 births per 1,000 population in 2023 (Table A3, Table C20).

There were 6,564 births to Hispanic mothers in 2023, an increase of 4.3 percent from the 6,295 births reported in 2022. The birth rate for Hispanic mothers was 16.3 births per 1,000 population in 2023, down 0.6 percent from 16.4 births per 1,000 population in 2022.

There were 2,174 births to Black non-Hispanic mothers in 2022, a decrease of 0.8 percent from the 2,191 births reported in 2022. The birth rate for Black non-Hispanic mothers was unchanged, at 12.9 births per 1,000 population in both 2022 and 2023 (Table A3, Table C20).

Fertility Rates

The number of Kansas females in the main child-bearing age bracket (ages 15-44) was 572,741 in 2023, up 0.7 percent from 568,540 in 2004. The Kansas fertility rate in 2023 was 59.3 livebirths per 1,000 female population in the 15-44 age bracket, 21.5 percent below the period high (75.5 in 2007), and the lowest rate for the 2004–2023 period (Table C2, Figure C2).

Of the 34,041 resident births in 2023, there were 17,528 males,16,512 females, and one birth for which sex was undetermined, for a natal sex ratio of 106.2 male births to 100.0 female births. In most populations, this ratio is in the range of 104-106, although some populations experience ratios as low as 103 or as high as 107, even in the absence of deliberate sex selection[5] (Table C3).

Low Birth Weight

During 2023, low birth weight (under 2,500 grams) infants accounted for 2,613 or 7.7 percent of births to Kansas resident mothers. Low birth weights were more common for Black non-Hispanic mothers (15.5%) than for White non-Hispanic (6.9%) or Hispanic (7.4%) mothers. High birth weight (4,000 grams and over) infants accounted for 2,806, or 8.2 percent of births to Kansas resident mothers. High birth weights were more common for White non-Hispanic mothers (9.4%) than for Hispanic (6.6%) or Black non-Hispanic (4.0%) mothers (Table C8).

Small for Gestational Age

Infants born at birth weights less than the 10th percentile (lowest 9.9 percent) of all other infants at the same gestational age are considered small for gestational age (SGA). Table C18 uses birth weights from 2023 births for the state of Kansas as a whole as the reference in establishing the cutoff point. The table enables a county to compare its SGA rate to that of the state. While a number of counties have high SGA rates, they are based on a relatively low number of births.

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[5] United Nations Population Fund [Internet] UNFPA Guidance Note on Prenatal Sex Selection, p. 11; [cited 2024 Sep 13]. Available from: https://www.unfpa.org/sites/default/files/resource-pdf/guidenote_pre-natal_sexselection.pdf.

Mother's Age
Of the 34,041 resident births in 2023, 4.6 percent (1,555) were to mothers under the age of 20; 50.8 percent (17,283) were to mothers 20-29 years of age; 41.8 percent (14,230) were to mothers 30-39 years of age; and 2.8 percent (969) were to mothers aged 40 or over (Table C6).

Of the 22,953 resident births to White non-Hispanic mothers, 748 (3.3%) were to mothers under the age of twenty. Of the 2,174 births to Black non-Hispanic mothers, 166 (7.6%) were to mothers under the age of 20. Of the 6,564 births to Hispanic mothers, 545 (8.3%) births were to mothers under the age of 20 (Table A3).

First Trimester Care
Prenatal care data was provided for 33,494 out of 34,041 (98.9%) live births in 2023. Prenatal care began in the first trimester for 27,319 live births (80.7 percent of live births where prenatal care data was available), in the second trimester for 5,006 live births (14.8%), and in the third trimester for 1,169 live births (3.5%). No prenatal care was indicated for 366 live births (1.1%).

White non-Hispanic mothers started prenatal care in the first trimester in 85.7 percent of live births (19,595). Black non-Hispanic mothers started prenatal care in the first trimester in 69.2 percent of live births (1,494). Hispanic mothers started prenatal care in the first trimester in 68.8 percent of live births (4,465) (Table C7).

Prenatal Care Status
Of the 33,820 Kansas resident live births in 2023 for which the adequacy of prenatal care utilization (APNCU) category could be determined, 83.1 percent received adequate or better prenatal care, including 32.2 percent with adequate-plus care. Seventeen percent (16.9) received less than adequate prenatal care, including 11.3 percent with inadequate care (Table C14).

Mother's Weight Gain
Among singleton Kansas live births, 22.6 percent of mothers gained less than the recommended weight during pregnancy, 30.3 percent gained the recommended weight, and 47.1 percent gained more than the recommended amount (Table C19).

Marital Status
During 2023, 12,171 (35.8%) of the 34,041 resident live births in Kansas were to unmarried mothers. There were 6,311 (27.6%) births to unmarried White non-Hispanic mothers; 1,505 (69.2%) to unmarried Black non-Hispanic mothers; and 3,559 (54.2%) to unmarried Hispanic mothers (Table C22).

The percentage of births to unmarried mothers in Kansas in 2023 (35.8%) decreased by 0.6 percent from 36.0 percent in 2022. However, the 2023 percentage rate was 9.8 percent higher than the 2004 rate of 32.6 percent of births to unmarried mothers (Figure C7).

Delivery Method
Vaginal delivery was the most common final route of delivery for Kansas resident live births in 2023 (23,721 live births, or 69.7% of all live births for which the final route of delivery was known). Most vaginal deliveries were "spontaneous," meaning no mechanical procedures like forceps or vacuum extraction were required (23,018 deliveries, or 67.6% of live births for which the final route was stated). Other vaginal deliveries (forceps assisted or vacuum extraction) accounted for 703 live births (2.1%). Cesarean deliveries accounted for 10,316 live births

(30.3%). White non-Hispanic mothers delivered via cesarean section in 6,937 live births (30.2%), Black non-Hispanic mothers in 786 live births (36.2%), and Hispanic mothers in 1,830 live births (27.9%). There were four deliveries for which the final route of delivery was not recorded (Table C9).

Tobacco Use

Tobacco use (cigarette smoking only) at any time during pregnancy was reported for 1,675 births in 2023, amounting to 4.9 percent of births for which tobacco usage was reported. Tobacco use was known for 33,881 of the 34,041 births (99.5%) in 2023.

Cigarette smoking was highest in the three months immediately prior to pregnancy (1,962, or 5.8%) and decreased gradually with each trimester: to 1,647, or 4.9 percent in the first trimester; then to 1,513, or 4.5 percent in the second trimester; and finally to 1,449, or 4.3 percent in the third trimester (Table C17).

Teen Pregnancy

The number of pregnancies is the sum of live births, reported stillbirths, and reported induced abortions. The total number of pregnancies for mothers under 20 years of age in 2022 was 2,041, down 2.6 percent from 2,095 pregnancies in 2022. The pregnancy rate for mothers under 20 years of age in 2023 was 10.2 pregnancies per 1,000 female age-group population, a decrease of 3.8 percent from a rate of 10.6 pregnancies per 1,000 female age-group population in 2022. This was the lowest pregnancy rate for this age-group in the past twenty years (2004–2023), down from a peak of 28.6 pregnancies per 1,000 female age-group population in 2008 (Table C23, Figure C8).

The pregnancy rate for females aged 15-17 years in 2023 was 7.9 per 1,000 female age-group population. The pregnancy rate for females aged 18-19 years in 2023 was 38.1 per 1,000 female age-group population.

The Healthy People 2030 objective is no more than 31.4 pregnancies per 1,000 females 15-19 years of age by 2030 (FP-03). The Kansas pregnancy rate for females aged 15-19 in 2023 of 19.8 pregnancies per 1,000 female age-group population is better than the Healthy People 2030 target.

There were 1,537 births to females aged 15-19 in 2023 (Table C25), for a birth rate of 15.1 per 1,000 female age group population.

Fetal and Infant Mortality

Stillbirths

Reporting standards for stillbirths changed mid-year 2014. During the first half of the year, reporting was mandatory for stillbirths with delivery weight greater than 350 grams. During the second half of the year, reporting was mandatory for stillbirths at 20 weeks or longer clinical estimate of gestation. Thus, rates for 2015 and succeeding years are not strictly comparable to those of previous years. While some physicians still report stillbirths at less than 20 weeks gestation, those events are no longer included in the Annual Summary of Vital Statistics. Multi-year tables with data for 2015 and 2016 have been amended to remove those events.

During 2023, there were 186 stillbirths reported for Kansas resident mothers, a decrease of 8.4 percent from the 203 stillbirths reported in 2022. The stillbirth rate was 5.4 per 1,000 live births and stillbirths, down 8.5 percent from 5.9 per 1,000 live births in 2022 (Tables D1, A3).

Figure B. Stillbirth Rates, Kansas Residents, 2004-2023
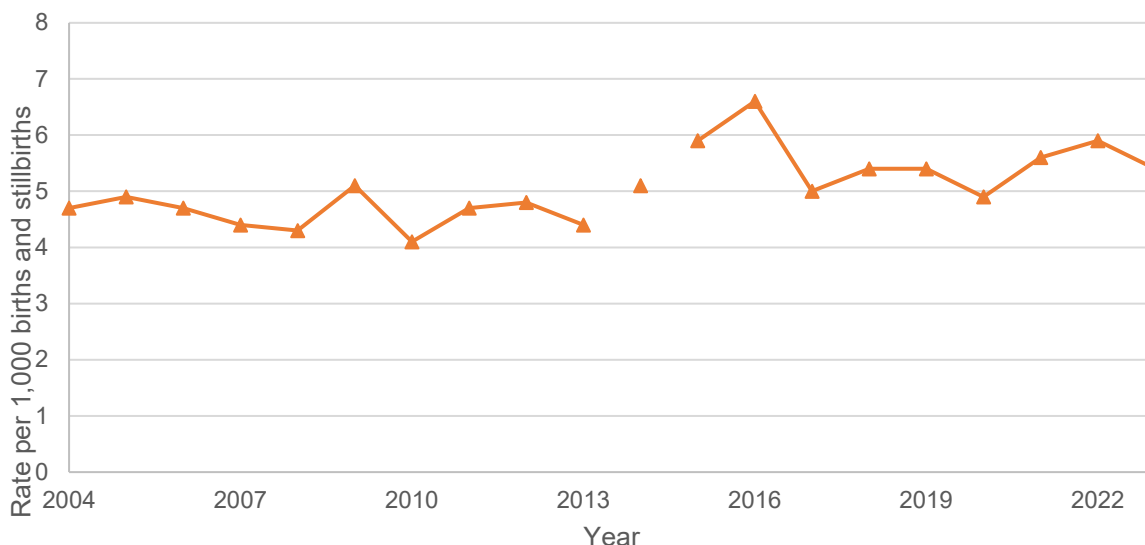
In 2023, the stillbirth rate (per 1,000 live births plus stillbirths) was 4.7 for White non-Hispanics, 10.0 for Black non-Hispanics, and 6.1 for Hispanics (Table A3).

Over the past 20 years (2004-2023), annual stillbirth rates have fluctuated, but Poisson regression (calculated with the Joinpoint program) indicates that the changes have not been statistically significant (p>0.3). For 2004–2012 the general trend was downward, but not statistically significant, and 2015–2023 the trend was downward, but not statistically significant. The trend in the intervening period (2012-2015) is unreliable because of the mid 2014 change in the stillbirth definition (Figure B).

Of all stillbirths in 2023, 87.6 percent (163 out of 186) were attributed to conditions originating in the perinatal period and 8.6 percent (16 out of 186) to congenital anomalies (Table D1).

Abortions
In 2023, there were 4,356 abortions performed on Kansas residents, of which 4,355 were performed in Kansas, and 1 was performed out-of-state. There were also 15,111 abortions performed in Kansas for non-residents (Table D4).

Abortion Ratios
The abortion ratio of 128.0 per 1,000 live births for Kansas residents in 2023 was 14.5 percent higher than an abortion ratio of 111.8 per 1,000 live births in 2022. The abortion ratio declined by 15.2 percent from 2004 to 2023, from a ratio of 151.0 abortions per 1,000 live births in 2004 (Figure C) (Table D3, Figure D2).

Figure C. Abortion Ratios, Kansas Residents, 2004-2023
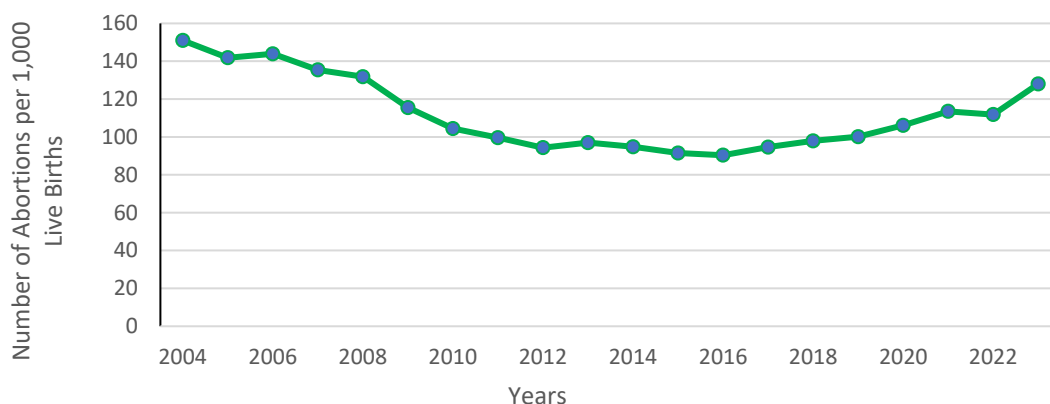
The abortion ratio for Kansas residents in 2023 varied substantially by age-group of the mother. The highest ratio (722.2 per 1,000 live births) was recorded for mothers among women aged 10-14 years of age, while the lowest (75.9 per 1,000 live births) was recorded for mothers 30-34 years of age (Figure D3).

The abortion ratio for White non-Hispanics was 80.5 abortions per 1,000 live births (1,847 resident abortions); for Black non-Hispanics it was 318.3 (692 resident abortions); and for Hispanics it was 196.8 (1,292 resident abortions) (Table C20, Table D5).

Gestation at Termination
In 2023, 69.3 percent of Kansas resident abortions occurred prior to nine completed weeks of gestational age. About 90.9 percent were performed prior to the 13th week of gestation and 3.2 percent of Kansas resident women obtained an abortion after 16 weeks gestation. (Table D5). No terminations after 22 weeks gestation were reported.

Marital Status
About 85.9 percent all reported abortions in 2023 were to unmarried women. Among Black non-Hispanic women in this group, 93.0 percent were unmarried, while 83.8 percent of White non-Hispanic women and 86.7 percent of Hispanic women were unmarried (Table D6).

Infant Mortality
There were 182 infant deaths to Kansas residents in 2023, a decrease of 9.0 percent from 200 infant deaths in 2022 (Table D14). The number of infant deaths in 2023 was also less than the average number of infant deaths in the previous four years (199).

The Healthy People 2030 target for infant mortality (MICH-02) is no more than 5.0 infant deaths per 1,000 live births per year by 2030. The infant mortality rate for Kansas residents in 2023 was 5.3 infant deaths per 1,000 live births, a decrease of 8.6 percent from 5.8 infant deaths per 1,000 live births in 2022 (Table D12).

The rate for White non-Hispanic mothers in 2023 was 4.1 deaths per 1,000 live births, a decrease of 12.8 percent from the rate of 4.7 in 2022. The rate for Black non-Hispanic mothers was 10.6 deaths per 1,000 live births, an increase of 16.5 percent from the rate of 9.1 in 2022. The rate for Hispanic mothers was 5.6 deaths per 1,000 live births, a decrease of 29.1 percent

from the rate of 7.9 in 2022. Caution should be used in interpreting these changes due to the relatively small number of occurrences and yearly fluctuations (Tables D12, A3).

Figure D. Infant Death Rates for Selected Population Groups, Kansas Residents, 2004-2023
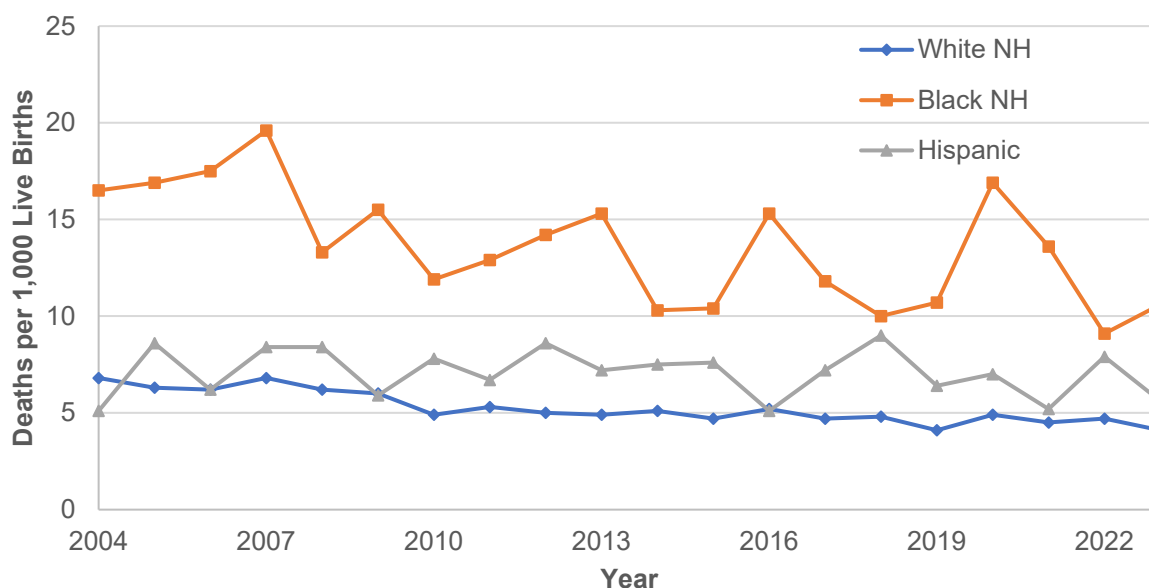
Infant death rates for Black non-Hispanic mothers have consistently remained higher than those of White non-Hispanic and Hispanic mothers for the past twenty years (2004-2023). Rates for Hispanic mothers have been higher than those for White non-Hispanic mothers in most years in the period (Figure D).

Infant Age at Death
Most Kansas infant deaths occurred within the first month of life. In 2023, 42.3 percent of all infant deaths occurred in the first day of life, 50.5 percent occurred within the first seven days of life (the hebdomadal period), and 65.4 percent occurred within the first 28 days of life (the neonatal period) (Table D13).

The components of perinatal period III mortality (see definition in Technical Notes) both decreased from 2022 to 2023: stillbirths decreased by 8.4 percent, while hebdomadal deaths decreased by 14.8 percent. There were 278 perinatal period III deaths in 2023, for a death rate of 8.2 deaths per 1,000 live births plus stillbirths, a decrease of 1.2 percent from the 2004 rate of 8.3 (Table D10).

Of all infant deaths in 2023, 49.5 percent were attributed to conditions originating in the perinatal period, 15.4 percent to congenital anomalies, 3.3 percent to sudden infant death syndrome (SIDS), and 31.9 percent to all other causes (Table D13).

Maternal Mortality
In 2023, there were four maternal deaths, a decrease from 2022, when there were nine maternal deaths (Figure D8).

General Mortality

There were 28,869 Kansas resident deaths recorded in 2023, a decrease of 7.3 percent from the 31,152 deaths recorded in 2022. The 2023 death count remains higher than the 27,312 deaths recorded in 2019. The Kansas crude death rate in 2023 was 981.8 deaths per 100,000 population (Tables E1, Figure E1).

The Kansas age-adjusted death rate (see Technical Notes for a discussion of age-adjusted rates) for 2023 was 802.0 deaths per 100,000 standard U.S. 2000 population, down 7.0 percent from 862.2 in 2022. The age-adjusted death rate for males (941.0) was 38.2 percent higher than that for females (681.0) (Table E3).

The Kansas age-adjusted death rate in 2023 was lower than in 2020–2022 but was still greater than rates seen before the start of the Coronavirus 2019 pandemic (Figure E, Figure E2, Table E3). Deaths with Coronavirus 2019 as the underlying cause of death were responsible for much of the decrease but decreases in death rates due to heart disease and unintentional injuries also contributed (Table E8).

Figure E. Age-Adjusted Death Rates, Kansas Residents, 2004-2023
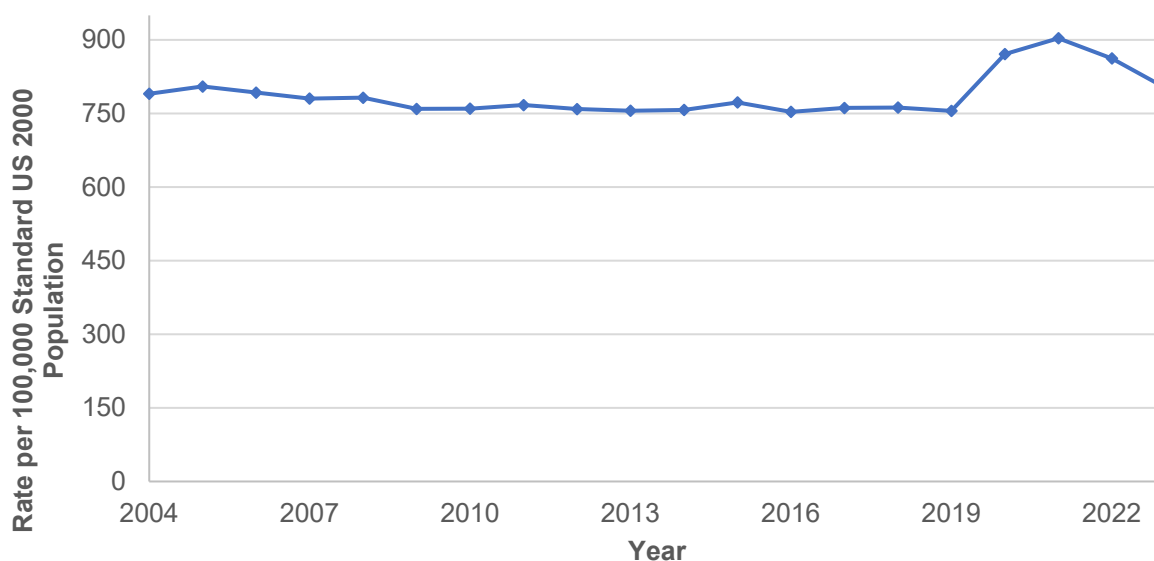
In compliance with 2023 Senate Bill 180 (SB180), the sex provided on the death records of 13 Kansas resident decedents was changed for the purposes of this report to match the sex reported on their birth records.

SB180 requires that "any state agency, department or office or political subdivision that collects vital statistics for the purpose of complying with anti-discrimination laws or for the purpose of gathering accurate public health, crime, economic or other data shall identify each individual who is part of the collected data set as either male or female at birth."

Process. The Office of Vital Statistics (OVS) data management system routinely attempts to link the death records of Kansas residents to Kansas birth records. However, OVS does not have access to the birth records of individuals who were not born in Kansas.

For all linked records, sex in the death record was compared to sex in the birth record. For records that had a mismatch, OVS staff compared the stored image of the original birth certificate and found records where the sex on the paper original did not match the sex in the electronic database. In those cases, the database was updated with the correct information from the paper original, leaving 13 mismatches to be recoded for this report.

Age at Death

The average age at death of Kansas residents in 2023 was 73.9 years, an increase of 0.5 percent from 73.5 in 2023 (Table E4).

Average age at death varied by sex and population group. In 2023, males died on average 6.3 years younger than females (70.5 versus 76.8 years). The average age at death for the White non-Hispanic population was 75.6 years, 11.3 years higher than that of the Black non-Hispanic population (64.3 years), and 16.0 years higher than that of the Hispanic population (59.6 years) (Table E4).

Nearly 60 percent (59.9) of White non-Hispanic Kansas residents who died in 2023 were 75 years of age or older, while only 33.8 percent of deceased Black non-Hispanic residents and 32.1 percent of deceased Hispanic residents had reached the age of 75 (Table E4).

Leading Causes of Death

The most notable change in the leading causes of death in 2023 was the fall of Coronavirus 2019 from the 4th leading cause of death in 2022 to the 11th leading cause in 2023. Heart disease, cancer, and unintentional injuries were still the 1st, 2nd, and 3rd leading causes of death, but the 5th through 11th leading causes of death in 2022 all moved higher in 2023. Chronic lower respiratory diseases were the 4th leading cause in 2023, followed by cerebrovascular disease (5th), diabetes mellitus (6th), and Alzheimer's disease (7th). Suicide (8th) and nephritis, nephrotic syndrome and nephrosis (9th) changed order from the 2022 ranking. The incidence of pneumonia and influenza rose, but it was still out of the list of 10 leading causes of death for the third consecutive year (Table E8).

The 10 leading causes of death accounted for 68.1 percent of all Kansas resident deaths in 2023. Age-adjusted rate changes from 2022 to 2023 were not statistically significant for eight of the ten leading causes of death, as indicated by overlapping 95% confidence intervals. The decreases in age-adjusted rate for Coronavirus 2019 (from 54.8 to 13.2 deaths per 100,000 population) and unintentional injuries (from 64.2 to 57.9 deaths per 100,000 population) were statistically significant.

Historical cause-specific (crude) death rates over the past twenty years illustrate the convergence of heart disease and malignant neoplasms (cancer) mortality (Figure F). Mortality due to both diseases declined over the period 2004-2012, but heart disease death rates declined much more rapidly than cancer death rates. For the period 2012-2021, heart disease death rates gradually increased, while cancer death rates gradually decreased. In 2023, the heart disease death rate decreased to 208.2 deaths per 100,000 population, from 217.0 deaths per 100,000 population in 2022, while the cancer death rate increased to 186.6 deaths per 1000,000 population, from 184.8 per 100,000 population in 2022 (Table E8, Figure E3).

Figure F. Cause Specific Death Rates of Two Leading Causes, Kansas Residents, 2004-2023
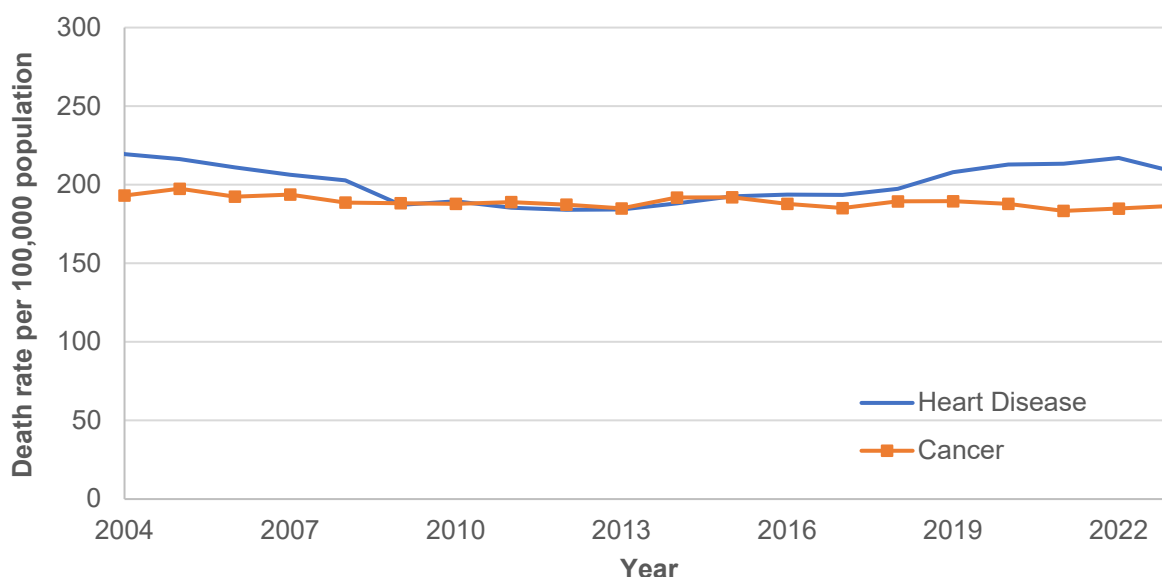
Age at Death for Leading Causes

For any given cause of death, there can be wide variations in average age of death by sex of decedent. Males and females who died from malignant neoplasms died at about the same average ages (72.6 and 72.4 years, respectively), but males who died from heart disease did so at younger average ages than did females (75.5 and 81.6 years, respectively). Males dying from chronic lower respiratory disease were about the same average age as females dying of that cause (76.7 and 77.6 years, respectively), but males dying of cerebrovascular disease were about five years younger (on average) than females dying of the same cause (75.9 and 80.5 years, respectively). Males who died from suicide were on average about the same age as females who died of that cause (44.1 and 44.4 years, respectively), but males died from unintentional injuries at much younger average ages than females (53.8 and 60.3 years, respectively). Alzheimer's disease killed at the highest average ages for both males and females (83.9 and 86.4 years respectively) (Table E7).

The leading causes of death also varied by age-group. In 2023, the leading cause of death for infants (up to one year of age) was congenital anomalies. For age-groups 1-4, 5-14, 15-24, and 25-44 the leading cause of death was unintentional injuries. For age-groups 45-64 and 65-84 the leading cause of death was cancer, and for ages 85 and above the leading cause of death was heart disease (Figure E4). The leading cause of death for each age-group was unchanged from 2022.

For the 15-24 age-group, unintentional injuries were followed by suicide and homicide as leading causes of death. These three causes accounted for 81.5 percent of deaths in this age-group. For the 25-44 age-group, unintentional injuries were followed by suicide as leading causes of death. (Homicide was not one of the top 5 leading causes of death for this age-group.) These two causes accounted for 45.4 percent of deaths in this age-group (Table E6).

Infectious Disease
Despite falling out of the top ten leading causes of death in 2023, Coronavirus 2019 (also known as COVID-19 and SARS-CoV-2) remained the cause of more deaths of Kansas residents in 2023 than any other infectious disease. It was the underlying cause of death for 483 Kansas residents, making it the 11th leading cause of death for the year, with a crude death rate of 16.4 deaths per 100,000 population and an age-adjusted rate of 13.2 deaths per 100,000 population (Table E8).

Coronavirus 2019 was the underlying cause of death for 253 male (age-adjusted rate 16.4 deaths per 100,000 group population) and 230 female (age-adjusted rate 11.1 deaths per 100,000 group population) Kansans in 2023. The difference in age-adjusted death rates was statistically significant (confidence intervals did not overlap) (Table E37).

The strongest impact of Coronavirus 2019 fell on the oldest Kansas residents. For those aged 85 and above the age-specific death rate was 342.4 deaths per 100,000 age-group population (197 deaths). For those 75-84 years of age the age-specific death rate was 89.4 deaths per 100,000 age-group population (137 deaths). For those 65-74 years of age the age-specific death rate was 29.1 deaths per 100,000 age-group population (88 deaths). For those 45-64 years of age the age-specific death rate was 6.6 deaths per 100,000 age-group population (45 deaths). For those 15-44 years of age the age-specific death rate was 0.9 deaths per 100,000 age-group population (11 deaths). For those under 15 years of age the age-specific death rate was 0.9 deaths per 100,000 age-group population (5 deaths).

Age-adjusted death rates were lowest for non-Hispanic Asians/Pacific Islanders (4 deaths, age-adjusted rate 6.9 deaths per 100,000 group population), followed by that for non-Hispanic Blacks (15 deaths, age-adjusted rate 10.0 deaths per 100,000 group population), and Hispanics (17 deaths, age-adjusted rate 10.2 deaths per 100,000 group population). Age-adjusted rates were higher for non-Hispanic Whites (434 deaths, age-adjusted rate 13.5 deaths per 100,000 group population), non-Hispanic of other and multiple races (7 deaths, age-adjusted rate 21.3 deaths per 100,000 population), and non-Hispanic Native Americans (6 deaths, age-adjusted rate 36.9 deaths per 100,000 group population) (Table E37). The differences between the age-adjusted rates for population groups with lower rates and those with higher rates are not statistically significant, since confidence intervals for any population group overlapped those for any other population group.

The risk factors[6] that occurred most frequently as contributing causes of death in Coronavirus 2019 deaths of Kansas residents in 2023 were heart disease (161 deaths), chronic lower respiratory disease (73 deaths), substance abuse disorders (69 deaths), and nephritis, nephrosis and nephrotic syndrome (61 deaths). Contributing causes of death are not mutually exclusive: the same individual can have multiple contributing causes of death (Table E38).

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[6] The Centers for Disease Control and Prevention (CDC) have posted a discussion of underlying medical conditions associated with higher risk for severe Coronavirus 2019 at https://www.cdc.gov/corona-virus/2019-ncov/hcp/clinical-care/underlyingconditions.html. It is a summary of a more technical article, Kompaniyets L, Pennington AF, Goodman AB, Rosenblum HG, Belay B, Ko JY, et al. Underlying Medical Conditions and Severe Illness Among 540,667 Adults Hospitalized With COVID-19, March 2020–March 2021. To learn more, visit the Preventing Chronic Disease article: https://www.cdc.gov/pcd/is-sues/2021/21_0123.htm. The ICD-10 codes listed in the original article were ICD-10CM (clinical codes), not ICD-10 (mortality codes), and so could be matched only approximately in this analysis.

Four hundred fourteen (414) Kansas residents died of pneumonia and influenza in 2023, for an age-adjusted death rate of 11.3 per 100,000 population (Table E9). Since 2004, the yearly count of resident pneumonia and influenza deaths has varied from a high of 740 in 2008 to a low of 395 in 2021. The age-adjusted pneumonia and influenza death rate in the period has varied from a high of 22.4 in 2005 to a low of 11.1 deaths per 100,000 population in 2021. The 11.3 deaths per 100,000 population in 2023 was the second lowest rate in the period. These numbers are not strictly comparable to the influenza and pneumonia statistics posted on the KDHE website, as they are based on a calendar year, while the latter are based on a September-May flu season. Furthermore, the rates reported on the KDHE website are crude rates, while the rates reported here are age-adjusted rates.

Twenty-one (21) Kansas residents died of HIV/AIDS in 2023, for an age-adjusted death rate of 0.7 per 100,000 population (Table E6).

Cancer

The Healthy People 2030 target for cancer deaths (C-01) is an age-adjusted rate of no more than 122.7 deaths per 100,000 population. Cancer was responsible for 5,487 Kansas resident deaths in 2023, for an age-adjusted death rate of 147.1 per 100,000 population, which does not meet the target rate (Table E8).

Ischemic Heart Disease

Ischemic heart disease was responsible for 3,199 Kansas resident deaths in 2023, for an age-adjusted death rate of 86.5 per 100,000 population[7] (Table E10).

Cerebrovascular Disease

Kansas age-adjusted death rates from cerebrovascular disease increased to 35.9 per 100,000 population in 2023, up 2.0 percent from a rate of 35.2 per 100,000 population in 2022. Since 2004, crude death rates due to cerebrovascular disease have declined by 23.6 percent (Table E8, Figure E3).

Healthy People 2030 uses the word "stroke" to include all the ICD-10 codes included in this report in the cerebrovascular disease category. The Healthy People 2030 target for stroke (HDS-03) is to reduce deaths to no more than 33.4 deaths per 100,000 population. Kansas did not meet this target in 2023.

External Causes

In 2023, the age-adjusted unintentional injury death rate was 57.9 deaths per 100,000 population, a decrease of 9.8 percent from the rate of 64.2 in 2022. The 2022 crude death rate was the third highest unintentional injury death rate in the past twenty years (Table E8, Figure E3). This does not meet the Healthy People 2030 goal of no more than 43.2 deaths per 100,000 population (IVP-03).

Motor-vehicle injuries resulted in 403 deaths in 2023 (381 traffic and 22 non-traffic), accounting for 22.0 percent of 1,830 unintentional injury deaths (Table E13). This was a decrease of 10.8 percent from 452 motor-vehicle injury deaths in 2022. The Healthy People 2030 target (IVP-06) is no more than 10.1 motor-vehicle traffic injury deaths per 100,000 population (age-adjusted).

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[7] Age-adjusted rates for deaths due to ischemic heart disease were calculated from data presented in Table E10.

The Kansas motor-vehicle traffic injury death rate in 2023 was 13.0 deaths per 100,000 population (age-adjusted),[8] which does not meet the Healthy People 2030 target.

Unintentional falls were responsible for 475 Kansas resident deaths in 2023 for an age-adjusted death rate of 13.2 per 100,000 population. The age-specific rate for adults 65 years of age and older was 79.7 deaths per 100,000 age-group population. The Healthy People 2030 target for fall related deaths for this age-group (IVP-08) is 63.4 per 100,000 age-group population.

Kansas recorded 559 resident suicide deaths in 2023, down 5.4 percent from 591 suicide deaths in 2022. The suicide age-adjusted death rate decreased from 20.3 deaths per 100,000 population in 2022 to 19.2 deaths per 100,000 population in 2023. However, the single-year change in rate was not statistically significant (confidence intervals for the rates for 2022 and 2023 overlap), and the 2023 suicide rate was the second highest in the last twenty years (Tables E8, E31).

Nearly four-fifths (78.7%) of suicide victims were male. The three age groups with the largest number of suicides were 25-34 (114 deaths), 35-44 (99 deaths), and 45-54 (99 deaths). The three most common methods of suicide were firearms (316 deaths), suffocation (142 deaths), and poisoning (71 deaths) (Tables E14, E22).

Kansas recorded 182 resident homicide deaths in 2023, 13.8 percent higher than the 160 homicide deaths in 2022. The homicide age-adjusted death rate increased by 12.3 percent, from 5.7 deaths per 100,000 population in 2022 to 6.4 deaths per 100,000 population in 2023. The single-year change in rate was not statistically significant (confidence intervals overlap). Most homicides (137, or 75.3% of homicides where the method was known) were committed using firearms (Tables E8, E14, E31).

Drugs were the underlying cause of death for 579 Kansas residents in 2023, down from 682 in 2022 (Table E33). The increase is statistically significant, as the associated age-adjusted death rates (20.3 deaths per 100,000 population in 2023 and 24.0 deaths per 100,000 population in 2022) do not have overlapping confidence intervals. This is still the third highest number of drug deaths in the last twenty years (2004-2023). It includes unintentional deaths and deaths of undetermined intent but excludes suicides and homicides using drugs. There were large decreases in deaths involving opioids (from 473 in 2022 to 394 in 2023), in deaths involving psychostimulants (the category that includes methamphetamine; from 316 in 2022 to 256 in 2023), and in deaths involving cocaine (from 85 in 2022 to 74 in 2023). Accurate counts of deaths due to specific drugs in 2023 were at least partly due to ongoing efforts by Office of Vital Statistics staff, who contacted physicians to get a more specific diagnosis when the initial report was generic (as in "drug overdose" or "poly-pharmacy").

YPLL 75 Statistics
Mortality in Kansas was responsible for 207,544 years of potential life lost before age 75 in 2023 (see Technical Notes – Years of Potential Life Lost). Unintentional injury, cancer, and heart disease accounted for the most years of potential life lost (40,146, 34,050, and 26,619 years lost, respectively). Coronavirus 2019 was responsible for 2,010 years of life lost before age 75. It was the 11th leading cause of death, and also the 11th leading cause of years of life lost before the age of 75. Men lost almost twice the potential years of life to unintentional injuries than did women (26,752 years and 13,394 years, respectively) (Table E20).

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[8] Age-adjusted rates for deaths due to unintentional motor vehicle accidents and unintentional falls were calculated from data presented in Table E13.

Tobacco and Mortality

Tobacco use contributed to 4,395 deaths in Kansas in 2023 (21.6 percent of the deaths where the tobacco contribution was known and reported in the death record). Tobacco use was a contributing factor in 25.9 percent of male deaths, and in 17.2 percent of female deaths. The causes of death showing the largest tobacco contribution were cancer of the trachea, bronchus and lung (85.0%), chronic lower respiratory disease (82.6%), atherosclerosis (52.1%), ischemic heart disease (30.6%), and cancer of urinary tract (29.5%) (Table E21). Physicians and coroners state in the death record whether tobacco contributed to the death.

Marriages and Marriage Dissolutions

Marriages

In 2023, 15,526 marriages occurred in Kansas, a decrease of 3.6 percent from the 2022 total of 16,090 marriages (Table F1).

Figure G. Marriage Rates, Kansas and the U.S., 2004-2023
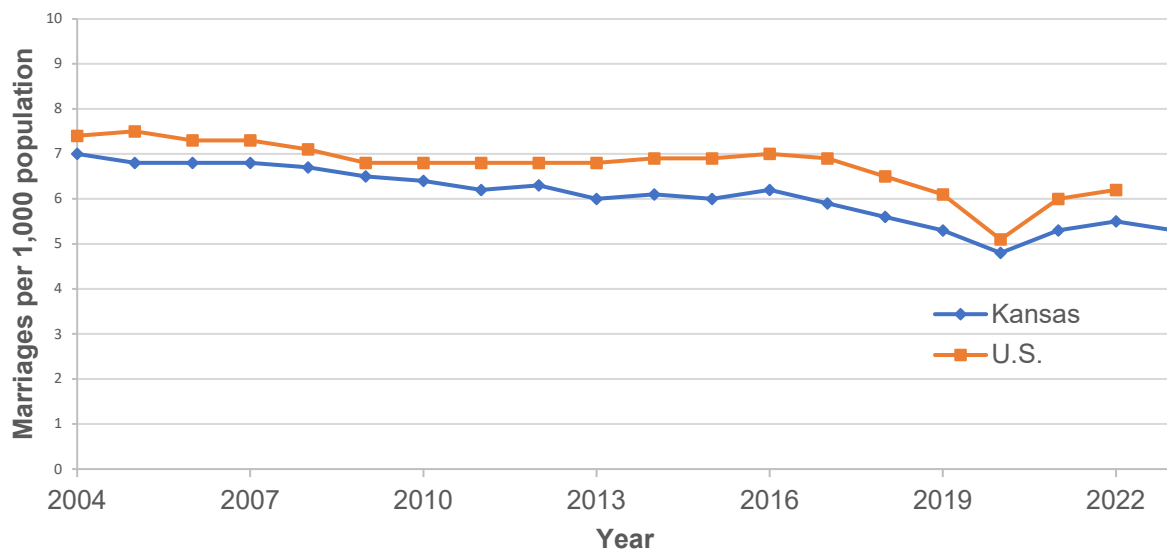
The Kansas marriage rate in 2023 was 5.3 marriages per 1,000 population (Table F1, Figure F1). This rate was 3.8 percent lower than the 5.5 percent rate recorded in 2022 (Figure G). For the entire period, Kansas marriage rates have been lower than U.S. marriage rates. U.S. rates for 2023 have not been released at the time this summary was written.

Marriage Characteristics

First-time marriages have made up more than half of the marriages in Kansas in every year beginning with 1999. In 2023, 60.5 percent of all marriages involved first-time partners (Table F4).

More marriages occurred in October (13.2%, a decrease from 14.5% in 2022) than in any other month in 2023 (Figure F3). This is the fourth consecutive year in which October weddings were more common than June weddings.

Age at Marriage

Kansas couples are delaying marriage. In 2004, 8.9 percent of the brides and 3.4 percent of the grooms were under 20 years of age. In 2023, however, only 3.0 percent of the brides and 0.9 percent of the grooms were under 20 (Table F5).

The average age of all brides in 2023 was 32.4 years and that of grooms was 34.2 years. Women marrying for the first time averaged 27.6 years while first time grooms averaged 29.2 years. Of those persons who remarried in 2023, women were, on average, 43.5 years old and men were 46.4 years of age (Figure F4).

Marriage Dissolutions

In 2023, 4,606 marriage dissolutions (4,546 divorces and 60 annulments) occurred in Kansas, a decrease of 7.0 percent from the 2022 total of 4,954 (Table F1, Table F7).

Figure H. Marriage Dissolution Rates, Kansas and the U.S., 2003-2022
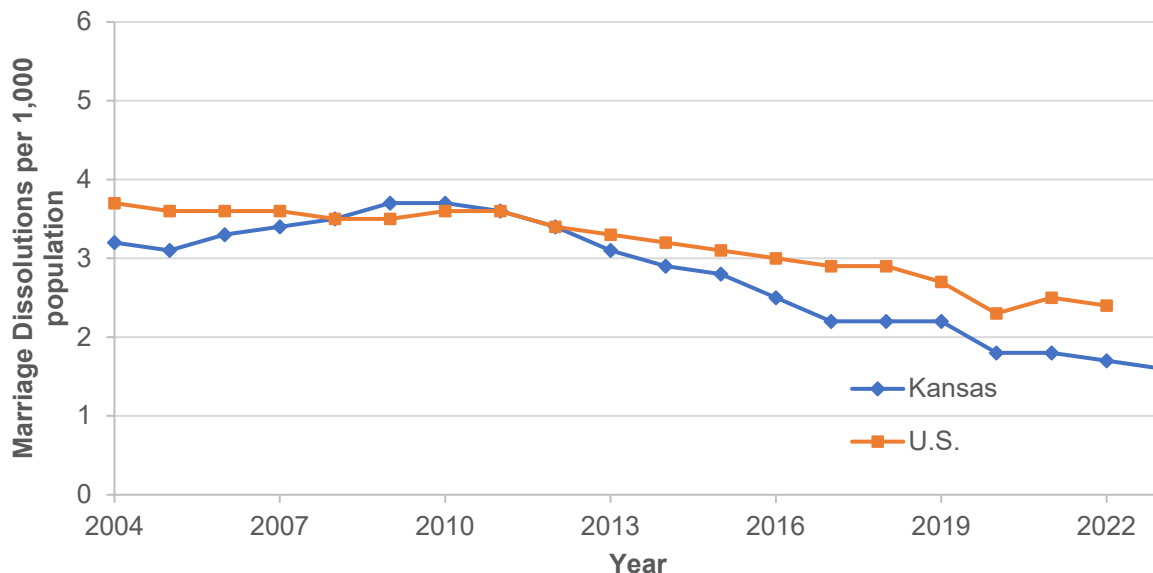
The Kansas marriage dissolution rate in 2023 was 1.6 per 1,000 population, which was 50.0 percent lower than the 2004 rate of 3.2 (Table F1, Figure F2). Since 2013, the state rate has been consistently lower than the national rate (Figure H). U.S. rates for 2023 have not been released at the time this summary was written.

The ratio of marriages to marriage dissolutions in Kansas in 2023 was 3.4:1 (Table F1).

Age at Marriage Dissolution

The most common age-group of husbands involved in marriage dissolutions in 2023 was 35-39; the most common age-group of wives involved in marriage dissolutions was 30-34. For couples of the same age-group, the most common age-group was 30-34 (Table F6).

The average age of both parties involved in marriage dissolutions has risen gradually over the past twenty years (2004-2023). The average age at marriage dissolution in 2023 was 40.2 years for wives and 42.2 years for husbands, as compared to 36.4 years for wives and 38.7 years for husbands in 2004 (Figure F5).

Marriage Dissolution Characteristics

In 2023, 28.7 percent of marriages ending in divorce or annulment lasted four years or less (Table F7).

There were 3,853 minor children affected by marriage dissolutions in 2023. At least one minor child was reported to be involved in almost half (44.6%) of the marriage dissolutions (Table F8, Figure F6).

A. VITAL EVENTS

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Table A1
Selected Vital Events and Percent Change
Kansas, 2023, 2022 and 2004

Vital Event	2023	2022	Percent Change 2022-2023	2004	Percent Change 2004-2023
Live Births	34,041	34,389	-1.0	39,553	-13.9
Births to Unwed Mothers	12,171	12,374	-1.6	12,897	-5.6
Stillbirths	186	203	-8.4	186	0.0
Hebdomadal Deaths	92	108	-14.8	144	-36.1
Perinatal Period III Deaths	278	311	-10.6	330	-15.8
Neonatal Deaths	119	127	-6.3	176	-32.4
Infant Deaths	182	200	-9.0	284	-35.9
Maternal Deaths	4	9	-55.6	2	100.0
Deaths	28,869	31,152	-7.3	23,720	21.7
Marriages	15,626	16,090	-2.9	19,174	-18.5
Marriage Dissolutions	4,606	4,954	-7.0	8,759	-47.4
Abortions	4,356	3,844	13.3	5,971	-27.0

Residence data are presented for births, deaths and abortions
Occurrence data are presented for marriages and marriage dissolutions

Figure A1. EVERY DAY DURING 2023*

Each day Kansas residents experienced approximately

93 Live births
   33 Births to unwed mothers
    4 Live births to teenagers
    7 Low birthweight live births
   <1 Infant death

79 Deaths
   17 Heart disease
   15 Cancer
    5 Unintentional injuries
    4 Chronic lower respiratory disease
    4 Cerebrovascular disease
    2 Diabetes
    2 Alzheimer's disease
    2 Nephritis, nephrotic syndrome, nephrosis
    2 Suicide
    1 Pneumonia & influenza
    1 Coronavirus 2019

Each day in Kansas there occurred approximately

43 Marriages
13 Marriage dissolutions
53 Abortions

* based on 365 days in 2023

Figure A2. Kansas Vital Statistics for 2023

Deaths*
Total 28,869

Cerebrovasc. Dis.
1,313

Heart Disease
6,121

Chronic Lower Resp.
1,564

Unintent. Injuries
1,830

Cancer   5,487

Other Causes
12,554

Deaths by Age-Group*
(Years) (1 N.S.)

<1
182

1-24
469

25-44
1,391

45-54
1,361

55-64
3,294

65-74
5,840

≥75
16,331

Pregnancy Outcomes*

Stillbirth
186

Abortions
4,256

Live Births
34,041
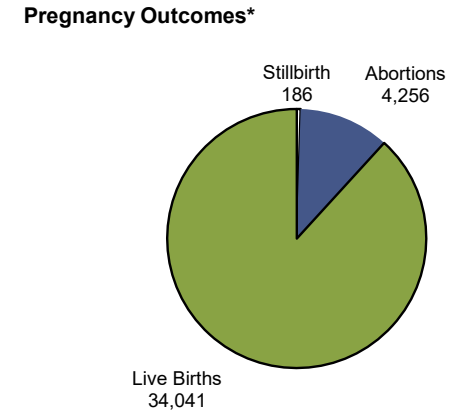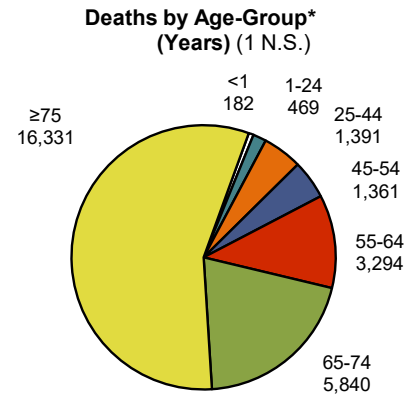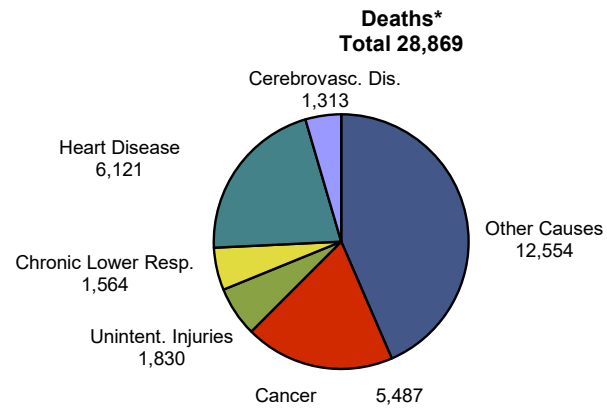
Marriages† by Marriage Order
Total 15,626
(41 N.S.)

Remarriage for
Both   3,012

First for Groom
Bride Prev. Marr.
1,693

First for Bride
Groom Prev. Marr.
1,458

First Marriage for
Both   9,422

2,940,546
Kansans
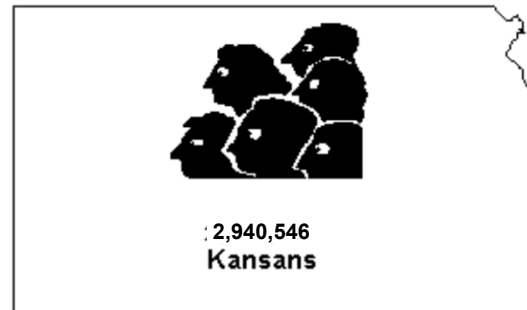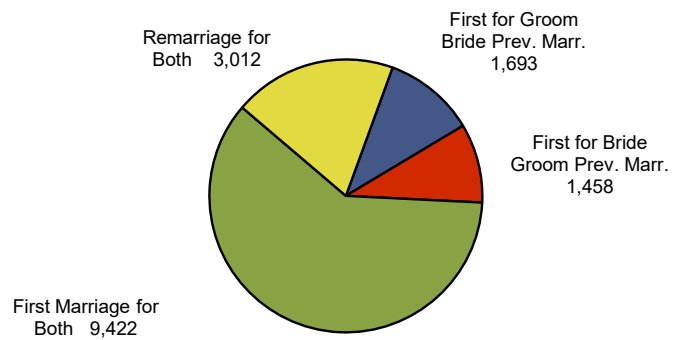
Marriage Dissolutions†
By Duration of Marriage
Total 4,606
(202 N.S.)

<1 Year
132

>5 Years
2,836

1-5 Years
1,436
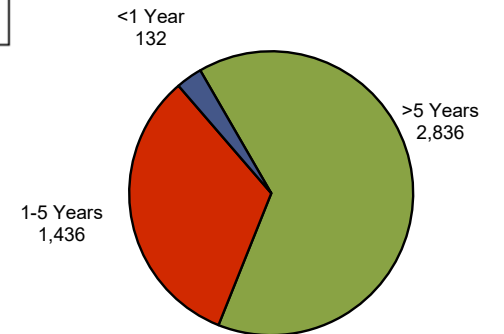
* Residence Data
† Occurrence Data

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Table A2
Selected Vital Event Percents, Rates, and Ratios
Kansas, 2004-2023

Vital Event	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Live Births																				
Number	39,553	39,701	40,896	41,951	41,815	41,388	40,439	39,628	40,304	38,805	39,193	39,126	38,048	36,464	36,268	35,395	34,368	34,697	34,389	34,041
Rate*	14.5	14.5	14.8	15.1	14.9	14.7	14.2	13.8	14.0	13.4	13.5	13.4	13.1	12.5	12.5	12.1	11.8	11.8	11.7	11.6
Out-of-Wedlock Births																				
Number	12,897	13,492	14,376	15,252	15,754	15,572	15,241	14,749	14,805	14,053	14,285	14,108	13,705	12,990	13,181	12,883	12,659	12,440	12,374	12,171
Percent†	32.6	34.0	35.2	36.4	37.7	37.6	37.7	37.2	36.7	36.2	36.4	36.1	36.0	35.6	36.4	36.4	36.9	35.9	36.0	35.8
Stillbirths																				
Number	186	194	192	186	182	213	168	188	195	173	199	233	252	184	196	192	169	194	203	186
Rate‡	4.7	4.9	4.7	4.4	4.3	5.1	4.1	4.7	4.8	4.4	5.1	5.9	6.6	5.0	5.4	5.4	4.9	5.6	5.9	5.4
Hebdomadal Deaths																				
Number	144	153	137	163	160	144	143	121	142	140	138	132	119	128	136	101	116	87	108	92
Rate§	3.6	3.9	3.3	3.9	3.8	3.5	3.5	3.1	3.5	3.6	3.5	3.4	3.1	3.5	3.7	2.9	3.4	2.5	3.1	2.7
Perinatal Period III Deaths																				
Number	330	347	329	349	342	357	311	309	337	313	337	365	371	312	332	293	285	281	311	278
Rate‡	8.3	8.7	8.0	8.3	8.1	8.6	7.7	7.8	8.3	8.0	8.6	9.3	9.7	8.5	9.1	8.2	8.3	8.1	9.0	8.1
Neonatal Deaths																				
Number	176	196	176	211	193	176	170	157	173	166	175	160	145	154	162	118	148	106	127	119
Rate§	4.4	4.9	4.3	5.0	4.6	4.3	4.2	4.0	4.3	4.3	4.5	4.1	3.8	4.2	4.5	3.3	4.3	3.1	3.7	3.5
Infant Deaths																				
Number	284	297	293	333	303	290	253	247	254	248	246	230	223	217	231	189	224	184	200	182
Rate§	7.2	7.5	7.2	7.9	7.2	7.0	6.3	6.2	6.3	6.4	6.3	5.9	5.9	6.0	6.4	5.3	6.5	5.3	5.8	5.3
Maternal Deaths ¶																				
Number	2	6	4	3	7	8	7	4	4	10	5	5	8	8	5	7	5	8	9	4
Rate#	5.1	15.1	9.8	7.2	16.7	19.3	17.3	10.1	9.9	25.8	12.8	12.8	21.0	21.9	13.8	19.8	14.5	23.1	26.2	11.8
Deaths																				
Number	23,720	24,632	24,489	24,413	24,896	23,997	24,428	25,114	25,084	25,347	25,731	26,611	26,129	26,725	27,213	27,312	31,667	31,637	31,152	28,869
Rate**	867.1	897.4	886.0	879.4	888.5	851.3	856.2	874.6	869.2	875.9	886.0	914.0	898.7	917.4	934.7	937.5	1,086.8	1,078.1	1,060.6	981.8
Marriages																				
Number	19,174	18,745	18,836	18,910	18,717	18,268	18,150	17,897	18,154	17,328	17,655	17,595	17,948	17,274	16,362	15,403	14,038	15,656	16,090	15,626
Rate*	7.0	6.8	6.8	6.8	6.7	6.5	6.4	6.2	6.3	6.0	6.1	6.0	6.2	5.9	5.6	5.3	4.8	5.3	5.5	5.3
Marriage Dissolutions																				
Number	8,759	8,476	8,145	9,347	9,818	10,333	10,579	10,445	9,782	9,085	8,441	8,036	7,198	6,494	6,538	6,398	5,169	5,368	4,954	4,606
Rate*	3.2	3.1	3.3	3.4	3.5	3.7	3.7	3.6	3.4	3.1	2.9	2.8	2.5	2.2	2.2	2.2	1.8	1.8	1.7	1.6
Abortions																				
Number	5,971	5,629	5,886	5,679	5,512	4,780	4,223	3,946	3,802	3,763	3,716	3,579	3,439	3,450	3,550	3,543	3,645	3,937	3,844	4,356
Ratio§	151.0	141.8	143.9	135.4	131.8	115.5	104.4	99.6	94.3	97.0	94.8	91.5	90.4	94.6	97.9	100.1	106.1	113.5	111.8	128.0

Residence data are presented for births, deaths, abortions
Occurrence data are presented for marriages and marriage dissolutions
* Per 1,000 total population
† Per 100 live births
‡ Per 1,000 (live births + still births)
§ Per 1,000 live births
¶ See Technical Notes for Information on updated definition of Maternal Mortality
# Per 100,000 live births
** Per 100,000 population

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Figure A3. Selected Vital Event Rates
Kansas, 2004-2023

Birth and Death Rates
Kansas, 2004-2023
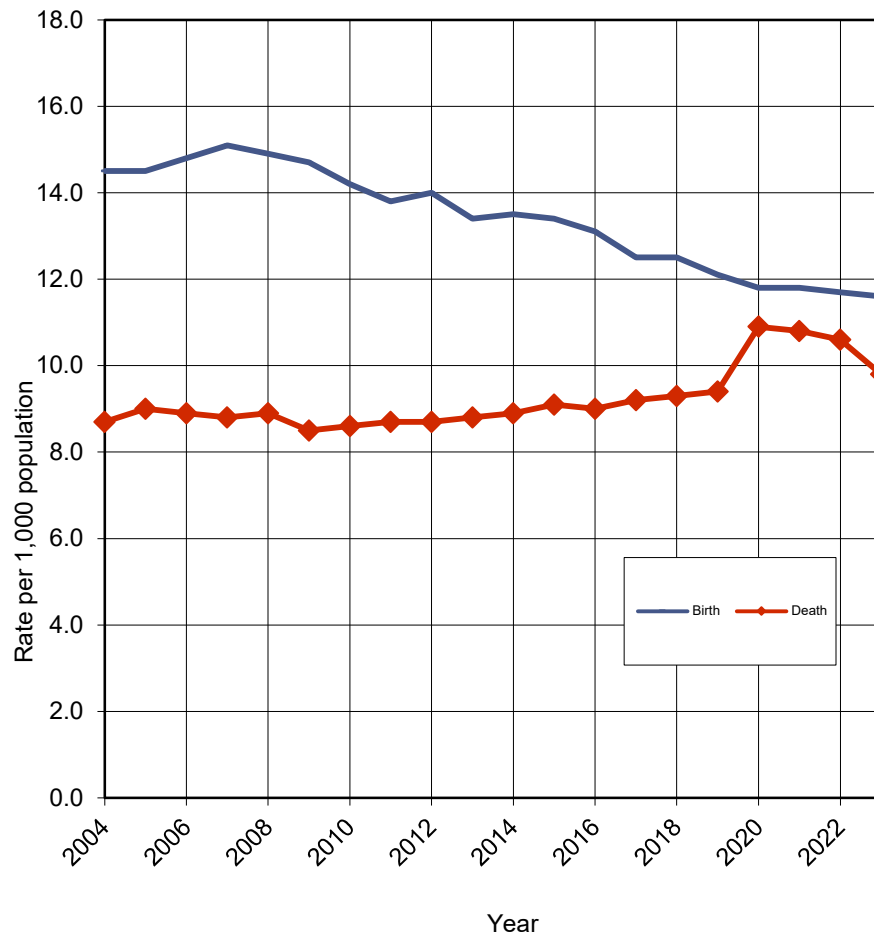
Stillbirth*, Infant, and Neonatal Death Rates
Kansas, 2004-2023
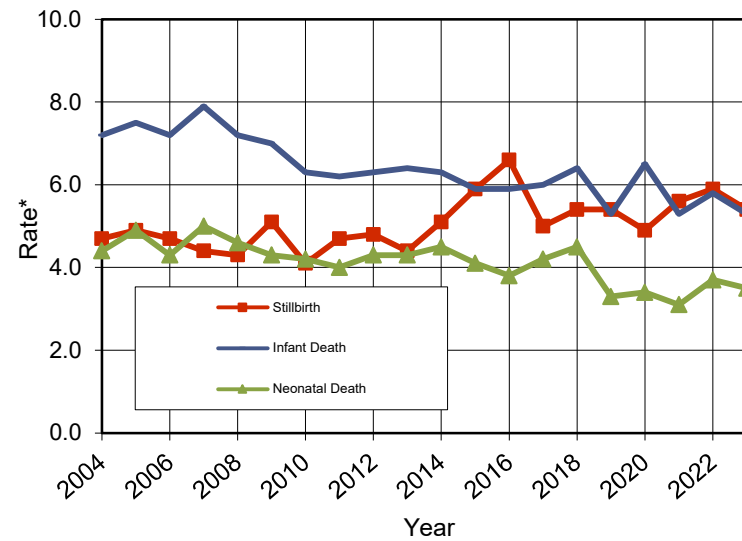
Marriage and Marriage Dissolution Rates
Kansas, 2004-2023
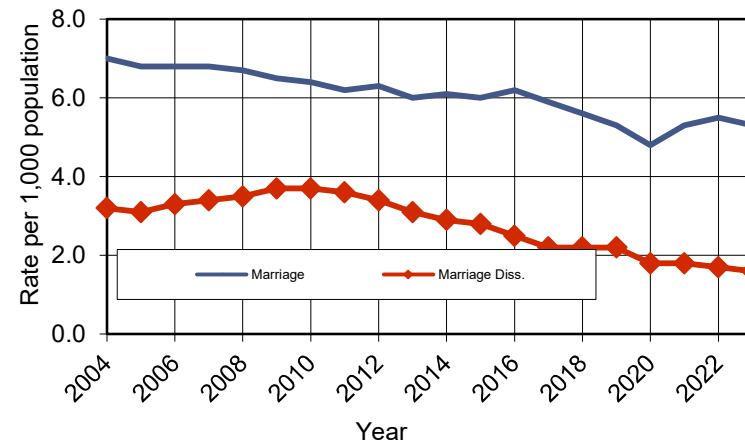
* Stillbirth rates are per 1,000 Livebirths + Stillbirths;
   Infant death and Neonatal death rates are per 1,000 Livebirths.

Table A3

Selected Vital Events by Population Group

Kansas, 2023

Births and Birth Rates

	Total	White Non-Hispanic	Black Non-Hispanic	Native American Non-Hispanic	Asian/Pacific Non-Hispanic	Other Non-Hispanic*	Hispanic Any Race	n.s.
Births	34,041	22,953	2,174	144	1,085	1,040	6,564	81
Birth Rates[†]	11.6	10.6	12.9	6.3	11.5	12.5	16.3	n/a

Maternal Characteristics

				Number				
	Total	White Non-Hispanic	Black Non-Hispanic	Native American Non-Hispanic	Asian/Pacific Non-Hispanic	Other Non-Hispanic*	Hispanic Any Race	n.s.
Births to mother <18 years of age	395	159	51	2	5	21	155	2
Births to mother <20 years of age	1,555	748	166	9	11	73	545	3
Births to mother with < HS diploma or GED	3,653	1,365	316	23	94	140	1,704	11
Births to unwed mothers	12,171	6,331	1,505	74	157	517	3,559	28
Fourth and higher birth order[#]	5,095	3,032	485	31	127	163	1,239	18

Birth Outcomes

				Number				
	Total	White Non-Hispanic	Black Non-Hispanic	Native American Non-Hispanic	Asian/Pacific Non-Hispanic	Other Non-Hispanic*	Hispanic Any Race	n.s.
Low birth weight infants (<2500 grams)	2,613	1,588	336	7	102	87	487	6
Very low birth weight infants (<1500 grams)	368	215	61	0	14	10	67	1
Births with gestational age < 37 weeks	3,558	2,334	336	12	110	105	653	8

				Rate				
	Total	White Non-Hispanic	Black Non-Hispanic	Native American Non-Hispanic	Asian/Pacific Non-Hispanic	Other Non-Hispanic*	Hispanic Any Race	n.s.
Infant deaths[‡]	5.3	4.1	10.6	6.9	3.7	21.2	5.6	n/a
Neonatal deaths[‡]	3.5	2.7	5.5	0.0	3.7	13.5	4.0	n/a
Postneonatal deaths[‡]	1.9	1.4	5.1	6.9	0.0	7.7	1.7	n/a
Stillbirths[§]	5.4	4.7	10.0	0.0	0.9	7.6	6.1	n/a
Perinatal[§]	8.1	6.6	14.6	0.0	3.7	21.0	8.9	n/a

Pregnancy Characteristics

				Number				
	Total	White Non-Hispanic	Black Non-Hispanic	Native American Non-Hispanic	Asian/Pacific Non-Hispanic	Other Non-Hispanic*	Hispanic Any Race	n.s.
Births to women with prenatal care in first trimester	27,319	19,595	1,494	94	841	778	4,465	52
Births to women with late (3rd trimester) or no prenatal care	1,535	649	171	11	48	58	587	11
Plural births**	1,088	797	114	4	20	22	129	2

Deaths and Death Rates

	Total	White Non-Hispanic	Black Non-Hispanic	Native American Non-Hispanic	Asian/Pacific Non-Hispanic	Other Non-Hispanic*	Hispanic Any Race	n.s.
Deaths	28,869	24,986	1,620	190	300	448	1,224	101
Death Rates[¶]	981.8	1,152.7	959.6	828.0	317.9	537.9	303.3	n/a
Age-Adjusted death rates[¶]	802.0	799.5	1055.2	886.0	429.7	1,376.8	553.2	n/a

* Includes selection of two or more races or other non-specified race

[†] Rate per 1,000 population

[‡] Rate per 1,000 live births

[§] Rate per 1,000 live births + Stillbirths

[¶] Rate per 100,000 standard U.S. 2000 population

[#] Number of infants born to mothers who had at least three prior births.

** Number of infants who were twins or higher order multiple.

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B. POPULATION

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Table B1
Population by Year and Sex
Kansas Residents, 1974-2023

Years	Total	Male	Female
1974	2,268,075	1,112,236	1,155,839
1975	2,278,947	1,116,451	1,162,496
1976	2,298,892	1,126,226	1,172,666
1977	2,318,147	1,136,129	1,182,018
1978	2,333,141	1,142,360	1,190,781
1979	2,347,705	1,149,744	1,197,961
1980	2,369,039	1,159,759	1,209,280
1981	2,384,853	1,167,837	1,217,016
1982	2,401,208	1,175,216	1,225,992
1983	2,415,543	1,182,451	1,233,092
1984	2,424,080	1,185,429	1,238,651
1985	2,427,417	1,187,608	1,239,809
1986	2,432,621	1,190,343	1,242,278
1987	2,445,386	1,196,494	1,248,892
1988	2,461,992	1,205,541	1,256,451
1989	2,472,849	1,211,709	1,261,140
1990	2,480,683	1,216,391	1,264,292
1991	2,495,209	1,224,854	1,270,355
1992	2,526,042	1,240,410	1,285,632
1993	2,547,605	1,251,310	1,296,295
1994	2,569,118	1,262,797	1,306,321
1995	2,586,942	1,271,694	1,315,248
1996	2,598,266	1,276,063	1,322,203
1997	2,616,339	1,285,217	1,331,122
1998	2,638,667	1,297,126	1,341,541
1999	2,654,052	1,305,408	1,348,644
2000	2,692,557	1,330,705	1,361,852
2001	2,702,125	1,336,438	1,365,687
2002	2,715,884	1,343,815	1,372,069
2003	2,723,508	1,350,243	1,373,265
2004	2,735,502	1,358,381	1,377,121
2005	2,744,687	1,363,613	1,381,074
2006	2,764,075	1,371,446	1,392,629
2007	2,775,997	1,376,311	1,399,686
2008	2,802,134	1,391,821	1,410,313
2009	2,818,747	1,399,823	1,418,924
2010	2,853,118	1,415,408	1,437,710
2011	2,871,238	1,425,802	1,445,436
2012	2,885,905	1,435,281	1,450,624
2013	2,893,957	1,441,948	1,452,009
2014	2,904,021	1,447,355	1,456,666
2015	2,911,641	1,453,633	1,458,008
2016	2,907,289	1,447,759	1,459,530
2017	2,913,123	1,451,956	1,461,167
2018	2,911,505	1,450,406	1,461,099
2019	2,913,314	1,451,697	1,461,617
2020	2,913,805	1,451,540	1,462,265
2021	2,934,582	1,470,491	1,464,091
2022	2,937,150	1,475,455	1,461,695
2023	2,940,546	1,474,638	1,465,908

* All population counts are from US Census Bureau population estimates.
　　Population counts from 1999 to present are of the vintage of first release.
　　Population counts from 1990-1998 are of the 1999 vintage.
　　Population counts from 1970-1989 are intercensal estimates.

Figure B1. Total Population
Kansas, 2004-2023* (in Thousands)

* U.S. Census Bureau Estimates
  2000, 2010 actual counts
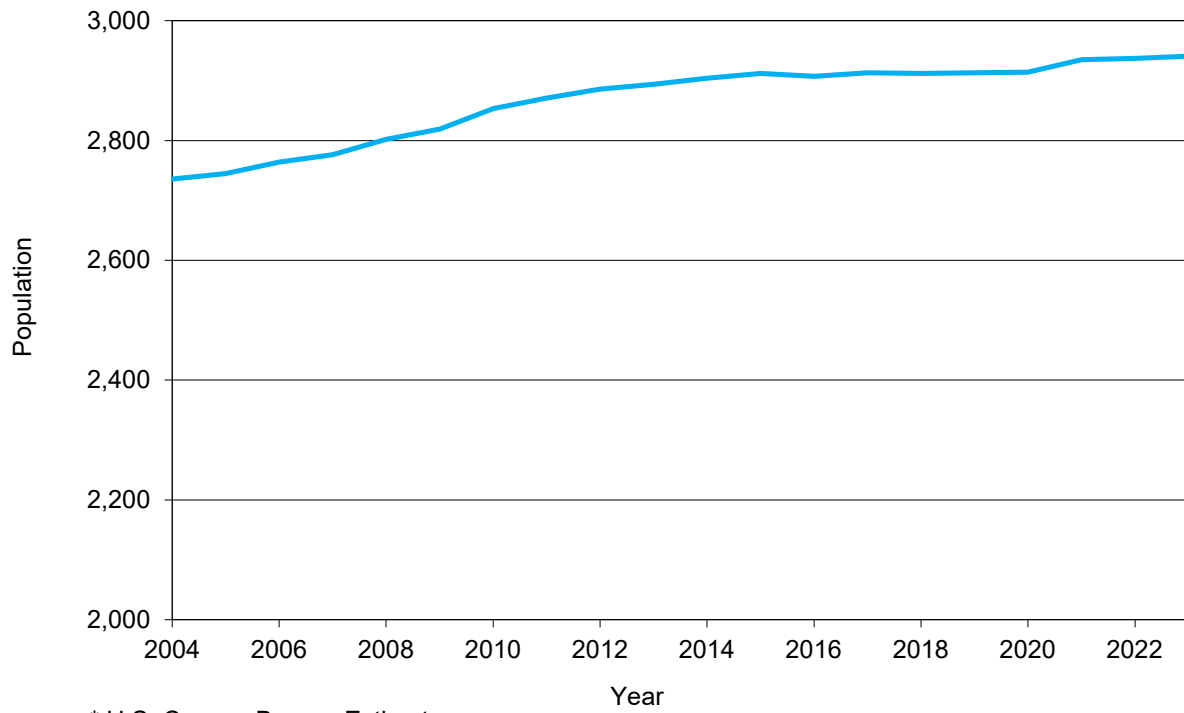
Figure B2. Rate of Natural Increase
Kansas, 2004-2023

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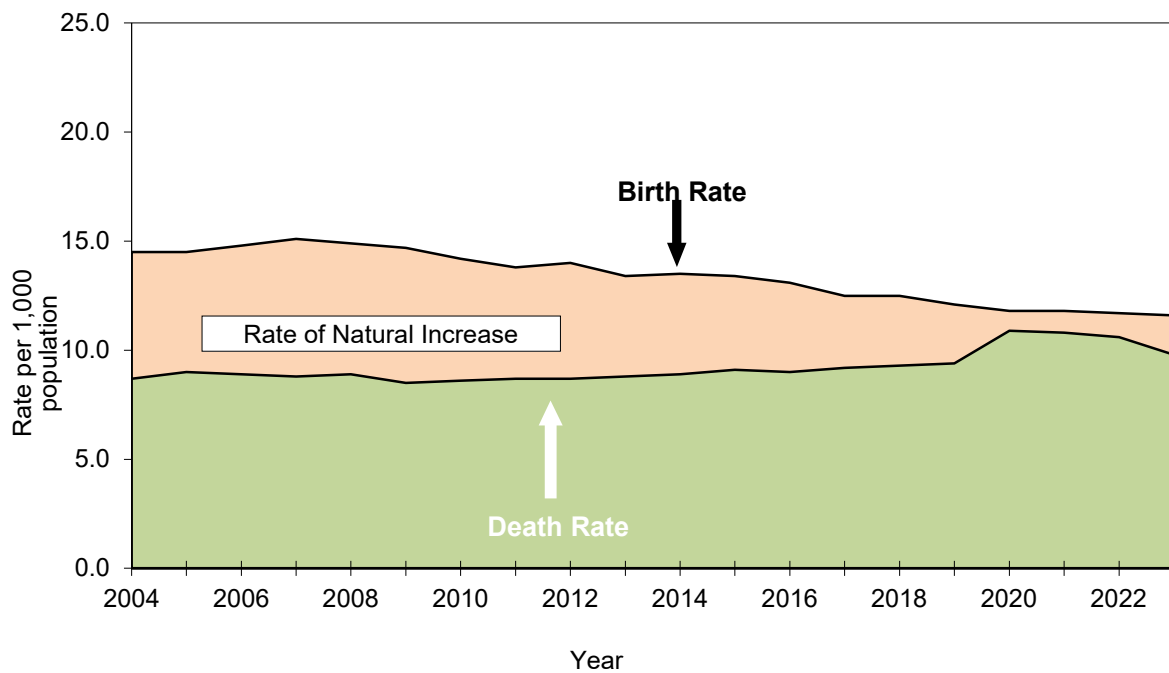
Figure B3. Median Age
Kansas, 2004-2023
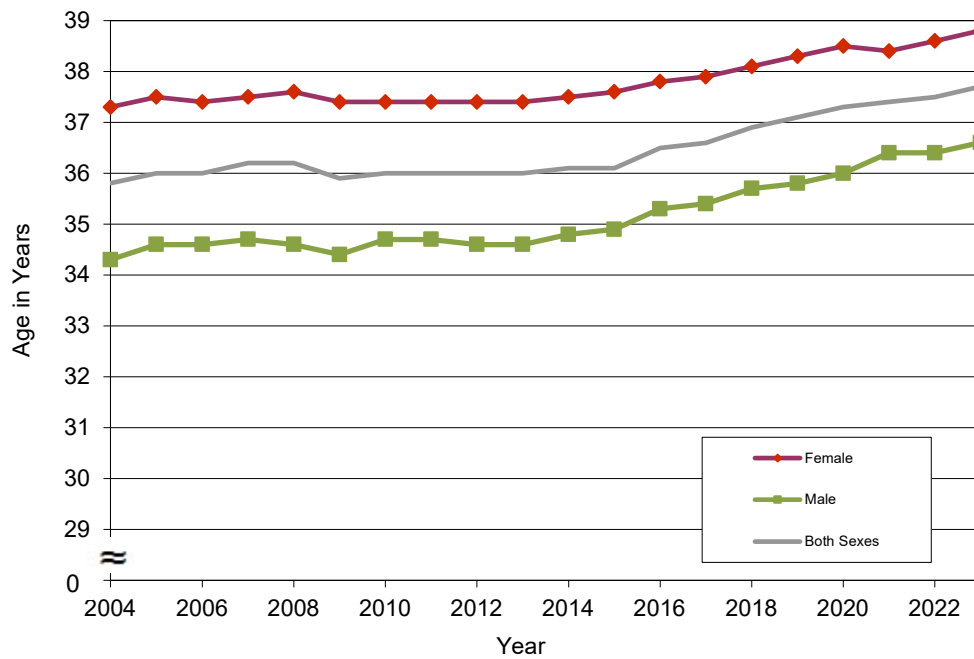
Figure B4. Population Density
Kansas and the U.S., 2004-2023
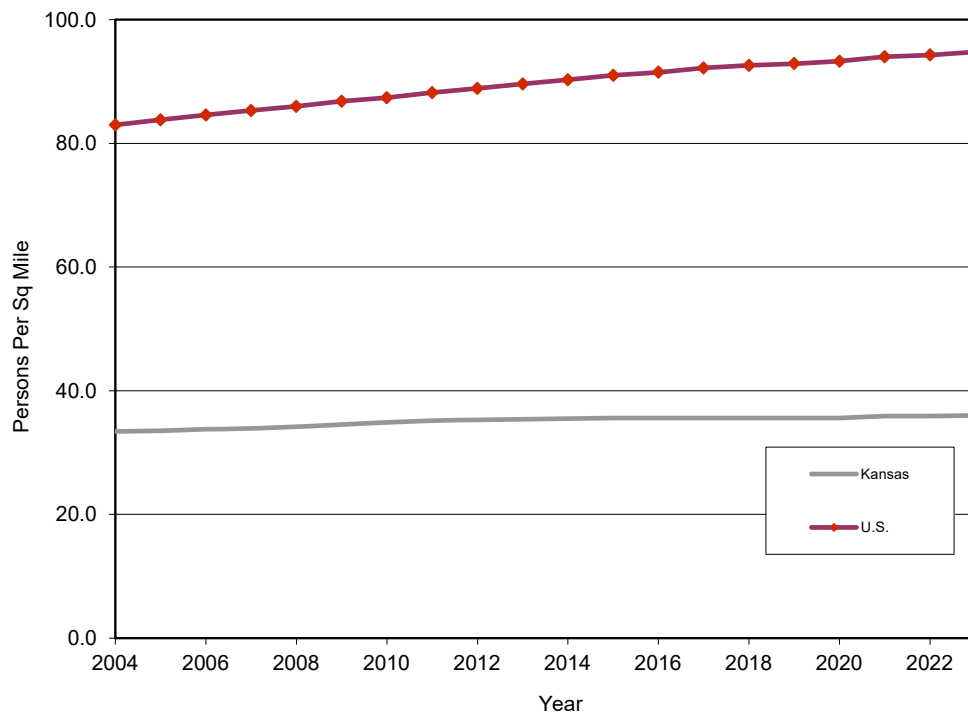
Source: Kansas and U.S. Statistical
   Abstracts and U.S. Census Bureau

Table B2
Population by Nine Selected Age-Groups and Sex*
Kansas, 2004-2023
(In Thousands)

Age-Group	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Percent Change 2004-2023
Both Sexes																					
0-4	189	188	194	196	203	205	205	204	203	200	201	197	194	193	189	185	183	178	175	175	-7.4
5-14	376	367	380	379	380	383	401	401	403	405	404	402	401	400	398	396	394	401	392	393	4.5
15-24	419	416	415	411	411	424	408	412	415	419	421	424	417	416	413	413	411	417	431	426	1.7
25-34	359	364	355	361	368	369	378	383	387	387	388	387	385	384	383	383	382	378	376	377	5.0
35-44	388	382	375	367	360	349	347	343	343	344	345	346	347	352	356	361	365	376	376	379	-2.3
45-54	392	399	403	406	408	404	406	399	389	376	369	361	354	346	336	328	324	328	327	330	-15.8
55-64	260	271	284	296	306	317	331	346	351	357	362	367	372	374	373	372	367	366	355	348	33.8
65-74	170	170	171	174	180	183	190	195	207	217	226	235	245	255	262	272	282	294	296	303	78.2
75 and Over	184	187	186	186	187	184	186	187	187	189	190	191	192	195	199	203	206	195	209	211	14.7
Total †	2,736	2,745	2,764	2,776	2,802	2,819	2,853	2,871	2,886	2,894	2,904	2,912	2,907	2,913	2,912	2,913	2,914	2,935	2,937	2,941	7.5
Median Age	35.8	36.0	36.0	36.2	36.2	35.9	36.0	36.0	36.0	36.0	36.1	36.1	36.5	36.6	36.9	37.1	37.3	37.4	37.5	37.7	5.3
Males																					
0-4	98	98	99	100	103	105	105	104	104	103	103	101	99	98	97	95	94	91	90	90	-8.2
5-14	193	189	195	195	195	196	206	206	206	208	207	206	205	205	204	203	201	205	201	201	4.1
15-24	216	215	215	213	214	221	211	213	216	219	220	223	217	217	215	215	213	217	225	222	2.8
25-34	185	188	183	186	190	189	192	195	198	199	199	199	197	197	197	198	197	195	195	194	4.9
35-44	195	192	188	185	182	177	175	173	173	174	174	176	176	178	180	183	184	191	193	193	-1.0
45-54	196	199	201	202	203	200	201	198	193	187	183	180	177	173	168	164	162	166	167	168	-14.3
55-64	128	134	140	146	151	156	164	171	173	175	178	180	182	183	182	181	179	181	176	172	34.4
65-74	78	78	79	80	84	85	89	92	98	103	107	112	117	122	126	130	135	142	143	145	85.9
75 and Over	70	72	70	70	71	70	73	74	74	75	76	77	78	79	82	84	85	82	87	89	27.1
Total †	1,358	1,364	1,371	1,376	1,392	1,400	1,415	1,426	1,435	1,442	1,447	1,454	1,448	1,452	1,450	1,452	1,452	1,470	1,475	1,475	8.6
Median Age	34.3	34.6	34.6	34.7	34.6	34.4	34.7	34.7	34.6	34.6	34.8	34.9	35.3	35.4	35.7	35.8	36.0	36.4	36.4	35.6	3.8
Females																					
0-4	91	90	95	96	99	101	101	100	99	98	98	96	95	95	93	91	89	87	86	85	-6.6
5-14	183	179	185	185	185	187	196	196	197	198	197	196	196	196	195	194	193	196	191	191	4.4
15-24	202	201	200	198	197	203	197	197	199	200	201	202	200	199	199	198	198	200	206	204	1.0
25-34	173	176	172	176	178	180	185	191	189	189	189	188	188	186	186	185	184	183	181	182	5.2
35-44	193	190	187	183	179	171	172	170	170	170	170	171	171	173	176	178	181	185	184	186	-3.6
45-54	196	200	202	204	205	204	205	201	196	190	185	181	177	173	168	164	162	162	160	162	-17.3
55-64	133	138	144	150	155	160	168	175	178	181	185	188	190	191	191	190	188	185	179	176	32.3
65-74	92	92	92	94	96	98	101	103	109	114	118	123	128	133	137	142	147	152	153	157	70.7
75 and Over	114	115	116	116	116	115	113	113	113	113	114	114	114	115	118	120	121	113	122	121	6.1
Total †	1,377	1,381	1,393	1,400	1,410	1,419	1,438	1,445	1,451	1,452	1,457	1,458	1,460	1,461	1,461	1,462	1,462	1,464	1,462	1,466	6.5
Median Age	37.3	37.5	37.4	37.5	37.6	37.4	37.4	37.4	37.4	37.4	37.5	37.6	37.8	37.9	38.1	38.3	38.5	38.4	38.6	38.8	4.0

* U.S. Census Bureau estimates for July 1, 2002-2009, and 2011-2023.
  U.S. Census Bureau counts for 2000 and 2010 are for April 1.
† Estimates may not add to totals due to rounding. See Technical Notes.

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Table B3
Population by 11 Selected Age-Groups, by Population Group and Sex*
Kansas, 2023

Age-Group	Total	White Non-Hispanic		Black Non-Hispanic		Native American Non-Hispanic		Asian/Pacific Non-Hispanic		Multiple Race Non-Hispanic		Hispanic Any Race	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Total	2,940,546	1,078,855	1,088,723	88,436	80,377	11,308	11,639	45,954	48,410	41,573	41,709	208,512	195,050
<1	34,590	11,302	10,713	1,152	1,140	72	67	488	455	959	940	3,682	3,620
1-4	140,398	45,767	43,199	4,568	4,531	396	405	2,124	2,097	4,260	4,125	14,796	14,130
5-14	392,566	130,569	123,997	12,108	11,665	1,284	1,148	6,307	5,640	10,913	10,658	39,916	38,361
15-24	426,443	146,143	134,659	14,740	12,184	1,951	1,837	7,550	7,074	9,958	9,507	42,050	38,790
25-34	376,652	131,846	125,681	15,028	11,737	1,925	1,874	8,209	8,345	5,988	6,010	31,238	28,771
35-44	379,479	140,229	137,459	12,454	10,528	1,590	1,542	7,323	8,023	3,486	3,713	28,125	25,007
45-54	329,515	125,758	122,663	10,021	8,543	1,397	1,389	5,809	6,738	2,306	2,482	22,217	20,192
55-64	347,509	140,413	144,501	9,179	8,874	1,305	1,579	4,035	4,630	1,747	2,016	15,208	14,022
65-74	302,607	126,319	136,822	6,371	6,883	926	1,188	2,590	3,390	1,318	1,426	7,771	7,603
75-84	153,245	61,629	75,387	2,246	3,138	402	515	1,174	1,481	534	683	2,723	3,333
85+	57,542	18,880	33,642	569	1,154	60	95	345	537	104	149	786	1,221

*U.S. Census Bureau estimates for 2022.

Figure B5. Percent Change in Age-Group Population
Both Sexes, Kansas, 2004-2023
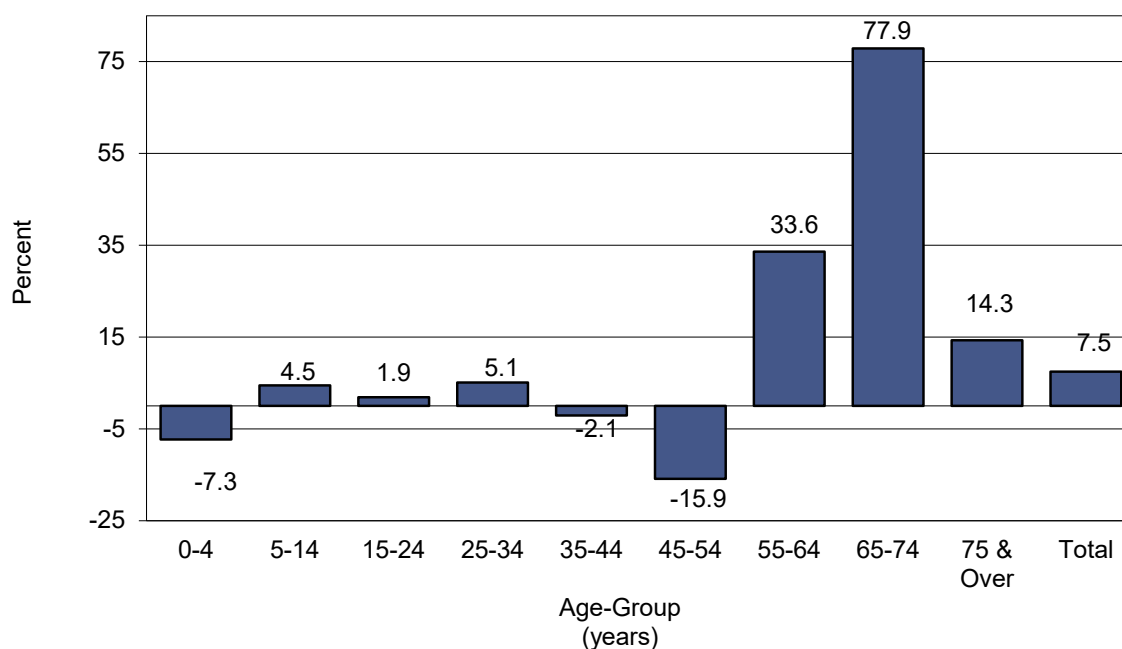
Table B4
Population by County and Peer Group*
Kansas, 2019-2023

County of Residence	Year					Percent Change 2019-2023
	2019	2020	2021	2022	2023	
Kansas	2,913,314	2,913,805	2,934,582	2,937,150	2,940,546	0.9
Allen	12,369	12,399	12,464	12,579	12,412	0.3
Anderson	7,858	7,949	7,778	7,776	7,838	-0.3
Atchison	16,073	16,015	16,239	16,108	16,016	-0.4
Barber	4,427	4,358	4,110	4,122	4,071	-8.0
Barton	25,779	25,658	25,216	25,080	24,899	-3.4
Bourbon	14,534	14,435	14,323	14,493	14,408	-0.9
Brown	9,564	9,482	9,455	9,364	9,250	-3.3
Butler	66,911	66,992	67,889	68,240	68,632	2.6
Chase	2,648	2,586	2,598	2,548	2,579	-2.6
Chautauqua	3,250	3,230	3,395	3,415	3,347	3.0
Cherokee	19,939	19,681	19,130	19,088	19,054	-4.4
Cheyenne	2,657	2,600	2,633	2,583	2,636	-0.8
Clark	1,994	1,963	1,977	1,933	1,847	-7.4
Clay	8,002	8,025	8,077	8,043	8,007	0.1
Cloud	8,786	8,642	8,928	8,946	8,854	0.8
Coffey	8,179	8,158	8,338	8,280	8,251	0.9
Comanche	1,700	1,690	1,670	1,681	1,655	-2.6
Cowley	34,908	34,628	34,496	34,453	34,157	-2.2
Crawford	38,818	38,730	39,110	39,078	38,764	-0.1
Decatur	2,827	2,776	2,751	2,689	2,712	-4.1
Dickinson	18,466	18,266	18,459	18,430	18,445	-0.1
Doniphan	7,600	7,496	7,471	7,440	7,493	-1.4
Douglas	122,259	122,530	119,363	119,964	120,553	-1.4
Edwards	2,798	2,750	2,832	2,739	2,733	-2.3
Elk	2,530	2,507	2,441	2,441	2,467	-2.5
Ellis	28,553	28,671	28,790	28,941	28,810	0.9
Ellsworth	6,102	6,034	6,336	6,355	6,357	4.2
Finney	36,467	35,917	38,107	37,650	37,466	2.7
Ford	33,619	33,094	34,159	33,848	33,980	1.1
Franklin	25,544	25,703	25,986	25,992	26,125	2.3
Geary	31,670	32,218	35,934	35,691	35,047	10.7
Gove	2,636	2,621	2,755	2,717	2,735	3.8
Graham	2,482	2,389	2,400	2,411	2,376	-4.3
Grant	7,150	7,077	7,324	7,197	7,147	0.0
Gray	5,988	5,954	5,644	5,729	5,743	-4.1
Greeley	1,232	1,196	1,304	1,223	1,181	-4.1
Greenwood	5,982	5,868	5,939	5,939	5,870	-1.9
Hamilton	2,539	2,425	2,484	2,430	2,437	-4.0
Harper	5,436	5,336	5,331	5,323	5,435	0.0
Harvey	34,429	34,291	33,817	33,801	33,504	-2.7
Haskell	3,968	3,923	3,668	3,576	3,630	-8.5
Hodgeman	1,794	1,779	1,710	1,755	1,655	-7.7
Jackson	13,171	13,171	13,261	13,286	13,368	1.5
Jefferson	19,043	19,032	18,411	18,344	18,327	-3.8
Jewell	2,879	2,833	2,937	2,898	2,847	-1.1
Johnson	602,401	607,220	613,219	619,195	622,237	3.3
Kearny	3,838	3,745	3,891	3,855	3,823	-0.4
Kingman	7,152	6,974	7,392	7,193	7,066	-1.2
Kiowa	2,475	2,456	2,392	2,404	2,374	-4.1
Labette	19,618	19,586	19,912	19,757	19,728	0.6
Lane	1,535	1,518	1,565	1,556	1,529	-0.4
Leavenworth	81,758	82,246	82,184	82,892	83,518	2.2
Lincoln	2,962	2,986	2,903	2,899	2,920	-1.4
Linn	9,703	9,654	9,747	9,796	9,860	1.6
Logan	2,794	2,732	2,722	2,705	2,665	-4.6

Table B4
Population by County and Peer Group*
Kansas, 2019-2023

County of Residence	Year					Percent Change 2019-2023
	2019	2020	2021	2022	2023	
Lyon	33,195	33,045	31,998	31,898	32,172	-3.1
McPherson	28,542	28,448	30,146	30,012	30,091	5.4
Marion	11,884	11,652	11,712	11,868	11,690	-1.6
Marshall	9,707	9,652	9,979	9,982	9,933	2.3
Meade	4,033	4,029	4,022	3,897	3,911	-3.0
Miami	34,237	34,334	34,593	34,867	35,320	3.2
Mitchell	5,979	5,879	5,748	5,738	5,719	-4.3
Montgomery	31,829	31,502	31,156	30,996	30,568	-4.0
Morris	5,620	5,559	5,356	5,349	5,334	-5.1
Morton	2,587	2,538	2,692	2,599	2,580	-0.3
Nemaha	10,231	10,121	10,216	10,115	10,114	-1.1
Neosho	16,007	15,929	15,784	15,606	15,420	-3.7
Ness	2,750	2,768	2,672	2,645	2,618	-4.8
Norton	5,361	5,328	5,342	5,301	5,330	-0.6
Osage	15,949	15,770	15,768	15,654	15,824	-0.8
Osborne	3,421	3,439	3,498	3,490	3,427	0.2
Ottawa	5,704	5,712	5,838	5,795	5,818	2.0
Pawnee	6,414	6,366	6,225	6,179	6,126	-4.5
Phillips	5,234	5,181	4,815	4,809	4,761	-9.0
Pottawatomie	24,383	24,722	25,790	26,273	26,382	8.2
Pratt	9,164	9,127	9,181	9,067	9,082	-0.9
Rawlins	2,530	2,511	2,549	2,528	2,463	-2.6
Reno	61,998	61,793	61,414	61,516	61,497	-0.8
Republic	4,636	4,536	4,662	4,642	4,627	-0.2
Rice	9,537	9,362	9,390	9,407	9,260	-2.9
Riley	74,232	73,202	72,208	71,108	71,402	-3.8
Rooks	4,920	4,827	4,831	4,813	4,778	-2.9
Rush	3,036	2,947	2,953	2,927	2,830	-6.8
Russell	6,856	6,804	6,703	6,639	6,723	-1.9
Saline	54,224	53,926	53,888	53,596	53,098	-2.1
Scott	4,823	4,790	5,131	5,014	4,922	2.1
Sedgwick	516,042	519,907	523,828	525,525	528,469	2.4
Seward	21,428	21,038	21,747	21,358	21,067	-1.7
Shawnee	176,875	175,999	178,264	177,480	177,746	0.5
Sheridan	2,521	2,520	2,478	2,425	2,423	-3.9
Sherman	5,917	5,777	5,895	5,830	5,844	-1.2
Smith	3,583	3,544	3,576	3,533	3,590	0.2
Stafford	4,156	4,046	4,034	3,993	3,909	-5.9
Stanton	2,006	1,969	2,044	1,963	1,901	-5.2
Stevens	5,485	5,388	5,293	5,175	5,077	-7.4
Sumner	22,836	22,578	22,385	22,473	22,334	-2.2
Thomas	7,777	7,702	7,877	7,893	7,865	1.1
Trego	2,803	2,758	2,793	2,752	2,731	-2.6
Wabaunsee	6,931	6,906	6,966	7,019	7,057	1.8
Wallace	1,518	1,536	1,508	1,488	1,509	-0.6
Washington	5,406	5,427	5,511	5,501	5,504	1.8
Wichita	2,119	2,074	2,082	2,064	2,082	-1.7
Wilson	8,525	8,362	8,526	8,622	8,382	-1.7
Woodson	3,138	3,015	3,102	3,109	3,115	-0.7
Wyandotte	165,429	165,265	167,046	165,746	165,281	-0.1
Peer Group						
Frontier	105,879	104,291	109,851	108,699	107,816	1.8
Rural	226,300	224,077	243,161	242,466	241,450	6.7
Densely -Settled Rural	462,479	459,579	441,671	440,298	439,519	-5.0
Semi-Urban	453,892	452,691	455,995	454,885	453,957	0.0
Urban	1,664,764	1,673,167	1,683,904	1,690,802	1,697,804	2.0

Source: U.S. Bureau of the Census
* See Technical Notes for Peer Group definition.

Figure B6. Population Density
By County of Residence
Kansas, 2023
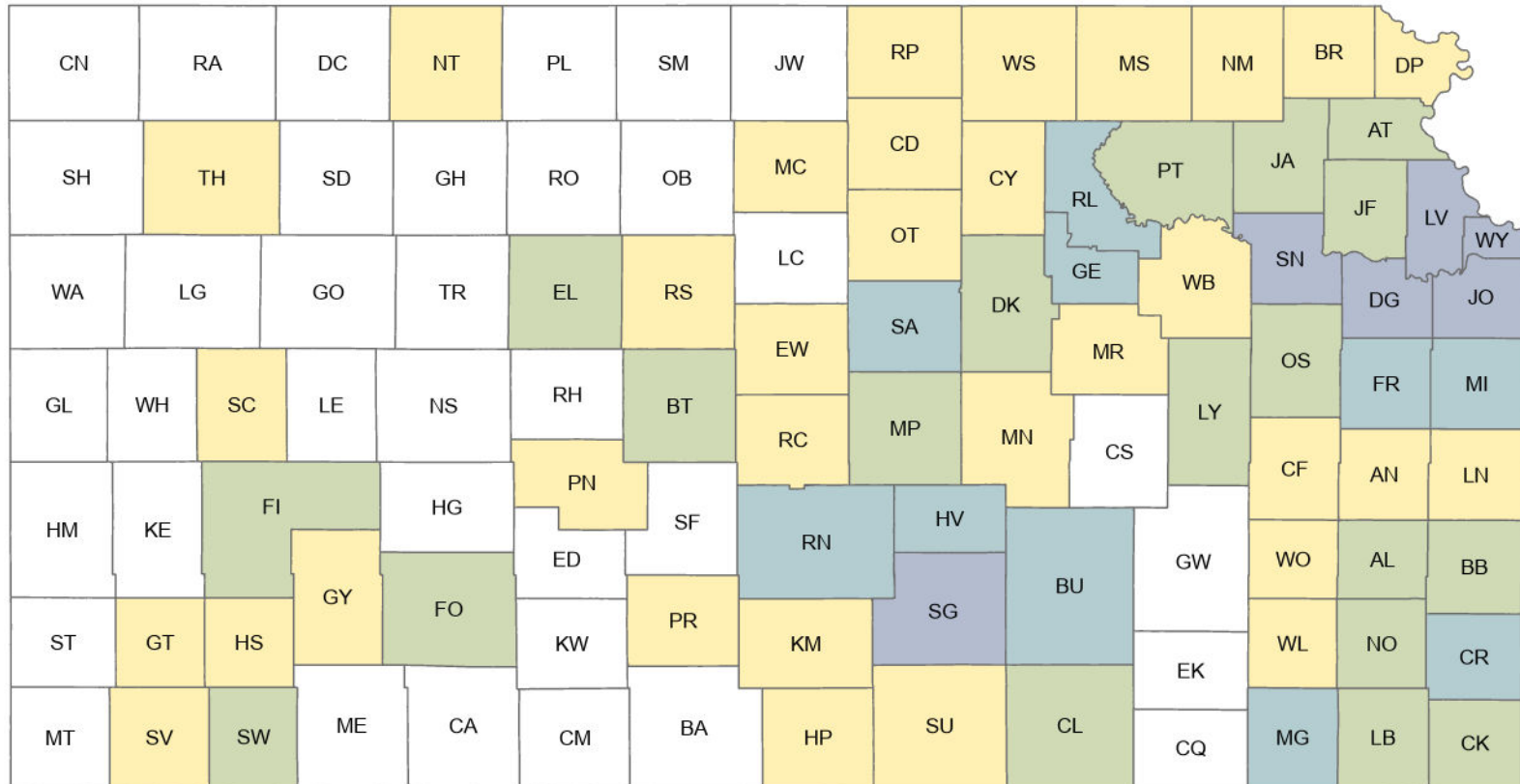
Density per square mile of land area

State Density 36.0

DENSITY

Under 6.0	6.0 - 19.9	20.0 - 39.9	40.0 - 149.9	150.0 and Over
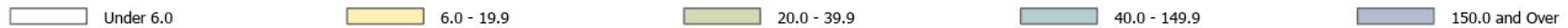
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Table B5

Population by County of Residence and Peer Group[†], by Population Group*
Kansas, 2023

| County of Residence | Total | Population Group | | | | | |
		White Non-Hispanic	Black Non-Hispanic	Native American Non-Hispanic	Asian/Pacific Islander Non-Hispanic	Multiple Race Non-Hispanic	Hispanic Any Race
Kansas	2,940,546	2,167,578	168,813	22,947	94,364	83,282	403,562
Allen	12,412	11,039	236	124	124	350	539
Anderson	7,838	7,269	84	67	57	153	208
Atchison	16,016	14,037	677	115	124	445	618
Barber	4,071	3,704	39	49	27	79	173
Barton	24,899	19,736	325	159	100	391	4,188
Bourbon	14,408	12,836	430	129	174	356	483
Brown	9,250	7,654	155	625	83	289	444
Butler	68,632	59,380	1,554	540	1,222	1,725	4,211
Chase	2,579	2,228	47	15	8	59	222
Chautauqua	3,347	2,755	48	164	11	187	182
Cherokee	19,054	16,463	197	838	211	782	563
Cheyenne	2,636	2,297	17	16	31	29	246
Clark	1,847	1,481	7	16	31	52	260
Clay	8,007	7,294	137	41	53	172	310
Cloud	8,854	8,068	133	57	90	159	347
Coffey	8,251	7,555	71	82	75	133	335
Comanche	1,655	1,482	7	7	5	30	124
Cowley	34,157	26,537	934	580	809	1,036	4,261
Crawford	38,764	32,641	832	393	817	1,186	2,895
Decatur	2,712	2,463	31	27	6	46	139
Dickinson	18,445	16,395	212	135	136	467	1,100
Doniphan	7,493	6,645	226	102	42	206	272
Douglas	120,553	93,361	5,265	2,570	5,794	4,807	8,756
Edwards	2,733	1,972	39	30	7	56	629
Elk	2,467	2,180	11	52	17	101	106
Ellis	28,810	25,268	386	101	444	482	2,129
Ellsworth	6,357	5,395	379	50	40	100	393
Finney	37,466	13,841	1,505	151	1,420	430	20,119
Ford	33,980	11,912	830	160	464	298	20,316
Franklin	26,125	23,494	373	172	146	666	1,274
Geary	35,047	19,910	5,430	346	1,475	1,906	5,980
Gove	2,735	2,545	19	4	26	27	114
Graham	2,376	2,074	83	13	38	73	95
Grant	7,147	3,099	41	32	49	86	3,840
Gray	5,743	4,562	47	20	34	70	1,010
Greeley	1,181	941	6	9	5	13	207
Greenwood	5,870	5,312	52	83	21	151	251
Hamilton	2,437	1,279	20	26	11	39	1,062
Harper	5,435	4,746	45	69	26	117	432
Harvey	33,504	27,494	530	219	342	793	4,126
Haskell	3,630	2,387	15	20	28	52	1,128
Hodgeman	1,655	1,370	37	9	60	34	145
Jackson	13,368	11,065	133	871	85	419	795
Jefferson	18,327	16,898	149	166	72	377	665
Jewell	2,847	2,681	14	20	14	27	91
Johnson	622,237	481,190	31,556	1,588	33,548	15,667	58,688
Kearny	3,823	2,282	35	53	18	69	1,366
Kingman	7,066	6,481	37	66	46	127	309
Kiowa	2,374	2,083	39	18	61	55	118
Labette	19,728	16,605	784	364	95	852	1,028
Lane	1,529	1,271	16	13	7	37	185
Leavenworth	83,518	65,544	6,746	597	1,381	2,756	6,494
Lincoln	2,920	2,692	22	17	17	44	128
Linn	9,860	9,067	113	79	54	210	337
Logan	2,665	2,334	24	23	31	58	195

Table B5

Population by County of Residence and Peer Group[†], by Population Group*
Kansas, 2023

County of Residence	Total	Population Group					
		White Non-Hispanic	Black Non-Hispanic	Native American Non-Hispanic	Asian/Pacific Islander Non-Hispanic	Multiple Race Non-Hispanic	Hispanic Any Race
Lyon	32,172	21,917	622	198	687	725	8,023
McPherson	30,091	26,930	462	132	284	568	1,715
Marion	11,690	10,660	126	96	81	226	501
Marshall	9,933	9,278	70	55	42	210	278
Meade	3,911	2,889	69	39	36	48	830
Miami	35,320	32,106	435	228	291	723	1,537
Mitchell	5,719	5,337	21	27	48	98	188
Montgomery	30,568	23,977	1,363	935	310	1,463	2,520
Morris	5,334	4,866	35	33	49	114	237
Morton	2,580	1,768	29	35	36	46	666
Nemaha	10,114	9,511	78	64	32	143	286
Neosho	15,420	13,654	229	150	108	329	950
Ness	2,618	2,173	23	18	3	37	364
Norton	5,330	4,588	207	21	78	111	325
Osage	15,824	14,668	138	97	68	286	567
Osborne	3,427	3,164	23	32	35	66	107
Ottawa	5,818	5,399	86	26	25	82	200
Pawnee	6,126	4,921	356	51	40	155	603
Phillips	4,761	4,402	26	26	55	73	179
Pottawatomie	26,382	23,352	353	148	268	612	1,649
Pratt	9,082	7,810	161	55	81	167	808
Rawlins	2,463	2,173	15	13	17	46	199
Reno	61,497	50,871	1,814	387	448	1,478	6,499
Republic	4,627	4,325	38	18	30	80	136
Rice	9,260	7,430	146	66	107	207	1,304
Riley	71,402	53,790	4,690	351	3,342	2,349	6,880
Rooks	4,778	4,364	97	28	36	84	169
Rush	2,830	2,591	18	22	13	38	148
Russell	6,723	6,063	96	70	42	165	287
Saline	53,098	41,595	1,714	248	1,158	1,542	6,841
Scott	4,922	3,716	28	30	48	52	1,048
Sedgwick	528,469	347,942	46,069	4,011	23,375	18,602	88,470
Seward	21,067	5,230	545	73	493	268	14,458
Shawnee	177,746	128,222	13,547	1,535	2,730	6,741	24,971
Sheridan	2,423	2,214	14	14	8	30	143
Sherman	5,844	4,815	63	25	43	116	782
Smith	3,590	3,348	17	22	17	88	98
Stafford	3,909	3,216	27	35	20	70	541
Stanton	1,901	947	13	23	4	67	847
Stevens	5,077	2,945	40	44	24	60	1,964
Sumner	22,334	19,685	296	239	152	593	1,369
Thomas	7,865	6,905	95	41	63	107	654
Trego	2,731	2,549	16	14	17	43	92
Wabaunsee	7,057	6,352	58	69	38	176	364
Wallace	1,509	1,345	16	9	3	24	112
Washington	5,504	5,098	30	9	44	62	261
Wichita	2,082	1,400	26	10	9	23	614
Wilson	8,382	7,589	58	104	50	231	350
Woodson	3,115	2,887	19	33	5	80	91
Wyandotte	165,281	61,307	33,116	646	9,259	4,247	56,706
Peer Group[†]							
Frontier	107,816	90,784	1,105	1,029	804	2,165	11,929
Rural	241,450	208,942	3,301	2,359	1,714	4,787	20,347
Densely -Settled Rural	439,519	325,028	9,373	4,793	6,208	9,679	84,438
Semi-Urban	453,957	365,258	18,735	3,819	9,551	13,831	42,763
Urban	1,697,804	1,177,566	136,299	10,947	76,087	52,820	244,085

* U.S. Census Bureau 2022 population estimates.

† See Technical Notes for Peer Group definition.

Table B6
City Population*
Kansas, 2019-2023

City of Residence†	Year					Percent Change 2019-2023
	2019	2020	2021	2022	2023	
Abilene	6,201	6,123	6,468	6,441	6,443	3.9
Andover	13,405	13,672	15,435	15,628	15,814	18.0
Arkansas City	11,669	11,608	11,929	11,923	11,765	0.8
Atchison	10,476	10,427	10,694	10,730	10,670	1.9
Augusta	9,345	9,300	9,267	9,222	9,245	-1.1
Baldwin City	4,700	4,689	4,882	4,906	4,929	4.9
Basehor	6,496	6,656	7,219	7,544	7,719	18.8
Baxter Springs	3,948	3,893	3,852	3,834	3,830	-3.0
Bel Aire	8,300	8,469	8,448	8,822	9,537	14.9
Beloit	3,625	3,564	3,407	3,367	3,358	-7.4
Bonner Springs	7,906	7,966	7,805	7,666	7,621	-3.6
Burlington	2,543	2,545	2,641	2,609	2,593	2.0
Chanute	9,042	8,991	8,642	8,568	8,468	-6.3
Clay Center	3,983	3,991	4,138	4,123	4,094	2.8
Clearwater			2,626	2,642	2,642	n/a
Coffeyville	9,275	9,169	8,847	8,690	8,570	-7.6
Colby	5,370	5,315	5,516	5,542	6,102	13.6
Columbus	3,052	3,006	2,882	2,880	2,870	-6.0
Concordia	4,987	4,906	5,032	5,054	5,004	0.3
Derby	24,943	25,145	25,847	25,939	26,233	5.2
De Soto	6,512	6,648	6,380	6,478	6,539	0.4
Dodge City	27,104	26,687	27,690	27,422	27,514	1.5
Edwardsville	4,495	4,501	4,610	4,648	4,641	3.2
El Dorado	12,954	12,856	12,810	12,865	12,919	-0.3
Ellsworth	2,961	2,935	2,992	3,133	3,133	5.8
Emporia	24,598	24,502	24,009	23,941	24,105	-2.0
Eudora	6,411	6,393	6,449	6,426	6,466	0.9
Fairway	3,960	3,963	4,171	4,170	4,158	5.0
Fort Scott	7,697	7,648	7,513	7,615	7,565	-1.7
Frontenac	3,388	3,392	3,395	3,400	3,372	-0.5
Galena	2,858	2,824	2,743	2,747	2,752	-3.7
Garden City	26,408	26,003	27,856	27,519	27,371	3.6
Gardner	22,031	22,370	23,942	24,206	25,378	15.2
Garnett	3,235	3,258	3,192	3,188	3,197	-1.2
Goddard	4,796	4,962	5,372	5,559	5,708	19.0
Goodland	4,406	4,301	4,450	4,392	4,403	-0.1
Great Bend	14,974	14,901	14,580	14,489	14,372	-4.0
Hays	20,744	20,829	20,795	21,136	21,040	1.4
Haysville	11,338	11,389	11,315	11,287	11,268	-0.6
Hesston	3,742	3,736	3,495	3,503	3,473	-7.2
Hiawatha	3,118	3,091	3,246	3,225	3,190	2.3
Hillsboro	2,816	2,762	2,740	2,729	2,688	-4.5
Hoisington	2,470	2,452	2,657	2,642	2,617	6.0
Holton	3,208	3,204	3,329	3,373	3,382	5.4
Hugoton	3,745	3,678	3,764	3,686	3,613	-3.5
Hutchinson	40,383	40,209	39,712	39,699	39,662	-1.8
Independence	8,505	8,424	8,464	8,436	8,315	-2.2
Iola	5,266	5,264	5,343	5,401	5,318	1.0
Junction City	21,482	21,862	22,429	22,264	21,856	1.7
Kansas City	152,960	152,727	154,545	153,345	152,933	0.0

Table B6
City Population*
Kansas, 2019-2023

City of Residence†	Year					Percent Change 2019-2023
	2019	2020	2021	2022	2023	
Kingman	2,842	2,765	3,062	2,964	2,890	1.7
Lansing	11,949	11,954	11,239	11,187	11,221	-6.1
Larned	3,671	3,629	3,621	3,711	3,675	0.1
Lawrence	98,193	98,448	95,256	95,794	96,207	-2.0
Leavenworth	35,957	35,934	37,176	37,081	37,034	3.0
Leawood	34,727	34,669	33,743	33,713	33,980	-2.2
Lenexa	55,625	56,156	58,388	58,617	58,536	5.2
Liberal	19,174	18,821	19,640	19,274	18,999	-0.9
Lindsborg	3,290	3,276	3,496	3,801	3,811	15.8
Louisburg	4,562	4,590	4,994	5,057	5,170	13.3
Lyons	3,504	3,433	3,556	3,577	3,498	-0.2
McPherson	13,061	13,013	13,944	13,865	13,906	6.5
Maize	4,934	5,267	6,060	6,405	6,802	37.9
Manhattan	54,604	54,944	54,763	53,829	53,682	-1.7
Marysville	3,269	3,251	3,417	3,423	3,405	4.2
Merriam	11,081	11,128	11,017	10,966	10,875	-1.9
Mission	9,911	9,873	9,864	9,813	10,014	1.0
Mission Hills	3,547	3,533	3,565	3,551	3,525	-0.6
Mulvane	6,489	6,566	6,587	6,763	6,936	6.9
Newton	18,861	18,744	18,433	18,392	18,251	-3.2
Norton	2,722	2,709	2,758	2,659	2,748	1.0
Olathe	140,545	141,665	143,014	145,616	147,461	4.9
Osage City	2,809	2,765	2,846	2,816	2,814	0.2
Osawatomie	4,284	4,223	4,280	4,238	4,241	-1.0
Ottawa	12,254	12,334	12,604	12,613	12,686	3.5
Overland Park	195,494	197,381	197,106	197,726	197,089	0.8
Paola	5,719	5,664	5,786	5,738	5,780	1.1
Park City	7,764	7,943	8,503	8,656	8,808	13.4
Parsons	9,477	9,463	9,479	9,382	9,362	-1.2
Pittsburg	20,050	19,968	20,738	20,658	20,504	2.3
Prairie Village	22,295	22,315	22,878	22,947	22,900	2.7
Pratt	6,496	6,463	6,573	6,534	6,546	0.8
Roeland Park	6,688	6,652	6,817	6,771	6,712	0.4
Rose Hill	3,968	3,979	4,269	4,294	4,332	9.2
Russell	4,423	4,383	4,388	4,351	4,400	-0.5
Sabetha	2,583	2,552	2,519	2,491	2,493	-3.5
St Marys	2,658	2,652	2,749	2,761	2,676	0.7
Salina	46,550	46,274	46,481	46,231	45,792	-1.6
Scott City	3,748	3,736	4,104	4,008	3,931	4.9
Shawnee	65,807	66,298	67,511	69,198	69,417	5.5
South Hutchinson			2,498	2,506	2,506	n/a
Spring Hill	7,326	7,871	8,547	9,242	9,689	32.3
Tonganoxie	5,583	5,690	5,702	5,850	5,589	0.1
Topeka	125,310	124,558	125,963	125,449	125,475	0.1
Ulysses	5,604	5,546	5,770	5,659	5,616	0.2
Valley Center	7,325	7,385	7,419	7,348	7,347	0.3
Wamego	4,732	4,718	4,860	4,880	4,846	2.4
Wellington	7,662	7,550	7,664	7,640	7,568	-1.2
Wichita	389,938	391,731	395,699	396,192	396,119	1.6
Winfield	11,943	11,807	11,726	11,701	11,669	-2.3

* Includes cities with populations of 2,500 or more as reported by the 2020 U.S. Census.

† Clearwater and South Hutchinson added; Girard, Herington, and Phillipsburg dropped.

Source: U.S. Bureau of the Census.

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C. LIVE BIRTHS AND FERTILITY

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Table C1
Birth Rates*
Kansas† and the U.S., 1912-2023

| | Birth Rates | | | Birth Rates | | | Birth Rates | |
Year	Kansas	U.S.	Year	Kansas	U.S.	Year	Kansas	U.S.
1912	22.8	29.8	1965	17.8	19.4	2018	12.5	11.6
1913	21.0	29.5	1966	16.3	18.4	2019	12.1	11.4
1914	21.2	29.9	1967	15.6	17.8	2020	11.8	10.9
1915	22.2	29.5	1968	15.7	17.6	2021	11.8	11.0
1916	24.0	29.1	1969	16.3	17.9	2022	11.7	11.0
1917	22.2	28.5	1970	17.0	18.4	2023	11.6	10.7
1918	22.1	28.2	1971	16.0	17.2			
1919	20.4	26.1	1972	14.6	15.6			
1920	22.7	27.7	1973	13.9	14.8			
1921	23.7	28.1	1974	14.2	14.8			
1922	21.9	26.2	1975	14.6	14.6			
1923	21.8	26.0	1976	15.2	14.6			
1924	20.9	26.1	1977	15.7	15.1			
1925	20.8	25.1	1978	15.5	15.0			
1926	19.6	24.2	1979	16.5	15.6			
1927	19.2	23.5	1980	17.2	15.9			
1928	18.4	22.2	1981	17.3	15.8			
1929	17.7	21.2	1982	16.9	15.9			
1930	18.4	21.3	1983	16.6	15.6			
1931	18.2	20.2	1984	16.4	15.6			
1932	17.5	19.5	1985	16.1	15.8			
1933	17.0	18.4	1986	15.9	15.6			
1934	17.8	19.0	1987	15.5	15.7			
1935	16.5	18.7	1988	15.5	16.0			
1936	16.3	18.4	1989	15.4	16.4			
1937	16.0	18.7	1990	15.7	16.7			
1938	16.4	19.2	1991	15.1	16.3			
1939	16.2	18.8	1992	15.0	15.9			
1940	16.2	19.4	1993	14.7	15.5			
1941	17.3	20.3	1994	14.6	15.2			
1942	19.4	22.2	1995	14.5	14.8			
1943	20.0	22.7	1996	14.2	14.7			
1944	19.4	21.2	1997	14.3	14.5			
1945	17.5	20.4	1998	14.6	14.6			
1946	21.7	24.1	1999	14.6	14.5			
1947	24.3	26.6	2000	14.7	14.7			
1948	22.7	24.9	2001	14.4	14.1			
1949	22.9	24.5	2002	14.5	13.9			
1950	23.1	24.1	2003	14.4	14.1			
1951	24.4	24.9	2004	14.5	14.0			
1952	25.2	25.1	2005	14.5	14.0			
1953	26.4	25.1	2006	14.8	14.2			
1954	26.8	25.3	2007	15.1	14.3			
1955	25.8	25.0	2008	14.9	13.9			
1956	25.5	25.2	2009	14.7	13.5			
1957	25.5	25.3	2010	14.2	13.0			
1958	24.6	24.5	2011	13.8	12.7			
1959	24.8	24.2	2012	14.0	12.6			
1960	23.8	23.7	2013	13.4	12.5			
1961	23.3	23.3	2014	13.5	12.5			
1962	22.5	22.4	2015	13.4	12.4			
1963	21.2	21.7	2016	13.1	12.2			
1964	19.9	21.1	2017	12.5	11.8			

*Rate per 1,000 population
†1912-1933 Occurrence data
 1934-2023 Residence data

Figure C1. Birth Rates
Kansas and the U.S., 1912-2023
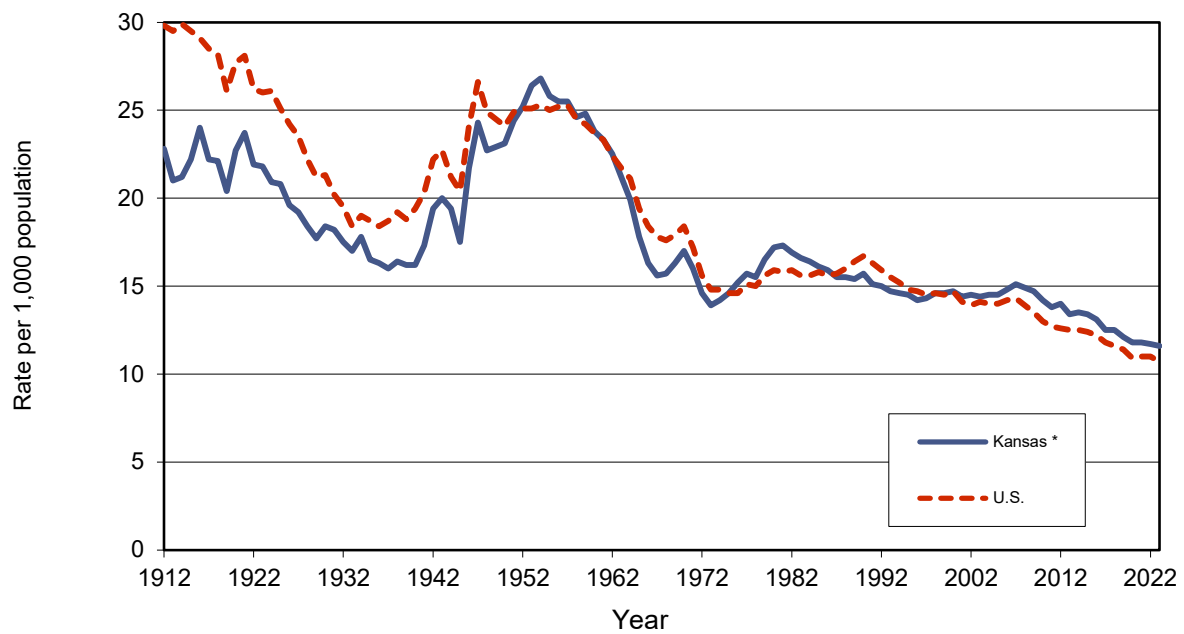
*1912-1934 Occurrence data
 1935-2023 Residence data

Figure C2. Fertility Rates
Kansas and the U.S., 2004-2023
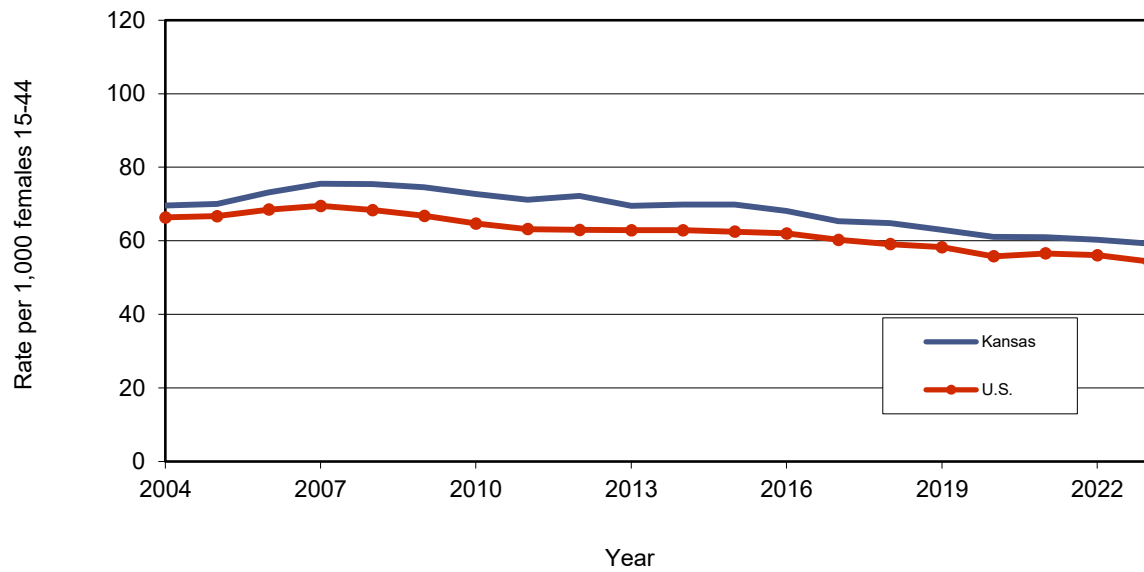
Figure C3. Age-Specific Fertility Rates* by Year by Age-Group of Mother Kansas, 2019-2023
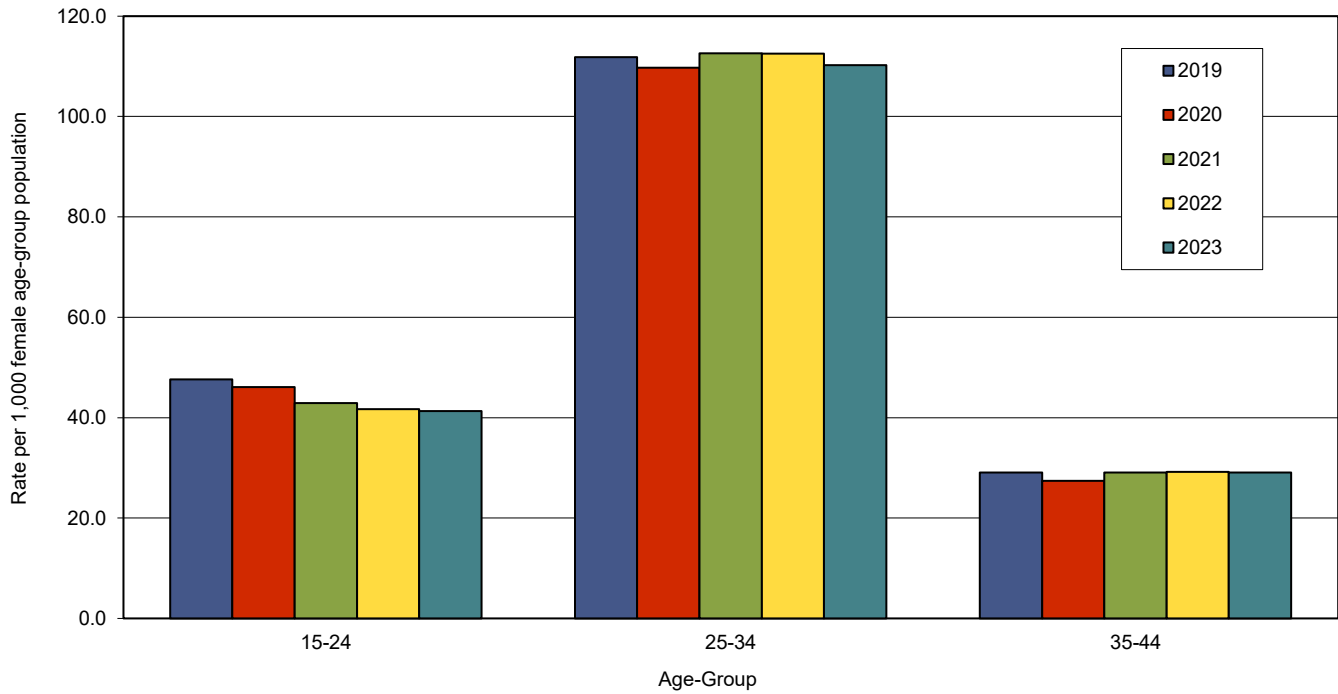
*Rate per 1,000 female age-group population

Table C2
Age-Specific Fertility Rates*
by Age-Group of Mother
Kansas, 2004-2023

Age-Group	Year																				Percent Change 2004-2023
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Total	69.6	70.0	73.2	75.5	75.4	74.6	72.7	71.2	72.2	69.5	69.9	69.9	68.1	65.3	64.8	63.0	61.1	61.0	60.3	59.3	-14.8
15-24	74.9	76.6	78.4	80.2	81.0	76.1	74.0	69.3	68.0	62.2	59.8	58.2	54.1	50.5	49.2	47.6	46.1	42.9	41.7	41.3	-44.9
25-34	115.2	112.5	119.8	121.7	0.0	120.4	115.4	115.0	117.5	115.8	119.5	120.2	118.8	115.3	116.0	111.8	109.7	112.6	112.5	110.2	-4.3
35-44	22.8	23.2	24.1	24.9	0.0	24.7	25.2	24.6	26.4	26.1	26.6	27.7	28.5	28.1	28.6	29.1	27.4	29.1	29.2	29.1	27.6

*Rate per 1,000 female age-group population

Table C3
Live Births by Age-Group of Mother by Sex of Infant
Kansas, 2023

Age-Group	Total		Sex		
of Mother	Number	Percent	Male	Female	Undetermined
Total*	34,041	100	17,528	16,512	1
Under 15	18	0.1	9	9	0
15-17	377	1.1	171	206	0
18-19	1,160	3.4	608	552	0
20-24	6,896	20.3	3,554	3,342	0
25-29	10,387	30.5	5,352	5,035	0
30-34	9,719	28.6	5,043	4,676	0
35-39	4,511	13.3	2,303	2,207	1
40-44	902	2.7	447	455	0
45 & Over	67	0.2	39	28	0
n.s.	4	n/a	2	2	0

Table C4
Live Births by Age-Group of Father by Age-Group of Mother
Kansas, 2023

Age-Group of Father	Total	Age-Group of Mother									
		Under 18	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	n.s.
Total..	34,041	395	18	1,537	6,896	10,387	9,719	4,511	902	67	4
Under 18....	153	96	8	136	9	0	0	0	0	0	0
10-14	2	2	1	1	0	0	0	0	0	0	0
15-19	712	195	7	529	161	8	4	3	0	0	0
20-24	4,521	53	0	550	3,278	602	72	17	2	0	0
25-29	8,270	4	0	83	1,913	5,249	900	110	14	1	0
30-34	9,318	3	0	18	493	2,978	5,110	652	61	5	1
35-39	5,686	1	0	15	136	637	2,441	2,274	175	7	1
40-44	2,084	1	0	2	59	185	545	905	375	11	2
45 & Over	788	0	0	2	19	75	163	297	194	38	0
n.s.	2,660	136	10	337	837	653	484	253	81	5	0

Table C5
Live Births by Age-Group of Mother by Birth Weight in Grams
Kansas, 2023

Age-Group of Mother	Total	Under 500	500 - 999	1,000 - 1,499	% Under 1500 gr (VLBW)	1,500 - 1,999	2,000 - 2,499	% Under 2500 gr (LBW)	2,500 - 2,999	3,000 - 3,499	3,500 - 3,999	4,000 - 4,499	4,500 - 4,999	5,000 & Over	n.s.
Total	34,041	50	123	195	1.1	515	1,730	7.7	6,263	13,010	9,345	2,445	316	45	4
10-14	18	0	0	0	0.0	0	2	11.1	4	6	4	2	0	0	0
15-19	1,537	1	6	11	1.2	33	121	11.2	369	652	276	63	4	1	0
20-24	6,896	12	29	38	1.1	99	401	8.4	1460	2745	1707	358	41	3	3
25-29	10,387	9	29	45	0.8	140	457	6.5	1819	4052	2979	755	89	12	1
30-34	9,719	15	33	56	1.1	125	457	7.1	1637	3615	2865	793	111	12	0
35-39	4,511	12	21	34	1.5	86	232	8.5	762	1627	1258	410	56	13	0
40-44	902	1	5	11	1.9	30	53	11.1	192	292	240	59	15	4	0
45 & Over	67	0	0	0	0.0	2	7	13.4	17	21	15	5	0	0	0
n.s.	4	0	0	0	n/a	0	0	n/a	3	0	1	0	0	0	0

Figure C4. Live Births by Birth Order*
Kansas, 2023
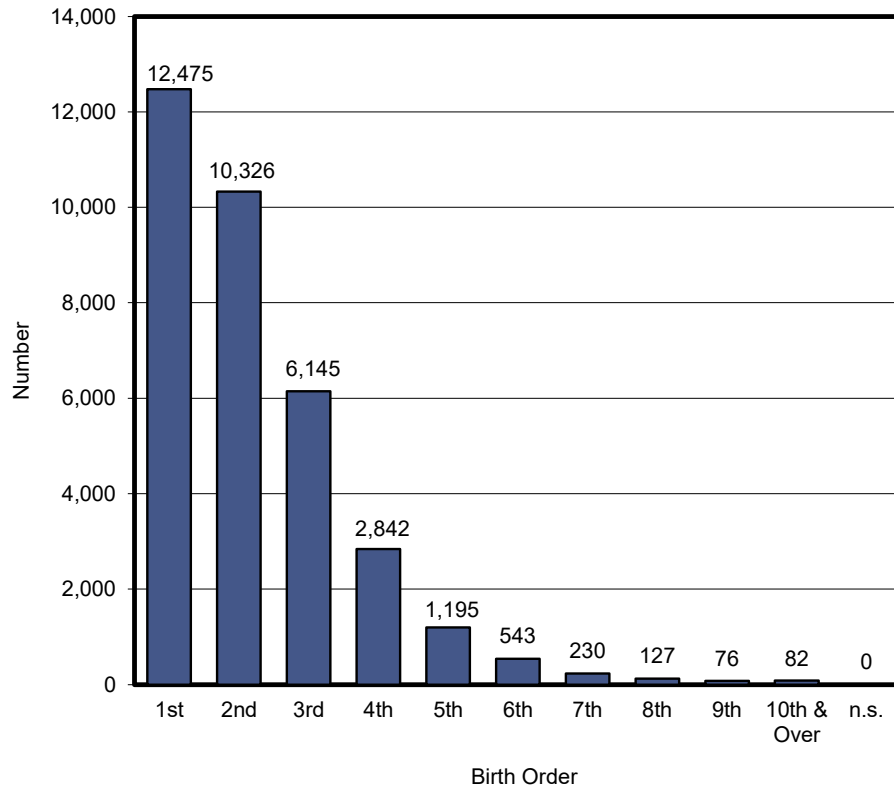
* Sum of prior live births plus current birth.

Table   C6
Live Births by Birth Order by Age-Group of Mother
Kansas, 2023

| Birth Order | Total | Age-Group of Mother | | | | | | | | | n.s. |
		Under 18	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	
Total	34,041	395	18	1,537	6,896	10,387	9,719	4,511	902	67	4
First	12,475	377	18	1,316	3,847	3,932	2,492	732	126	12	0
Second	10,326	16	0	188	2,103	3,367	3,124	1,333	195	16	0
Third	6,145	1	0	29	707	1,910	2,215	1,063	209	11	1
Fourth	2,842	1	0	3	188	764	1,093	664	121	7	2
Fifth	1,195	0	0	1	42	269	428	357	91	6	1
Sixth	543	0	0	0	8	109	201	158	64	3	0
Seventh	230	0	0	0	0	20	92	83	34	1	0
Eighth	127	0	0	0	0	8	43	49	24	3	0
Ninth	76	0	0	0	0	7	15	38	14	2	0
Tenth & Over	82	0	0	0	1	1	16	34	24	6	0
n.s.	0	0	0	0	0	0	0	0	0	0	0

Table C7
Live Births by Population Group of Mother
by Trimester Prenatal Care Began
Kansas, 2023

Population Group of Mother	Total	Trimester Care Began								
		1st		2nd		3rd		None		
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	n.s.
Total	34,041	27,319	80.7	5,006	14.8	1,169	3.5	366	1.1	181
White Non-Hispanic	22,953	19,595	85.7	2,629	11.5	484	2.1	165	0.7	80
Black Non-Hispanic	2,174	1,494	69.2	495	22.9	115	5.3	56	2.6	14
Native American Non-Hispanic	144	94	65.3	39	27.1	7	4.9	4	2.8	0
Asian/Pacific Islander Non-Hispanic	1,085	841	77.8	192	17.8	38	3.5	10	0.9	4
Other/Multi-Race Non-Hispanic	1,040	778	75.1	200	19.3	42	4.1	16	1.5	4
Hispanic	6,564	4,465	68.8	1,436	22.1	475	7.3	112	1.7	76
n.s.	81	52	66.7	15	19.2	8	10.3	3	3.8	3

Table C8
Live Births by Population Group of Mother by Birth Weight in Grams
Kansas, 2023

Population Group of Mother	Total	Birth Weight in Grams													
		Under 500	500 - 999	1,000 - 1,499	% Under 1500 gr (VLBW)	1,500 - 1,999	2,000 - 2,499	% Under 2500 gr (LBW)	2,500 - 2,999	3,000 - 3,499	3,500 - 3,999	4,000 - 4,499	4,500 - 4,999	5,000 & Over	n.s.
Total	34,041	50	123	195	1.1	515	1,730	7.7	6,263	13,010	9,345	2,445	316	45	4
White Non-Hispanic	22,953	32	62	121	0.9	320	1,053	6.9	3,859	8,569	6,775	1,889	241	30	2
Black Non-Hispanic	2,174	5	29	27	2.8	60	215	15.5	572	805	374	78	8	1	0
Native American Non-Hispanic	144	0	0	0	0.0	0	7	4.9	31	56	34	13	3	0	0
Asian/Pacific Islander Non-Hispanic	1,085	3	5	6	1.3	25	63	9.4	256	425	257	42	3	0	0
Other/Multi-Race Non-Hispanic	1,040	1	6	3	1.0	16	61	8.4	232	396	267	49	8	1	0
Hispanic	6,564	9	20	38	1.0	92	328	7.4	1,293	2,732	1,614	370	53	13	2
n.s.	81	0	1	0	1.2	2	3	7.4	20	27	24	4	0	0	0

Table C9
Live Births by Population Group of Mother by Final Route of Delivery
Kansas, 2023

Population Group of Mother	Total	Final Route of Delivery									
		Vaginal, Spontaneous	Vaginal, Forceps	Vaginal, Vacuum	Percent Vaginal	Cesarean, Trial of Labor	Cesarean, no Trial of Labor	Cesarean, Trial N.S.	Percent Cesarean	Percent Cesarean w/ Trial	n.s.
Total	34,041	23,018	123	580	69.7	3,310	7,004	2	30.3	32.1	4
White Non-Hispanic	22,953	15,536	93	386	69.8	2,171	4,764	2	30.2	31.3	1
Black Non-Hispanic	2,174	1,350	6	32	63.8	267	519	0	36.2	34.0	0
Native American Non-Hispanic	144	93	1	2	66.7	16	32	0	33.3	33.3	0
Asian/Pacific Islander Non-Hispanic	1,085	672	3	32	65.2	129	249	0	34.8	34.1	0
Other/Multi-Race Non-Hispanic	1,040	704	3	20	70.0	107	204	0	30.0	34.4	2
Hispanic	6,564	4,609	17	107	72.1	612	1,218	0	27.9	33.4	1
n.s.	81	54	0	1	67.9	8	18	0	32.1	30.8	0

Table C10
Live Births by County of Residence and Peer Group*
by Number and Rate[†]
Kansas, 2019-2023

County of Residence	Year										5-Year Rate
	2019		2020		2021		2022		2023		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Rate
Kansas	35,395	12.1	34,368	11.8	34,697	11.8	34,389	11.7	34,041	11.6	11.8
Allen	131	10.6	135	10.9	124	9.9	146	11.6	122	9.8	10.6
Anderson	88	11.2	86	10.8	103	13.2	94	12.1	104	13.3	12.1
Atchison	192	11.9	170	10.6	178	11.0	172	10.7	160	10.0	10.8
Barber	47	10.6	43	9.9	40	9.7	47	11.4	42	10.3	10.4
Barton	307	11.9	326	12.7	316	12.5	280	11.2	290	11.6	12.0
Bourbon	200	13.8	214	14.8	198	13.8	190	13.1	168	11.7	13.4
Brown	113	11.8	103	10.9	117	12.4	94	10.0	94	10.2	11.1
Butler	708	10.6	667	10.0	738	10.9	659	9.7	680	9.9	10.2
Chase	24	9.1	23	8.9	35	13.5	20	7.8	19	7.4	9.3
Chautauqua	34	10.5	30	9.3	25	7.4	28	8.2	38	11.4	9.3
Cherokee	222	11.1	219	11.1	208	10.9	184	9.6	191	10.0	10.6
Cheyenne	31	11.7	36	13.8	37	14.1	32	12.4	34	12.9	13.0
Clark	28	14.0	17	8.7	20	10.1	22	11.4	20	10.8	11.0
Clay	75	9.4	87	10.8	79	9.8	81	10.1	83	10.4	10.1
Cloud	110	12.5	113	13.1	104	11.6	105	11.7	79	8.9	11.6
Coffey	92	11.2	82	10.1	70	8.4	85	10.3	105	12.7	10.5
Comanche	15	8.8	11	6.5	17	10.2	20	11.9	22	13.3	10.1
Cowley	392	11.2	397	11.5	408	11.8	388	11.3	414	12.1	11.6
Crawford	437	11.3	420	10.8	469	12.0	443	11.3	443	11.4	11.4
Decatur	24	8.5	20	7.2	34	12.4	27	10.0	28	10.3	9.7
Dickinson	199	10.8	188	10.3	181	9.8	216	11.7	172	9.3	10.4
Doniphan	72	9.5	56	7.5	88	11.8	67	9.0	69	9.2	9.4
Douglas	1088	8.9	1021	8.3	1060	8.9	963	8.0	980	8.1	8.5
Edwards	30	10.7	34	12.4	29	10.2	23	8.4	32	11.7	10.7
Elk	19	7.5	16	6.4	19	7.8	25	10.2	18	7.3	7.8
Ellis	283	9.9	335	11.7	270	9.4	287	9.9	332	11.5	10.5
Ellsworth	62	10.2	52	8.6	54	8.5	65	10.2	52	8.2	9.1
Finney	576	15.8	548	15.3	552	14.5	563	15.0	547	14.6	15.0
Ford	628	18.7	563	17.0	592	17.3	555	16.4	597	17.6	17.4
Franklin	261	10.2	266	10.3	284	10.9	306	11.8	294	11.3	10.9
Geary	911	28.8	1034	32.1	936	26.0	855	24.0	920	26.3	27.3
Gove	37	14.0	28	10.7	32	11.6	33	12.1	38	13.9	12.5
Graham	18	7.3	25	10.5	26	10.8	25	10.4	26	10.9	10.0
Grant	106	14.8	93	13.1	116	15.8	98	13.6	88	12.3	14.0
Gray	81	13.5	84	14.1	82	14.5	81	14.1	103	17.9	14.8
Greeley	18	14.6	14	11.7	16	12.3	14	11.4	24	20.3	14.0
Greenwood	53	8.9	54	9.2	49	8.3	59	9.9	44	7.5	8.8
Hamilton	41	16.1	32	13.2	45	18.1	45	18.5	37	15.2	16.2
Harper	72	13.2	56	10.5	76	14.3	67	12.6	55	10.1	12.1
Harvey	389	11.3	354	10.3	340	10.1	363	10.7	381	11.4	10.8
Haskell	67	16.9	40	10.2	57	15.5	55	15.4	55	15.2	14.6
Hodgeman	15	8.4	21	11.8	11	6.4	18	10.3	15	9.1	9.2
Jackson	166	12.6	153	11.6	176	13.3	179	13.5	148	11.1	12.4
Jefferson	176	9.2	164	8.6	157	8.5	184	10.0	155	8.5	9.0
Jewell	23	8.0	25	8.8	33	11.2	32	11.0	31	10.9	10.0
Johnson	6949	11.5	6821	11.2	7014	11.4	6913	11.2	6871	11.0	11.3
Kearny	61	15.9	56	15.0	70	18.0	57	14.8	58	15.2	15.8
Kingman	73	10.2	72	10.3	79	10.7	75	10.4	66	9.3	10.2
Kiowa	13	5.3	27	11.0	28	11.7	32	13.3	30	12.6	10.7
Labette	257	13.1	230	11.7	231	11.6	244	12.4	256	13.0	12.4
Lane	7	4.6	17	11.2	18	11.5	17	10.9	25	16.4	10.9
Leavenworth	887	10.8	914	11.1	911	11.1	909	11.0	872	10.4	10.9
Lincoln	24	8.1	28	9.4	29	10.0	32	11.0	24	8.2	9.3
Linn	105	10.8	100	10.4	90	9.2	104	10.6	98	9.9	10.2
Logan	31	11.1	34	12.4	35	12.9	35	12.9	36	13.5	12.6

Table C10
Live Births by County of Residence and Peer Group*
by Number and Rate[†]
Kansas, 2019-2023

County of	Year										5-Year
	2019		2020		2021		2022		2023		
Residence	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Rate
Lyon	362	10.9	319	9.7	369	11.5	357	11.2	347	10.8	10.8
McPherson	290	10.2	288	10.1	325	10.8	334	11.1	282	9.4	10.3
Marion	124	10.4	125	10.7	114	9.7	113	9.5	128	10.9	10.3
Marshall	116	12.0	111	11.5	104	10.4	118	11.8	88	8.9	10.9
Meade	61	15.1	57	14.1	49	12.2	45	11.5	52	13.3	13.3
Miami	325	9.5	329	9.6	371	10.7	346	9.9	416	11.8	10.3
Mitchell	78	13.0	66	11.2	68	11.8	68	11.9	64	11.2	11.8
Montgomery	322	10.1	354	11.2	347	11.1	343	11.1	292	9.6	10.6
Morris	35	6.2	45	8.1	52	9.7	38	7.1	55	10.3	8.3
Morton	53	20.5	33	13.0	29	10.8	28	10.8	29	11.2	13.2
Nemaha	126	12.3	143	14.1	126	12.3	119	11.8	139	13.7	12.9
Neosho	202	12.6	178	11.2	190	12.0	186	11.9	213	13.8	12.3
Ness	28	10.2	31	11.2	32	12.0	28	10.6	31	11.8	11.1
Norton	52	9.7	60	11.3	52	9.7	48	9.1	53	9.9	9.9
Osage	163	10.2	172	10.9	162	10.3	135	8.6	151	9.5	9.9
Osborne	44	12.9	44	12.8	35	10.0	36	10.3	40	11.7	11.5
Ottawa	61	10.7	54	9.5	61	10.4	55	9.5	53	9.1	9.8
Pawnee	65	10.1	66	10.4	60	9.6	44	7.1	54	8.8	9.2
Phillips	47	9.0	50	9.7	56	11.6	43	8.9	55	11.6	10.1
Pottawatomie	338	13.9	354	14.3	368	14.3	377	14.3	378	14.3	14.2
Pratt	99	10.8	100	11.0	114	12.4	113	12.5	95	10.5	11.4
Rawlins	22	8.7	30	11.9	25	9.8	31	12.3	28	11.4	10.8
Reno	630	10.2	623	10.1	663	10.8	644	10.5	655	10.7	10.4
Republic	45	9.7	47	10.4	59	12.7	43	9.3	41	8.9	10.2
Rice	98	10.3	101	10.8	103	11.0	120	12.8	96	10.4	11.0
Riley	796	10.7	691	9.4	725	10.0	696	9.8	738	10.3	10.1
Rooks	47	9.6	45	9.3	53	11.0	50	10.4	43	9.0	9.8
Rush	29	9.6	27	9.2	27	9.1	28	9.6	24	8.5	9.2
Russell	69	10.1	65	9.6	65	9.7	57	8.6	75	11.2	9.8
Saline	677	12.5	612	11.3	591	11.0	636	11.9	581	10.9	11.5
Scott	75	15.6	64	13.4	69	13.4	80	16.0	66	13.4	14.3
Sedgwick	6736	13.1	6516	12.5	6513	12.4	6706	12.8	6460	12.2	12.6
Seward	387	18.1	361	17.2	390	17.9	384	18.0	361	17.1	17.7
Shawnee	2113	11.9	1993	11.3	1957	11.0	1902	10.7	1872	10.5	11.1
Sheridan	35	13.9	25	9.9	28	11.3	19	7.8	36	14.9	11.6
Sherman	80	13.5	59	10.2	79	13.4	59	10.1	62	10.6	11.6
Smith	35	9.8	21	5.9	42	11.7	27	7.6	38	10.6	9.1
Stafford	51	12.3	53	13.1	42	10.4	43	10.8	60	15.3	12.4
Stanton	23	11.5	20	10.2	16	7.8	31	15.8	24	12.6	11.5
Stevens	59	10.8	71	13.2	59	11.1	73	14.1	56	11.0	12.0
Sumner	263	11.5	253	11.2	220	9.8	261	11.6	237	10.6	11.0
Thomas	97	12.5	117	15.2	120	15.2	103	13.0	110	14.0	14.0
Trego	29	10.3	35	12.7	28	10.0	24	8.7	27	9.9	10.3
Wabaunsee	92	13.3	73	10.6	81	11.6	74	10.5	55	7.8	10.8
Wallace	14	9.2	24	15.6	24	15.9	19	12.8	23	15.2	13.8
Washington	67	12.4	68	12.5	77	14.0	72	13.1	66	12.0	12.8
Wichita	27	12.7	36	17.4	37	17.8	35	17.0	31	14.9	15.9
Wilson	92	10.8	93	11.1	77	9.0	94	10.9	70	8.4	10.0
Woodson	34	10.8	30	10.0	25	8.1	32	10.3	23	7.4	9.3
Wyandotte	2612	15.8	2481	15.0	2310	13.8	2358	14.2	2383	14.4	14.7
n.s.	2	N/A	1	N/A	2	N/A	1	N/A	0	N/A	N/A
Peer Group											
Frontier	1,171	11.1	1,131	10.8	1,250	11.4	1,189	10.9	1,244	11.5	11.2
Rural	2,575	11.4	2,517	11.2	2,733	11.2	2,729	11.3	2,606	10.8	11.2
Densely -Settled Rural	5,806	12.6	5,623	12.2	5,483	12.4	5,428	12.3	5,353	12.2	12.3
Semi-Urban	5,456	12.0	5,350	11.8	5,464	12.0	5,291	11.6	5,400	11.9	11.9
Urban	20,385	12.2	19,746	11.8	19,765	11.7	19,751	11.7	19,438	11.4	11.8

* See Technical Notes for Peer Group definition.
[†] Rate per 1,000 population.

Figure C5. Birth Rate
By County of Residence
Kansas, 2023
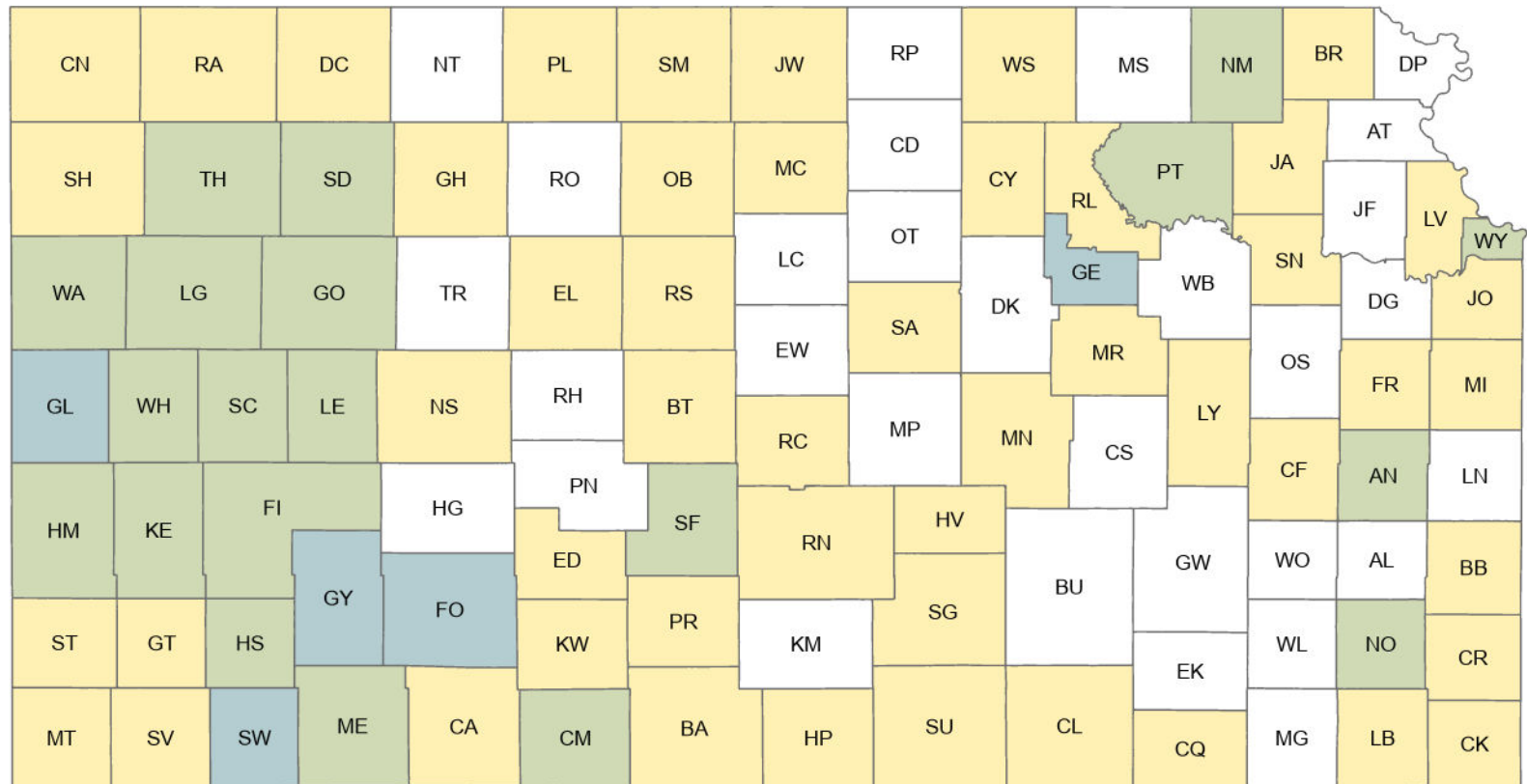
Live births per 100,000 population

State Rate: 11.6

RATE

| | Under 10.0 | | 10.0 - 12.9 | | 13.0 - 16.9 | | 17.0 and Over |

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Table C11
Live Births by County of Residence and Peer Group*
by Age-Group of Mother
Kansas, 2023

County of Residence		Age-Group of Mother								
	Total	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	n.s.
Kansas	34,041	18	1,537	6,896	10,387	9,719	4,511	902	67	4
Allen	122	1	8	35	35	32	8	3	0	0
Anderson	104	0	2	29	31	28	11	2	1	0
Atchison	160	0	5	46	57	26	19	7	0	0
Barber	42	0	1	9	19	9	4	0	0	0
Barton	290	0	21	80	88	62	35	4	0	0
Bourbon	168	0	7	54	53	33	17	3	1	0
Brown	94	0	4	28	21	21	17	3	0	0
Butler	680	0	24	130	223	198	86	18	1	0
Chase	19	0	0	6	5	4	4	0	0	0
Chautauqua	38	0	4	9	10	11	3	1	0	0
Cherokee	191	0	11	57	60	46	12	5	0	0
Cheyenne	34	0	1	7	12	9	5	0	0	0
Clark	20	0	0	4	7	5	3	1	0	0
Clay	83	0	3	13	31	26	8	2	0	0
Cloud	79	0	4	17	26	24	7	1	0	0
Coffey	105	0	8	23	41	24	7	1	1	0
Comanche	22	0	0	7	7	6	2	0	0	0
Cowley	414	0	39	102	140	89	35	8	1	0
Crawford.	443	0	35	98	143	103	54	9	1	0
Decatur	28	0	0	5	10	5	8	0	0	0
Dickinson	172	0	7	34	60	56	14	1	0	0
Doniphan	69	0	3	14	29	14	8	1	0	0
Douglas	980	0	32	152	295	290	165	43	1	2
Edwards	32	0	1	7	17	5	1	1	0	0
Elk	18	0	1	6	6	2	2	1	0	0
Ellis	332	0	9	54	111	90	57	11	0	0
Ellsworth	52	0	4	9	19	12	7	1	0	0
Finney	547	1	35	116	193	139	45	15	3	0
Ford	597	2	52	162	163	143	63	12	0	0
Franklin	294	1	15	76	91	74	30	5	2	0
Geary	920	0	36	336	308	157	63	17	2	1
Gove	38	0	1	8	20	6	3	0	0	0
Graham	26	0	0	6	10	5	5	0	0	0
Grant	88	0	4	32	21	25	6	0	0	0
Gray	103	0	0	22	44	23	10	4	0	0
Greeley	24	0	1	5	7	4	6	1	0	0
Greenwood	44	0	6	18	11	7	2	0	0	0
Hamilton	37	0	2	7	20	7	1	0	0	0
Harper	55	0	2	14	24	10	5	0	0	0
Harvey	381	0	21	75	131	91	47	14	2	0
Haskell	55	0	2	15	21	14	3	0	0	0
Hodgeman	15	0	0	2	7	4	2	0	0	0
Jackson	148	1	9	32	48	41	16	1	0	0
Jefferson	155	0	9	21	47	55	20	2	1	0
Jewell	31	0	2	7	11	6	5	0	0	0
Johnson	6,871	0	118	622	1,676	2,769	1,381	281	24	0
Kearny	58	0	3	13	22	12	7	1	0	0
Kingman	66	0	1	10	30	14	10	0	1	0
Kiowa	30	0	1	5	7	15	2	0	0	0
Labette	256	0	20	73	76	49	32	6	0	0
Lane	25	0	0	7	9	4	4	1	0	0
Leavenworth	872	0	28	146	253	298	124	22	1	0
Lincoln	24	0	2	5	11	3	2	1	0	0
Linn	98	0	3	22	43	17	13	0	0	0
Logan	36	0	3	10	13	5	4	1	0	0

Table   C11
Live Births by County of Residence and Peer Group*
by Age-Group of Mother
Kansas, 2023

County of Residence	Total	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	n.s.
Lyon	347	0	22	100	99	82	35	9	0	0
McPherson	282	0	7	52	95	89	34	5	0	0
Marion	128	0	6	26	43	37	15	1	0	0
Marshall	88	0	4	19	29	25	9	2	0	0
Meade	52	0	1	9	23	10	8	1	0	0
Miami	416	0	10	61	126	150	59	10	0	0
Mitchell	64	0	0	14	27	18	3	2	0	0
Montgomery	292	1	23	86	80	71	29	2	0	0
Morris	55	0	3	8	19	21	4	0	0	0
Morton	29	0	1	10	9	6	3	0	0	0
Nemaha	139	0	1	18	58	48	12	1	1	0
Neosho	213	0	13	72	67	33	22	5	1	0
Ness	31	0	2	6	10	8	4	1	0	0
Norton	53	0	2	15	18	15	3	0	0	0
Osage	151	1	6	37	59	29	18	1	0	0
Osborne	40	0	3	8	9	12	6	2	0	0
Ottawa	53	0	0	9	23	15	5	1	0	0
Pawnee	54	0	1	14	17	18	3	1	0	0
Phillips	55	0	2	13	19	17	3	1	0	0
Pottawatomie	378	0	3	67	126	107	63	12	0	0
Pratt	95	0	5	17	39	27	7	0	0	0
Rawlins	28	0	0	7	7	8	4	1	1	0
Reno	655	0	39	177	206	153	64	13	3	0
Republic	41	0	3	6	9	15	7	1	0	0
Rice	96	0	2	26	36	24	8	0	0	0
Riley	738	0	28	188	237	186	86	12	1	0
Rooks	43	0	0	8	24	8	3	0	0	0
Rush	24	0	1	8	8	5	1	1	0	0
Russell	75	0	3	16	23	22	8	3	0	0
Saline	581	1	30	156	170	148	62	14	0	0
Scott	66	0	3	12	28	16	7	0	0	0
Sedgwick	6,460	5	319	1,398	2,056	1,736	785	154	6	1
Seward	361	3	27	87	115	73	48	7	1	0
Shawnee	1,872	0	120	447	587	457	212	47	2	0
Sheridan	36	0	1	4	18	11	2	0	0	0
Sherman	62	0	3	12	17	23	6	1	0	0
Smith	38	0	0	11	13	8	5	1	0	0
Stafford	60	0	2	14	13	17	13	1	0	0
Stanton	24	0	2	4	7	9	1	1	0	0
Stevens	56	0	2	21	14	16	2	1	0	0
Sumner	237	0	9	54	91	56	25	2	0	0
Thomas	110	0	3	21	36	35	11	3	1	0
Trego	27	0	2	5	8	8	4	0	0	0
Wabaunsee	55	0	1	8	23	12	7	4	0	0
Wallace	23	0	0	5	7	7	4	0	0	0
Washington	66	0	0	6	19	28	9	2	2	0
Wichita	31	0	1	8	11	10	1	0	0	0
Wilson.	70	0	9	21	22	12	5	1	0	0
Woodson	23	0	2	8	7	3	2	1	0	0
Wyandotte	2,383	1	200	595	707	548	264	63	5	0
n.s.	0	0	0	0	0	0	0	0	0	0
Peer Group										
Frontier	1,244	0	50	285	444	301	143	20	1	0
Rural	2,606	0	96	573	933	701	256	40	7	0
Densely -Settled Rural	5,353	9	313	1,295	1,721	1,288	601	118	8	0
Semi-Urban	5,400	3	261	1,383	1,715	1,331	580	114	12	1
Urban	19,438	6	817	3,360	5,574	6,098	2,931	610	39	3

* See Technical Notes for Peer Group definition.

Table C12
Live Births by County of Residence and Peer Group*
By Weeks Gestation
Kansas, 2023

County of Residence	Total	Weeks Gestation											Percent Premature <37 weeks
		19 & Under	20-22	23-27	28-31	32-35	36	37-38	39	40-41	42 & Over	n.s.	
Kansas	34,041	13	35	117	280	1,564	1,549	10,234	13,353	6,790	83	23	10.5
Allen	122	0	0	0	0	7	6	30	56	23	0	0	10.7
Anderson	104	0	0	0	3	1	3	31	50	15	1	0	6.7
Atchison	160	0	0	1	0	6	4	45	68	34	1	1	6.9
Barber	42	0	0	0	2	4	1	7	18	10	0	0	16.7
Barton	290	0	0	1	2	16	15	92	135	29	0	0	11.7
Bourbon	168	0	0	2	2	9	9	47	69	27	2	1	13.2
Brown	94	0	0	0	1	4	6	22	40	20	1	0	11.7
Butler	680	0	3	5	6	28	41	205	246	145	1	0	12.2
Chase	19	0	0	0	0	4	6	2	4	3	0	0	52.6
Chautauqua	38	1	0	0	0	3	2	14	14	4	0	0	15.8
Cherokee	191	0	0	1	3	6	15	52	91	22	0	1	13.2
Cheyenne	34	0	0	0	0	0	2	12	14	6	0	0	5.9
Clark	20	0	0	0	1	0	0	4	10	5	0	0	5.0
Clay	83	0	2	0	0	4	5	23	38	11	0	0	13.3
Cloud	79	0	0	2	0	3	6	28	36	4	0	0	13.9
Coffey	105	0	0	1	0	0	4	32	50	18	0	0	4.8
Comanche	22	0	0	1	0	0	1	6	7	7	0	0	9.1
Cowley	414	0	0	1	2	18	17	123	163	89	1	0	9.2
Crawford	443	0	0	1	2	20	20	151	171	78	0	0	9.7
Decatur	28	0	0	0	0	3	4	9	8	4	0	0	25.0
Dickinson	172	0	0	2	3	3	9	50	79	24	1	1	9.9
Doniphan	69	0	0	2	1	2	3	14	30	17	0	0	11.6
Douglas	980	0	4	0	4	45	42	299	407	177	2	0	9.7
Edwards	32	0	0	0	0	0	1	8	17	6	0	0	3.1
Elk	18	0	0	1	1	0	1	8	5	2	0	0	16.7
Ellis	332	0	0	2	1	18	17	85	131	78	0	0	11.4
Ellsworth	52	0	0	0	0	4	1	13	28	6	0	0	9.6
Finney	547	2	0	3	3	29	25	141	231	111	1	1	11.4
Ford	597	1	0	1	3	19	18	168	229	155	3	0	7.0
Franklin	294	0	0	0	1	15	12	91	132	42	1	0	9.5
Geary	920	0	1	2	11	35	39	261	390	177	2	2	9.6
Gove	38	0	0	0	0	3	4	9	12	10	0	0	18.4
Graham	26	0	0	0	0	2	2	11	8	3	0	0	15.4
Grant	88	0	0	0	0	5	3	24	35	21	0	0	9.1
Gray	103	0	1	0	1	2	1	29	43	26	0	0	4.9
Greeley	24	0	0	0	0	3	0	7	9	4	0	1	13.0
Greenwood	44	0	0	0	1	3	2	11	18	9	0	0	13.6
Hamilton	37	0	0	0	0	0	1	12	12	12	0	0	2.7
Harper	55	0	0	0	0	2	7	18	19	9	0	0	16.4
Harvey	381	0	0	1	5	17	18	124	143	73	0	0	10.8
Haskell	55	0	0	2	1	3	1	16	14	18	0	0	12.7
Hodgeman	15	0	0	0	0	0	0	2	11	2	0	0	0.0
Jackson	148	0	0	1	1	8	7	41	67	23	0	0	11.5
Jefferson	155	0	0	0	0	8	6	45	53	43	0	0	9.0
Jewell	31	0	0	0	2	2	1	10	12	4	0	0	16.1
Johnson	6,871	3	6	19	48	256	250	1,978	2,826	1,468	16	1	8.5
Kearny	58	0	0	1	0	2	2	13	33	7	0	0	8.6
Kingman	66	0	0	0	3	6	1	18	26	12	0	0	15.2
Kiowa	30	0	0	0	0	1	1	6	12	9	1	0	6.7
Labette	256	0	1	0	4	23	9	82	90	44	2	1	14.5
Lane	25	0	0	0	0	2	1	9	11	2	0	0	12.0
Leavenworth	872	0	0	6	8	35	47	290	350	133	2	1	11.0
Lincoln	24	0	0	0	0	1	1	8	14	0	0	0	8.3
Linn	98	0	0	1	1	1	5	34	41	14	1	0	8.2
Logan	36	0	0	0	0	0	1	16	12	7	0	0	2.8

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Table C12
Live Births by County of Residence and Peer Group*
By Weeks Gestation
Kansas, 2023

County of Residence	Total	19 & Under	20-22	23-27	28-31	32-35	36	37-38	39	40-41	42 & Over	n.s.	Percent Premature <37 weeks
Lyon	347	0	0	0	7	23	14	109	128	66	0	0	12.7
McPherson	282	1	1	1	3	9	13	71	128	55	0	0	9.9
Marion	128	0	0	1	0	7	1	44	54	21	0	0	7.0
Marshall	88	0	0	0	1	3	3	23	40	17	0	1	8.0
Meade	52	0	0	0	0	3	2	12	19	16	0	0	9.6
Miami	416	0	0	0	1	19	23	118	170	83	2	0	10.3
Mitchell	64	0	0	1	1	7	2	14	26	13	0	0	17.2
Montgomery	292	0	1	1	1	15	23	87	122	42	0	0	14.0
Morris	55	0	0	0	0	1	5	13	26	10	0	0	10.9
Morton	29	0	0	0	0	1	2	9	10	7	0	0	10.3
Nemaha	139	0	0	0	0	5	7	54	53	20	0	0	8.6
Neosho	213	0	0	0	1	5	14	50	92	50	1	0	9.4
Ness	31	0	0	1	0	0	1	8	14	7	0	0	6.5
Norton	53	0	0	1	1	2	2	20	17	10	0	0	11.3
Osage	151	0	0	0	2	7	10	38	64	30	0	0	12.6
Osborne	40	0	0	0	0	0	0	17	16	7	0	0	0.0
Ottawa	53	0	0	0	0	2	3	15	24	9	0	0	9.4
Pawnee	54	0	0	0	0	4	4	10	24	12	0	0	14.8
Phillips	55	0	0	0	0	2	3	22	21	7	0	0	9.1
Pottawatomie	378	0	0	0	0	17	12	101	151	95	2	0	7.7
Pratt	95	0	0	0	0	2	6	21	37	28	1	0	8.4
Rawlins	28	0	0	0	0	0	2	9	9	8	0	0	7.1
Reno	655	0	0	2	8	34	30	192	260	129	0	0	11.3
Republic	41	0	0	0	1	2	0	9	23	6	0	0	7.3
Rice	96	0	0	0	3	3	5	31	36	18	0	0	11.5
Riley	738	0	0	3	6	30	28	194	263	209	3	2	9.1
Rooks	43	0	0	0	0	5	3	12	13	10	0	0	18.6
Rush	24	0	0	0	0	5	0	7	9	3	0	0	20.8
Russell	75	0	0	0	0	3	7	25	32	7	1	0	13.3
Saline	581	0	2	0	8	31	28	166	260	84	2	0	11.9
Scott	66	0	0	0	1	3	1	22	28	11	0	0	7.6
Sedgwick	6,460	4	5	26	52	349	307	2,038	2,168	1,496	12	3	11.5
Seward	361	0	0	2	2	10	20	102	136	85	1	3	9.5
Shawnee	1,872	0	2	9	18	100	101	591	784	259	6	2	12.3
Sheridan	36	0	0	0	0	2	2	9	21	2	0	0	11.1
Sherman	62	0	0	0	0	7	2	23	22	8	0	0	14.5
Smith	38	0	0	0	0	1	1	22	10	4	0	0	5.3
Stafford	60	0	0	0	2	5	1	15	28	9	0	0	13.3
Stanton	24	0	0	0	0	2	0	10	9	3	0	0	8.3
Stevens	56	0	0	0	1	0	0	17	26	11	1	0	1.8
Sumner	237	1	0	0	2	9	10	93	78	44	0	0	9.3
Thomas	110	0	0	0	3	5	7	32	45	18	0	0	13.6
Trego	27	0	0	0	0	1	2	8	12	4	0	0	11.1
Wabaunsee	55	0	0	0	1	1	1	13	29	9	1	0	5.5
Wallace	23	0	0	0	0	1	0	8	10	4	0	0	4.3
Washington	66	0	0	1	0	4	1	26	24	10	0	0	9.1
Wichita	31	0	0	0	0	1	1	10	15	4	0	0	6.5
Wilson	70	0	0	0	2	2	1	25	27	13	0	0	7.1
Woodson	23	0	0	0	0	1	0	8	10	4	0	0	4.3
Wyandotte	2,383	0	6	8	25	122	132	775	892	411	11	1	12.3
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Peer Group													
Frontier	1,244	1	0	4	9	69	56	385	499	219	1	1	11.2
Rural	2,606	1	3	10	27	101	109	803	1,079	465	7	1	9.6
Densely -Settled Rural	5,353	4	2	20	40	243	243	1,486	2,191	1,100	15	9	10.3
Semi-Urban	5,400	0	7	15	49	244	262	1,589	2,157	1,062	11	4	10.7
Urban	19,438	7	23	68	155	907	879	5,971	7,427	3,944	49	8	10.5

* See Technical Notes for Peer Group definition.

Table C13
Live Births by County of Residence and Peer Group*
by Month Prenatal Care Began
Kansas, 2023

County of Residence	Total	1st	2nd	3rd	% Care in 1st Trimester	4th	5th	6th	7th	8th	9th or Later	None	n.s.
Kansas	34,041	366	589	10,932	35.1	15,798	3,035	1,234	737	509	444	216	181
Allen	122	2	4	46	42.6	53	7	3	2	1	4	0	0
Anderson	104	1	2	25	27.2	47	15	6	2	0	3	2	1
Atchison	160	1	4	67	45.0	68	13	2	0	3	1	1	0
Barber	42	0	1	9	23.8	30	0	1	1	0	0	0	0
Barton	290	0	2	98	34.5	149	22	7	1	4	4	3	0
Bourbon	168	4	6	63	44.2	50	13	4	6	5	7	7	3
Brown	94	1	2	23	27.7	47	10	6	4	0	1	0	0
Butler	680	8	13	277	43.8	299	51	16	4	7	3	2	0
Chase	19	0	3	4	36.8	10	2	0	0	0	0	0	0
Chautauqua	38	0	0	18	47.4	13	1	2	1	0	3	0	0
Cherokee	191	0	1	47	25.5	96	19	10	6	7	2	0	3
Cheyenne	34	0	0	16	48.5	13	2	1	0	1	0	0	1
Clark	20	0	1	10	55.0	7	0	1	1	0	0	0	0
Clay	83	1	3	19	28.4	46	6	3	1	1	1	0	2
Cloud	79	0	3	23	32.9	38	10	3	1	0	0	1	0
Coffey	105	3	5	31	37.1	46	5	8	3	1	1	2	0
Comanche	22	0	0	6	27.3	11	2	3	0	0	0	0	0
Cowley	414	13	11	150	42.3	123	33	29	13	15	17	7	3
Crawford	443	1	5	149	35.2	189	39	14	12	12	9	10	3
Decatur	28	0	0	5	17.9	19	3	0	0	0	1	0	0
Dickinson	172	1	4	68	42.7	78	10	5	1	1	2	1	1
Doniphan	69	0	0	27	39.1	27	6	4	2	1	2	0	0
Douglas	980	5	10	396	42.0	431	73	28	15	12	6	3	1
Edwards	32	0	2	10	37.5	16	2	2	0	0	0	0	0
Elk	18	0	0	9	50.0	7	1	0	0	0	1	0	0
Ellis	332	1	2	37	12.0	246	19	13	5	5	2	2	0
Ellsworth	52	0	0	23	44.2	20	3	2	1	2	1	0	0
Finney	547	8	7	70	15.6	269	68	35	27	24	27	9	3
Ford	597	11	36	176	39.1	176	65	43	34	12	10	8	26
Franklin	294	2	10	99	37.8	136	24	13	3	5	1	1	0
Geary	920	7	24	189	24.3	498	95	30	23	10	21	9	14
Gove	38	0	1	16	44.7	17	2	1	0	0	1	0	0
Graham	26	0	0	6	23.1	15	2	1	1	1	0	0	0
Grant	88	0	2	15	19.8	47	11	0	3	1	5	2	2
Gray	103	0	4	27	31.3	49	10	3	1	3	2	0	4
Greeley	24	1	0	2	13.0	13	3	3	0	1	0	0	1
Greenwood	44	1	1	8	22.7	24	1	2	2	3	2	0	0
Hamilton	37	1	0	3	10.8	17	2	4	3	3	2	2	0
Harper	55	0	0	23	41.8	25	4	1	0	0	2	0	0
Harvey	381	2	5	115	32.0	214	21	8	4	5	7	0	0
Haskell	55	1	2	14	30.9	20	12	3	2	0	0	1	0
Hodgeman	15	0	1	7	53.3	5	1	0	0	0	1	0	0
Jackson	148	1	1	14	10.8	85	21	10	4	3	7	2	0
Jefferson	155	0	1	34	22.6	100	7	6	3	3	0	1	0
Jewell	31	0	0	12	38.7	15	3	1	0	0	0	0	0
Johnson	6,871	42	124	2,438	38.0	3,201	667	171	96	62	36	16	18
Kearny	58	2	0	7	15.5	33	6	4	1	1	3	1	0
Kingman	66	1	1	17	28.8	35	8	3	1	0	0	0	0
Kiowa	30	0	0	9	30.0	15	3	1	0	0	1	1	0
Labette	256	4	7	93	41.1	65	25	13	16	17	9	4	3
Lane	25	0	0	5	20.0	11	3	3	1	1	1	0	0
Leavenworth	872	11	10	346	42.2	394	60	23	11	6	8	1	2
Lincoln	24	0	1	14	62.5	9	0	0	0	0	0	0	0
Linn	98	0	4	37	42.3	40	12	1	3	0	0	0	1
Logan	36	0	0	15	41.7	14	1	3	2	0	0	1	0

Table C13
Live Births by County of Residence and Peer Group*
by Month Prenatal Care Began
Kansas, 2023

County of Residence	Total	1st	2nd	3rd	% Care in 1st Trimester	4th	5th	6th	7th	8th	9th or Later	None	n.s.
Lyon	347	2	4	106	32.4	180	25	11	8	7	2	1	1
McPherson	282	1	7	87	33.7	145	22	9	2	3	4	2	0
Marion	128	0	1	33	26.6	76	10	2	3	0	1	2	0
Marshall	88	0	2	26	31.8	45	10	1	3	1	0	0	0
Meade	52	1	2	14	32.7	25	6	2	2	0	0	0	0
Miami	416	2	17	169	45.3	178	35	8	3	0	3	0	1
Mitchell	64	0	3	25	43.8	25	6	1	1	2	1	0	0
Montgomery	292	2	7	113	42.1	105	29	13	9	7	4	1	2
Morris	55	0	2	10	21.8	34	3	2	1	1	1	1	0
Morton	29	1	0	4	18.5	14	5	2	1	0	0	0	2
Nemaha	139	1	2	26	20.9	84	16	4	5	1	0	0	0
Neosho	213	2	2	71	35.5	83	14	6	23	7	2	1	2
Ness	31	0	0	9	30.0	17	2	0	1	1	0	0	1
Norton	53	0	2	11	24.5	27	6	4	1	2	0	0	0
Osage	151	1	2	19	14.7	99	13	4	6	1	4	1	1
Osborne	40	0	1	14	37.5	21	1	3	0	0	0	0	0
Ottawa	53	0	1	18	35.8	26	4	2	0	1	1	0	0
Pawnee	54	0	0	11	20.4	40	2	1	0	0	0	0	0
Phillips	55	0	0	15	27.3	33	4	2	0	1	0	0	0
Pottawatomie	378	0	13	59	19.0	205	56	23	11	4	3	4	0
Pratt	95	0	0	26	27.4	51	13	2	2	0	0	1	0
Rawlins	28	0	0	12	42.9	12	3	0	0	0	1	0	0
Reno	655	9	9	213	35.3	295	48	30	18	12	13	7	1
Republic	41	0	0	14	35.0	21	4	0	1	0	0	0	1
Rice	96	1	0	44	46.9	41	5	3	0	1	1	0	0
Riley	738	7	21	156	25.3	390	62	29	22	15	19	7	10
Rooks	43	0	0	3	7.0	36	1	2	0	0	0	1	0
Rush	24	0	0	6	25.0	15	2	0	1	0	0	0	0
Russell	75	1	1	19	28.0	43	8	1	0	1	1	0	0
Saline	581	2	6	247	44.0	232	55	17	5	4	6	5	2
Scott	66	1	1	14	24.6	32	8	3	2	2	1	1	1
Sedgwick	6,460	76	84	2,805	46.0	2,698	376	175	87	59	59	28	13
Seward	361	7	6	69	23.5	117	57	33	28	13	12	7	12
Shawnee	1,872	23	15	117	8.3	1,268	222	85	45	40	30	23	4
Sheridan	36	0	1	12	36.1	18	2	0	2	0	1	0	0
Sherman	62	1	2	23	43.3	20	1	6	4	1	0	2	2
Smith	38	0	1	20	55.3	13	2	2	0	0	0	0	0
Stafford	60	0	0	21	35.6	31	3	3	1	0	0	0	1
Stanton	24	0	0	7	29.2	11	3	0	1	1	1	0	0
Stevens	56	0	0	11	20.0	25	8	4	3	2	1	1	1
Sumner	237	4	0	110	48.5	93	14	4	5	3	1	1	2
Thomas	110	1	5	38	40.0	49	10	2	0	4	1	0	0
Trego	27	0	0	7	25.9	19	1	0	0	0	0	0	0
Wabaunsee	55	0	0	5	9.1	39	7	3	1	0	0	0	0
Wallace	23	0	0	3	13.6	14	4	1	0	0	0	0	1
Washington	66	1	3	8	18.2	43	8	3	0	0	0	0	0
Wichita	31	0	0	5	16.1	17	6	0	2	1	0	0	0
Wilson	70	1	0	28	42.6	27	7	3	1	1	0	0	2
Woodson	23	0	0	9	39.1	10	0	1	0	1	1	1	0
Wyandotte	2,383	81	40	573	29.4	935	322	163	103	70	52	18	26
n.s.	0	0	0	0	n/a	0	0	0	0	0	0	0	0
Peer Group													
Frontier	1,244	8	18	366	31.7	630	86	56	28	16	19	8	9
Rural	2,606	19	51	763	32.2	1,291	255	85	51	31	27	16	17
Densely -Settled Rural	5,353	59	120	1,401	29.8	2,414	515	270	198	136	121	61	58
Semi-Urban	5,400	42	117	1,727	35.1	2,536	459	178	103	77	86	42	33
Urban	19,438	238	283	6,675	37.1	8,927	1,720	645	357	249	191	89	64

* See Technical Notes for Peer Group definition.

Table C14
Live Births by County of Residence and Peer Group*
by Adequacy of Prenatal Care Utilization (APNCU) Index[†]
Kansas, 2023

County of Residence	Live Births	APNCU Category[‡]								n.s.
		Adequate Plus		Adequate		Intermediate		Inadequate		
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	
Kansas	34,041	10,902	32.2	17,203	50.9	1,879	5.6	3,836	11.3	221
Allen	122	47	38.5	54	44.3	6	4.9	15	12.3	0
Anderson	104	36	36.0	46	46.0	4	4.0	14	14.0	4
Atchison	160	33	20.6	114	71.3	4	2.5	9	5.6	0
Barber	42	8	19.0	31	73.8	1	2.4	2	4.8	0
Barton	290	155	53.4	104	35.9	8	2.8	23	7.9	0
Bourbon	168	52	31.5	68	41.2	10	6.1	35	21.2	3
Brown	94	29	30.9	45	47.9	8	8.5	12	12.8	0
Butler	680	195	28.7	427	62.9	13	1.9	44	6.5	1
Chase	19	11	57.9	7	36.8	1	5.3	0	0.0	0
Chautauqua	38	14	36.8	16	42.1	2	5.3	6	15.8	0
Cherokee	191	69	36.7	86	45.7	4	2.1	29	15.4	3
Cheyenne	34	8	24.2	19	57.6	4	12.1	2	6.1	1
Clark	20	2	10.5	11	57.9	3	15.8	3	15.8	1
Clay	83	30	36.1	42	50.6	2	2.4	9	10.8	0
Cloud	79	19	24.1	48	60.8	6	7.6	6	7.6	0
Coffey	105	52	49.5	32	30.5	2	1.9	19	18.1	0
Comanche	22	4	18.2	15	68.2	0	0.0	3	13.6	0
Cowley	414	125	30.4	168	40.9	20	4.9	98	23.8	3
Crawford	443	160	36.4	190	43.2	27	6.1	63	14.3	3
Decatur	28	13	48.1	11	40.7	2	7.4	1	3.7	1
Dickinson	172	49	28.7	92	53.8	18	10.5	12	7.0	1
Doniphan	69	23	33.8	33	48.5	2	2.9	10	14.7	1
Douglas	980	421	43.0	461	47.1	23	2.4	73	7.5	2
Edwards	32	9	28.1	19	59.4	2	6.3	2	6.3	0
Elk	18	9	50.0	7	38.9	1	5.6	1	5.6	0
Ellis	332	51	15.4	236	71.3	16	4.8	28	8.5	1
Ellsworth	52	13	25.0	29	55.8	4	7.7	6	11.5	0
Finney	547	132	24.2	243	44.6	30	5.5	140	25.7	2
Ford	597	80	14.3	231	41.3	112	20.0	137	24.5	37
Franklin	294	107	36.9	144	49.7	14	4.8	25	8.6	4
Geary	920	202	22.3	333	36.7	258	28.4	114	12.6	13
Gove	38	8	21.1	23	60.5	5	13.2	2	5.3	0
Graham	26	7	26.9	14	53.8	2	7.7	3	11.5	0
Grant	88	12	14.1	48	56.5	11	12.9	14	16.5	3
Gray	103	22	22.2	53	53.5	13	13.1	11	11.1	4
Greeley	24	7	30.4	7	30.4	4	17.4	5	21.7	1
Greenwood	44	14	31.8	18	40.9	2	4.5	10	22.7	0
Hamilton	37	7	18.9	13	35.1	2	5.4	15	40.5	0
Harper	55	18	32.7	32	58.2	2	3.6	3	5.5	0
Harvey	381	158	41.6	185	48.7	9	2.4	28	7.4	1
Haskell	55	17	31.5	25	46.3	6	11.1	6	11.1	1
Hodgeman	15	1	6.7	10	66.7	3	20.0	1	6.7	0
Jackson	148	58	39.2	56	37.8	6	4.1	28	18.9	0
Jefferson	155	59	38.1	79	51.0	4	2.6	13	8.4	0
Jewell	31	9	29.0	16	51.6	5	16.1	1	3.2	0
Johnson	6,871	2,843	41.5	3,286	48.0	246	3.6	473	6.9	23
Kearny	58	10	17.2	33	56.9	3	5.2	12	20.7	0
Kingman	66	18	27.3	42	63.6	1	1.5	5	7.6	0
Kiowa	30	6	20.7	19	65.5	1	3.4	3	10.3	1
Labette	256	56	22.2	116	46.0	11	4.4	69	27.4	4
Lane	25	8	33.3	9	37.5	1	4.2	6	25.0	1
Leavenworth	872	262	30.1	520	59.8	25	2.9	62	7.1	3
Lincoln	24	11	45.8	12	50.0	1	4.2	0	0.0	0
Linn	98	43	43.9	44	44.9	6	6.1	5	5.1	0
Logan	36	9	25.0	18	50.0	3	8.3	6	16.7	0

Table C14

Live Births by County of Residence and Peer Group*

by Adequacy of Prenatal Care Utilization (APNCU) Index[†]

Kansas, 2023

County of Residence	Live Births	APNCU Category[‡]								n.s.
		Adequate Plus		Adequate		Intermediate		Inadequate		
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	
Lyon	347	150	43.5	145	42.0	19	5.5	31	9.0	2
McPherson	282	84	29.8	159	56.4	16	5.7	23	8.2	0
Marion	128	60	46.9	57	44.5	3	2.3	8	6.3	0
Marshall	88	22	25.0	54	61.4	7	8.0	5	5.7	0
Meade	52	6	11.8	33	64.7	7	13.7	5	9.8	1
Miami	416	180	43.4	202	48.7	15	3.6	18	4.3	1
Mitchell	64	15	23.4	40	62.5	4	6.3	5	7.8	0
Montgomery	292	107	37.0	132	45.7	13	4.5	37	12.8	3
Morris	55	18	32.7	27	49.1	4	7.3	6	10.9	0
Morton	29	5	18.5	15	55.6	3	11.1	4	14.8	2
Nemaha	139	51	36.7	67	48.2	9	6.5	12	8.6	0
Neosho	213	60	28.2	96	45.1	11	5.2	46	21.6	0
Ness	31	2	6.7	20	66.7	6	20.0	2	6.7	1
Norton	53	6	11.3	30	56.6	9	17.0	8	15.1	0
Osage	151	56	37.3	74	49.3	3	2.0	17	11.3	1
Osborne	40	11	27.5	24	60.0	2	5.0	3	7.5	0
Ottawa	53	9	17.0	35	66.0	5	9.4	4	7.5	0
Pawnee	54	24	44.4	25	46.3	4	7.4	1	1.9	0
Phillips	55	17	30.9	33	60.0	2	3.6	3	5.5	0
Pottawatomie	378	107	28.4	198	52.5	25	6.6	47	12.5	1
Pratt	95	13	13.7	76	80.0	1	1.1	5	5.3	0
Rawlins	28	8	28.6	19	67.9	0	0.0	1	3.6	0
Reno	655	246	37.7	283	43.3	34	5.2	90	13.8	2
Republic	41	9	22.5	28	70.0	2	5.0	1	2.5	1
Rice	96	30	31.3	56	58.3	4	4.2	6	6.3	0
Riley	738	206	28.4	338	46.6	76	10.5	106	14.6	12
Rooks	43	12	27.9	26	60.5	2	4.7	3	7.0	0
Rush	24	7	29.2	15	62.5	1	4.2	1	4.2	0
Russell	75	26	34.7	40	53.3	5	6.7	4	5.3	0
Saline	581	161	27.9	343	59.3	31	5.4	43	7.4	3
Scott	66	18	28.1	32	50.0	4	6.3	10	15.6	2
Sedgwick	6,460	1,599	24.8	4,117	63.9	209	3.2	521	8.1	14
Seward	361	61	17.5	156	44.8	23	6.6	108	31.0	13
Shawnee	1,872	739	39.6	794	42.5	76	4.1	259	13.9	4
Sheridan	36	9	25.0	23	63.9	0	0.0	4	11.1	0
Sherman	62	9	15.0	23	38.3	9	15.0	19	31.7	2
Smith	38	18	47.4	15	39.5	1	2.6	4	10.5	0
Stafford	60	19	32.2	31	52.5	5	8.5	4	6.8	1
Stanton	24	12	50.0	8	33.3	1	4.2	3	12.5	0
Stevens	56	13	23.6	26	47.3	5	9.1	11	20.0	1
Sumner	237	61	26.0	141	60.0	13	5.5	20	8.5	2
Thomas	110	37	33.6	54	49.1	9	8.2	10	9.1	0
Trego	27	6	22.2	16	59.3	5	18.5	0	0.0	0
Wabaunsee	55	20	36.4	26	47.3	4	7.3	5	9.1	0
Wallace	23	3	13.6	13	59.1	4	18.2	2	9.1	1
Washington	66	20	30.3	37	56.1	4	6.1	5	7.6	0
Wichita	31	8	25.8	20	64.5	0	0.0	3	9.7	0
Wilson	70	12	17.6	47	69.1	3	4.4	6	8.8	2
Woodson	23	15	65.2	3	13.0	1	4.3	4	17.4	0
Wyandotte	2,383	694	29.4	891	37.8	201	8.5	571	24.2	26
n.s.	0	0	n/a	0	n/a	0	n/a	0	n/a	0
Peer Group										
Frontier	1,244	327	27.8	662	56.3	96	8.2	145	12.3	14
Rural	2,606	788	32.8	1,387	57.6	165	6.9	246	10.2	20
Densely -Settled Rural	5,353	1,507	27.3	2,508	45.5	348	6.3	918	16.6	72
Semi-Urban	5,400	1,722	32.1	2,577	48.1	490	9.1	568	10.6	43
Urban	19,438	6,558	33.9	10,069	52.0	780	4.0	1,959	10.1	72

* See Technical Notes for Peer Group definition.

† See Technical Notes

‡ Percent calculation includes only Kansas resident live births for which number of prenatal visits, date of first
  prenatal visit and date of last menses were reported on the birth certificate.

Table C15
Live Births by County of Residence and Peer Group*
by Birth Weight in Grams
Kansas, 2023

County of Residence	Total	Under 500	500 - 999	1000 - 1499	% Under 1500 gr (VLBW)	1500 - 1999	2000 - 2499	% Under 2500 gr (LBW)	2500 - 2999	3000 - 3499	3500 - 3999	4000 - 4499	4500 - 4999	5000 & Over	n.s.
Kansas	34,041	50	123	195	1.1	515	1,730	7.7	6,263	13,010	9,345	2,445	316	45	4
Allen	122	0	0	0	0.0	1	7	6.6	18	48	35	10	2	1	0
Anderson	104	0	1	1	1.9	1	3	5.8	13	39	38	6	2	0	0
Atchison	160	0	0	1	0.6	2	7	6.3	28	60	45	15	1	1	0
Barber	42	0	0	0	0.0	3	0	7.1	9	16	12	1	1	0	0
Barton	290	1	1	2	1.4	5	20	10.0	55	110	75	15	6	0	0
Bourbon	168	0	2	0	1.2	2	6	6.0	37	58	48	13	2	0	0
Brown	94	0	0	0	0.0	2	3	5.4	14	31	34	6	2	0	2
Butler	680	2	5	3	1.5	7	33	7.4	129	246	189	56	10	0	0
Chase	19	0	0	0	0.0	2	1	15.8	7	4	2	3	0	0	0
Chautauqua	38	1	0	1	5.3	0	3	13.2	7	16	9	0	1	0	0
Cherokee	191	1	0	2	1.6	1	22	13.6	28	73	51	8	4	1	0
Cheyenne	34	0	0	0	0.0	0	1	2.9	6	16	9	2	0	0	0
Clark	20	0	0	1	5.0	0	1	10.0	4	6	5	3	0	0	0
Clay	83	2	0	0	2.4	0	9	13.3	16	26	24	6	0	0	0
Cloud	79	1	0	1	2.5	1	4	8.9	12	31	27	1	1	0	0
Coffey	105	0	0	1	1.0	0	7	7.6	15	43	29	8	2	0	0
Comanche	22	0	0	1	4.5	0	1	9.1	1	10	8	1	0	0	0
Cowley	414	0	1	0	0.2	6	15	5.3	88	153	116	30	5	0	0
Crawford	443	0	0	1	0.2	3	19	5.2	89	185	119	24	3	0	0
Decatur	28	0	0	0	0.0	1	3	14.3	6	10	8	0	0	0	0
Dickinson	172	0	2	2	2.3	1	7	7.0	25	68	53	13	1	0	0
Doniphan	69	0	2	1	4.3	2	1	8.7	6	31	20	6	0	0	0
Douglas	980	4	1	1	0.6	14	47	6.8	188	375	269	72	8	1	0
Edwards	32	0	0	0	0.0	0	0	0.0	5	15	12	0	0	0	0
Elk	18	0	1	1	11.1	0	0	11.1	3	11	2	0	0	0	0
Ellis	332	0	2	2	1.2	5	12	6.3	50	136	94	28	3	0	0
Ellsworth	52	0	0	0	0.0	0	5	9.6	9	22	15	1	0	0	0
Finney	547	2	4	1	1.3	6	33	8.4	111	222	138	23	6	1	0
Ford	597	1	1	2	0.7	10	27	6.9	134	224	162	32	3	1	0
Franklin	294	0	0	3	1.0	3	13	6.5	48	125	65	31	4	2	0
Geary	920	1	2	3	0.7	19	46	7.7	159	381	243	60	4	2	0
Gove	38	0	0	0	0.0	2	2	10.5	4	11	17	1	1	0	0
Graham	26	0	0	0	0.0	1	2	11.5	5	11	4	2	1	0	0
Grant	88	0	0	0	0.0	0	4	4.5	21	37	21	5	0	0	0
Gray	103	1	0	0	1.0	0	5	5.8	9	51	27	8	1	1	0
Greeley	24	0	0	0	0.0	1	2	12.5	5	7	9	0	0	0	0
Greenwood	44	0	0	0	0.0	2	3	11.4	5	18	14	2	0	0	0
Hamilton	37	0	0	0	0.0	0	1	2.7	9	16	9	2	0	0	0
Harper	55	0	0	0	0.0	1	4	9.1	18	15	11	6	0	0	0
Harvey	381	0	1	4	1.3	6	23	8.9	66	147	91	41	1	1	0
Haskell	55	0	2	1	5.5	1	2	10.9	7	21	18	3	0	0	0
Hodgeman	15	0	0	0	0.0	0	0	0.0	3	9	2	1	0	0	0
Jackson	148	0	0	2	1.4	2	6	6.8	23	62	39	12	2	0	0
Jefferson	155	0	0	0	0.0	1	6	4.5	27	47	52	18	4	0	0
Jewell	31	0	1	1	6.5	0	2	12.9	7	12	5	3	0	0	0
Johnson	6,871	9	17	34	0.9	90	282	6.3	1,158	2,639	2,042	537	56	7	0
Kearny	58	0	1	0	1.7	2	0	5.2	13	25	15	2	0	0	0
Kingman	66	0	0	2	3.0	1	5	12.1	18	15	14	9	2	0	0
Kiowa	30	0	0	0	0.0	0	1	3.3	5	11	7	5	1	0	0
Labette	256	0	1	2	1.2	8	16	10.6	51	96	64	13	3	1	1
Lane	25	0	0	0	0.0	0	1	4.0	10	6	5	3	0	0	0
Leavenworth	872	2	4	4	1.1	15	49	8.5	175	304	246	63	10	0	0
Lincoln	24	0	0	0	0.0	0	0	0.0	6	11	6	1	0	0	0
Linn	98	0	1	0	1.0	1	4	6.1	24	32	27	6	3	0	0
Logan	36	0	0	0	0.0	0	0	0.0	12	10	10	4	0	0	0

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Table C15
Live Births by County of Residence and Peer Group*
by Birth Weight in Grams
Kansas, 2023

County of Residence	Total	Under 500	500 - 999	1000 - 1499	% Under 1500 gr (VLBW)	1500 - 1999	2000 - 2499	% Under 2500 gr (LBW)	2500 - 2999	3000 - 3499	3500 - 3999	4000 - 4499	4500 - 4999	5000 & Over	n.s.
Lyon	347	0	1	2	0.9	6	28	10.7	56	133	87	30	4	0	0
McPherson	282	1	1	3	1.8	1	8	5.0	52	95	104	15	2	0	0
Marion	128	0	1	0	0.8	4	5	7.8	21	52	33	11	1	0	0
Marshall	88	0	0	0	0.0	1	1	2.3	13	36	27	9	1	0	0
Meade	52	0	0	0	0.0	3	1	7.7	9	11	24	2	2	0	0
Miami	416	0	0	3	0.7	3	24	7.2	70	137	126	44	8	1	0
Mitchell	64	0	0	2	3.1	2	4	12.5	9	26	17	3	1	0	0
Montgomery	292	0	2	1	1.0	3	10	5.5	61	115	74	21	4	0	1
Morris	55	0	0	0	0.0	1	2	5.5	6	21	20	4	1	0	0
Morton	29	0	0	0	0.0	0	1	3.4	6	13	6	2	1	0	0
Nemaha	139	0	0	0	0.0	1	7	5.8	26	47	37	19	2	0	0
Neosho	213	0	0	0	0.0	1	7	3.8	37	91	58	16	2	1	0
Ness	31	0	0	1	3.2	1	0	6.5	5	15	6	3	0	0	0
Norton	53	0	1	2	5.7	0	1	7.5	10	22	17	0	0	0	0
Osage	151	0	1	0	0.7	1	10	7.9	19	45	56	17	2	0	0
Osborne	40	0	0	0	0.0	0	0	0.0	3	26	9	2	0	0	0
Ottawa	53	0	0	0	0.0	0	2	3.8	8	25	14	4	0	0	0
Pawnee	54	0	0	0	0.0	0	2	3.7	11	22	18	0	0	1	0
Phillips	55	0	0	0	0.0	0	3	5.5	15	16	15	5	1	0	0
Pottawatomie	378	0	2	0	0.5	3	11	4.2	54	130	128	44	5	1	0
Pratt	95	0	0	0	0.0	0	10	10.5	12	43	21	8	1	0	0
Rawlins	28	0	0	0	0.0	0	5	17.9	2	5	13	3	0	0	0
Reno	655	0	3	4	1.1	12	33	7.9	100	261	176	54	12	0	0
Republic	41	0	0	0	0.0	2	0	4.9	7	15	14	3	0	0	0
Rice	96	0	0	0	0.0	2	5	7.3	22	33	21	12	1	0	0
Riley	738	1	3	3	0.9	14	31	7.0	123	282	212	61	6	2	0
Rooks	43	0	0	0	0.0	2	3	11.6	8	13	10	6	1	0	0
Rush	24	0	0	0	0.0	1	4	20.8	3	10	5	1	0	0	0
Russell	75	0	0	0	0.0	0	6	8.0	21	29	14	5	0	0	0
Saline	581	2	0	9	1.9	10	35	9.6	123	218	144	37	3	0	0
Scott	66	0	0	1	1.5	1	4	9.1	15	26	18	1	0	0	0
Sedgwick	6,460	8	35	36	1.2	100	371	8.5	1,230	2,440	1,704	461	65	10	0
Seward	361	0	3	2	1.4	6	15	7.2	65	142	99	23	3	3	0
Shawnee	1,872	3	8	12	1.2	37	100	8.5	381	693	506	121	9	2	0
Sheridan	36	0	0	0	0.0	1	4	13.9	4	14	9	4	0	0	0
Sherman	62	0	0	0	0.0	2	10	19.4	10	25	14	0	1	0	0
Smith	38	0	0	0	0.0	0	0	0.0	4	21	12	1	0	0	0
Stafford	60	0	0	0	0.0	3	4	11.7	13	15	21	4	0	0	0
Stanton	24	0	0	0	0.0	0	3	12.5	8	8	4	0	1	0	0
Stevens	56	0	0	0	0.0	1	0	1.8	6	29	17	3	0	0	0
Sumner	237	1	0	3	1.7	1	10	6.3	42	98	67	13	2	0	0
Thomas	110	0	0	1	0.9	5	4	9.1	19	47	31	3	0	0	0
Trego	27	0	0	0	0.0	0	0	0.0	4	13	7	3	0	0	0
Wabaunsee	55	0	0	1	1.8	1	2	7.3	5	21	20	3	2	0	0
Wallace	23	0	0	0	0.0	0	1	4.3	7	5	8	2	0	0	0
Washington	66	0	1	1	3.0	3	0	7.6	5	31	20	3	2	0	0
Wichita	31	0	0	0	0.0	0	1	3.2	8	19	1	2	0	0	0
Wilson	70	0	0	2	2.9	0	3	7.1	9	29	21	6	0	0	0
Woodson	23	0	0	0	0.0	1	2	13.0	2	5	13	0	0	0	0
Wyandotte	2,383	6	8	25	1.6	48	161	10.4	513	938	536	130	14	4	0
n.s.	0	0	0	0	n/a	0	0	n/a	0	0	0	0	0	0	0
Peer Group															
Frontier	1,244	1	3	6	0.8	27	64	8.1	241	480	334	76	12	0	0
Rural	2,606	5	7	19	1.2	34	125	7.3	445	1,020	745	175	27	2	2
Densely -Settled Rural	5,353	6	24	24	1.0	70	264	7.2	964	2,024	1,524	381	60	11	1
Semi-Urban	5,400	6	16	34	1.0	80	267	7.5	968	2,097	1,439	429	55	8	1
Urban	19,438	32	73	112	1.1	304	1,010	7.9	3,645	7,389	5,303	1,384	162	24	0

* See Technical Notes for Peer Group definition.

Table C16
Live Births by County of Residence and Peer Group*
by Initiation of Breastfeeding[†]
Kansas, 2023

County of Residence	Live Births	Initiated Breastfeeding		Did Not Initiate Breastfeeding		n.s.[‡]
		Number	Percent	Number	Percent	
Kansas	34,041	30,336	89.4	3,598	10.6	107
Allen	122	103	84.4	19	15.6	0
Anderson	104	89	85.6	15	14.4	0
Atchison	160	131	81.9	29	18.1	0
Barber	42	41	97.6	1	2.4	0
Barton	290	240	83.0	49	17.0	1
Bourbon	168	134	81.2	31	18.8	3
Brown	94	80	86.0	13	14.0	1
Butler	680	622	91.9	55	8.1	3
Chase	19	16	84.2	3	15.8	0
Chautauqua	38	30	81.1	7	18.9	1
Cherokee	191	158	83.2	32	16.8	1
Cheyenne	34	30	88.2	4	11.8	0
Clark	20	18	90.0	2	10.0	0
Clay	83	67	84.8	12	15.2	4
Cloud	79	70	89.7	8	10.3	1
Coffey	105	81	77.1	24	22.9	0
Comanche	22	18	85.7	3	14.3	1
Cowley	414	329	79.5	85	20.5	0
Crawford	443	361	81.5	82	18.5	0
Decatur	28	21	75.0	7	25.0	0
Dickinson	172	145	84.3	27	15.7	0
Doniphan	69	49	72.1	19	27.9	1
Douglas	980	881	90.4	94	9.6	5
Edwards	32	29	90.6	3	9.4	0
Elk	18	16	88.9	2	11.1	0
Ellis	332	303	91.3	29	8.7	0
Ellsworth	52	39	75.0	13	25.0	0
Finney	547	470	86.2	75	13.8	2
Ford	597	439	73.7	157	26.3	1
Franklin	294	268	91.5	25	8.5	1
Geary	920	797	87.2	117	12.8	6
Gove	38	35	92.1	3	7.9	0
Graham	26	25	96.2	1	3.8	0
Grant	88	75	85.2	13	14.8	0
Gray	103	99	97.1	3	2.9	1
Greeley	24	22	91.7	2	8.3	0
Greenwood	44	32	72.7	12	27.3	0
Hamilton	37	33	89.2	4	10.8	0
Harper	55	50	90.9	5	9.1	0
Harvey	381	365	95.8	16	4.2	0
Haskell	55	52	94.5	3	5.5	0
Hodgeman	15	12	80.0	3	20.0	0
Jackson	148	120	81.6	27	18.4	1
Jefferson	155	143	92.3	12	7.7	0
Jewell	31	27	87.1	4	12.9	0
Johnson	6,871	6,529	95.3	319	4.7	23
Kearny	58	51	87.9	7	12.1	0
Kingman	66	64	97.0	2	3.0	0
Kiowa	30	24	80.0	6	20.0	0
Labette	256	191	75.2	63	24.8	2
Lane	25	24	96.0	1	4.0	0
Leavenworth	872	819	94.1	51	5.9	2
Lincoln	24	22	91.7	2	8.3	0
Linn	98	90	91.8	8	8.2	0
Logan	36	31	86.1	5	13.9	0

Table C16
Live Births by County of Residence and Peer Group*
by Initiation of Breastfeeding†
Kansas, 2023

County of Residence	Live Births	Initiated Breastfeeding		Did Not Initiate Breastfeeding		n.s.‡
		Number	Percent	Number	Percent	
Lyon	347	259	74.9	87	25.1	1
McPherson	282	255	91.4	24	8.6	3
Marion	128	119	94.4	7	5.6	2
Marshall	88	83	94.3	5	5.7	0
Meade	52	45	86.5	7	13.5	0
Miami	416	389	93.7	26	6.3	1
Mitchell	64	59	92.2	5	7.8	0
Montgomery	292	216	74.5	74	25.5	2
Morris	55	52	94.5	3	5.5	0
Morton	29	25	86.2	4	13.8	0
Nemaha	139	125	89.9	14	10.1	0
Neosho	213	175	82.2	38	17.8	0
Ness	31	26	86.7	4	13.3	1
Norton	53	51	96.2	2	3.8	0
Osage	151	130	86.1	21	13.9	0
Osborne	40	38	95.0	2	5.0	0
Ottawa	53	45	84.9	8	15.1	0
Pawnee	54	44	81.5	10	18.5	0
Phillips	55	50	90.9	5	9.1	0
Pottawatomie	378	343	90.7	35	9.3	0
Pratt	95	86	90.5	9	9.5	0
Rawlins	28	26	92.9	2	7.1	0
Reno	655	588	90.0	65	10.0	2
Republic	41	35	85.4	6	14.6	0
Rice	96	87	90.6	9	9.4	0
Riley	738	659	89.3	79	10.7	0
Rooks	43	39	90.7	4	9.3	0
Rush	24	21	87.5	3	12.5	0
Russell	75	66	88.0	9	12.0	0
Saline	581	496	85.8	82	14.2	3
Scott	66	61	92.4	5	7.6	0
Sedgwick	6,460	5,882	91.3	563	8.7	15
Seward	361	256	71.1	104	28.9	1
Shawnee	1,872	1,542	82.6	324	17.4	6
Sheridan	36	35	97.2	1	2.8	0
Sherman	62	56	90.3	6	9.7	0
Smith	38	35	92.1	3	7.9	0
Stafford	60	59	98.3	1	1.7	0
Stanton	24	23	95.8	1	4.2	0
Stevens	56	48	85.7	8	14.3	0
Sumner	237	211	89.4	25	10.6	1
Thomas	110	99	90.0	11	10.0	0
Trego	27	26	96.3	1	3.7	0
Wabaunsee	55	50	90.9	5	9.1	0
Wallace	23	20	87.0	3	13.0	0
Washington	66	60	90.9	6	9.1	0
Wichita	31	28	90.3	3	9.7	0
Wilson	70	57	81.4	13	18.6	0
Woodson	23	20	87.0	3	13.0	0
Wyandotte	2,383	2,126	89.5	249	10.5	8
n.s.	0	0	n/a	0	n/a	0
Peer Group						
Frontier	1,244	1,109	89.4	132	10.6	3
Rural	2,606	2,314	89.1	282	10.9	10
Densely -Settled Rural	5,353	4,373	82.0	963	18.0	17
Semi-Urban	5,400	4,761	88.5	621	11.5	18
Urban	19,438	17,779	91.7	1,600	8.3	59

* See Technical Notes for Peer Group definition.
† See Technical Notes
‡ Not stated (n.s.) includes births with missing/unknown data and where the infant died
  shortly after birth.

Table C17
Live Births by County of Residence and Peer Group*
by Mother's Reported Cigarette Use
Kansas, 2023

County of Residence	Total	3 Months Prior to Pregnancy	First Trimester of Pregnancy	Second Trimester of Pregnancy	Third Trimester of Pregnancy	Any Time During Pregnancy Number	Any Time During Pregnancy Percent	n.s.
Kansas	34,041	1,962	1,647	1,513	1,449	1,675	4.9	160
Allen	122	24	19	16	16	19	15.6	0
Anderson	104	14	11	9	9	12	11.5	0
Atchison	160	15	11	9	8	12	7.5	0
Barber	42	3	2	2	2	2	4.8	0
Barton	290	30	20	18	16	20	6.9	1
Bourbon	168	22	20	18	17	20	11.9	0
Brown	94	18	14	12	11	14	14.9	0
Butler	680	41	39	36	35	39	5.8	2
Chase	19	1	1	1	1	1	5.3	0
Chautauqua	38	5	5	4	4	5	13.2	0
Cherokee	191	25	21	19	17	22	12.2	10
Cheyenne	34	1	1	1	1	1	2.9	0
Clark	20	0	0	0	0	0	0.0	0
Clay	83	8	6	6	5	6	7.3	1
Cloud	79	6	6	6	5	6	7.8	2
Coffey	105	7	6	6	6	6	5.7	0
Comanche	22	5	4	3	3	4	18.2	0
Cowley	414	46	43	43	42	43	10.5	3
Crawford	443	47	38	33	32	38	8.6	3
Decatur	28	3	2	1	1	2	7.1	0
Dickinson	172	12	9	9	6	9	5.2	0
Doniphan	69	8	5	6	6	6	8.7	0
Douglas	980	72	51	51	49	55	5.6	2
Edwards	32	2	1	1	1	1	3.1	0
Elk	18	2	2	1	1	2	11.1	0
Ellis	332	16	15	12	11	16	4.8	2
Ellsworth	52	5	5	3	3	5	9.6	0
Finney	547	12	13	11	10	13	2.4	3
Ford	597	10	7	7	8	8	1.3	3
Franklin	294	33	24	16	18	26	8.9	3
Geary	920	64	43	38	36	43	4.8	15
Gove	38	2	2	2	2	2	5.3	0
Graham	26	0	0	0	0	0	0.0	0
Grant	88	2	0	0	0	0	0.0	0
Gray	103	1	1	1	1	1	1.0	0
Greeley	24	2	2	2	2	2	8.3	0
Greenwood	44	7	6	5	5	6	14.0	1
Hamilton	37	1	1	1	1	1	2.7	0
Harper	55	5	5	5	5	5	9.1	0
Harvey	381	33	28	29	29	31	8.2	1
Haskell	55	0	0	0	0	0	0.0	0
Hodgeman	15	1	1	1	1	1	6.7	0
Jackson	148	9	7	5	5	7	4.9	5
Jefferson	155	10	7	6	6	7	4.5	0
Jewell	31	2	1	1	1	1	3.2	0
Johnson	6,871	76	56	53	47	57	0.8	14
Kearny	58	2	2	1	1	2	3.4	0
Kingman	66	5	5	5	5	5	7.6	0
Kiowa	30	3	1	1	1	1	3.3	0
Labette	256	41	37	34	32	37	14.6	2
Lane	25	0	0	0	0	0	0.0	0
Leavenworth	872	39	32	28	27	32	3.7	0
Lincoln	24	1	1	1	1	1	4.2	0
Linn	98	14	13	13	11	13	13.7	3
Logan	36	4	3	2	2	3	8.8	2

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Table C17
Live Births by County of Residence and Peer Group*
by Mother's Reported Cigarette Use
Kansas, 2023

County of Residence	Total	3 Months Prior to Pregnancy	First Trimester of Pregnancy	Second Trimester of Pregnancy	Third Trimester of Pregnancy	Any Time During Pregnancy Number	Any Time During Pregnancy Percent	n.s.
Lyon	347	19	18	17	16	18	5.2	1
McPherson	282	13	12	11	10	13	4.6	1
Marion	128	5	4	4	4	4	3.1	1
Marshall	88	7	5	4	4	5	5.7	0
Meade	52	2	2	2	2	2	3.8	0
Miami	416	15	9	6	6	9	2.2	3
Mitchell	64	5	4	4	4	4	6.5	2
Montgomery	292	42	38	32	31	38	13.1	3
Morris	55	2	1	0	0	1	1.8	0
Morton	29	0	0	0	0	0	0.0	1
Nemaha	139	7	7	6	6	7	5.0	0
Neosho	213	23	16	15	15	16	7.5	1
Ness	31	4	4	3	2	4	13.3	1
Norton	53	6	5	5	5	5	9.6	1
Osage	151	13	5	6	4	6	4.0	0
Osborne	40	4	4	4	4	4	10.0	0
Ottawa	53	4	4	2	2	4	7.5	0
Pawnee	54	7	6	3	3	6	11.1	0
Phillips	55	2	2	2	2	2	3.8	2
Pottawatomie	378	19	12	12	12	12	3.2	4
Pratt	95	7	5	4	4	6	6.4	1
Rawlins	28	0	0	0	0	0	0.0	0
Reno	655	84	76	67	64	78	12.0	3
Republic	41	7	2	2	2	2	4.9	0
Rice	96	1	0	0	0	0	0.0	2
Riley	738	31	24	22	23	25	3.4	9
Rooks	43	1	1	1	1	1	2.3	0
Rush	24	4	2	2	2	2	8.3	0
Russell	75	15	12	11	10	12	16.0	0
Saline	581	64	53	47	45	54	9.3	0
Scott	66	10	9	8	5	9	13.6	0
Sedgwick	6,460	356	352	345	336	352	5.5	13
Seward	361	3	2	2	2	2	0.6	0
Shawnee	1,872	199	156	138	129	159	8.6	17
Sheridan	36	1	0	0	0	0	0.0	0
Sherman	62	7	6	6	6	6	9.8	1
Smith	38	3	3	3	3	3	7.9	0
Stafford	60	4	3	4	4	4	6.7	0
Stanton	24	1	1	1	1	1	4.2	0
Stevens	56	1	1	1	1	1	1.8	1
Sumner	237	28	28	28	28	28	11.9	1
Thomas	110	10	10	9	9	10	9.3	3
Trego	27	3	2	1	1	2	7.4	0
Wabaunsee	55	0	0	0	0	0	0.0	0
Wallace	23	3	3	3	3	3	13.0	0
Washington	66	3	3	3	3	3	4.5	0
Wichita	31	1	0	0	0	0	0.0	0
Wilson	70	6	6	6	6	6	8.7	1
Woodson	23	3	2	2	2	2	8.7	0
Wyandotte	2,383	90	72	65	62	73	3.1	9
n.s.	0	0	0	0	0	0	n/a	0
Peer Group								
Frontier	1,244	87	71	63	62	72	5.8	8
Rural	2,606	219	186	168	159	188	7.3	19
Densely -Settled Rural	5,353	370	299	276	259	306	5.8	36
Semi-Urban	5,400	454	372	326	319	381	7.1	42
Urban	19,438	832	719	680	650	728	3.8	55

* See Technical Notes for Peer Group definition.

Figure C6. Percent of Maternal Cigarette Use During Pregnancy by County of Residence Kansas, 2023
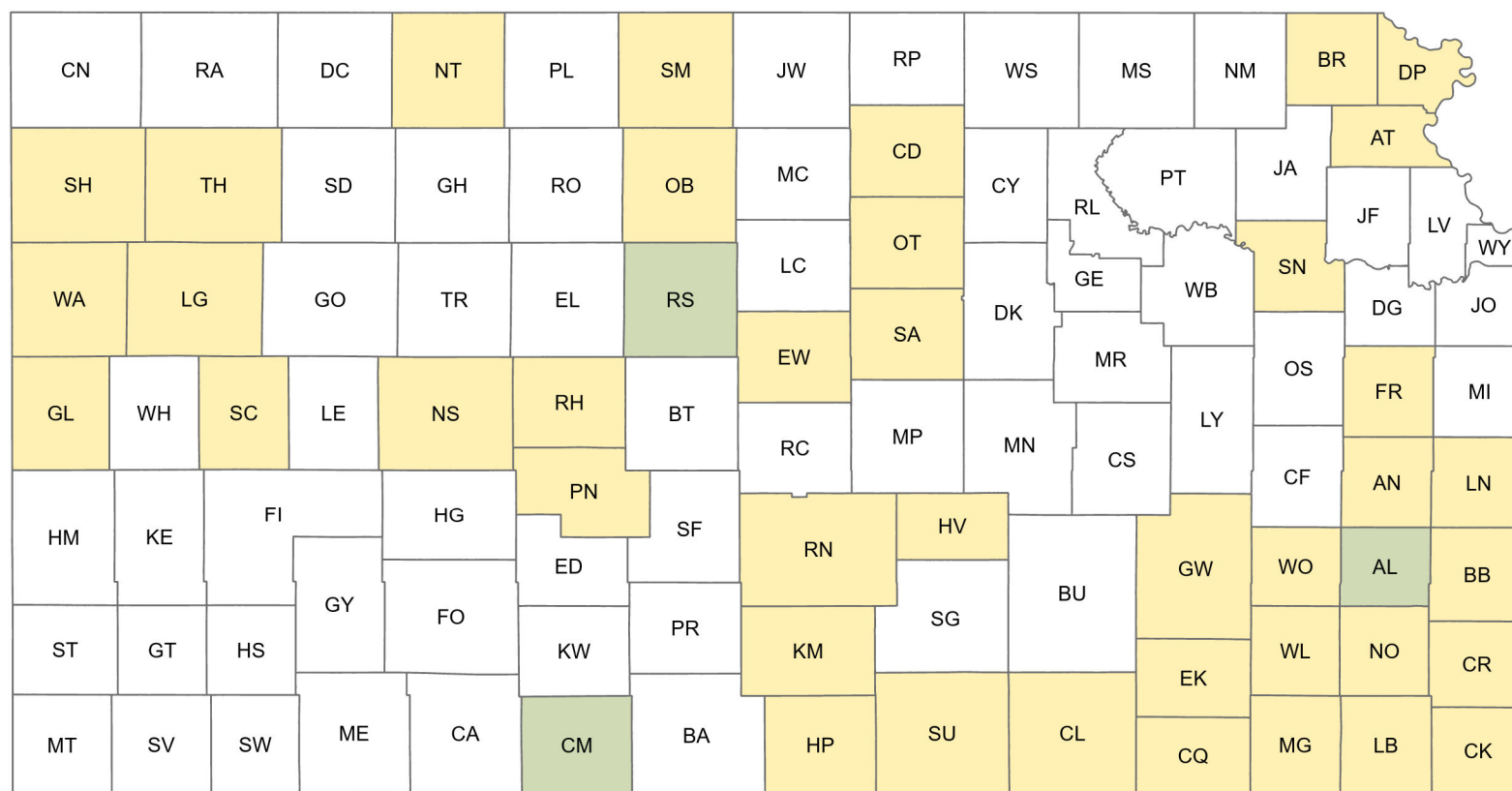
Percent of mothers indicating use of Tobacco

Statewide percent 4.9

SMOKING RATE

| | Under 7.5% | | 7.5% - 14.9% | | 15.0% - 22.4% | | 22.5% and Over |

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Table C18
Live Births by County of Residence and Peer Group*
by Birth Weight Category for Gestational Age[†]
Kansas, 2023

County of Residence	Total	Normal for Gestational Age (10th or greater percentile)		Small for Gestational Age (Less than 10th percentile)		n.s.
		Number	Percent	Number	Percent	
Kansas	34,041	30,650	90.1	3,364	9.9	27
Allen	122	112	91.8	10	8.2	0
Anderson	104	96	92.3	8	7.7	0
Atchison	160	143	89.9	16	10.1	1
Barber	42	36	85.7	6	14.3	0
Barton	290	255	87.9	35	12.1	0
Bourbon	168	150	89.8	17	10.2	1
Brown	94	86	93.5	6	6.5	2
Butler	680	629	92.5	51	7.5	0
Chase	19	18	94.7	1	5.3	0
Chautauqua	38	35	92.1	3	7.9	0
Cherokee	191	170	89.5	20	10.5	1
Cheyenne	34	31	91.2	3	8.8	0
Clark	20	15	75.0	5	25.0	0
Clay	83	78	94.0	5	6.0	0
Cloud	79	72	91.1	7	8.9	0
Coffey	105	94	89.5	11	10.5	0
Comanche	22	20	90.9	2	9.1	0
Cowley	414	369	89.1	45	10.9	0
Crawford	443	402	90.7	41	9.3	0
Decatur	28	26	92.9	2	7.1	0
Dickinson	172	155	90.6	16	9.4	1
Doniphan	69	65	94.2	4	5.8	0
Douglas	980	889	90.7	91	9.3	0
Edwards	32	30	93.8	2	6.3	0
Elk	18	18	100.0	0	0.0	0
Ellis	332	304	91.6	28	8.4	0
Ellsworth	52	46	88.5	6	11.5	0
Finney	547	472	86.4	74	13.6	1
Ford	597	510	85.4	87	14.6	0
Franklin	294	267	90.8	27	9.2	0
Geary	920	818	89.1	100	10.9	2
Gove	38	35	92.1	3	7.9	0
Graham	26	25	96.2	1	3.8	0
Grant	88	80	90.9	8	9.1	0
Gray	103	92	89.3	11	10.7	0
Greeley	24	20	87.0	3	13.0	1
Greenwood	44	42	95.5	2	4.5	0
Hamilton	37	34	91.9	3	8.1	0
Harper	55	45	81.8	10	18.2	0
Harvey	381	344	90.3	37	9.7	0
Haskell	55	52	94.5	3	5.5	0
Hodgeman	15	12	80.0	3	20.0	0
Jackson	148	133	89.9	15	10.1	0
Jefferson	155	140	90.3	15	9.7	0
Jewell	31	28	90.3	3	9.7	0
Johnson	6,871	6,291	91.6	579	8.4	1
Kearny	58	48	82.8	10	17.2	0
Kingman	66	60	90.9	6	9.1	0
Kiowa	30	26	86.7	4	13.3	0
Labette	256	231	90.9	23	9.1	2
Lane	25	21	84.0	4	16.0	0
Leavenworth	872	778	89.3	93	10.7	1
Lincoln	24	21	87.5	3	12.5	0
Linn	98	90	91.8	8	8.2	0
Logan	36	33	91.7	3	8.3	0

Table C18
Live Births by County of Residence and Peer Group*
by Birth Weight Category for Gestational Age[†]
Kansas, 2023

County of Residence	Total	Normal for Gestational Age (10th or greater percentile)		Small for Gestational Age (Less than 10th percentile)		n.s.
		Number	Percent	Number	Percent	
Lyon	347	313	90.2	34	9.8	0
McPherson	282	254	90.1	28	9.9	0
Marion	128	119	93.0	9	7.0	0
Marshall	88	81	93.1	6	6.9	1
Meade	52	47	90.4	5	9.6	0
Miami	416	377	90.6	39	9.4	0
Mitchell	64	60	93.8	4	6.3	0
Montgomery	292	273	93.8	18	6.2	1
Morris	55	50	90.9	5	9.1	0
Morton	29	25	86.2	4	13.8	0
Nemaha	139	131	94.2	8	5.8	0
Neosho	213	189	88.7	24	11.3	0
Ness	31	29	93.5	2	6.5	0
Norton	53	49	92.5	4	7.5	0
Osage	151	142	94.0	9	6.0	0
Osborne	40	37	92.5	3	7.5	0
Ottawa	53	51	96.2	2	3.8	0
Pawnee	54	52	96.3	2	3.7	0
Phillips	55	46	83.6	9	16.4	0
Pottawatomie	378	349	92.3	29	7.7	0
Pratt	95	83	87.4	12	12.6	0
Rawlins	28	24	85.7	4	14.3	0
Reno	655	602	91.9	53	8.1	0
Republic	41	38	92.7	3	7.3	0
Rice	96	85	88.5	11	11.5	0
Riley	738	663	90.1	73	9.9	2
Rooks	43	39	90.7	4	9.3	0
Rush	24	24	100.0	0	0.0	0
Russell	75	64	85.3	11	14.7	0
Saline	581	508	87.4	73	12.6	0
Scott	66	56	84.8	10	15.2	0
Sedgwick	6,460	5,810	90.0	647	10.0	3
Seward	361	322	89.9	36	10.1	3
Shawnee	1,872	1,675	89.6	195	10.4	2
Sheridan	36	33	91.7	3	8.3	0
Sherman	62	54	87.1	8	12.9	0
Smith	38	35	92.1	3	7.9	0
Stafford	60	55	91.7	5	8.3	0
Stanton	24	20	83.3	4	16.7	0
Stevens	56	51	91.1	5	8.9	0
Sumner	237	220	92.8	17	7.2	0
Thomas	110	97	88.2	13	11.8	0
Trego	27	27	100.0	0	0.0	0
Wabaunsee	55	52	94.5	3	5.5	0
Wallace	23	21	91.3	2	8.7	0
Washington	66	63	95.5	3	4.5	0
Wichita	31	26	83.9	5	16.1	0
Wilson	70	64	91.4	6	8.6	0
Woodson	23	18	78.3	5	21.7	0
Wyandotte	2,383	2,055	86.3	327	13.7	1
n.s.	0	0	n/a	0	n/a	0
Peer Group						
Frontier	1,244	1,116	89.8	127	10.2	1
Rural	2,606	2,375	91.2	228	8.8	3
Densely -Settled Rural	5,353	4,778	89.4	565	10.6	10
Semi-Urban	5,400	4,883	90.5	512	9.5	5
Urban	19,438	17,498	90.1	1,932	9.9	8

* See Technical Notes for Peer Group definition.

† See technical notes

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Table C19
Mother's Weight Gain in Pregnancy for Singleton Births
by County of Residence and Peer Group*
Kansas, 2023

County of Residence	Singleton Births	Less than Recommended Weight Gain		Recommended Weight Gain		More than Recommended Weight Gain		n.s.†
		Number	Percent	Number	Percent	Number	Percent	
Kansas	32,952	7,365	22.6	9,881	30.3	15,338	47.1	368
Allen	116	20	17.2	37	31.9	59	50.9	0
Anderson	102	20	20.2	26	26.3	53	53.5	3
Atchison	148	21	14.4	35	24.0	90	61.6	2
Barber	40	8	20.5	13	33.3	18	46.2	1
Barton	284	78	27.9	80	28.6	122	43.6	4
Bourbon	162	36	23.4	46	29.9	72	46.8	8
Brown	92	13	14.1	26	28.3	53	57.6	0
Butler	657	117	18.1	180	27.9	349	54.0	11
Chase	15	3	20.0	4	26.7	8	53.3	0
Chautauqua	38	8	21.6	14	37.8	15	40.5	1
Cherokee	179	40	23.4	52	30.4	79	46.2	8
Cheyenne	34	10	29.4	7	20.6	17	50.0	0
Clark	20	3	15.0	8	40.0	9	45.0	0
Clay	79	16	21.3	24	32.0	35	46.7	4
Cloud	73	11	15.1	30	41.1	32	43.8	0
Coffey	103	17	17.3	28	28.6	53	54.1	5
Comanche	22	2	9.1	7	31.8	13	59.1	0
Cowley	408	88	21.7	135	33.3	183	45.1	2
Crawford	429	116	27.1	124	29.0	188	43.9	1
Decatur	28	6	21.4	8	28.6	14	50.0	0
Dickinson	168	34	20.6	51	30.9	80	48.5	3
Doniphan	69	15	22.4	13	19.4	39	58.2	2
Douglas	959	247	25.9	304	31.9	402	42.2	6
Edwards	32	7	21.9	12	37.5	13	40.6	0
Elk	18	4	22.2	3	16.7	11	61.1	0
Ellis	324	63	19.4	102	31.5	159	49.1	0
Ellsworth	50	12	24.0	15	30.0	23	46.0	0
Finney	528	186	35.8	156	30.1	177	34.1	9
Ford	587	173	30.0	173	30.0	231	40.0	10
Franklin	283	55	19.7	86	30.8	138	49.5	4
Geary	900	204	22.8	261	29.2	430	48.0	5
Gove	34	6	17.6	9	26.5	19	55.9	0
Graham	24	3	12.5	8	33.3	13	54.2	0
Grant.	88	23	26.7	27	31.4	36	41.9	2
Gray	101	26	25.7	24	23.8	51	50.5	0
Greeley	22	5	25.0	10	50.0	5	25.0	2
Greenwood	42	8	21.1	8	21.1	22	57.9	4
Hamilton	37	12	33.3	14	38.9	10	27.8	1
Harper	51	14	27.5	9	17.6	28	54.9	0
Harvey	371	77	20.9	114	31.0	177	48.1	3
Haskell	53	18	34.0	18	34.0	17	32.1	0
Hodgeman	15	7	46.7	4	26.7	4	26.7	0
Jackson	144	22	15.6	40	28.4	79	56.0	3
Jefferson	155	29	18.7	50	32.3	76	49.0	0
Jewell	27	8	29.6	9	33.3	10	37.0	0
Johnson	6,637	1,355	20.5	2,224	33.7	3,021	45.8	37
Kearny	56	14	25.0	20	35.7	22	39.3	0
Kingman	63	14	22.2	17	27.0	32	50.8	0
Kiowa	28	6	21.4	6	21.4	16	57.1	0
Labette	248	69	28.6	65	27.0	107	44.4	7
Lane	23	8	36.4	6	27.3	8	36.4	1
Leavenworth	841	142	17.0	237	28.4	456	54.6	6
Lincoln	24	6	26.1	4	17.4	13	56.5	1
Linn	94	22	23.7	35	37.6	36	38.7	1
Logan	34	5	15.2	11	33.3	17	51.5	1

Table C19
Mother's Weight Gain in Pregnancy for Singleton Births
by County of Residence and Peer Group*
Kansas, 2023

County of Residence	Singleton Births	Less than Recommended Weight Gain		Recommended Weight Gain		More than Recommended Weight Gain		n.s.†
		Number	Percent	Number	Percent	Number	Percent	
Lyon	341	70	20.6	98	28.8	172	50.6	1
McPherson	274	68	25.0	84	30.9	120	44.1	2
Marion	126	28	22.2	42	33.3	56	44.4	0
Marshall	88	19	21.8	23	26.4	45	51.7	1
Meade	50	7	14.0	16	32.0	27	54.0	0
Miami	397	60	15.2	125	31.7	209	53.0	3
Mitchell	58	14	24.1	16	27.6	28	48.3	0
Montgomery	286	59	20.8	67	23.6	158	55.6	2
Morris	51	11	21.6	12	23.5	28	54.9	0
Morton	29	8	27.6	10	34.5	11	37.9	0
Nemaha	133	23	17.6	40	30.5	68	51.9	2
Neosho	205	53	25.9	69	33.7	83	40.5	0
Ness	29	10	35.7	10	35.7	8	28.6	1
Norton	53	13	24.5	17	32.1	23	43.4	0
Osage	147	32	22.5	31	21.8	79	55.6	5
Osborne	38	10	27.0	16	43.2	11	29.7	1
Ottawa	51	10	20.0	19	38.0	21	42.0	1
Pawnee	52	12	23.5	18	35.3	21	41.2	1
Phillips	53	11	20.8	14	26.4	28	52.8	0
Pottawatomie	368	66	18.1	127	34.8	172	47.1	3
Pratt	89	16	18.0	29	32.6	44	49.4	0
Rawlins	26	12	46.2	6	23.1	8	30.8	0
Reno	643	180	28.2	173	27.1	286	44.8	4
Republic	41	7	17.1	11	26.8	23	56.1	0
Rice	90	19	21.3	27	30.3	43	48.3	1
Riley	714	140	19.6	207	29.0	366	51.3	1
Rooks	37	9	24.3	7	18.9	21	56.8	0
Rush	22	7	33.3	5	23.8	9	42.9	1
Russell	69	22	32.8	12	17.9	33	49.3	2
Saline	553	143	26.0	168	30.6	238	43.4	4
Scott	64	12	19.4	24	38.7	26	41.9	2
Sedgwick	6,248	1,205	19.6	1,786	29.1	3,149	51.3	108
Seward	355	105	30.6	107	31.2	131	38.2	12
Shawnee	1,816	484	26.8	492	27.3	828	45.9	12
Sheridan	32	4	12.9	9	29.0	18	58.1	1
Sherman	58	15	27.3	16	29.1	24	43.6	3
Smith	38	9	23.7	12	31.6	17	44.7	0
Stafford	56	14	25.0	17	30.4	25	44.6	0
Stanton	20	2	10.0	4	20.0	14	70.0	0
Stevens	54	13	24.1	11	20.4	30	55.6	0
Sumner	229	39	17.3	56	24.9	130	57.8	4
Thomas	108	25	23.4	36	33.6	46	43.0	1
Trego	27	9	33.3	5	18.5	13	48.1	0
Wabaunsee	55	12	21.8	16	29.1	27	49.1	0
Wallace	23	7	30.4	6	26.1	10	43.5	0
Washington	62	10	16.4	18	29.5	33	54.1	1
Wichita	31	8	25.8	12	38.7	11	35.5	0
Wilson	68	21	31.3	22	32.8	24	35.8	1
Woodson	23	4	19.0	7	33.3	10	47.6	2
Wyandotte	2,313	696	30.4	697	30.5	893	39.1	27
n.s.	0	0	n/a	0	n/a	0	n/a	0
Peer Group								
Frontier	1,182	281	24.2	350	30.1	532	45.7	19
Rural	2,513	536	21.6	735	29.6	1,208	48.7	34
Densely -Settled Rural	5,210	1,268	24.7	1,551	30.2	2,310	45.0	81
Semi-Urban	5,233	1,151	22.2	1,505	29.0	2,539	48.9	38
Urban	18,814	4,129	22.2	5,740	30.8	8,749	47.0	196

*See Technical Notes for Peer Group definition.
†Includes births where height, prepegnancy weight or weight at delivery are unknown
Weight gain based on prepregnancy BMI category

Table C20
Live Births by County of Residence and Peer Group*
by Population Group of Mother
Kansas, 2023

County of Residence	Total	Population Group						
		White Non-Hispanic	Black Non-Hispanic	Native American Non-Hispanic	Asian/Pacific Islander Non-Hispanic	Other Non-Hispanic†	Hispanic Any Race	n.s.
Kansas	34,041	22,953	2,174	144	1,085	1,040	6,564	81
Allen	122	115	2	0	0	2	3	0
Anderson	104	104	0	0	0	0	0	0
Atchison	160	136	5	0	1	6	12	0
Barber	42	41	0	0	0	0	1	0
Barton	290	201	2	3	0	8	76	0
Bourbon	168	153	4	0	1	5	5	0
Brown	94	74	1	9	1	4	5	0
Butler	680	596	10	1	4	20	49	0
Chase	19	18	0	0	0	0	1	0
Chautauqua	38	33	0	0	0	2	2	1
Cherokee	191	167	0	5	2	10	6	1
Cheyenne	34	26	1	0	0	1	6	0
Clark	20	16	0	0	1	0	3	0
Clay	83	79	1	0	0	2	1	0
Cloud	79	76	1	1	0	0	1	0
Coffey	105	99	0	0	1	0	5	0
Comanche	22	16	0	0	0	1	5	0
Cowley	414	277	13	3	9	17	95	0
Crawford	443	332	17	1	9	19	65	0
Decatur	28	27	0	0	0	0	1	0
Dickinson	172	152	2	0	2	3	12	1
Doniphan	69	63	0	2	0	2	2	0
Douglas	980	704	43	22	45	40	124	2
Edwards	32	21	0	1	0	0	10	0
Elk	18	13	1	2	0	0	2	0
Ellis	332	287	4	0	3	4	34	0
Ellsworth	52	47	1	0	0	1	3	0
Finney	547	170	26	0	18	7	325	1
Ford	597	129	14	0	7	5	441	1
Franklin	294	265	3	1	0	7	16	2
Geary	920	503	114	5	54	58	182	4
Gove	38	38	0	0	0	0	0	0
Graham	26	26	0	0	0	0	0	0
Grant	88	38	0	0	0	0	50	0
Gray	103	91	0	0	0	0	12	0
Greeley	24	20	1	0	0	0	2	1
Greenwood	44	36	1	2	0	2	3	0
Hamilton	37	12	1	0	0	0	24	0
Harper	55	47	0	0	0	0	8	0
Harvey	381	304	5	0	5	14	53	0
Haskell	55	37	0	0	1	1	16	0
Hodgeman	15	13	1	0	0	1	0	0
Jackson	148	112	0	11	1	7	17	0
Jefferson	155	136	1	0	1	6	11	0
Jewell	31	28	0	0	0	0	3	0
Johnson	6,871	4,934	380	13	456	169	894	25
Kearny	58	31	0	0	0	0	27	0
Kingman	66	63	0	0	0	2	1	0
Kiowa	30	27	1	0	0	0	2	0
Labette	256	222	11	4	2	8	9	0
Lane	25	17	0	0	0	0	8	0
Leavenworth	872	701	52	1	13	25	76	4
Lincoln	24	23	0	0	0	0	1	0
Linn	98	92	1	0	1	3	1	0
Logan	36	32	0	0	1	0	3	0

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Table C20
Live Births by County of Residence and Peer Group*
by Population Group of Mother
Kansas, 2023

County of Residence	Total	Population Group						
		White Non-Hispanic	Black Non-Hispanic	Native American Non-Hispanic	Asian/Pacific Islander Non-Hispanic	Other Non-Hispanic†	Hispanic Any Race	n.s.
Lyon	347	226	13	0	1	9	98	0
McPherson	282	239	6	3	3	5	26	0
Marion	128	116	0	0	2	4	5	1
Marshall	88	84	1	0	0	3	0	0
Meade	52	38	1	0	0	0	13	0
Miami	416	381	5	0	0	6	24	0
Mitchell	64	60	1	0	0	0	3	0
Montgomery	292	210	10	9	1	15	46	1
Morris	55	49	0	0	0	1	5	0
Morton	29	14	0	0	0	1	14	0
Nemaha	139	127	1	0	0	2	9	0
Neosho	213	192	0	2	1	4	14	0
Ness	31	21	0	0	0	2	8	0
Norton	53	48	0	0	0	4	1	0
Osage	151	136	0	1	0	5	9	0
Osborne	40	38	0	0	0	0	2	0
Ottawa	53	51	0	0	0	0	2	0
Pawnee	54	45	0	2	0	2	5	0
Phillips	55	53	0	0	0	1	1	0
Pottawatomie	378	332	0	1	8	11	25	1
Pratt	95	81	0	0	0	2	11	1
Rawlins	28	22	0	0	0	2	4	0
Reno	655	521	11	0	4	19	100	0
Republic	41	38	0	0	0	1	2	0
Rice	96	75	2	1	1	1	16	0
Riley	738	493	54	3	32	29	121	6
Rooks	43	40	0	0	0	1	2	0
Rush	24	23	0	0	0	0	1	0
Russell	75	71	0	0	0	3	1	0
Saline	581	420	14	1	10	25	111	0
Scott	66	47	0	0	0	1	18	0
Sedgwick	6,460	4,059	685	19	205	213	1,276	3
Seward	361	50	5	0	2	2	302	0
Shawnee	1,872	1,119	172	11	39	123	408	0
Sheridan	36	30	0	0	0	0	6	0
Sherman	62	45	1	0	2	2	10	2
Smith	38	38	0	0	0	0	0	0
Stafford	60	54	0	0	0	1	5	0
Stanton	24	8	0	0	1	0	15	0
Stevens	56	24	1	1	0	0	30	0
Sumner	237	221	1	1	2	3	9	0
Thomas	110	89	2	0	1	3	15	0
Trego	27	26	0	0	0	0	1	0
Wabaunsee	55	49	0	1	1	2	2	0
Wallace	23	23	0	0	0	0	0	0
Washington	66	63	0	0	1	0	2	0
Wichita	31	18	0	0	0	0	13	0
Wilson	70	66	0	0	1	0	3	0
Woodson	23	23	0	0	0	0	0	0
Wyandotte	2,383	637	468	1	128	70	1,056	23
n.s.	0	0	0	0	0	0	0	0
Peer Group								
Frontier	1,244	1,005	9	5	5	17	199	4
Rural	2,606	2,274	14	16	13	45	242	2
Densely -Settled Rural	5,353	3,495	108	35	62	126	1,522	5
Semi-Urban	5,400	4,025	243	21	119	212	767	13
Urban	19,438	12,154	1,800	67	886	640	3,834	57

* See Technical Notes for Peer Group definition.

† Includes selection of two or more races and other non-specified race

Table C21
Live Births by Selected City of Residence*
by Number and Rate†
Kansas, 2019-2023

City of Residence	Year										5-Year
	2019		2020		2021		2022		2023		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Rate
Abilene	77	12.4	73	11.9	60	9.3	66	10.2	66	10.2	10.8
Andover	175	13.1	163	11.9	203	13.2	179	11.5	176	11.1	12.1
Arkansas City	187	16.0	183	15.8	183	15.3	204	17.1	197	16.7	16.2
Atchison	145	13.8	129	12.4	132	12.3	124	11.6	115	10.8	12.2
Augusta	111	11.9	94	10.1	100	10.8	105	11.4	80	8.7	10.6
Baldwin City	47	10.0	49	10.4	42	8.6	60	12.2	53	10.8	10.4
Basehor	77	11.9	89	13.4	100	13.9	91	12.1	90	11.7	12.5
Baxter Springs	46	11.7	60	15.4	57	14.8	42	11.0	51	13.3	13.2
Bel Aire	80	9.6	74	8.7	80	9.5	106	12.0	78	8.2	9.6
Beloit	40	11.0	39	10.9	35	10.3	48	14.3	40	11.9	11.7
Bonner Springs	113	14.3	96	12.1	94	12.0	90	11.7	88	11.5	12.3
Burlington	22	8.7	32	12.6	17	6.4	29	11.1	26	10.0	9.7
Chanute	123	13.6	101	11.2	102	11.8	95	11.1	124	14.6	12.5
Clay Center	47	11.8	41	10.3	37	8.9	45	10.9	43	10.5	10.5
Clearwater					36	13.7	29	11.0	31	11.7	
Coffeyville	116	12.5	126	13.7	109	12.3	132	15.2	96	11.2	13.0
Colby	71	13.2	83	15.6	77	14.0	71	12.8	78	12.8	13.6
Columbus	40	13.1	45	15.0	44	15.3	41	14.2	35	12.2	14.0
Concordia	49	9.8	71	14.5	65	12.9	49	9.7	39	7.8	10.9
Derby	284	11.4	312	12.4	326	12.6	318	12.3	321	12.2	12.2
De Soto	84	12.9	62	9.3	65	10.2	88	13.6	70	10.7	11.3
Dodge City	582	21.5	489	18.3	524	18.9	494	18.0	540	19.6	19.3
Edwardsville	56	12.5	37	8.2	36	7.8	36	7.7	31	6.7	8.6
El Dorado	155	12.0	132	10.3	159	12.4	157	12.2	154	11.9	11.8
Ellsworth	28	9.5	20	6.8	21	7.0	28	8.9	26	8.3	8.1
Emporia	294	12.0	258	10.5	284	11.8	278	11.6	272	11.3	11.4
Eudora	70	10.9	74	11.6	71	11.0	60	9.3	75	11.6	10.9
Fairway	69	17.4	54	13.6	76	18.2	59	14.1	58	13.9	15.5
Fort Scott	109	14.2	126	16.5	112	14.9	110	14.4	95	12.6	14.5
Frontenac	40	11.8	23	6.8	27	8.0	29	8.5	33	9.8	9.0
Galena	34	11.9	34	12.0	28	10.2	25	9.1	33	12.0	11.1
Garden City	486	18.4	456	17.5	464	16.7	489	17.8	462	16.9	17.4
Gardner	292	13.3	344	15.4	307	12.8	291	12.0	325	12.8	13.2
Garnett	40	12.4	35	10.7	49	15.4	43	13.5	42	13.1	13.0
Goddard	60	12.5	90	18.1	99	18.4	88	15.8	112	19.6	17.0
Goodland	70	15.9	40	9.3	67	15.1	47	10.7	44	10.0	12.2
Great Bend	201	13.4	225	15.1	187	12.8	179	12.4	188	13.1	13.4
Hays	208	10.0	257	12.3	197	9.5	216	10.2	249	11.8	10.8
Haysville	151	13.3	125	11.0	130	11.5	145	12.8	129	11.4	12.0
Hesston	40	10.7	40	10.7	31	8.9	36	10.3	44	12.7	10.6
Hiawatha	40	12.8	34	11.0	42	12.9	30	9.3	34	10.7	11.3
Hillsboro	24	8.5	31	11.2	23	8.4	15	5.5	31	11.5	9.0
Hoisington	35	14.2	30	12.2	46	17.3	26	9.8	34	13.0	13.3
Holton	49	15.3	40	12.5	56	16.8	43	12.7	46	13.6	14.2
Hugoton	46	12.3	55	15.0	46	12.2	59	16.0	46	12.7	13.6
Hutchinson	432	10.7	430	10.7	447	11.3	449	11.3	442	11.1	11.0
Independence	84	9.9	121	14.4	107	12.6	90	10.7	93	11.2	11.7
Iola	73	13.9	70	13.3	57	10.7	68	12.6	61	11.5	12.4
Junction City	460	21.4	510	23.3	432	19.3	426	19.1	420	19.2	20.5
Kansas City	2,436	15.9	2,338	15.3	2,177	14.1	2,227	14.5	2,247	14.7	14.9

Table C21
Live Births by Selected City of Residence*
by Number and Rate†
Kansas, 2019-2023

City of Residence	Year										5-Year Rate
	2019		2020		2021		2022		2023		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Rate
Kingman	37	13.0	31	11.2	42	13.7	33	11.1	29	10.0	11.8
Lansing	93	7.8	92	7.7	92	8.2	95	8.5	79	7.0	7.8
Larned	53	14.4	47	13.0	50	13.8	31	8.4	42	11.4	12.2
Lawrence	899	9.2	811	8.2	866	9.1	791	8.3	766	8.0	8.5
Leavenworth	381	10.6	391	10.9	397	10.7	391	10.5	344	9.3	10.4
Leawood	275	7.9	262	7.6	315	9.3	299	8.9	310	9.1	8.6
Lenexa	626	11.3	620	11.0	609	10.4	643	11.0	623	10.6	10.9
Liberal	367	19.1	330	17.5	364	18.5	358	18.6	344	18.1	18.4
Lindsborg	26	7.9	30	9.2	30	8.6	36	9.5	25	6.6	8.3
Louisburg	58	12.7	70	15.3	74	14.8	65	12.9	94	18.2	14.8
Lyons	44	12.6	44	12.8	42	11.8	55	15.4	43	12.3	13.0
McPherson	135	10.3	126	9.7	155	11.1	156	11.3	123	8.8	10.3
Maize	76	15.4	77	14.6	92	15.2	90	14.1	79	11.6	14.0
Manhattan	577	10.6	613	11.2	591	10.8	586	10.9	601	11.2	10.9
Marysville	34	10.4	37	11.4	37	10.8	41	12.0	36	10.6	11.0
Merriam	146	13.2	86	7.7	114	10.3	100	9.1	100	9.2	9.9
Mission	144	14.5	157	15.9	160	16.2	161	16.4	177	17.7	16.1
Mission Hills	36	10.1	34	9.6	38	10.7	33	9.3	25	7.1	9.4
Mulvane	76	11.7	81	12.3	74	11.2	61	9.0	79	11.4	11.1
Newton	221	11.7	214	11.4	198	10.7	217	11.8	222	12.2	11.6
Norton	39	14.3	43	15.9	40	14.5	26	9.8	30	10.9	13.1
Olathe	1,780	12.7	1,647	11.6	1,701	11.9	1,674	11.5	1,639	11.1	11.8
Osage City	26	9.3	46	16.6	31	10.9	23	8.2	24	8.5	10.7
Osawatomie	48	11.2	61	14.4	53	12.4	62	14.6	56	13.2	13.2
Ottawa	148	12.1	136	11.0	153	12.1	163	12.9	156	12.3	12.1
Overland Park	2,092	10.7	2,135	10.8	2,155	10.9	2,051	10.4	2,055	10.4	10.6
Paola	80	14.0	70	12.4	94	16.2	78	13.6	94	16.3	14.5
Park City	132	17.0	106	13.3	114	13.4	115	13.3	116	13.2	14.0
Parsons	133	14.0	119	12.6	98	10.3	115	12.3	103	11.0	12.0
Pittsburg	243	12.1	276	13.8	283	13.6	252	12.2	273	13.3	13.0
Prairie Village	301	13.5	338	15.1	319	13.9	330	14.4	327	14.3	14.2
Pratt	78	12.0	80	12.4	86	13.1	77	11.8	69	10.5	12.0
Roeland Park	100	15.0	98	14.7	109	16.0	94	13.9	101	15.0	14.9
Rose Hill	49	12.3	50	12.6	66	15.5	48	11.2	57	13.2	13.0
Russell	46	10.4	43	9.8	41	9.3	38	8.7	54	12.3	10.1
Sabetha	38	14.7	35	13.7	31	12.3	29	11.6	39	15.6	13.6
St Marys	69	26.0	76	28.7	70	25.5	75	27.2	70	26.2	26.7
Salina	619	13.3	551	11.9	527	11.3	568	12.3	523	11.4	12.1
Scott City	64	17.1	52	13.9	56	13.6	62	15.5	52	13.2	14.6
Shawnee	767	11.7	744	11.2	778	11.5	783	11.3	777	11.2	11.4
South Hutchinson					30	12.0	15	6.0	26	10.4	
Spring Hill	93	12.7	119	15.1	134	15.7	157	17.0	164	16.9	15.6
Tonganoxie	58	10.4	84	14.8	81	14.2	89	15.2	105	18.8	14.7
Topeka	1,758	14.0	1,706	13.7	1,640	13.0	1,574	12.5	1,561	12.4	13.1
Ulysses	97	17.3	78	14.1	94	16.3	86	15.2	74	13.2	15.2
Valley Center	84	11.5	79	10.7	84	11.3	92	12.5	80	10.9	11.4
Wamego	74	15.6	58	12.3	85	17.5	71	14.5	82	16.9	15.4
Wellington	97	12.7	96	12.7	90	11.7	107	14.0	76	10.0	12.2
Wichita	5,504	14.1	5,277	13.5	5,180	13.1	5,351	13.5	5,121	12.9	13.4
Winfield	108	9.0	115	9.7	148	12.6	110	9.4	115	9.9	10.1

* Includes cities with populations of 2,500 or more as reported by the 2020 U.S. Census.
  Clearwater and South Hutchinson added; Girard, Herington, and Phillipsburg dropped.
† Rate per 1,000 population

Figure C7. Percent of Births to Unmarried Mothers,
Kansas and the U.S., 1919-2023
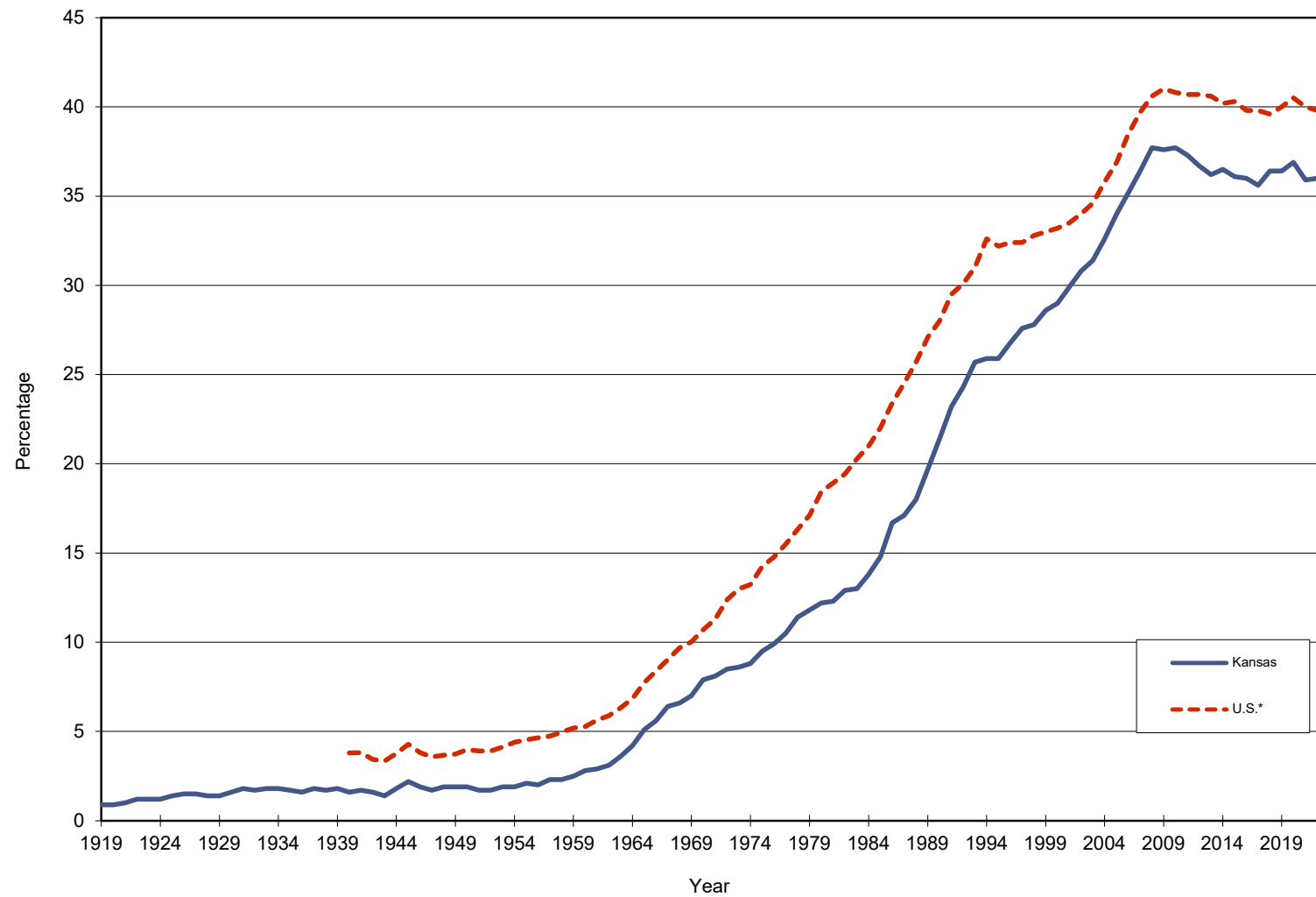
*1919-1939, not available; 2023 U.S. not available

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Table C22
Births to Unmarried Mothers by County of Residence and Peer Group*
by Age-Group and Population Group of Mother
Kansas, 2023

County of Residence	Total	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	n.s.	White Non-Hisp.	Black Non-Hisp.	Nat. Am. Non-Hisp.	Asian/PI Non-Hisp.	Other Non Hisp.†	Hisp. Any Race	n.s.
Kansas	12,171	18	1,421	4,380	3,275	1,984	864	217	11	1	6,331	1,505	74	157	517	3,559	28
Allen	60	1	7	27	15	8	1	1	0	0	57	2	0	0	1	0	0
Anderson	28	0	2	18	5	0	2	0	1	0	28	0	0	0	0	0	0
Atchison	60	0	5	29	18	4	4	0	0	0	47	4	0	0	4	5	0
Barber	13	0	1	6	4	2	0	0	0	0	13	0	0	0	0	0	0
Barton	137	0	20	59	36	13	8	1	0	0	84	2	1	0	5	45	0
Bourbon	63	0	3	24	22	8	6	0	0	0	56	1	0	0	3	3	0
Brown	39	0	3	17	6	6	6	1	0	0	22	1	7	0	4	5	0
Butler	211	0	23	82	55	31	16	4	0	0	173	5	0	1	11	21	0
Chase	8	0	0	3	3	2	0	0	0	0	7	0	0	0	0	1	0
Chautauqua	14	0	4	2	3	3	2	0	0	0	13	0	0	0	1	0	0
Cherokee	80	0	10	38	21	8	2	1	0	0	71	0	2	0	4	3	0
Cheyenne	8	0	1	4	1	0	2	0	0	0	6	0	0	0	0	2	0
Clark	4	0	0	3	1	0	0	0	0	0	3	0	0	0	0	1	0
Clay	28	0	2	7	9	7	2	1	0	0	27	0	0	0	1	0	0
Cloud	28	0	3	9	9	4	3	0	0	0	26	1	1	0	0	0	0
Coffey	38	0	7	11	14	6	0	0	0	0	36	0	0	0	0	2	0
Comanche	6	0	0	3	2	0	1	0	0	0	4	0	0	0	1	1	0
Cowley	214	0	37	74	64	27	9	2	1	0	125	8	2	4	11	64	0
Crawford	202	0	32	77	51	28	11	3	0	0	138	15	0	6	10	33	0
Decatur	11	0	0	5	3	1	2	0	0	0	11	0	0	0	0	0	0
Dickinson	51	0	6	19	15	10	1	0	0	0	42	0	0	0	2	6	1
Doniphan	22	0	3	9	8	0	2	0	0	0	20	0	0	0	2	0	0
Douglas	357	0	32	111	97	71	33	13	0	0	210	29	15	2	20	80	1
Edwards	13	0	1	5	5	2	0	0	0	0	8	0	0	0	0	5	0
Elk	9	0	1	3	4	0	0	1	0	0	6	1	1	0	0	1	0
Ellis	93	0	9	39	25	8	10	2	0	0	73	1	0	0	3	16	0
Ellsworth	14	0	4	3	6	1	0	0	0	0	12	0	0	0	0	2	0
Finney	258	1	31	85	68	48	17	8	0	0	58	11	0	3	4	182	0
Ford	301	2	50	119	66	39	24	1	0	0	35	8	0	4	3	250	1
Franklin	117	1	15	42	33	16	7	2	1	0	102	3	0	0	3	9	0
Geary	181	0	17	75	47	27	10	4	0	1	80	47	0	9	19	26	0
Gove	8	0	1	3	2	2	0	0	0	0	8	0	0	0	0	0	0
Graham	10	0	0	3	2	2	3	0	0	0	10	0	0	0	0	0	0
Grant	37	0	3	22	5	6	1	0	0	0	14	0	0	0	0	23	0
Gray	17	0	0	10	2	2	1	2	0	0	12	0	0	0	0	5	0
Greeley	5	0	0	3	0	0	2	0	0	0	5	0	0	0	0	0	0
Greenwood	22	0	5	11	4	2	0	0	0	0	16	1	2	0	1	2	0
Hamilton	13	0	2	4	5	2	0	0	0	0	4	0	0	0	0	9	0
Harper	29	0	2	11	9	6	1	0	0	0	24	0	0	0	0	5	0
Harvey	129	0	19	52	29	17	8	4	0	0	90	4	0	0	5	30	0
Haskell	13	0	2	3	6	2	0	0	0	0	4	0	0	0	0	9	0
Hodgeman	4	0	0	1	2	0	1	0	0	0	3	0	0	0	1	0	0
Jackson	52	1	9	20	13	5	4	0	0	0	28	0	7	1	3	13	0
Jefferson	35	0	7	14	7	6	1	0	0	0	28	1	0	0	2	4	0
Jewell	10	0	1	2	4	2	1	0	0	0	10	0	0	0	0	0	0
Johnson	1,307	0	110	391	334	286	139	43	4	0	644	175	4	29	51	399	5
Kearny	19	0	3	6	6	4	0	0	0	0	4	0	0	0	0	15	0
Kingman	16	0	1	4	6	4	1	0	0	0	14	0	0	0	1	1	0
Kiowa	3	0	0	0	2	0	1	0	0	0	3	0	0	0	0	0	0
Labette	107	0	15	43	25	14	8	2	0	0	85	11	1	0	4	6	0
Lane	5	0	0	1	3	0	1	0	0	0	4	0	0	0	0	1	0
Leavenworth	273	0	25	91	83	51	18	5	0	0	196	35	0	4	10	26	2
Lincoln	8	0	2	5	0	0	0	1	0	0	8	0	0	0	0	0	0
Linn	32	0	3	10	10	4	5	0	0	0	30	0	0	1	1	0	0
Logan	17	0	3	6	6	1	1	0	0	0	15	0	0	0	0	2	0

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Table C22
Births to Unmarried Mothers by County of Residence and Peer Group*
by Age-Group and Population Group of Mother
Kansas, 2023

| County of Residence | Total | Age-Group of Mother | | | | | | | | | Population Group | | | | | | |
		10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	n.s.	White Non-Hisp.	Black Non-Hisp.	Nat. Am. Non-Hisp.	Asian/PI Non-Hisp.	Other Non Hisp.†	Hisp. Any Race	n.s.
Lyon	159	0	20	71	39	18	8	3	0	0	95	8	0	0	3	53	0
McPherson	85	0	7	35	27	12	3	1	0	0	64	5	2	1	0	13	0
Marion	31	0	5	13	7	4	2	0	0	0	27	0	0	0	3	1	0
Marshall	28	0	4	11	5	7	1	0	0	0	25	0	0	0	3	0	0
Meade	13	0	1	5	5	1	1	0	0	0	5	1	0	0	0	7	0
Miami	105	0	7	40	31	20	7	0	0	0	85	4	0	0	4	12	0
Mitchell	16	0	0	7	5	4	0	0	0	0	14	1	0	0	0	1	0
Montgomery	138	1	23	55	29	23	6	1	0	0	93	8	4	0	6	27	0
Morris	14	0	3	3	7	1	0	0	0	0	12	0	0	0	1	1	0
Morton	13	0	1	8	3	0	1	0	0	0	7	0	0	0	1	5	0
Nemaha	19	0	1	5	5	5	3	0	0	0	15	0	0	0	0	4	0
Neosho	90	0	13	50	16	9	1	1	0	0	76	0	1	0	2	11	0
Ness	11	0	2	3	3	2	1	0	0	0	5	0	0	0	1	5	0
Norton	18	0	2	6	3	5	2	0	0	0	15	0	0	0	2	1	0
Osage	61	1	6	24	20	5	5	0	0	0	54	0	0	0	2	5	0
Osborne	11	0	2	4	1	3	1	0	0	0	11	0	0	0	0	0	0
Ottawa	20	0	0	7	9	3	0	1	0	0	18	0	0	0	0	2	0
Pawnee	17	0	1	5	5	5	0	1	0	0	14	0	0	0	1	2	0
Phillips	19	0	2	9	5	2	1	0	0	0	17	0	0	0	1	1	0
Pottawatomie	50	0	3	25	13	5	2	2	0	0	38	0	1	2	4	5	0
Pratt	26	0	4	7	12	3	0	0	0	0	20	0	0	0	2	4	0
Rawlins	6	0	0	3	1	2	0	0	0	0	3	0	0	0	0	3	0
Reno	274	0	34	120	67	35	15	2	1	0	189	10	0	2	11	62	0
Republic	11	0	3	4	2	1	1	0	0	0	9	0	0	0	1	1	0
Rice	32	0	2	12	10	5	3	0	0	0	25	1	1	0	1	4	0
Riley	179	0	21	72	56	19	10	1	0	0	90	30	0	3	11	44	1
Rooks	12	0	0	2	7	2	1	0	0	0	11	0	0	0	0	1	0
Rush	12	0	1	6	2	3	0	0	0	0	12	0	0	0	0	0	0
Russell	31	0	3	11	8	5	4	0	0	0	30	0	0	0	0	1	0
Saline	259	1	28	114	46	50	14	6	0	0	173	7	0	2	17	60	0
Scott	20	0	2	6	7	3	2	0	0	0	14	0	0	0	0	6	0
Sedgwick	2,736	5	306	939	768	480	194	43	1	0	1,294	533	10	48	117	733	1
Seward	187	3	26	65	49	23	20	1	0	0	14	1	0	0	1	171	0
Shawnee	949	0	118	337	268	142	59	25	0	0	432	147	9	6	84	271	0
Sheridan	4	0	1	2	0	1	0	0	0	0	2	0	0	0	0	2	0
Sherman	20	0	3	6	4	6	1	0	0	0	12	1	0	0	0	6	1
Smith	8	0	0	4	0	3	1	0	0	0	8	0	0	0	0	0	0
Stafford	16	0	2	4	4	3	3	0	0	0	14	0	0	0	0	2	0
Stanton	8	0	2	3	2	0	0	1	0	0	3	0	0	1	0	4	0
Stevens	25	0	1	8	6	8	2	0	0	0	7	1	0	0	0	17	0
Sumner	76	0	8	30	26	7	5	0	0	0	66	1	1	1	3	4	0
Thomas	27	0	3	12	7	4	1	0	0	0	17	1	0	0	2	7	0
Trego	6	0	2	0	1	2	1	0	0	0	6	0	0	0	0	0	0
Wabaunsee	11	0	1	4	4	1	0	1	0	0	10	0	1	0	0	0	0
Wallace.	6	0	0	1	2	2	1	0	0	0	6	0	0	0	0	0	0
Washington	6	0	0	1	2	1	2	0	0	0	5	0	0	0	0	1	0
Wichita	10	0	1	5	1	2	1	0	0	0	4	0	0	0	0	6	0
Wilson	34	0	9	13	7	3	1	1	0	0	31	0	0	1	0	2	0
Woodson	11	0	1	7	2	0	0	1	0	0	11	0	0	0	0	0	0
Wyandotte	1,412	1	194	472	385	236	99	23	2	0	271	379	1	26	42	678	15
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Peer Group																	
Frontier	385	0	45	144	103	59	31	3	0	0	287	4	3	1	7	82	1
Rural	792	0	85	297	226	123	51	9	1	0	634	7	11	3	26	111	0
Densely -Settled Rural	2,165	9	287	869	567	270	136	26	1	0	1,150	63	17	15	63	855	2
Semi-Urban	1,795	3	219	729	444	266	104	27	2	1	1,213	133	4	23	97	324	1
Urban	7,034	6	785	2,341	1,935	1,266	542	152	7	0	3,047	1,298	39	115	324	2,187	24

* See Technical Notes for Peer Group definition.
† Includes selection of two or more races and other non-specified race

Figure C8. Teenage Pregnancy Rates*
by Age-Group,
Kansas 2004-2023
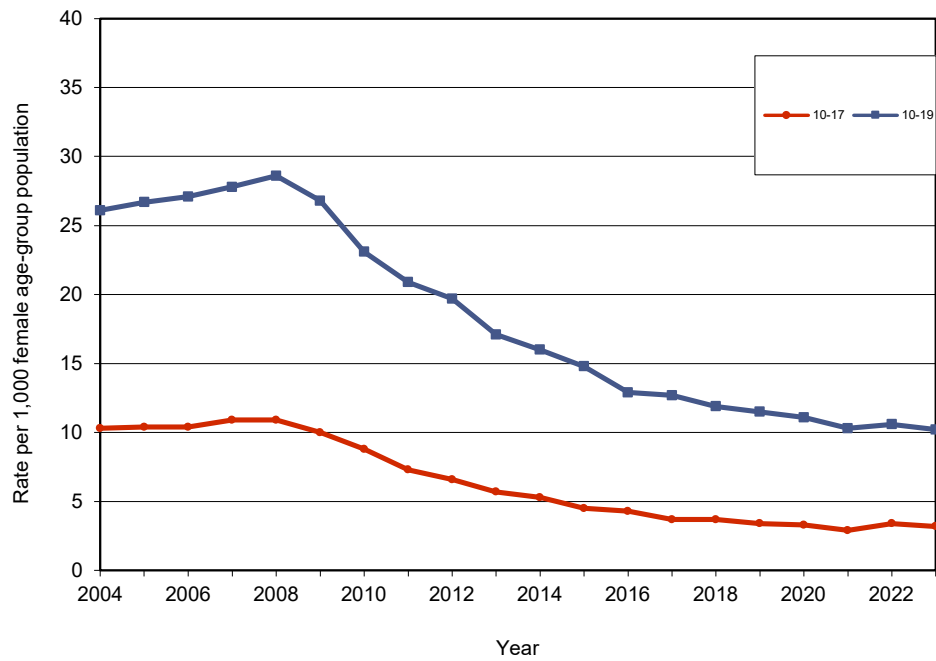
Residence Data

Table C23
Teenage Pregnancy Numbers and Rates*
by Year by Selected Age-Groups
Kansas, 2004-2023

Year	Teen (10-19) Pregnancies	Age-Group				Teen (10-19) Pregnancy Rate	Pregnancy Rate			
		10-14	15-17	18-19	15-19		10-14	15-17	10-17	15-19
2004	5,026	71	1,492	3,463	4,955	26.1	0.8	25.8	10.3	50.3
2005	5,044	69	1,483	3,492	4,975	26.7	0.8	25.7	10.4	50.8
2006	5,192	85	1,507	3,600	5,107	27.1	0.9	25.5	10.4	52.2
2007	5,268	70	1,573	3,625	5,198	27.8	0.8	26.8	10.9	53.2
2008	5,371	66	1,552	3,753	5,305	28.6	0.7	27.1	10.9	55.0
2009	5,036	56	1,417	3,563	4,980	26.8	0.6	25.2	10.0	51.6
2010	4,501	59	1,298	3,144	4,442	23.1	0.6	22.4	8.8	45.1
2011	4,095	70	1,063	2,962	4,025	20.9	0.7	18.4	7.3	40.8
2012	3,823	42	973	2,808	3,781	19.7	0.4	17.0	6.6	39.0
2013	3,335	41	841	2,453	3,294	17.1	0.4	14.6	5.7	34.0
2014	3,118	35	783	2,300	3,083	16.0	0.4	13.6	5.3	33.2
2015	2,872	22	673	2,177	2,850	14.8	0.2	11.5	4.5	29.3
2016	2,518	29	649	1,840	2,489	12.9	0.3	11.2	4.3	25.7
2017	2,469	23	552	1,894	2,446	12.7	0.2	9.5	3.7	25.3
2018	2,324	18	565	1,741	2,306	11.9	0.2	9.8	3.7	23.8
2019	2,236	24	501	1,711	2,212	11.5	0.2	8.7	3.4	22.9
2020	2,153	24	490	1,639	2,129	11.1	0.2	8.5	3.3	22.1
2021	2,055	22	451	1,582	2,033	10.3	0.2	7.5	2.9	20.5
2022	2,095	34	501	1,560	2,061	10.6	0.3	8.4	3.4	20.7
2023	2,041	31	487	1,523	2,010	10.2	0.3	7.9	3.2	19.8

*Rate per 1,000 female age-group population; see Technical Notes for population treatment in 2000, 2001, and 2010.
 Teenage pregnancies is the sum of live births, reported abortions and stillbirths

Figure C9. Teen and Non-Teen Live Births:
Percent Distribution by Month Prenatal Care Began
Kansas, 2023
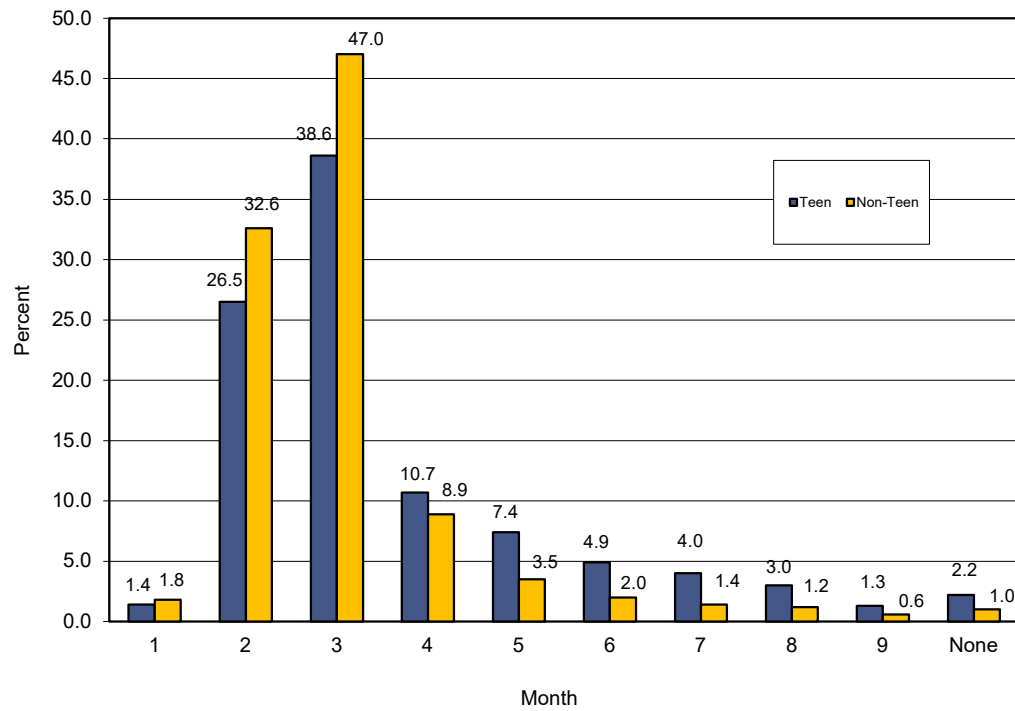
Figure C10. Teenage Live Births by Population Group
Kansas, 2023
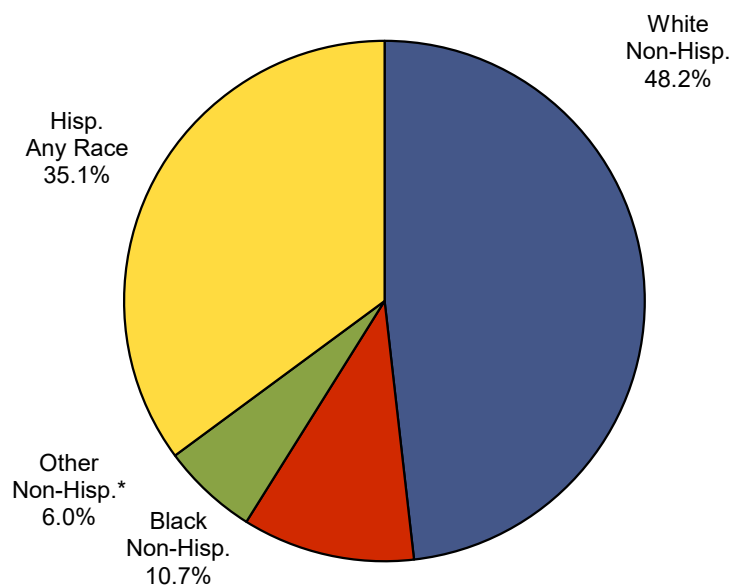
*Includes selection of two or more races
 or other race

Table C24
Teenage Pregnancy Numbers and Rates*
by Year for Selected Population Groups and Age-Groups
Kansas, 2019-2023

Year	White Non-Hispanic								Black Non-Hispanic								Hispanic Any Race							
	10-14		10-17		15-19		10-19		10-14		10-17		15-19		10-19		10-14		10-17		15-19		10-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
2019	5	0.1	213	2.0	1,107	16.4	1,112	8.1	5	0.6	82	6.4	268	35.1	273	17.1	11	0.6	190	6.6	670	39.6	681	20.9
2020	10	0.2	234	2.3	1,065	16.4	1,075	8.3	5	0.8	71	7.6	247	43.0	252	21.4	8	0.4	170	5.7	642	37.1	650	17.9
2021	10	0.2	188	1.8	977	14.7	987	7.5	4	0.7	78	8.1	254	43.0	258	21.5	8	0.4	160	5.2	655	35.8	663	17.4
2022	12	0.2	223	2.2	964	14.6	976	7.5	7	1.2	69	7.3	232	39.0	239	20.3	11	0.6	202	6.6	729	38.7	740	19.4
2023	13	0.2	215	2.1	920	13.9	933	7.2	2	0.3	74	7.7	229	38.1	231	19.4	12	0.6	183	5.7	724	35.5	736	11.2

*Rate per 1,000 female race/Hispanic age-group population.

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Table C25
Teenage Pregnancies by County of Residence and Peer Group*
by Age-Group and Component
Kansas, 2023

County of Residence	Live Births Age-Group 10-14	Live Births Age-Group 15-19	Stillbirths Age-Group 10-14	Stillbirths Age-Group 15-19	Abortions Age-Group 10-14	Abortions Age-Group 15-19	Total Pregnancies Age Group 10-14	Total Pregnancies Age Group 15-19	Total Pregnancies Age Group 10-19	Teenage[†] Preg. Rates Age-Group 10-19
Kansas	18	1,537	0	5	13	468	31	2,010	2,041	10.2
Allen	1	8	0	0	0	3	1	11	12	14.1
Anderson	0	2	0	0	0	1	0	3	3	5.7
Atchison	0	5	0	0	0	3	0	8	8	5.8
Barber	0	1	0	0	0	0	0	1	1	4.0
Barton	0	21	0	0	0	0	0	21	21	12.3
Bourbon	0	7	0	0	0	0	0	7	7	6.4
Brown	0	4	0	0	0	0	0	4	4	6.1
Butler	0	24	0	0	0	5	0	29	29	5.9
Chase	0	0	0	0	0	0	0	0	0	0.0
Chautauqua	0	4	0	0	0	2	0	6	6	30.9
Cherokee	0	11	0	0	0	2	0	13	13	10.8
Cheyenne	0	1	0	0	0	0	0	1	1	7.8
Clark	0	0	0	0	0	0	0	0	0	0.0
Clay	0	3	0	0	0	1	0	4	4	8.0
Cloud	0	4	0	0	0	3	0	7	7	11.3
Coffey	0	8	0	0	0	1	0	9	9	19.4
Comanche	0	0	0	0	0	0	0	0	0	0.0
Cowley	0	39	0	0	0	3	0	42	42	16.5
Crawford	0	35	0	0	0	3	0	38	38	14.2
Decatur	0	0	0	0	0	0	0	0	0	0.0
Dickinson	0	7	0	0	0	2	0	9	9	7.7
Doniphan	0	3	0	0	0	2	0	5	5	9.4
Douglas	0	32	0	0	0	18	0	50	50	6.0
Edwards	0	1	0	0	0	0	0	1	1	5.7
Elk	0	1	0	0	0	0	0	1	1	5.6
Ellis	0	9	0	0	1	0	1	9	10	4.5
Ellsworth	0	4	0	0	0	1	0	5	5	16.8
Finney	1	35	0	0	1	5	2	40	42	13.6
Ford	2	52	0	1	0	8	2	61	63	23.7
Franklin	1	15	0	0	0	2	1	17	18	10.3
Geary	0	36	0	0	0	5	0	41	41	18.7
Gove	0	1	0	0	0	0	0	1	1	5.5
Graham	0	0	0	0	0	0	0	0	0	0.0
Grant	0	4	0	1	0	0	0	5	5	8.3
Gray	0	0	0	0	0	0	0	0	0	0.0
Greeley	0	1	0	0	0	0	0	1	1	10.2
Greenwood	0	6	0	0	0	2	0	8	8	24.2
Hamilton	0	2	0	0	0	0	0	2	2	11.6
Harper	0	2	0	0	0	2	0	4	4	10.8
Harvey	0	21	0	0	0	2	0	23	23	9.7
Haskell	0	2	0	0	0	0	0	2	2	7.8
Hodgeman	0	0	0	0	0	0	0	0	0	0.0
Jackson	1	9	0	0	0	1	1	10	11	12.8
Jefferson	0	9	0	0	0	1	0	10	10	8.9
Jewell	0	2	0	1	0	1	0	4	4	23.5
Johnson	0	118	0	0	4	70	4	188	192	4.8
Kearny	0	3	0	1	0	0	0	4	4	12.7
Kingman	0	1	0	0	0	0	0	1	1	2.2
Kiowa	0	1	0	0	0	0	0	1	1	5.7
Labette	0	20	0	0	0	3	0	23	23	17.7
Lane	0	0	0	0	0	0	0	0	0	0.0
Leavenworth	0	28	0	0	0	13	0	41	41	8.0
Lincoln	0	2	0	0	0	0	0	2	2	10.6
Linn	0	3	0	0	0	5	0	8	8	12.9
Logan	0	3	0	0	0	0	0	3	3	18.8

Table C25
Teenage Pregnancies by County of Residence and Peer Group*
by Age-Group and Component
Kansas, 2023

County of Residence	Live Births		Stillbirths		Abortions		Total Pregnancies			Teenage[†] Preg. Rates
	Age-Group		Age-Group		Age-Group		Age Group			Age-Group
	10-14	15-19	10-14	15-19	10-14	15-19	10-14	15-19	10-19	10-19
Lyon	0	22	0	0	0	7	0	29	29	11.7
McPherson	0	7	0	0	1	3	1	10	11	5.1
Marion	0	6	0	0	0	1	0	7	7	9.0
Marshall	0	4	0	0	0	0	0	4	4	6.1
Meade	0	1	0	0	0	1	0	2	2	7.1
Miami	0	10	0	0	0	3	0	13	13	5.5
Mitchell	0	0	0	0	0	1	0	1	1	2.6
Montgomery	1	23	0	0	0	4	1	27	28	12.8
Morris	0	3	0	0	0	0	0	3	3	10.1
Morton	0	1	0	0	0	0	0	1	1	5.4
Nemaha	0	1	0	0	0	1	0	2	2	2.9
Neosho	0	13	0	0	0	3	0	16	16	14.7
Ness	0	2	0	0	0	0	0	2	2	12.0
Norton	0	2	0	0	0	0	0	2	2	7.2
Osage	1	6	0	0	1	0	2	6	8	7.7
Osborne	0	3	0	0	0	0	0	3	3	14.9
Ottawa	0	0	0	0	0	0	0	0	0	0.0
Pawnee	0	1	0	0	0	0	0	1	1	3.9
Phillips	0	2	0	0	0	1	0	3	3	10.5
Pottawatomie	0	3	0	0	0	0	0	3	3	1.4
Pratt	0	5	0	0	0	1	0	6	6	9.2
Rawlins	0	0	0	0	0	0	0	0	0	0.0
Reno	0	39	0	0	0	12	0	51	51	12.7
Republic	0	3	0	0	0	0	0	3	3	10.6
Rice	0	2	0	0	0	1	0	3	3	4.4
Riley	0	28	0	0	0	13	0	41	41	8.0
Rooks	0	0	0	0	0	0	0	0	0	0.0
Rush	0	1	0	0	0	0	0	1	1	6.1
Russell	0	3	0	0	0	2	0	5	5	13.2
Saline	1	30	0	0	0	10	1	40	41	12.2
Scott	0	3	0	0	0	1	0	4	4	11.3
Sedgwick	5	319	0	0	4	133	9	452	461	12.6
Seward	3	27	0	0	0	2	3	29	32	17.8
Shawnee	0	120	0	1	0	30	0	151	151	13.0
Sheridan	0	1	0	0	0	0	0	1	1	6.0
Sherman	0	3	0	0	0	1	0	4	4	10.1
Smith	0	0	0	0	0	0	0	0	0	0.0
Stafford	0	2	0	0	0	0	0	2	2	8.3
Stanton	0	2	0	0	0	0	0	2	2	10.8
Stevens	0	2	0	0	0	1	0	3	3	6.2
Sumner	0	9	0	0	0	3	0	12	12	8.0
Thomas	0	3	0	0	0	0	0	3	3	4.9
Trego	0	2	0	0	0	0	0	2	2	14.9
Wabaunsee	0	1	0	0	0	1	0	2	2	4.7
Wallace	0	0	0	0	0	0	0	0	0	0.0
Washington	0	0	0	0	0	0	0	0	0	0.0
Wichita	0	1	0	0	0	1	0	2	2	12.3
Wilson	0	9	0	0	0	1	0	10	10	17.7
Woodson	0	2	0	0	0	0	0	2	2	11.4
Wyandotte	1	200	0	0	1	53	2	253	255	21.2
n.s.	0	0	0	0	0	7	0	7	7	n/a
Peer Group										
Frontier	0	50	0	2	0	9	0	61	61	8.9
Rural	0	99	0	1	1	31	1	131	132	7.6
Densely -Settled Rural	9	310	0	1	3	45	12	356	368	11.9
Semi-Urban	3	261	0	0	0	59	3	320	323	10.4
Urban	6	817	0	1	9	317	15	1,135	1,150	10.1

* See Technical Notes for Peer Group definition.
[†] Rate per 1,000 female age-group population

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Table C26
Teenage Pregnancies for 10-17 Year Olds
by County of Residence and Peer Group[*], by Component
Kansas, 2023

County of Residence	Live Births	Stillbirths	Abortions	Total Pregnancies	Pregnancy Rate[†]
Kansas	395	1	122	518	3.2
Allen	3	0	2	5	8.0
Anderson	0	0	1	1	2.3
Atchison	1	0	3	4	4.8
Barber	0	0	0	0	0.0
Barton	3	0	0	3	2.1
Bourbon	2	0	0	2	2.2
Brown	2	0	0	2	3.6
Butler	3	0	3	6	1.5
Chase	0	0	0	0	0.0
Chautauqua	0	0	0	0	0.0
Cherokee	4	0	1	5	4.9
Cheyenne	0	0	0	0	0.0
Clark	0	0	0	0	0.0
Clay	0	0	0	0	0.0
Cloud	0	0	1	1	2.2
Coffey	2	0	1	3	7.7
Comanche	0	0	0	0	0.0
Cowley	10	0	0	10	5.1
Crawford	9	0	1	10	5.3
Decatur	0	0	0	0	0.0
Dickinson	1	0	0	1	1.0
Doniphan	0	0	1	1	2.7
Douglas	7	0	1	8	1.7
Edwards	1	0	0	1	6.9
Elk	1	0	0	1	6.4
Ellis	2	0	1	3	2.3
Ellsworth	0	0	0	0	0.0
Finney	8	0	2	10	4.0
Ford	20	0	1	21	9.7
Franklin	3	0	1	4	2.8
Geary	7	0	1	8	4.2
Gove	0	0	0	0	0.0
Graham	0	0	0	0	0.0
Grant	1	1	0	2	3.9
Gray	0	0	0	0	0.0
Greeley	0	0	0	0	0.0
Greenwood	1	0	0	1	3.6
Hamilton	0	0	0	0	0.0
Harper	1	0	0	1	3.1
Harvey	7	0	2	9	4.6
Haskell	0	0	0	0	0.0
Hodgeman	0	0	0	0	0.0
Jackson	3	0	0	3	4.0
Jefferson	2	0	1	3	3.2
Jewell	1	0	0	1	6.9
Johnson	37	0	17	54	1.6
Kearny	1	0	0	1	3.8
Kingman	0	0	0	0	0.0
Kiowa	0	0	0	0	0.0
Labette	3	0	1	4	3.6
Lane	0	0	0	0	0.0
Leavenworth	8	0	3	11	2.6
Lincoln	2	0	0	2	12.5
Linn	1	0	2	3	5.7
Logan	0	0	0	0	0.0

Table C26
Teenage Pregnancies for 10-17 Year Olds
by County of Residence and Peer Group[*], by Component
Kansas, 2023

County of Residence	Live Births	Stillbirths	Abortions	Total Pregnancies	Pregnancy Rate[†]
Lyon	3	0	0	3	1.8
McPherson	2	0	1	3	1.9
Marion	0	0	0	0	0.0
Marshall	1	0	0	1	1.8
Meade	0	0	0	0	0.0
Miami	1	0	1	2	1.0
Mitchell	0	0	0	0	0.0
Montgomery	5	0	1	6	3.4
Morris	1	0	0	1	4.0
Morton	0	0	0	0	0.0
Nemaha	0	0	1	1	1.7
Neosho	1	0	0	1	1.1
Ness	0	0	0	0	0.0
Norton	0	0	0	0	0.0
Osage	2	0	1	3	3.3
Osborne	0	0	0	0	0.0
Ottawa	0	0	0	0	0.0
Pawnee	0	0	0	0	0.0
Phillips	0	0	1	1	4.2
Pottawatomie	1	0	0	1	0.6
Pratt	0	0	0	0	0.0
Rawlins	0	0	0	0	0.0
Reno	7	0	2	9	2.8
Republic	0	0	0	0	0.0
Rice	1	0	0	1	1.9
Riley	6	0	2	8	3.4
Rooks	0	0	0	0	0.0
Rush	0	0	0	0	0.0
Russell	1	0	2	3	9.3
Saline	5	0	3	8	2.9
Scott	1	0	0	1	3.4
Sedgwick	89	0	39	128	4.2
Seward	9	0	0	9	6.4
Shawnee	24	0	9	33	3.5
Sheridan	0	0	0	0	0.0
Sherman	0	0	0	0	0.0
Smith	0	0	0	0	0.0
Stafford	0	0	0	0	0.0
Stanton	1	0	0	1	6.6
Stevens	0	0	0	0	0.0
Sumner	3	0	1	4	3.1
Thomas	2	0	0	2	5.0
Trego	1	0	0	1	8.9
Wabaunsee	0	0	1	1	2.9
Wallace	0	0	0	0	0.0
Washington	0	0	0	0	0.0
Wichita	1	0	1	2	13.9
Wilson	2	0	0	2	4.1
Woodson	1	0	0	1	6.8
Wyandotte	67	0	9	76	7.6
n.s.	0	0	0	0	n/a
Peer Group					
Frontier	10	0	2	12	2.1
Rural	21	1	11	33	2.3
Densely -Settled Rural	79	0	14	93	3.8
Semi-Urban	53	0	17	70	3.0
Urban	232	0	78	310	3.4

[*] See Technical Notes for Peer Group definition. [†] Rates per 1,000 female age-group population

Table C27

Number and Percent of Live Births under 37 weeks gestation, by Year and by Population Group

Kansas Residents, 2005-2023*

	White NH		Black NH		American Indian-Alaska Native NH		Asian-PI NH		Multi Race-Other NH		Hispanic-Any Race		n.s.		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
2005	2,819	9.8	369	13.7	23	7.0	66	6.2	55	8.9	452	7.3	6	15.3	3,790	9.5
2006	2,775	9.5	328	11.7	29	10.6	106	9.1	73	10.7	515	7.9	2	7.4	3,828	9.4
2007	2,795	9.4	360	12.6	31	11.2	90	7.7	87	11.4	497	7.5	5	15.2	3,865	9.2
2008	2,749	9.1	378	12.8	32	12.1	111	9.2	86	11.5	513	7.6	4	12.5	3,873	9.2
2009	2,655	9.1	371	13.1	20	8.6	112	9.4	95	11.4	548	8.1	3	9.1	3,804	9.3
2010	2,497	8.6	340	12.2	21	10.4	107	9.3	88	10.2	479	7.5	2	5.1	3,534	8.7
2011	2,497	8.6	364	13.6	26	13.3	86	7.1	91	9.9	532	8.5	2	9.1	3,598	8.9
2012	2,499	8.6	350	13.0	22	11.2	120	9.9	96	10.5	542	8.6	0	0.0	3,629	9.0
2013	2,419	8.7	344	13.5	26	14.2	95	8.1	88	9.6	476	7.8	0	0.0	3,448	8.9
2014	2,357	8.4	337	12.8	25	10.5	95	8.3	102	10.0	501	8.2	2	8.3	3,419	8.7
2015	2,356	8.5	295	11.4	21	11.4	115	9.2	112	10.4	523	8.3	4	17.4	3,426	8.8
2016	2,382	8.9	336	13.5	18	10.6	107	8.8	95	9.0	516	8.2	3	14.3	3,457	9.1
2017	2,320	9.1	352	14.3	19	11.3	114	9.1	132	11.2	554	9.3	1	4.0	3,492	9.6
2018	2,318	9.2	333	13.4	16	10.5	99	8.1	119	10.2	552	9.3	3	7.7	3,440	9.6
2019	2,348	9.6	358	14.8	17	11.6	116	9.5	118	10.8	606	10.0	6	16.2	3,569	10.1
2020	2,222	9.5	314	13.3	10	6.3	134	11.3	121	10.8	616	10.3	8	16.7	3,425	10.0
2021	2,233	9.3	333	14.6	16	8.9	103	9.5	107	10.8	595	9.7	10	11.4	3,397	9.8
2022	2,365	10.0	318	14.5	19	11.5	134	11.9	95	10.0	652	10.4	11	11.7	3,594	10.5
2023	2,334	10.2	336	15.5	12	8.3	110	10.1	105	10.1	653	10.0	8	10.4	3,558	10.5

* See Technical Notes for discussion of years chosen for this table.

Table C28
Number and Percent of Live Births under 2500 grams, by Year and by Population Group
Kansas Residents, 2005-2023*

Year	White NH		Black NH		American Indian-Alaska Native NH		Asian-PI NH		Multi Race-Other NH		Hispanic-Any Race		n.s.		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
2005	1,989	7.0	378	14.2	15	4.6	72	6.8	41	6.5	352	5.7	7	18.0	2,854	7.2
2006	2,043	6.9	357	12.7	15	5.6	104	9.1	51	7.5	374	5.7	2	7.4	2,946	7.2
2007	2,042	6.8	377	13.2	17	6.2	95	8.1	73	9.6	377	5.8	3	9.1	2,984	7.0
2008	2,023	6.7	379	12.9	23	8.7	111	9.3	59	7.8	418	6.1	1	3.1	3,014	7.2
2009	2,006	6.7	367	13.1	16	6.9	108	9.1	84	10.1	438	6.6	2	6.0	3,021	7.3
2010	1,898	6.6	374	13.4	16	8.0	102	8.9	69	7.9	406	6.3	2	5.2	2,867	7.2
2011	1,893	6.7	365	13.5	26	11.3	85	7.5	77	8.9	418	6.6	3	13.6	2,867	7.3
2012	1,892	6.6	353	13.1	11	5.6	115	9.5	81	8.8	435	6.9	1	4.5	2,888	7.2
2013	1,870	6.7	337	13.3	12	6.6	91	7.8	62	6.7	356	5.9	0	0.0	2,728	7.1
2014	1,808	6.4	353	13.5	9	3.7	111	9.7	85	8.4	398	6.4	4	16.7	2,768	7.1
2015	1,811	6.5	310	12.0	9	4.8	94	7.5	86	8.0	370	5.8	3	13.0	2,683	6.8
2016	1,724	6.5	342	13.7	15	8.9	91	7.4	76	7.1	404	6.4	2	9.6	2,654	6.9
2017	1,698	6.5	352	14.3	11	6.6	100	8.0	127	10.7	408	6.9	1	4.0	2,697	7.4
2018	1,707	6.7	340	13.6	7	4.7	108	8.8	99	8.5	432	7.3	3	7.7	2,696	7.5
2019	1,672	6.9	360	14.9	13	8.8	92	7.5	100	9.1	448	7.4	4	10.8	2,689	7.6
2020	1,497	6.4	342	14.4	11	6.9	117	9.8	105	9.4	425	7.1	8	16.7	2,505	7.3
2021	1,613	6.7	325	14.3	12	6.7	93	8.6	87	8.8	431	7.0	9	10.2	2,570	7.4
2022	1,702	7.2	317	14.5	10	6.1	110	9.8	78	8.2	483	7.7	5	5.3	2,705	7.9
2023	1,588	6.9	336	15.5	7	4.9	102	9.4	87	8.4	487	7.4	6	7.4	2,613	7.7

* See Technical Notes for discussion of years chosen for this table.

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D. FETAL AND INFANT MORTALITY

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Table D1
Number of Stillbirths by Cause of Death and Weeks Gestation
Kansas, 2023

Cause of Death[*]	Total Stillbirths	Weeks Gestation			
		20-31	32-41	42 & Over	n.s.
All Causes	186	112	74	0	0
Certain Conditions Originating in the Perinatal Period	163	95	68	0	0
-Fetus Affected by Maternal Conditions	20	10	10	0	0
-Fetus Affected by Maternal Complications of Pregnancy	25	23	2	0	0
-Fetus Affected by Complications of Placenta, Cord & Membrane	43	21	22	0	0
-Fetus Affected by Complications of Labor & Delivery	1	0	1	0	0
-Disorders Related to Short Gestation & Low Birth Weight	0	0	0	0	0
-Hypoxia and Birth Asphyxia	0	0	0	0	0
-Cardiovascular Disorders	0	0	0	0	0
-Hemorrhagic & Hematologic Disorders of Fetus	1	0	1	0	0
-Unspecified Cause	58	34	24	0	0
-Other Perinatal Conditions	15	7	8	0	0
Congenital Anomalies	16	11	5	0	0
All other Causes	7	6	1	0	0

* The ICD-10 codes associated with each category are listed in Appendix 8.

Figure D1. Number of Stillbirths
By Selected Characteristics
Kansas, 2023
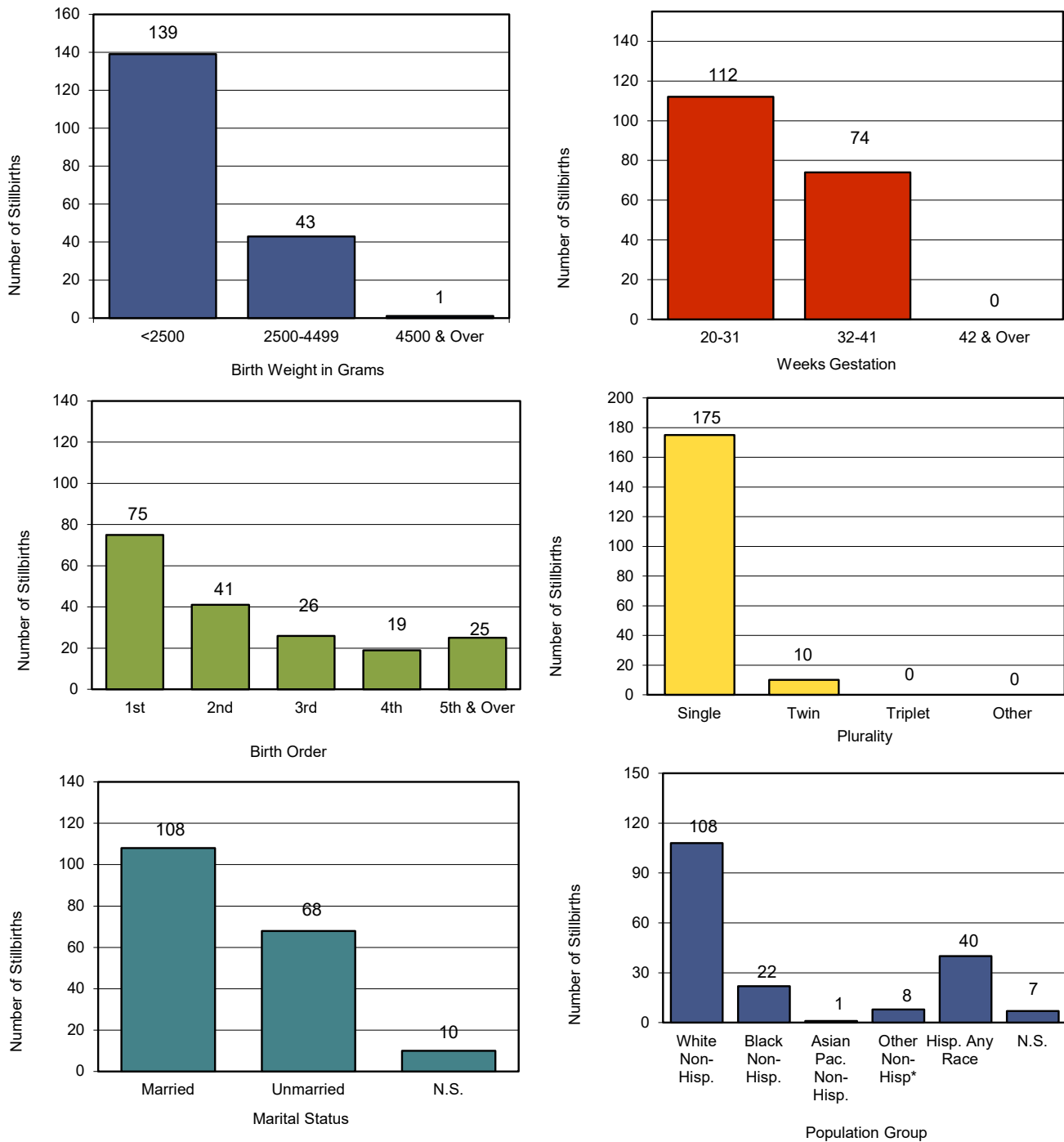
*Includes selection of two or more races and other
 non-specified race

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Table D2
Stillbirths by County of Residence and Peer Group*
by Age-Group of Mother
Kansas, 2023

County of Residence	Total	Age-Group of Mother								
		10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	n.s.
Kansas	186	0	5	28	46	61	28	9	0	9
Allen	1	0	0	0	0	1	0	0	0	0
Anderson	0	0	0	0	0	0	0	0	0	0
Atchison	2	0	0	0	1	1	0	0	0	0
Barber	0	0	0	0	0	0	0	0	0	0
Barton	1	0	0	0	0	1	0	0	0	0
Bourbon	2	0	0	0	0	2	0	0	0	0
Brown	0	0	0	0	0	0	0	0	0	0
Butler	3	0	0	0	1	2	0	0	0	0
Chase	0	0	0	0	0	0	0	0	0	0
Chautauqua	0	0	0	0	0	0	0	0	0	0
Cherokee	4	0	0	0	2	0	1	0	0	1
Cheyenne	0	0	0	0	0	0	0	0	0	0
Clark	0	0	0	0	0	0	0	0	0	0
Clay	1	0	0	0	0	0	1	0	0	0
Cloud	0	0	0	0	0	0	0	0	0	0
Coffey	0	0	0	0	0	0	0	0	0	0
Comanche	1	0	0	0	0	1	0	0	0	0
Cowley	2	0	0	1	1	0	0	0	0	0
Crawford	4	0	0	1	0	0	1	0	0	2
Decatur	0	0	0	0	0	0	0	0	0	0
Dickinson	0	0	0	0	0	0	0	0	0	0
Doniphan	0	0	0	0	0	0	0	0	0	0
Douglas	4	0	0	2	2	0	0	0	0	0
Edwards	0	0	0	0	0	0	0	0	0	0
Elk	0	0	0	0	0	0	0	0	0	0
Ellis	2	0	0	0	0	2	0	0	0	0
Ellsworth	0	0	0	0	0	0	0	0	0	0
Finney	0	0	0	0	0	0	0	0	0	0
Ford	4	0	1	1	1	0	0	1	0	0
Franklin	2	0	0	0	0	2	0	0	0	0
Geary	6	0	0	3	0	2	0	1	0	0
Gove	1	0	0	0	0	1	0	0	0	0
Graham	0	0	0	0	0	0	0	0	0	0
Grant	2	0	1	1	0	0	0	0	0	0
Gray	0	0	0	0	0	0	0	0	0	0
Greeley	0	0	0	0	0	0	0	0	0	0
Greenwood	1	0	0	0	1	0	0	0	0	0
Hamilton	0	0	0	0	0	0	0	0	0	0
Harper	0	0	0	0	0	0	0	0	0	0
Harvey	0	0	0	0	0	0	0	0	0	0
Haskell	0	0	0	0	0	0	0	0	0	0
Hodgeman	0	0	0	0	0	0	0	0	0	0
Jackson	0	0	0	0	0	0	0	0	0	0
Jefferson	3	0	0	1	2	0	0	0	0	0
Jewell	1	0	1	0	0	0	0	0	0	0
Johnson	31	0	0	1	8	12	7	1	0	2
Kearny	1	0	1	0	0	0	0	0	0	0
Kingman	2	0	0	0	1	1	0	0	0	0
Kiowa	0	0	0	0	0	0	0	0	0	0
Labette	2	0	0	0	1	0	0	0	0	1
Lane	0	0	0	0	0	0	0	0	0	0
Leavenworth	8	0	0	0	0	5	3	0	0	0
Lincoln	0	0	0	0	0	0	0	0	0	0
Linn	2	0	0	1	1	0	0	0	0	0
Logan	0	0	0	0	0	0	0	0	0	0

Table D2
Stillbirths by County of Residence and Peer Group*
by Age-Group of Mother
Kansas, 2023

| County of Residence | Total | Age-Group of Mother | | | | | | | | |
		10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	n.s.
Lyon	2	0	0	0	1	1	0	0	0	0
McPherson	1	0	0	1	0	0	0	0	0	0
Marion	0	0	0	0	0	0	0	0	0	0
Marshall	1	0	0	0	1	0	0	0	0	0
Meade	1	0	0	0	0	1	0	0	0	0
Miami	2	0	0	0	0	0	1	1	0	0
Mitchell	2	0	0	0	1	0	1	0	0	0
Montgomery	2	0	0	0	0	1	1	0	0	0
Morris	1	0	0	0	1	0	0	0	0	0
Morton	1	0	0	0	0	1	0	0	0	0
Nemaha	0	0	0	0	0	0	0	0	0	0
Neosho	1	0	0	0	0	1	0	0	0	0
Ness	0	0	0	0	0	0	0	0	0	0
Norton	0	0	0	0	0	0	0	0	0	0
Osage	1	0	0	0	0	1	0	0	0	0
Osborne	0	0	0	0	0	0	0	0	0	0
Ottawa	0	0	0	0	0	0	0	0	0	0
Pawnee	0	0	0	0	0	0	0	0	0	0
Phillips	2	0	0	1	1	0	0	0	0	0
Pottawatomie	1	0	0	0	0	0	0	1	0	0
Pratt	0	0	0	0	0	0	0	0	0	0
Rawlins	0	0	0	0	0	0	0	0	0	0
Reno	1	0	0	0	0	1	0	0	0	0
Republic	1	0	0	0	0	1	0	0	0	0
Rice	1	0	0	1	0	0	0	0	0	0
Riley	4	0	0	1	2	0	0	0	0	1
Rooks	0	0	0	0	0	0	0	0	0	0
Rush	0	0	0	0	0	0	0	0	0	0
Russell	0	0	0	0	0	0	0	0	0	0
Saline	2	0	0	1	0	0	1	0	0	0
Scott	0	0	0	0	0	0	0	0	0	0
Sedgwick	42	0	0	7	8	14	9	3	0	1
Seward	2	0	0	0	2	0	0	0	0	0
Shawnee	7	0	1	1	2	1	0	1	0	1
Sheridan	0	0	0	0	0	0	0	0	0	0
Sherman	0	0	0	0	0	0	0	0	0	0
Smith	0	0	0	0	0	0	0	0	0	0
Stafford	0	0	0	0	0	0	0	0	0	0
Stanton	1	0	0	0	1	0	0	0	0	0
Stevens	0	0	0	0	0	0	0	0	0	0
Sumner	0	0	0	0	0	0	0	0	0	0
Thomas	0	0	0	0	0	0	0	0	0	0
Trego	0	0	0	0	0	0	0	0	0	0
Wabaunsee	2	0	0	1	0	1	0	0	0	0
Wallace	0	0	0	0	0	0	0	0	0	0
Washington	1	0	0	0	0	1	0	0	0	0
Wichita	0	0	0	0	0	0	0	0	0	0
Wilson	0	0	0	0	0	0	0	0	0	0
Woodson	0	0	0	0	0	0	0	0	0	0
Wyandotte	11	0	0	2	4	3	2	0	0	0
n.s.	0	0	0	0	0	0	0	0	0	0
Peer Group										
Frontier	10	0	2	1	3	4	0	0	0	0
Rural	16	0	1	5	4	4	2	0	0	0
Densely -Settled Rural	31	0	1	3	12	10	1	2	0	2
Semi-Urban	26	0	0	6	3	8	4	2	0	3
Urban	103	0	1	13	24	35	21	5	0	4

* See Technical Notes for Peer Group definition.

Table D3

Total Reported Abortions and Ratios of Abortions to Live Births*

Kansas, 1976-2023

Year	Total*	Out of State Residents	Kansas Residents	Ratio†	n.s.
1976	9,154	3,455	5,686	161.2	13
1977	7,965	2,918	5,045	137.0	2
1978	9,740	3,957	5,722	156.4	61
1979	12,335	5,042	7,281	187.1	12
1980	11,791	4,750	7,038	173.0	3
1981	10,448	4,150	6,291	152.7	7
1982	9,976	3,823	6,153	151.0	0
1983	8,547	3,218	5,329	132.0	0
1984	8,008	2,689	5,319	133.1	0
1985	7,092	2,447	4,645	117.8	0
1986	6,561	2,316	4,245	108.4	0
1987	6,409	2,357	4,052	105.4	0
1988	7,930	3,161	4,769	123.2	0
1989	8,984	3,270	4,149	107.4	1,565
1990	9,459	3,341	4,175	107.4	1,943
1991	10,141	4,071	6,070	161.3	0
1992	11,135	4,904	6,231	164.6	0
1993	11,247	4,853	6,394	171.5	0
1994	10,847	4,245	6,596	177.0	6
1995‡	11,149	4,562	6,566	177.0	21
1996	11,181	4,367	6,806	186.3	8
1997	11,507	4,973	6,532	175.6	2
1998	11,624	5,184	6,440	167.8	0
1999¶	12,445	6,029	6,416	165.6	0
2000	12,327	5,971	6,356	160.3	0
2001	12,422	6,003	6,419	165.3	0
2002	11,844	5,546	6,298	160.1	0
2003	11,697	5,534	6,163	156.6	0
2004	11,446	5,475	5,971	151.0	0
2005	10,543	4,914	5,629	141.8	0
2006	11,271	5,385	5,886	143.9	0
2007	10,841	5,162	5,679	135.4	0
2008	10,643	5,131	5,512	131.8	0
2009	9,474	4,693	4,780	115.5	1
2010	8,373	4,150	4,223	104.4	0
2011	7,885	3,989	3,946	99.6	0
2012	7,598	3,796	3,802	94.3	0
2013	7,485	3,722	3,763	97.0	0
2014	7,294	3,578	3,716	94.8	0
2015	6,974	3,395	3,579	91.5	0
2016	6,820	3,381	3,439	90.4	0
2017	6,826	3,376	3,450	94.6	0
2018	7,048	3,498	3,550	97.9	0
2019	6,916	3,373	3,543	100.1	0
2020	7,546	3,901	3,645	106.1	2
2021	7,849	3,912	3,937	113.5	0
2022	12,319	8,475	3,844	111.8	0
2023	19,467	15,111	4,356	128.0	0

* Includes in state occurrences to Kansas residents and out of state residents, plus Kansas resident
  out of state. Ratio per 1,000 live births.
† Abortion ratios are per 1,000 live births, and are based on Kansas residence.
‡ As of July 1, 1995, reporting became mandatory for every medical care facility
  and every person licensed to practice medicine and surgery.
¶ Numbers from 1999 on are larger than the ones reported in the preliminary reports due to induced termination
  of pregnancy reports received from other states after the Kansas reporting deadlines.

Figure D2. Ratios of Abortions to Live Births by Year
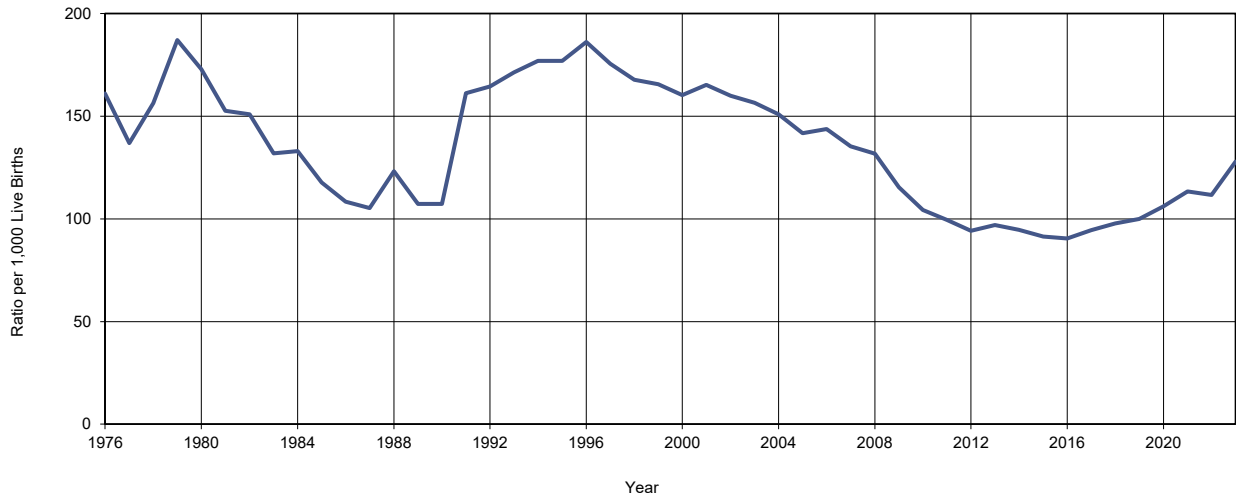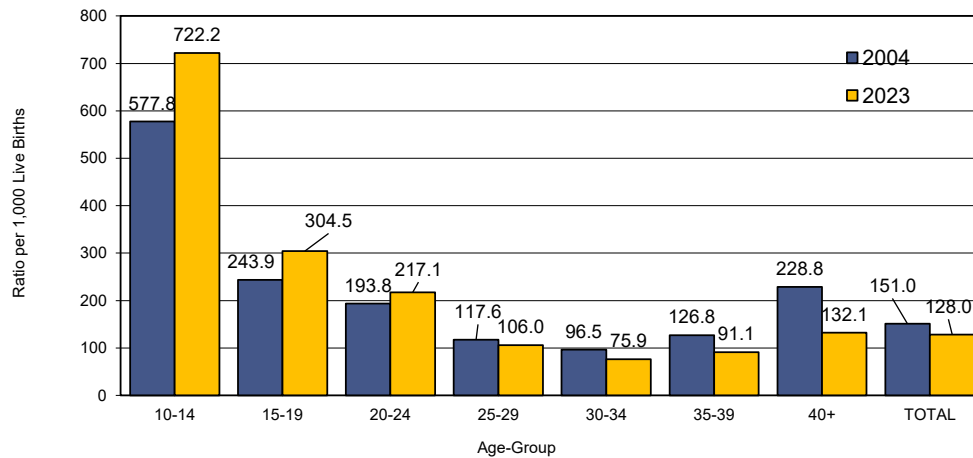## Kansas, 1976-2023

Figure D3. Ratios of Abortions to Live Births by Age-Group of Patient
Kansas, 2004 and 2023

Residence Data

Table D4
Total Reported Abortions by Selected Characteristics
by Age-Group of Patient
Kansas, 2023

| Selected Characteristics | Total* | Age-Group | | | | | | | | |
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	n.s.
Total Reported	19,467	36	1,670	6,264	5,398	3,585	1,895	569	47	3
Residency	19,467	36	1,670	6,264	5,398	3,585	1,895	569	47	3
Kansans in State	4,355	13	468	1,497	1,100	738	411	121	7	0
Kansans out-of-state	1	0	0	0	1	0	0	0	0	0
Non-residents in KS	15,111	23	1,202	4,767	4,297	2,847	1,484	448	40	3
n.s.	0		0	0	0	0	0	0	0	0
* Physician Certifications	17,909									
Population Group	19,467	36	1,670	6,264	5,398	3,585	1,895	569	47	3
White Non-Hispanic	6,344	9	545	2,002	1,713	1,142	698	221	14	0
Black Non-Hispanic	4,987	16	350	1,481	1,496	1,069	453	114	8	0
Native American Non-Hispanic	275	1	20	96	75	46	27	10	0	0
Asian/Pacific Non-Hispanic	734	0	33	157	163	164	153	57	6	1
Other Non-Hispanic[†]	937	2	97	304	282	163	73	13	3	0
Hispanic Any Race	5,909	8	615	2,150	1,589	941	451	139	14	2
n.s.	281	0	10	74	80	60	40	15	2	0
Marital Status of Patient	19,467	36	1,670	6,264	5,398	3,585	1,895	569	47	3
Married	2,666	0	23	393	664	747	618	200	20	1
Not Married	16,303	36	1,624	5,721	4,593	2,728	1,219	354	26	2
n.s.	498	0	23	150	141	110	58	15	1	0
Weeks Gestation	19,467	36	1,670	6,264	5,398	3,585	1,895	569	47	3
Under 9	13,334	12	999	4,293	3,799	2,486	1,302	402	40	1
9-12	4,394	12	451	1,415	1,154	817	422	117	4	2
13-16	1,179	8	145	380	300	196	124	24	2	0
17-21	556	4	75	174	144	85	47	26	1	0
22 & Over	0	0	0	0	0	0	0	0	0	0
n.s.	4	0	0	2	1	1	0	0	0	0
Procedure	19,467	36	1,670	6,264	5,398	3,585	1,895	569	47	3
Suction Curettage	5,797	17	513	1,702	1,537	1,164	666	185	12	1
Sharp Curettage	6	0	3	0	0	2	1	0	0	0
Dilation & Evac	600	1	75	197	157	87	61	22	0	0
Med Proc. 1[‡]	13,032	17	1,076	4,352	3,696	2,328	1,165	362	34	2
Med Proc. 2[§]	1	0	0	0	0	1	0	0	0	0
Intra-Uterine Pros. Instillation	0	0	0	0	0	0	0	0	0	0
Hysterotomy	0	0	0	0	0	0	0	0	0	0
Hysterectomy	0	0	0	0	0	0	0	0	0	0
Digoxin/Induction	27	0	3	11	7	3	2		1	0
"Partial Birth" Procedure	0	0	0	0	0	0	0	0	0	0
Other	4	1	0	2	1	0	0	0	0	0
n.s.	0	0	0	0	0	0	0	0	0	0
Previous Pregnancies	19,467	36	1,670	6,264	5,398	3,585	1,895	569	47	3
None	6,278	34	1,334	2,948	1,337	426	160	32	6	1
1	3,560	0	259	1,512	1,033	514	185	55	2	0
2	3,462	1	62	957	1,152	736	430	115	8	1
3	2,412	1	8	481	788	649	359	111	15	0
4	1,635	0	1	216	509	528	280	94	7	0
5 & Over	2,105	0	4	148	574	728	479	162	9	1
n.s.	15	0	2	2	5	4	2	0	0	0
Previous Induced Abortions	19,467	36	1,670	6,264	5,398	3,585	1,895	569	47	3
None	13,637	35	1537	4,850	3,588	2138	1121	334	32	2
1	4,040	1	120	1131	1239	935	477	127	9	1
2	1,220	0	10	222	389	335	189	71	4	0
3	360	0	2	47	104	113	67	25	2	0
4	116	0	0	4	43	37	25	7	0	0
5 & Over	85	0	0	9	32	25	14	5	0	0
n.s.	9	0	1	1	3	2	2	0	0	0

Table D4
Total Reported Abortions by Selected Characteristics
by Age-Group of Patient
Kansas, 2023

Selected Characteristics	Total*	Age-Group								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	n.s.
Number of Living Children	19,467	36	1,670	6,264	5,398	3,585	1,895	569	47	3
None	8,225	34	1,481	3,779	1,899	701	252	69	9	1
1	4,335	1	173	1,512	1,379	786	382	98	4	0
2	3,818	0	12	736	1,228	1,043	618	159	21	1
3	1,830	1	3	189	593	562	340	134	7	1
4	791	0	0	41	213	300	167	66	4	0
5 & Over	461	0	0	6	84	191	135	43	2	0
n.s.	7	0	1	1	2	2	1	0	0	0
Children Born Alive Now Dead	19,467	36	1,670	6,264	5,398	3,585	1,895	569	47	3
None	18,831	36	1,656	6,119	5,206	3,423	1801	544	43	3
1	424	0	13	116	129	101	50	14	1	0
2	126	0	0	19	42	37	19	7	2	0
3	50	0	0	8	12	12	15	2	1	0
4	15	0	0	1	4	7	2	1	0	0
5 & Over	13	0	0	0	3	2	7	1	0	0
n.s.	8	0	1	1	2	3	1	0	0	0
Spontaneous Terminations	19,467	36	1,670	6,264	5,398	3,585	1,895	569	47	3
None	15,986	36	1,614	5,555	4,388	2,672	1,302	387	30	2
1	2,643	0	47	587	765	681	438	113	11	1
2	602	0	4	96	174	164	110	49	5	0
3	135	0	2	12	42	42	25	11	1	0
4	49	0	0	8	19	9	9	4	0	0
5 & Over	43	0	1	5	7	15	10	5	0	0
n.s.	9	0	2	1	3	2	1	0	0	0
Determination of weeks Gestation	19,467	36	1,670	6,264	5,398	3,585	1,895	569	47	3
Ultrasound and Last Menstrual Period	0	0	0	0	0	0	0	0	0	0
Last Menstrual Period Calculation	508	0	34	152	152	90	63	16	1	0
Sonogram	7,349	14	684	2,445	2,051	1,257	676	209	13	0
Ultrasound	11,610	22	952	3,667	3,195	2,238	1,156	344	33	3
n.s.	0	0	0	0	0	0	0	0	0	0
Report of Physical, Mental, or Emotional Abuse or Neglect Filed	19,467	36	1,670	6,264	5,398	3,585	1,895	569	47	3
Yes	27	6	0	5	10	2	3	1	0	0
No	17,769	30	0	6,259	5,387	3,583	1,892	568	47	3
n.s.	1,671	0	1,670	0	1	0	0	0	0	0

* The number of Physician Certifications was impacted by the temporary Injunction issued in Case No. 23CV03140 (Hodes & Nauser, et al. v. Kobach, et al.) on October 30, 2023.

Not stated (n.s.) represent patients who refused to provide information.

[†] Includes selection of two or more races or other non-specified race

[‡] Refers to drug mifepristone

[§] Refers to drug methotrexate

Table D5
Kansas Resident Abortions by Selected Characteristics
by Age-Group of Patient
2023

Selected Characteristics	Total*	Age-Group								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	n.s.
All Residents	4,356	13	468	1,497	1,101	738	411	121	7	0
Population Group	4,356	13	468	1,497	1,101	738	411	121	7	0
White Non-Hispanic	1,847	8	175	605	453	317	218	68	3	0
Black Non-Hispanic	692	2	63	239	202	138	35	12	1	0
Native American Non-Hispanic	41	0	1	19	11	4	5	1	0	0
Asian/Pacific Non-Hispanic	160	0	15	43	29	34	26	12	1	0
Other Non-Hispanic[†]	204	1	24	71	61	30	14	3	0	0
Hispanic Any Race	1,292	2	187	484	310	189	97	21	2	0
n.s.	120	0	3	36	35	26	16	4	0	0
Marital Status of Patient	4,356	13	468	1,497	1,101	738	411	121	7	0
Married	624	0	2	113	151	169	147	41	1	0
Not Married	3,601	13	456	1,346	916	537	248	79	6	0
n.s.	131	0	10	38	34	32	16	1	0	0
Weeks Gestation	4,356	13	468	1,497	1,101	738	411	121	7	0
Under 9	3,017	6	270	1,033	794	535	284	89	6	0
9-12	940	5	135	329	213	150	88	20	0	0
13-16	256	1	44	86	64	33	22	5	1	0
17-21	141	1	19	47	30	20	17	7	0	0
22 & Over	0	0	0	0	0	0	0	0	0	0
n.s.	2	0	0	2	0	0	0	0	0	0
Procedure	4,356	13	468	1,497	1,101	738	411	121	7	0
Suction Curettage	1,106	7	116	334	269	212	128	37	3	0
Sharp Curettage	2	0	0	0	0	1	1	0	0	0
Dilation & Evac	182	0	29	63	42	24	19	5	0	0
Med Proc. 1[‡]	3,060	6	323	1,098	789	500	261	79	4	0
Med Proc. 2[§]	1	0	0	0	0	1	0	0	0	0
Intra-Uterine Pros. Instillation	0	0	0	0	0	0	0	0	0	0
Hysterotomy	0	0	0	0	0	0	0	0	0	0
Hysterectomy	0	0	0	0	0	0	0	0	0	0
Digoxin/Induction	3	0	0	1	0	0	2	0	0	0
"Partial Birth" Procedure	0	0	0	0	0	0	0	0	0	0
Other[¶]	2	0	0	1	1	0	0	0	0	0
n.s.	0	0	0	0	0	0	0	0	0	0
Previous Pregnancies	4,356	13	468	1,497	1,101	738	411	121	7	0
None	1,469	12	376	680	265	92	37	6	1	0
1	812	0	70	350	220	105	51	16	0	0
2	753	1	17	242	240	138	95	20	0	0
3	483	0	2	126	143	121	61	26	4	0
4	362	0	0	56	101	112	73	18	2	0
5 & Over	462	0	1	41	127	166	92	35	0	0
n.s.	15	0	2	2	5	4	2	0	0	0

Table D5
Kansas Resident Abortions by Selected Characteristics
by Age-Group of Patient
2023

Selected Characteristics	Total*	Age-Group								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	n.s.
Previous Induced Abortions	4,356	13	468	1,497	1,101	738	411	121	7	0
None	3,074	12	431	1,167	730	416	240	75	3	0
1	875	1	34	267	238	203	102	26	4	0
2	268	0	2	46	89	77	43	11	0	0
3	81	0	0	11	25	22	18	5	0	0
4	26	0	0	2	8	10	4	2	0	0
5 & Over	23	0	0	3	8	8	2	2	0	0
n.s.	9	0	1	1	3	2	2	0	0	0
Number of Living Children	4,356	13	468	1,497	1,101	738	411	121	7	0
None	1,913	12	411	858	390	162	61	18	1	0
1	1,000	1	53	386	288	158	90	23	1	0
2	778	0	2	184	242	191	127	27	5	0
3	382	0	1	54	112	115	73	27	0	0
4	171	0	0	12	50	60	33	16	0	0
5 & Over	105	0	0	2	17	50	26	10	0	0
n.s.	7	0	1	1	2	2	1	0	0	0
Children Born Alive Now Dead	4,356	13	468	1,497	1,101	738	411	121	7	0
None	4,203	13	465	1,459	1,061	696	389	113	7	0
1	92	0	2	29	18	28	11	4	0	0
2	34	0	0	5	15	9	2	3	0	0
3	15	0	0	2	4	1	7	1	0	0
4	2	0	0	1	1	0	0	0	0	0
5 & Over	2	0	0	0	0	1	1	0	0	0
n.s.	8	0	1	1	2	3	1	0	0	0
Spontaneous Terminations	4,356	13	468	1,497	1,101	738	411	121	7	0
None	3,588	13	454	1,313	891	548	293	73	3	0
1	558	0	10	148	153	133	79	32	3	0
2	139	0	1	26	37	39	25	10	1	0
3	35	0	1	2	10	10	9	3	0	0
4	13	0	0	3	4	2	2	2	0	0
5 & Over	14	0	0	4	3	4	2	1	0	0
n.s.	9	0	2	1	3	2	1	0	0	0

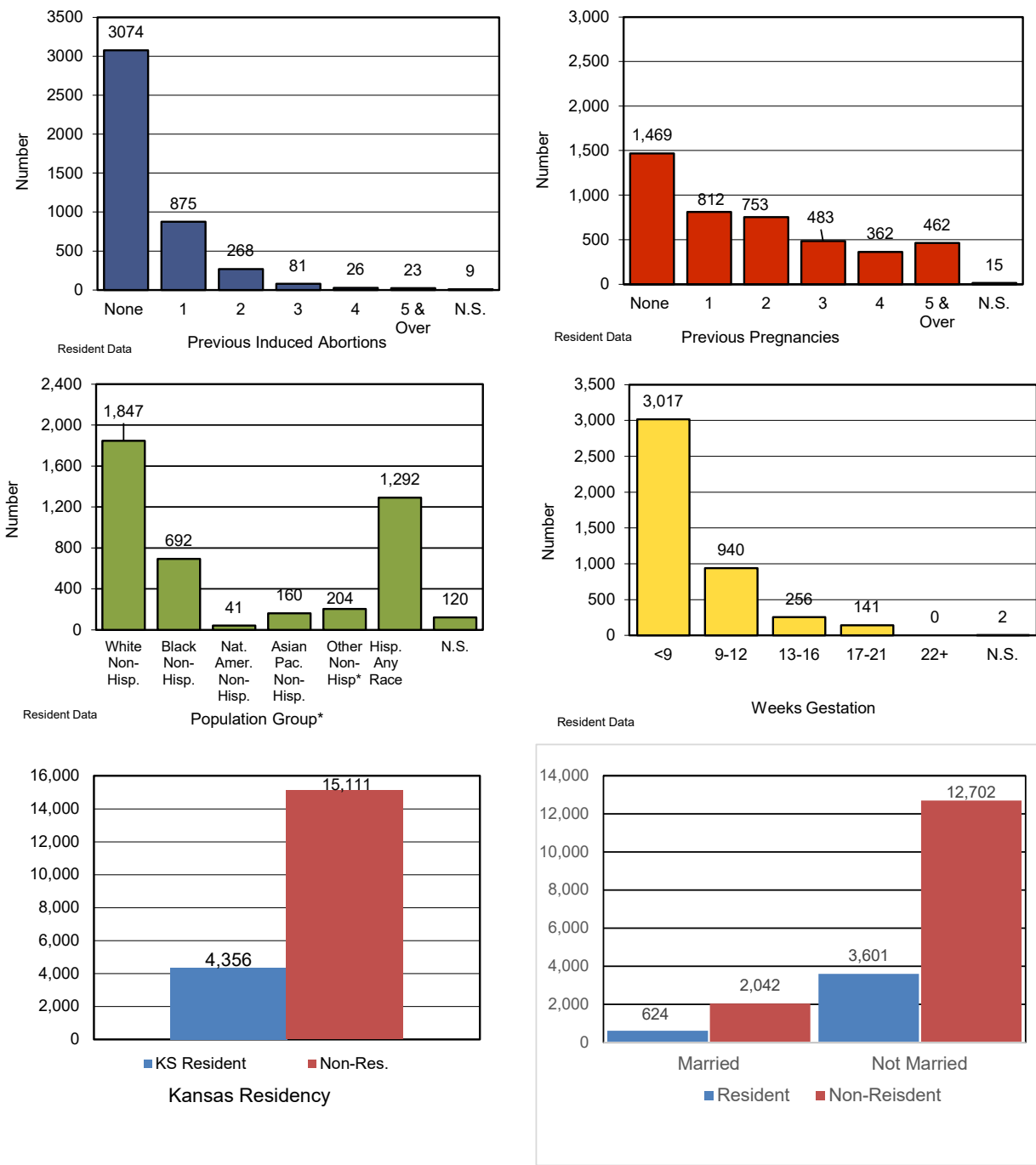*Total number of Kansas resident abortions in 2023.

Not stated (n.s.) represent patients who refused to provide information or information not collected by other states.

[†] Includes selection of two or more races or other non-specified race.

[‡] Refers to drug mifepristone

[§] Refers to drug methotrexate

Figure D4. Reported Abortions
By Selected Characteristics
Kansas, 2023

Resident Data — Previous Induced Abortions

None 3074; 1 875; 2 268; 3 81; 4 26; 5 & Over 23; N.S. 9

Resident Data — Previous Pregnancies

None 1,469; 1 812; 2 753; 3 483; 4 362; 5 & Over 462; N.S. 15

Resident Data — Population Group*

White Non-Hisp. 1,847; Black Non-Hisp. 692; Nat. Amer. Non-Hisp. 41; Asian Pac. Non-Hisp. 160; Other Non-Hisp* 204; Hisp. Any Race 1,292; N.S. 120

Resident Data — Weeks Gestation

<9 3,017; 9-12 940; 13-16 256; 17-21 141; 22+ 0; N.S. 2

Kansas Residency — KS Resident 4,356; Non-Res. 15,111

Married: Resident 624; Non-Resident 2,042
Not Married: Resident 3,601; Non-Resident 12,702

*Includes two or more races or other non-spec. race

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Table D6
Total Reported Abortions by Population Group
by Marital Status
Kansas, 2023

Population Group	Total		Marital Status				
			Married		Unmarried		
	Number	Percent	Number	Percent	Number	Percent	n.s.[†]
Total	19,467	100	2,666	14.1	16,303	85.9	498
White Non-Hispanic	6,344	100	1,009	16.2	5,221	83.8	114
Black Non-Hispanic	4,987	100	344	7.0	4,580	93.0	63
Native American Non-Hispanic	275	100	36	13.2	237	86.8	2
Asian/Pacific Non-Hispanic	734	100	348	48.3	372	51.7	14
Other Non-Hispanic*	937	100	134	14.5	792	85.5	11
Hispanic Any Race	5,909	100	751	13.3	4,903	86.7	255
n.s[†]	281	100	44	18.2	198	81.8	39

* Includes selection of two or more races or other non-specified race

[†] The not stated (n.s.) represent patients who refused to provide information or information
not collected by other states.

Table D7
Total Reported Abortions by Population Group
by Weeks Gestation
Kansas, 2023

Population Group	Total		Weeks Gestation											
			Under 9		9-12		13-16		17-21		22 & Over		
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	n.s.[†]
Total	19,467	100.0	13,334	100.0	4,394	100.0	1,179	100.0	556	100.0	0	0.0	4
White Non-Hispanic	6,344	32.6	4,531	34.0	1,300	29.6	343	29.1	169	30.4	0	0.0	1
Black Non-Hispanic	4,987	25.6	3,145	23.6	1,327	30.2	334	28.3	181	32.6	0	0.0	0
Native American Non-Hispanic	275	1.4	186	1.4	56	1.3	25	2.1	8	1.4	0	0.0	0
Asian/Pacific Non-Hispanic	734	3.8	545	4.1	116	2.6	48	4.1	24	4.3	0	0.0	1
Other Non-Hispanic*	937	4.8	619	4.6	224	5.1	66	5.6	28	5.0	0	0.0	0
Hispanic Any Race	5,909	30.4	4,067	30.5	1,340	30.5	357	30.3	143	25.7	0	0.0	2
n.s.[†]	281	1.4	241	1.8	31	0.7	6	0.5	3	0.5	0	0.0	0

* Includes selection of two or more races or other non-specified race

[†] The not stated (n.s.) represent patients who refused to provide information or information
not collected by other states.

[‡] n/a not applicable

Figure D5. Total Reported Abortions: Percent
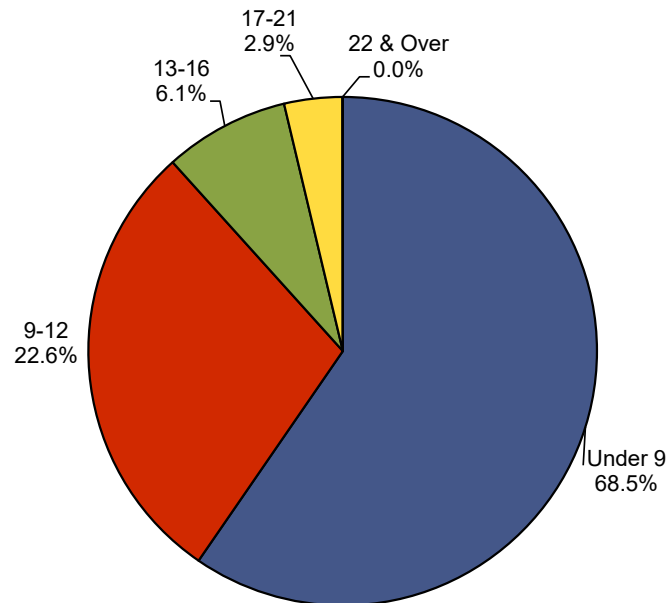Distribution by Weeks Gestation
Kansas, 2023

Table D8
Total Reported Abortions by Termination Procedure
by Weeks Gestation
Kansas, 2023

Termination Procedure	Total	Weeks Gestation					
		Under 9	9-12	13-16	17-21	22 & Over	n.s.*
Total	19,467	13,334	4,394	1,179	556	0	4
Suction Curettage	5797	2724	1964	810	299	0	0
Sharp Curettage	6	2	2	2	0	0	0
Dilation & Evacuation	600	6	14	357	223	0	0
Medical Procedure I†	13032	10600	2414	8	6	0	4
Medical Procedure II‡	1	1	0	0	0	0	0
Intra-Uterine Prostaglandin Instillation	0	0	0	0	0	0	0
Hysterotomy	0	0	0	0	0	0	0
Hysterectomy	0	0	0	0	0	0	0
Digoxin/Induction	27	0	0	0	27	0	0
"Partial Birth" Procedure	0	0	0	0	0	0	0
Other¶	4	1	0	2	1	0	0
n.s.	0	0	0	0	0	0	0

* The not stated (n.s.) represent patients who refused to provide information or information
   not collected by other states.

† Refers to drug mifepristone

‡ Refers to drug methotrexate

¶ Other procedures included: Suction Aspiration, Medical Pill, Dilation and Curettage and Cytotec

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Table   D9(A)
Abortions by County of Residence and Peer Group*
by Age-Group of Patient
Kansas, 2023

County of Residence	Total	Age-Group							45 & Over	n.s.
		10-14	15-19	20-24	25-29	30-34	35-39	40-44		
Kansas	4,356	13	468	1,497	1,101	738	411	121	7	0
Allen	9	0	3	4	0	1	1	0	0	0
Anderson	3	0	1	1	0	1	0	0	0	0
Atchison	17	0	3	3	8	1	1	0	1	0
Barber	1	0	0	1	0	0	0	0	0	0
Barton	20	0	0	9	3	3	4	1	0	0
Bourbon	8	0	0	6	0	0	1	1	0	0
Brown	4	0	0	1	2	1	0	0	0	0
Butler	69	0	5	20	23	10	8	3	0	0
Chase	1	0	0	0	1	0	0	0	0	0
Chautauqua	3	0	2	0	0	1	0	0	0	0
Cherokee	18	0	2	4	3	4	3	2	0	0
Cheyenne	0	0	0	0	0	0	0	0	0	0
Clark	1	0	0	0	0	1	0	0	0	0
Clay	3	0	1	1	1	0	0	0	0	0
Cloud	7	0	3	4	0	0	0	0	0	0
Coffey	3	0	1	0	1	0	1	0	0	0
Comanche	1	0	0	1	0	0	0	0	0	0
Cowley	33	0	3	13	9	7	1	0	0	0
Crawford	32	0	3	11	3	7	4	3	1	0
Decatur	0	0	0	0	0	0	0	0	0	0
Dickinson	9	0	2	2	3	1	1	0	0	0
Doniphan	12	0	2	3	3	2	0	2	0	0
Douglas	181	0	18	69	39	31	18	6	0	0
Edwards	0	0	0	0	0	0	0	0	0	0
Elk	1	0	0	1	0	0	0	0	0	0
Ellis	26	1	0	14	6	4	0	1	0	0
Ellsworth	2	0	1	0	1	0	0	0	0	0
Finney	45	1	5	9	15	8	4	3	0	0
Ford	49	0	8	20	9	8	3	1	0	0
Franklin	25	0	2	9	6	6	1	1	0	0
Geary	89	0	5	40	28	13	1	2	0	0
Gove	0	0	0	0	0	0	0	0	0	0
Graham	0	0	0	0	0	0	0	0	0	0
Grant	0	0	0	0	0	0	0	0	0	0
Gray	3	0	0	2	1	0	0	0	0	0
Greeley	0	0	0	0	0	0	0	0	0	0
Greenwood	2	0	2	0	0	0	0	0	0	0
Hamilton	2	0	0	0	0	2	0	0	0	0
Harper	5	0	2	1	1	1	0	0	0	0
Harvey	26	0	2	12	2	8	2	0	0	0
Haskell	4	0	0	1	1	1	1	0	0	0
Hodgeman	0	0	0	0	0	0	0	0	0	0
Jackson	13	0	1	3	2	6	1	0	0	0
Jefferson	12	0	1	5	4	1	1	0	0	0
Jewell	1	0	1	0	0	0	0	0	0	0
Johnson	957	4	70	248	265	191	134	43	2	0
Kearny	3	0	0	0	3	0	0	0	0	0
Kingman	2	0	0	0	1	1	0	0	0	0
Kiowa	0	0	0	0	0	0	0	0	0	0
Labette	15	0	3	3	6	2	1	0	0	0
Lane	0	0	0	0	0	0	0	0	0	0
Leavenworth	100	0	13	34	20	22	11	0	0	0
Lincoln	2	0	0	0	1	0	1	0	0	0
Linn	10	0	5	1	1	2	1	0	0	0
Logan	0	0	0	0	0	0	0	0	0	0

Table   D9(A)
Abortions by County of Residence and Peer Group*
by Age-Group of Patient
Kansas, 2023

County of Residence	Total	Age-Group								
		10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	n.s.
Lyon	46	0	7	22	7	6	3	1	0	0
Mcpherson	25	1	3	16	4	0	1	0	0	0
Marion	7	0	1	4	1	0	1	0	0	0
Marshall	6	0	0	1	1	4	0	0	0	0
Meade	5	0	1	2	2	0	0	0	0	0
Miami	26	0	3	10	8	2	2	1	0	0
Mitchell	4	0	1	2	1	0	0	0	0	0
Montgomery	36	0	4	14	5	9	2	2	0	0
Morris	2	0	0	1	0	1	0	0	0	0
Morton	1	0	0	0	0	1	0	0	0	0
Nemaha	2	0	1	0	1	0	0	0	0	0
Neosho	17	0	3	6	3	2	3	0	0	0
Ness	3	0	0	2	0	1	0	0	0	0
Norton	1	0	0	1	0	0	0	0	0	0
Osage	10	1	0	4	1	2	2	0	0	0
Osborne	1	0	0	0	0	1	0	0	0	0
Ottawa	2	0	0	0	1	1	0	0	0	0
Pawnee	1	0	0	1	0	0	0	0	0	0
Phillips	2	0	1	0	0	0	1	0	0	0
Pottawatomie	10	0	0	4	2	2	1	1	0	0
Pratt	5	0	1	0	0	2	1	1	0	0
Rawlins	0	0	0	0	0	0	0	0	0	0
Reno	56	0	12	24	11	4	3	2	0	0
Republic	0	0	0	0	0	0	0	0	0	0
Rice	4	0	1	1	2	0	0	0	0	0
Riley	96	0	13	40	23	8	12	0	0	0
Rooks	3	0	0	0	0	1	2	0	0	0
Rush	2	0	0	0	0	1	0	1	0	0
Russell	10	0	2	2	1	3	2	0	0	0
Saline	56	0	10	23	12	7	3	1	0	0
Scott	2	0	1	0	1	0	0	0	0	0
Sedgwick	1,114	4	133	405	288	181	79	22	2	0
Seward	32	0	2	18	8	2	1	1	0	0
Shawnee	283	0	30	107	70	40	31	5	0	0
Sheridan	0	0	0	0	0	0	0	0	0	0
Sherman	1	0	1	0	0	0	0	0	0	0
Smith	1	0	0	0	0	0	1	0	0	0
Stafford	3	0	0	1	0	1	1	0	0	0
Stanton	1	0	0	0	0	1	0	0	0	0
Stevens	1	0	1	0	0	0	0	0	0	0
Sumner	12	0	3	3	4	0	2	0	0	0
Thomas	4	0	0	4	0	0	0	0	0	0
Trego	0	0	0	0	0	0	0	0	0	0
Wabaunsee	3	0	1	0	1	1	0	0	0	0
Wallace	0	0	0	0	0	0	0	0	0	0
Washington	3	0	0	0	0	2	0	1	0	0
Wichita	9	0	1	4	1	1	2	0	0	0
Wilson	4	0	1	0	2	1	0	0	0	0
Woodson	2	0	0	2	0	0	0	0	0	0
Wyandotte	514	1	53	179	140	87	41	12	1	0
n.s.†	99	0	7	38	28	16	9	1	0	0
Peer Group										
Frontier	48	0	8	12	8	12	7	1	0	0
Rural	130	1	29	46	25	18	9	2	0	0
Densely -Settled Rural	419	3	48	156	97	66	34	14	1	0
Semi-Urban	511	0	59	203	121	74	38	15	1	0
Urban	3,149	9	317	1,042	822	552	314	88	5	0

* See Technical Notes for Peer Group definition.

† County information not collected by other states.

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Table D9(B)
Induced Abortions in Kansas by State of Residence
Under 18 Years of Age and Kansas, 2023

State	Under 18	Total	State	Under 18	Total
Kansas Residents	122	4,356			
Out-of-state residents	254	15,111			
Alabama	0	7	New Mexico	0	0
Alaska	0	0	New York	0	5
Arizona	0	9	North Carolina	0	2
Arkansas	18	728	North Dakota	0	0
California	0	13	Ohio	0	1
Colorado	0	3	Oklahoma	64	3,283
Connecticut	0	1	Oregon	0	1
Delaware	0	1	Pennsylvania	0	1
District of Columbia	0	0	Rhode Island	0	2
Florida	0	9	South Carolina	0	2
Georgia	0	10	South Dakota	0	1
Hawaii	0	1	Tennessee	1	9
Idaho	0	0	Texas	101	7,606
Illinois	0	2	Utah	0	1
Indiana	0	3	Vermont	0	0
Iowa	0	13	Virgin Islands	0	0
Kansas	122	4,356	Virginia	0	3
Kentucky	0	2	Washington	0	0
Louisiana	4	208	West Virginia	0	0
Maine	0	0	Wisconsin	0	0
Maryland	0	1	Wyoming	0	0
Massachusetts	0	1	Puerto Rico	0	0
Michigan	0	3	Out of Country	0	2
Minnesota	0	2	N.S.*	0	46
Mississippi	0	12			
Missouri	65	3,045			
Montana	0	0			
Nebraska	1	69			
Nevada	0	2			
New Hampshire	0	0			
New Jersey	0	1			

* Not Stated

Table D10
Perinatal Period III Deaths by Component
Kansas, 2004-2023

| Year | Stillbirths | Hebdomadal Deaths | Perinatal Period III Deaths | |
			Number	Rate*
2004	186	144	330	8.3
2005	194	153	347	8.7
2006	192	137	329	8.0
2007	186	163	349	8.3
2008	182	160	342	8.1
2009	213	144	357	8.6
2010	168	143	311	7.7
2011	188	121	309	7.8
2012	195	142	337	8.3
2013	173	140	313	8.0
2014	199	138	337	8.6
2015	233	132	365	9.3
2016	252	119	371	9.7
2017	184	128	312	8.5
2018	196	136	332	9.1
2019	192	101	293	8.2
2020	169	116	285	8.3
2021	194	87	281	8.1
2022	203	108	311	9.0
2023	186	92	278	8.2

*Rate per 1,000 live births + stillbirths

Table D11
Perinatal Period III Deaths by County of Residence
by Component
Kansas, 2023

County of Residence	Perinatal Period III Deaths			County of Residence	Perinatal Period III Deaths		
	Total	Stillbirths	Hebdomadal Deaths		Total	Stillbirths	Hebdomadal Deaths
Kansas	278	186	92				
Allen	1	1	0	Lyon	4	2	2
Anderson	0	0	0	McPherson	3	1	2
Atchison	2	2	0	Marion	1	0	1
Barber	0	0	0	Marshall	1	1	0
Barton	3	1	2	Meade	1	1	0
Bourbon	3	2	1	Miami	2	2	0
Brown	1	0	1	Mitchell	2	2	0
Butler	6	3	3	Montgomery	2	2	0
Chase	0	0	0	Morris	1	1	0
Chautauqua	1	0	1	Morton	1	1	0
Cherokee	4	4	0	Nemaha	0	0	0
Cheyenne	0	0	0	Neosho	1	1	0
Clark	0	0	0	Ness	1	0	1
Clay	3	1	2	Norton	0	0	0
Cloud	1	0	1	Osage	1	1	0
Coffey	0	0	0	Osborne	0	0	0
Comanche	2	1	1	Ottawa	0	0	0
Cowley	2	2	0	Pawnee	0	0	0
Crawford	4	4	0	Phillips	2	2	0
Decatur	0	0	0	Pottawatomie	1	1	0
Dickinson	0	0	0	Pratt	0	0	0
Doniphan	2	0	2	Rawlins	0	0	0
Douglas	8	4	4	Reno	3	1	2
Edwards	0	0	0	Republic	1	1	0
Elk	0	0	0	Rice	1	1	0
Ellis	2	2	0	Riley	5	4	1
Ellsworth	0	0	0	Rooks	0	0	0
Finney	2	0	2	Rush	0	0	0
Ford	6	4	2	Russell	0	0	0
Franklin	2	2	0	Saline	5	2	3
Geary	11	6	5	Scott	0	0	0
Gove	1	1	0	Sedgwick	57	42	15
Graham	0	0	0	Seward	3	2	1
Grant	2	2	0	Shawnee	13	7	6
Gray	2	0	2	Sheridan	0	0	0
Greeley	0	0	0	Sherman	0	0	0
Greenwood	1	1	0	Smith	0	0	0
Hamilton	0	0	0	Stafford	0	0	0
Harper	0	0	0	Stanton	1	1	0
Harvey	1	0	1	Stevens	0	0	0
Haskell	0	0	0	Sumner	1	0	1
Hodgeman	0	0	0	Thomas	0	0	0
Jackson	0	0	0	Trego	0	0	0
Jefferson	3	3	0	Wabaunsee	2	2	0
Jewell	1	1	0	Wallace	0	0	0
Johnson	43	31	12	Washington	1	1	0
Kearny	1	1	0	Wichita	0	0	0
Kingman	2	2	0	Wilson	0	0	0
Kiowa	0	0	0	Woodson	0	0	0
Labette	3	2	1	Wyandotte	23	11	12
Lane	0	0	0	n.s.	0	0	0
Leavenworth	10	8	2				
Lincoln	0	0	0				
Linn	2	2	0				
Logan	0	0	0				

Table D12
Infant Mortality Rates*
by Population Group
Kansas, 2004-2023

Year	White Non-Hispanic[†]			Black Non-Hispanic[†]			Hispanic Any Race			Total Infant Death Rate: All Races[‡]
	Live Births	Infant Deaths	Rate	Live Births	Infant Deaths	Rate	Live Births	Infant Deaths	Rate	
2004	29,624	200	6.8	2,782	46	16.5	5,458	28	5.1	7.2
2005	28,903	181	6.3	2,670	45	16.9	6,073	52	8.6	7.5
2006	29,392	181	6.2	2,801	49	17.5	6,568	41	6.2	7.2
2007	30,170	205	6.8	2,856	56	19.6	6,676	56	8.4	7.9
2008	29,863	184	6.2	2,936	39	13.3	6,781	57	8.4	7.2
2009	29,471	178	6.0	2,830	44	15.5	6,790	40	5.9	7.0
2010	29,000	142	4.9	2,780	33	11.9	6,407	50	7.8	6.3
2011	28,382	150	5.3	2,708	35	12.9	6,293	42	6.7	6.2
2012	28,995	145	5.0	2,682	38	14.2	6,286	54	8.6	6.3
2013	27,821	137	4.9	2,549	39	15.3	6,139	44	7.2	6.4
2014	28,009	146	5.2	2,629	29	11.0	6,129	40	6.5	6.3
2015	27,717	130	4.7	2,585	27	10.4	6,290	48	7.6	5.9
2016	26,786	139	5.2	2,494	38	15.2	6,300	32	5.1	5.9
2017	25,431	120	4.7	2,463	29	11.8	5,945	43	7.2	6.0
2018	25,196	122	4.8	2,499	25	10.0	5,976	54	9.0	6.4
2019	24,400	101	4.1	2,419	26	10.7	6,069	39	6.4	5.3
2020	23,517	115	4.9	2,369	40	16.9	5,965	42	7.0	6.5
2021	23,965	107	4.5	2,280	31	13.6	6,114	32	5.2	5.3
2022	23,569	111	4.7	2,191	20	9.1	6,295	50	7.9	5.8
2023	22,953	94	4.1	2,174	23	10.6	6564	37	5.6	5.3

*Rate per 1,000 live births

[†]Due to changes in the collection of the race item on certificates, use caution
 when comparing 2005-2022 data to prior years. See Technical Notes.
[‡]Other non-Hispanic data is not given a separate column in this table due to the
 small numbers but is included in the total, and is available upon request.

Figure D6. Infant Mortality Rates
by Population Group
Kansas, Five Year Rolling Averages, 1999-2023
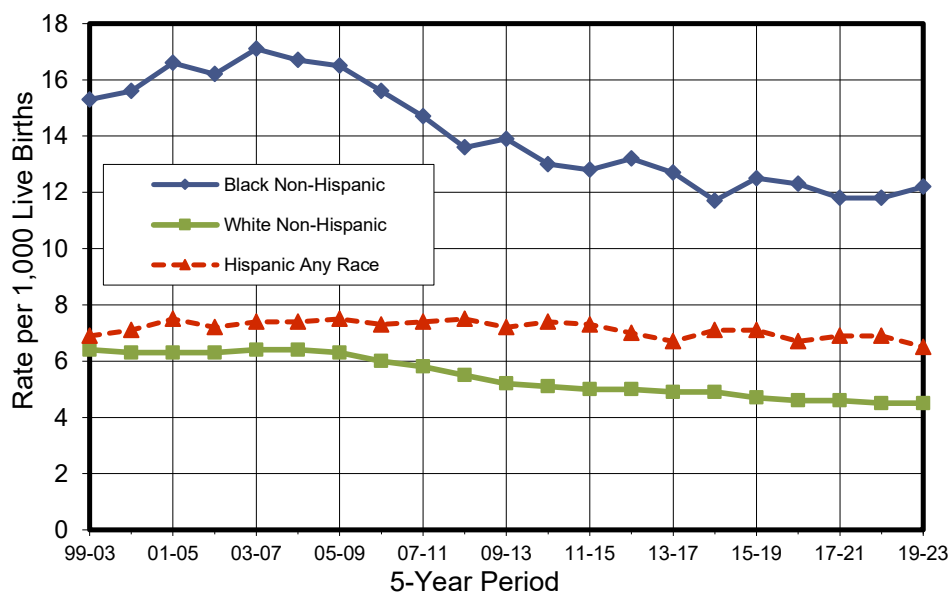
Table D13
Infant Deaths by Cause of Death by Age-Group of Infant
Kansas, 2023

Cause of Death [*]	Age-Group of Infant						
	Under 1 Day	1-6 Days	Under 7 Days [†]	7-27 Days	Under 28 Days [‡]	28-364 Days	Under 1 Year
All Causes	77	15	92	27	119	63	182
Infectious and Parasitic Diseases	0	0	0	0	0	10	10
Other Diseases and Disorders	0	2	2	3	5	4	9
Certain Conditions Originating in the Perinatal Period	64	10	74	12	86	4	90
-Maternal Factors and Compl. Of Pregnancy, Labor and Delivery	19	0	19	1	20	0	20
-Disorders Relating to Short Gestation and Low Birth Weight	21	0	21	0	21	0	21
-Birth Trauma	1	0	1	0	1	0	1
-Hypoxia and Birth Asphyxia	3	3	6	1	7	0	7
-Respiratory Distress of Newborn	2	0	2	0	2	0	2
-Other Respiratory Conditions of Newborn	5	4	9	0	9	3	12
-Bacterial Sepsis of Newborn	3	1	4	2	6	0	6
-Hemorrhagic and Hematolog. Disorders of Fetus and Newborn	1	1	2	2	4	0	4
-Other Perinatal Conditions	9	1	10	6	16	1	17
Congenital Anomalies	13	2	15	8	23	5	28
Symptoms and Abnormal Findings	0	0	0	1	1	20	21
-Sudden Infant Death Syndrome	0	0	0	0	0	6	6
-Other	0	0	0	1	1	14	15
External Causes of Mortality	0	1	1	3	4	20	24

[*] The ICD-10 codes associated with each category are listed in Appendix 5.

[†] Hebdomadal Deaths

[‡] Neonatal Deaths

Figure D7. Infant Deaths for Three Age Groups
Kansas, 2004-2023
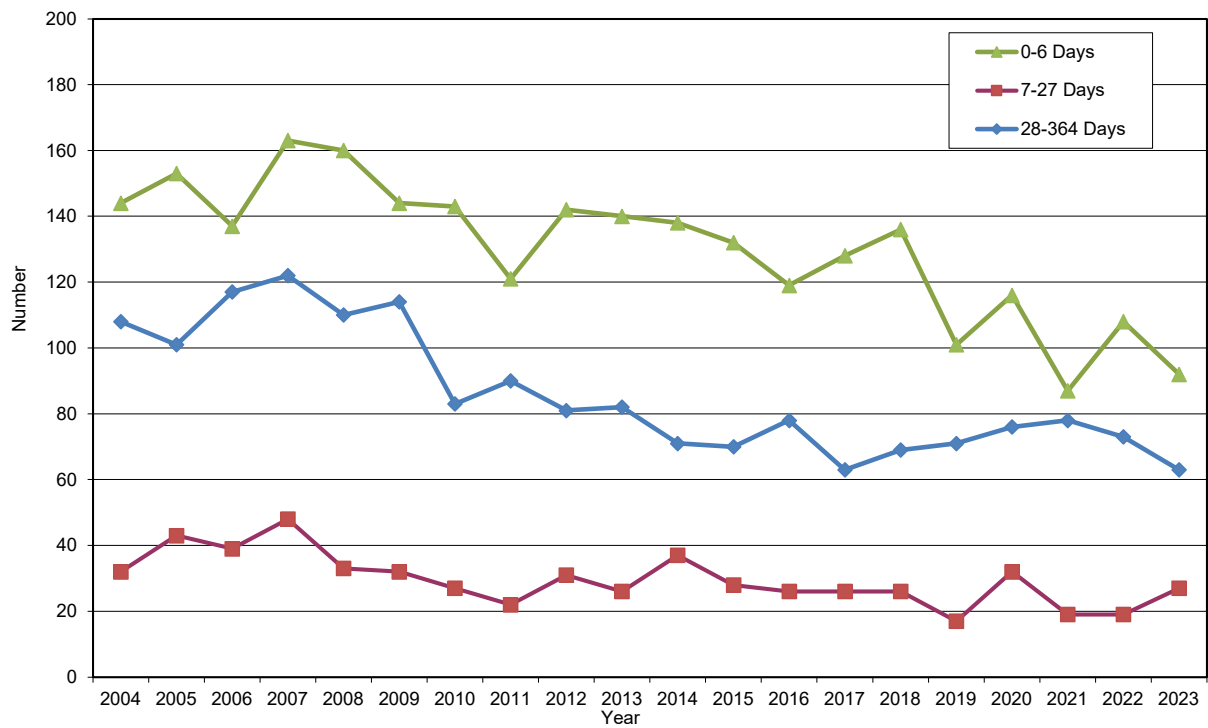
Figure D8. Maternal Deaths*
Kansas, 2019-2023
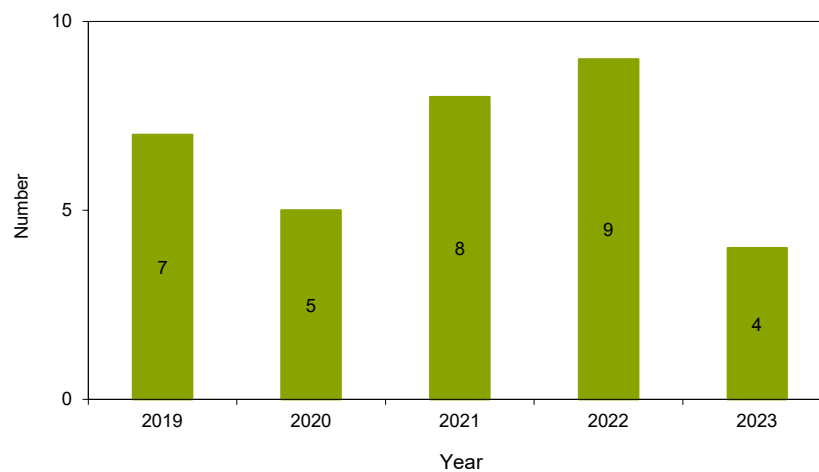
*See Technical Notes for Maternal Mortality definitions

Table D14
Infant Deaths by County of Residence and Peer Group*
by Year of Death
Kansas, 2019-2023

County of Residence	Year					Total Infant Deaths 2019-2023	Infant Death Rate[†] 2019-2023
	2019	2020	2021	2022	2023		
Kansas	189	224	184	200	182	979	5.7
Allen	1	0	0	1	1	3	4.6
Anderson	0	1	0	0	1	2	4.2
Atchison	2	1	1	2	0	6	6.9
Barber	0	0	0	0	0	0	0.0
Barton	1	3	3	1	6	14	9.2
Bourbon	2	3	0	1	1	7	7.2
Brown	0	0	0	0	2	2	3.8
Butler	2	4	3	2	5	16	4.6
Chase	0	0	0	1	0	1	8.3
Chautauqua	0	0	1	0	1	2	12.9
Cherokee	1	3	3	3	1	11	10.7
Cheyenne	0	0	0	0	1	1	5.9
Clark	0	0	0	0	0	0	0.0
Clay	0	0	0	0	2	2	4.9
Cloud	1	0	3	0	2	6	11.7
Coffey	0	0	0	0	0	0	0.0
Comanche	0	0	0	0	1	1	11.8
Cowley	2	1	3	4	1	11	5.5
Crawford	3	4	3	4	0	14	6.3
Decatur	0	0	0	0	0	0	0.0
Dickinson	2	1	4	3	0	10	10.5
Doniphan	1	0	0	0	3	4	11.4
Douglas	3	6	3	2	7	21	4.1
Edwards	0	0	0	0	0	0	0.0
Elk	0	0	1	0	0	1	10.3
Ellis	1	2	0	1	0	4	2.7
Ellsworth	1	0	0	0	0	1	3.5
Finney	5	2	3	2	3	15	5.4
Ford	3	3	4	4	2	16	5.5
Franklin	2	2	3	1	1	9	6.4
Geary	3	7	6	4	7	27	5.8
Gove	0	0	0	0	0	0	0.0
Graham	0	0	1	0	0	1	8.3
Grant	1	0	1	1	0	3	6.0
Gray	1	1	0	1	2	5	11.6
Greeley	0	1	0	1	0	2	23.3
Greenwood	2	0	0	1	0	3	11.6
Hamilton	0	0	0	0	0	0	0.0
Harper	0	0	0	0	0	0	0.0
Harvey	3	2	4	2	3	14	7.7
Haskell	0	0	0	1	1	2	7.3
Hodgeman	0	1	0	0	0	1	12.5
Jackson	0	2	1	2	0	5	6.1
Jefferson	0	0	2	0	0	2	2.4
Jewell	0	0	1	0	0	1	6.9
Johnson	31	30	25	24	27	137	4.0
Kearny	0	0	0	0	1	1	3.3
Kingman	0	0	1	0	1	2	5.5
Kiowa	0	0	0	0	0	0	0.0
Labette	0	2	0	2	2	6	4.9
Lane	0	0	0	0	0	0	0.0
Leavenworth	7	4	4	6	5	26	5.8
Lincoln	0	1	0	0	0	1	7.3
Linn	0	1	1	0	2	4	8.0
Logan	0	0	0	0	0	0	0.0

Table D14
Infant Deaths by County of Residence and Peer Group*
by Year of Death
Kansas, 2019-2023

Lyon	2	1	2	1	3	9	5.1
McPherson	0	0	0	2	3	5	3.3
Marion	3	1	0	0	1	5	8.3
Marshall	0	1	0	0	0	1	1.9
Meade	0	2	0	1	0	3	11.4
Miami	2	2	1	1	1	7	3.9
Mitchell	0	0	0	0	0	0	0.0
Montgomery	2	2	3	2	0	9	5.4
Morris	0	0	0	1	0	1	4.4
Morton	0	0	0	0	0	0	0.0
Nemaha	1	0	0	0	0	1	1.5
Neosho	2	3	1	1	2	9	9.3
Ness	0	0	0	1	1	2	13.3
Norton	0	0	0	0	0	0	0.0
Osage	0	0	2	0	0	2	2.6
Osborne	0	0	0	1	0	1	5.0
Ottawa	2	2	1	1	0	6	21.1
Pawnee	0	0	0	0	0	0	0.0
Phillips	0	0	2	0	0	2	8.0
Pottawatomie	1	6	3	4	0	14	7.7
Pratt	1	0	1	1	0	3	5.8
Rawlins	0	0	0	0	0	0	0.0
Reno	2	4	1	8	5	20	6.2
Republic	2	0	0	0	0	2	8.5
Rice	0	1	0	2	0	3	5.8
Riley	4	3	4	0	1	12	3.3
Rooks	0	1	0	0	0	1	4.2
Rush	0	0	0	1	0	1	7.4
Russell	0	0	0	0	0	0	0.0
Saline	2	2	2	10	3	19	6.1
Scott	0	0	1	0	0	1	2.8
Sedgwick	36	52	45	39	36	208	6.3
Seward	3	2	2	0	3	10	5.3
Shawnee	12	21	13	18	12	76	7.7
Sheridan	0	0	0	1	0	1	7.0
Sherman	0	2	0	1	0	3	8.8
Smith	0	0	0	0	0	0	0.0
Stafford	1	0	0	0	0	1	4.0
Stanton	0	0	0	0	0	0	0.0
Stevens	1	0	1	2	0	4	12.6
Sumner	4	4	0	4	1	13	10.5
Thomas	1	2	0	2	0	5	9.1
Trego	0	0	0	0	0	0	0.0
Wabaunsee	2	0	0	1	0	3	8.0
Wallace	1	0	0	0	0	1	9.6
Washington	0	1	0	1	0	2	5.7
Wichita	0	1	0	0	0	1	6.0
Wilson	1	0	0	1	1	3	7.0
Woodson	0	0	0	2	0	2	13.9
Wyandotte	20	20	14	13	17	84	6.9
Peer Group							
Frontier	4	9	6	9	5	33	5.5
Rural	18	11	10	21	16	76	5.8
Densely -Settled Rural	33	39	34	34	31	171	6.2
Semi-Urban	25	32	30	34	26	147	5.5
Urban	109	133	104	102	104	552	5.6

* See Technical Notes for Peer Group definition.
† Rate per 1,000 live births.
Numerator and denominator for 5-year rate based on peer group assignment of counties for the event year.

Table D15
Infant Deaths by County of Residence and Peer Group*
by Component, Kansas, 2023

County of Residence	Hebdomadal Deaths Under 7 Days	Post-Hebdomadal Deaths 7-27 Days	Neonatal Deaths Under 28 Days	Post-Neonatal Deaths 28-364 Days	Total Infant Deaths Under 1 Year
Kansas	92	27	119	63	182
Allen	0	1	1	0	1
Anderson	0	0	0	1	1
Atchison	0	0	0	0	0
Barber	0	0	0	0	0
Barton	2	0	2	4	6
Bourbon	1	0	1	0	1
Brown	1	0	1	1	2
Butler	3	0	3	2	5
Chase	0	0	0	0	0
Chautauqua	1	0	1	0	1
Cherokee	0	0	0	1	1
Cheyenne	0	1	1	0	1
Clark	0	0	0	0	0
Clay	2	0	2	0	2
Cloud	1	0	1	1	2
Coffey	0	0	0	0	0
Comanche	1	0	1	0	1
Cowley	0	1	1	0	1
Crawford	0	0	0	0	0
Decatur	0	0	0	0	0
Dickinson	0	0	0	0	0
Doniphan	2	1	3	0	3
Douglas	4	1	5	2	7
Edwards	0	0	0	0	0
Elk	0	0	0	0	0
Ellis	0	0	0	0	0
Ellsworth	0	0	0	0	0
Finney	2	0	2	1	3
Ford	2	0	2	0	2
Franklin	0	0	0	1	1
Geary	5	1	6	1	7
Gove	0	0	0	0	0
Graham	0	0	0	0	0
Grant	0	0	0	0	0
Gray	2	0	2	0	2
Greeley	0	0	0	0	0
Greenwood	0	0	0	0	0
Hamilton	0	0	0	0	0
Harper	0	0	0	0	0
Harvey	1	0	1	2	3
Haskell	0	1	1	0	1
Hodgeman	0	0	0	0	0
Jackson	0	0	0	0	0
Jefferson	0	0	0	0	0
Jewell	0	0	0	0	0
Johnson	12	6	18	9	27
Kearny	0	1	1	0	1
Kingman	0	0	0	1	1
Kiowa	0	0	0	0	0
Labette	1	0	1	1	2
Lane	0	0	0	0	0
Leavenworth	2	1	3	2	5
Lincoln	0	0	0	0	0
Linn	0	1	1	1	2
Logan	0	0	0	0	0

Table D15
Infant Deaths by County of Residence and Peer Group*
by Component, Kansas, 2023

County					
Lyon	2	0	2	1	3
McPherson	2	0	2	1	3
Marion	1	0	1	0	1
Marshall	0	0	0	0	0
Meade	0	0	0	0	0
Miami	0	1	1	0	1
Mitchell	0	0	0	0	0
Montgomery	0	0	0	0	0
Morris	0	0	0	0	0
Morton	0	0	0	0	0
Nemaha	0	0	0	0	0
Neosho	0	0	0	2	2
Ness	1	0	1	0	1
Norton	0	0	0	0	0
Osage	0	0	0	0	0
Osborne	0	0	0	0	0
Ottawa	0	0	0	0	0
Pawnee	0	0	0	0	0
Phillips	0	0	0	0	0
Pottawatomie	0	0	0	0	0
Pratt	0	0	0	0	0
Rawlins	0	0	0	0	0
Reno	2	0	2	3	5
Republic	0	0	0	0	0
Rice	0	0	0	0	0
Riley	1	0	1	0	1
Rooks	0	0	0	0	0
Rush	0	0	0	0	0
Russell	0	0	0	0	0
Saline	3	0	3	0	3
Scott	0	0	0	0	0
Sedgwick	15	7	22	14	36
Seward	1	1	2	1	3
Shawnee	6	1	7	5	12
Sheridan	0	0	0	0	0
Sherman	0	0	0	0	0
Smith	0	0	0	0	0
Stafford	0	0	0	0	0
Stanton	0	0	0	0	0
Stevens	0	0	0	0	0
Sumner	1	0	1	0	1
Thomas	0	0	0	0	0
Trego	0	0	0	0	0
Wabaunsee	0	0	0	0	0
Wallace	0	0	0	0	0
Washington	0	0	0	0	0
Wichita	0	0	0	0	0
Wilson	0	0	0	1	1
Woodson	0	0	0	0	0
Wyandotte	12	1	13	4	17
n.s.	0	0	0	0	0
Peer Group					
Frontier	2	2	4	0	4
Rural	9	2	11	6	17
Densely-Settled Rural	13	4	17	11	28
Semi-Urban	19	3	22	12	34
Urban	49	16	65	34	99

* See Technical Notes for Peer Group definition.

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E. GENERAL MORTALITY

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Table E1
Resident Deaths by Year and by Population Group,
By Number, Crude and Age-Adjusted Rates
Kansas, 2019-2023

Year and Population Group	Number	Crude Rate	Age-Adjusted Rate
2019	27,312	937.5	755.3
White Non-Hispanic	24,133	1,098.5	757.2
Black Non-Hispanic	1,397	834.9	949.8
Native American Non-Hispanic	180	773.5	1,065.9
Asian/Pacific Islander Non-Hispanic	222	237.8	362.6
Other Non-Hispanic	336	439.7	996.0
Hispanic	982	275.8	539.9
Not Stated	62	n/a	n/a
2020	31,667	1,086.8	871.0
White Non-Hispanic	27,360	1,250.5	855.3
Black Non-Hispanic	1,856	1,110.1	1,237.3
Native American Non-Hispanic	215	933.8	1,185.5
Asian/Pacific Islander Non-Hispanic	300	319.6	461.0
Other Non-Hispanic	413	518.6	1,184.2
Hispanic	1,416	390.9	771.3
Not Stated	107	n/a	n/a
2021	31,637	1,078.1	903.5
White Non-Hispanic	27,229	1,242.1	892.7
Black Non-Hispanic	1,891	1,120.3	1,264.7
Native American Non-Hispanic	213	914.0	1,072.8
Asian/Pacific Islander Non-Hispanic	343	362.6	515.8
Other Non-Hispanic	426	522.0	1,206.6
Hispanic	1,457	389.5	752.5
Not Stated	78	n/a	n/a
2022	31,152	1,060.6	862.2
White Non-Hispanic	27,006	1,236.9	858.0
Black Non-Hispanic	1,699	1,002.1	1,112.6
Native American Non-Hispanic	210	911.5	1,045.5
Asian/Pacific Islander Non-Hispanic	350	367.2	499.0
Other Non-Hispanic	461	556.9	1,349.6
Hispanic	1,326	346.2	652.4
Not Stated	100	n/a	n/a
2023	28,869	981.8	802.0
White Non-Hispanic	24,986	1,152.7	799.5
Black Non-Hispanic	1,620	959.6	1,055.2
Native American Non-Hispanic	190	828.0	886.0
Asian/Pacific Islander Non-Hispanic	300	317.9	429.7
Other Non-Hispanic	448	537.9	1,376.8
Hispanic	1,224	303.3	553.2
Not Stated	101	n/a	n/a

* Includes selection of two or more races or other non-specified race

Figure E1. Crude Death Rates
Kansas and the United States, 1912-2023
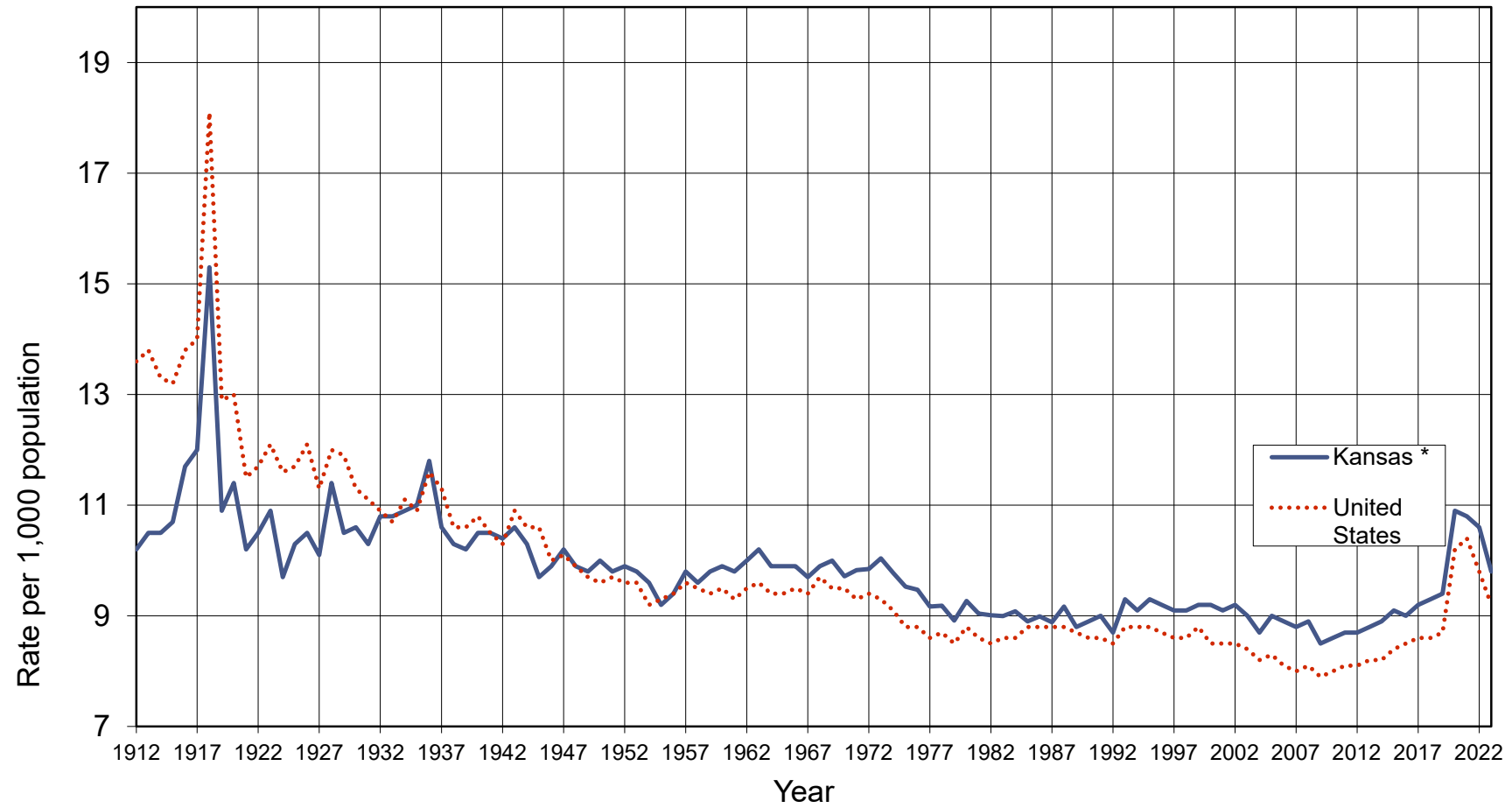
*1912-1936 Occurrence data
1937-2023 Residence data
2023 U.S. Data provisional

Table E2
Age-Specific Death Rates* by Sex
Kansas, 2004-2023

Age-Group and Sex	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Both Sexes																				
Total	8.7	9.0	8.9	8.8	8.9	8.5	8.6	8.7	8.7	8.8	8.9	9.1	9.0	9.2	9.3	9.4	10.9	10.8	10.6	9.8
Under 1	7.3	7.7	7.4	8.2	7.1	7.0	6.2	6.2	6.4	6.3	6.2	5.9	5.8	5.7	6.3	5.4	6.3	5.4	5.8	5.3
1-4	0.4	0.3	0.3	0.2	0.4	0.3	0.4	0.3	0.3	0.4	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.3
5-14	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2
15-24	0.7	0.7	0.8	0.8	0.8	0.7	0.8	0.7	0.7	0.6	0.7	0.7	0.7	0.8	0.8	0.7	0.9	0.9	0.9	0.9
25-34	1.0	0.9	1.1	0.9	0.9	1.1	1.1	1.1	1.1	1.0	1.0	1.1	1.2	1.2	1.3	1.3	1.5	1.7	1.7	1.5
35-44	1.8	1.8	1.8	1.7	1.7	1.7	1.6	1.8	1.8	1.7	1.6	1.8	1.8	1.9	1.9	1.9	2.3	2.8	2.7	2.2
45-54	4.1	4.1	4.0	4.2	3.9	4.1	4.0	4.1	4.1	4.2	4.2	4.3	4.0	4.0	3.9	3.8	4.7	5.2	4.5	4.1
55-64	8.6	8.9	8.6	8.3	8.6	8.6	8.5	8.6	8.5	8.4	8.8	9.0	9.0	9.2	9.3	9.4	10.5	11.2	10.6	9.5
65-74	20.9	21.5	21.3	20.0	20.5	20.1	18.9	19.1	19.3	18.8	19.1	19.1	18.7	18.7	18.9	18.9	21.6	22.5	21.6	19.3
75-84	52.8	54.0	53.5	53.4	53.2	50.1	48.4	48.8	48.8	48.3	48.7	48.6	48.7	48.6	47.5	47.2	54.4	54.9	52.0	48.6
85 and over	140.4	142.3	137.8	138.0	138.6	133.4	144.8	145.9	140.5	143.5	140.6	146.4	137.5	139.6	142.1	139.7	160.1	160.5	156.0	154.4
Male	8.3	8.7	8.5	8.6	8.7	8.4	8.6	8.6	8.7	8.6	8.9	9.1	9.0	9.4	9.4	9.5	11.4	11.3	10.8	10.2
Under 1	8.1	8.1	8.3	9.0	7.8	7.0	7.2	6.8	7.0	6.8	6.4	6.8	6.3	6.5	6.8	5.6	7.1	5.6	6.5	5.4
1-4	0.5	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.2	0.5	0.3	0.3	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.3
5-14	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
15-24	1.0	1.0	1.0	1.1	1.2	0.9	1.1	1.1	1.0	0.9	0.9	1.0	1.0	1.0	1.1	1.0	1.3	1.3	1.2	1.1
25-34	1.2	1.3	1.5	1.3	1.3	1.5	1.5	1.4	1.5	1.4	1.5	1.4	1.6	1.6	1.7	1.8	2.1	2.3	2.3	2.0
35-44	2.2	2.2	2.1	2.0	2.1	2.0	2.0	2.2	2.1	2.0	2.0	2.2	2.2	2.3	2.3	2.3	2.8	3.5	3.4	2.8
45-54	5.2	5.1	5.1	5.1	4.9	4.9	5.1	4.8	5.0	5.0	5.1	5.1	5.0	4.8	4.6	4.5	5.7	6.2	5.4	5.1
55-64	10.6	10.9	10.3	10.2	10.7	10.8	10.6	10.5	10.5	10.6	10.9	10.9	11.1	11.3	11.8	11.3	13.2	13.4	12.8	11.5
65-74	25.3	25.9	25.2	24.4	24.3	24.3	23.2	23.1	23.2	21.8	23.3	22.9	22.0	22.9	22.6	22.9	26.3	27.7	25.6	23.2
75-84	62.0	64.5	65.0	65.1	64.8	59.6	58.3	57.0	57.3	57.3	56.8	56.6	55.9	58.0	55.1	55.4	65.5	64.5	60.0	57.0
85 and over	148.4	156.1	149.3	153.9	156.8	156.8	161.9	159.0	155.5	156.2	156.2	160.0	151.1	153.5	152.9	153.5	179.7	177.5	175.9	169.5
Female	9.0	9.2	9.2	9.0	9.1	8.6	8.5	8.9	8.7	8.9	8.8	9.2	9.0	9.0	9.3	9.2	10.4	10.3	10.3	9.5
Under 1	6.5	7.2	6.5	7.4	6.5	7.0	5.2	5.5	5.7	5.7	5.9	5.0	5.3	4.8	5.9	5.1	5.5	5.2	5.1	5.1
1-4	0.3	0.3	0.3	0.2	0.4	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.3	0.3	0.3
5-14	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
15-24	0.4	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.3	0.4	0.3	0.4	0.4	0.5	0.4	0.4	0.5	0.5	0.6
25-34	0.7	0.5	0.6	0.6	0.6	0.8	0.6	0.7	0.6	0.7	0.6	0.8	0.7	0.8	0.8	0.8	0.8	1.0	1.0	0.9
35-44	1.3	1.5	1.5	1.4	1.2	1.3	1.2	1.4	1.5	1.4	1.3	1.4	1.4	1.4	1.4	1.4	1.7	2.1	2.1	1.6
45-54	3.0	3.1	3.0	3.2	2.9	3.2	3.0	3.4	3.3	3.3	3.3	3.5	3.0	3.2	3.1	3.1	3.7	4.2	4.2	3.1
55-64	6.7	7.0	7.0	6.4	6.6	6.4	6.4	6.6	6.5	6.2	6.7	7.2	7.0	7.2	6.9	7.7	8.0	9.0	9.3	7.5
65-74	17.3	17.7	17.9	16.3	17.1	16.4	15.2	15.6	15.8	16.0	15.2	15.5	15.7	14.9	15.5	15.2	17.3	17.6	17.5	15.7
75-84	46.2	46.4	45.5	45.3	45.1	43.4	41.2	42.8	42.5	41.5	42.6	42.5	43.1	41.3	41.5	40.8	45.7	47.1	43.8	41.8
85 and over	136.9	136.1	132.7	131.0	130.4	123.3	136.5	139.4	132.9	137.0	132.4	139.2	130.2	132.2	136.3	132.1	149.2	151.0	140.6	145.8

*Rate per 1,000 age-group population

Figure E2. Age-Adjusted Death Rates*
Kansas and the U.S., 2004-2023
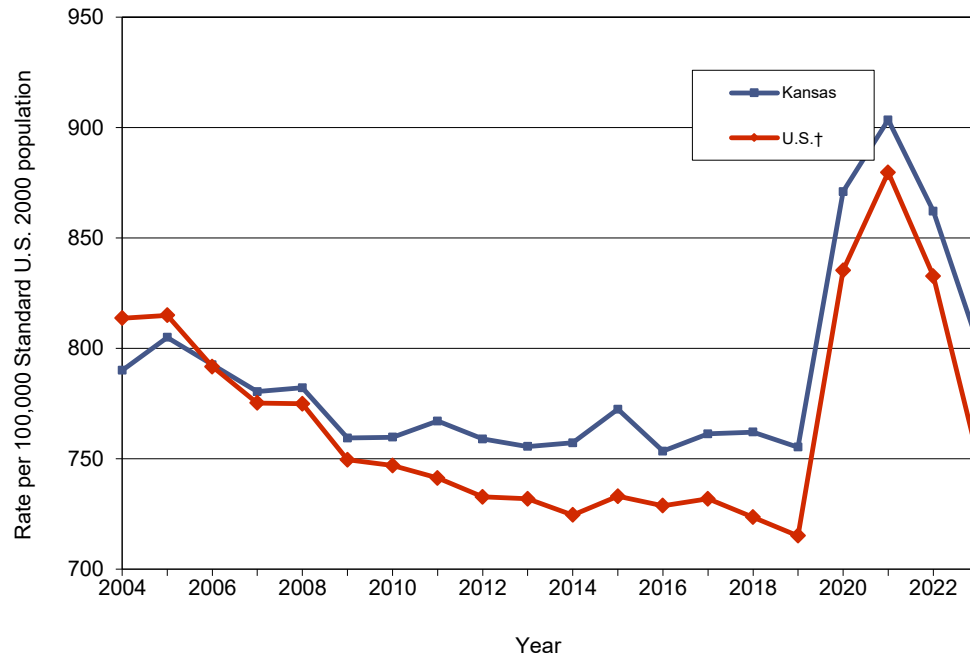
* Rate per 100,000 standard U.S. 2000 population (see Technical Notes)

† 2021, 2022 Rates Provisional

Table E3
Age-Adjusted Death Rates* by Sex
Kansas and the U.S., 2004-2023

Year	Kansas			U.S.†		
	Total	Male	Female	Total	Male	Female
2004	790.1	920.6	683.0	813.7	973.3	690.5
2005	805.0	949.9	689.4	815.0	971.9	692.3
2006	792.6	932.1	681.7	791.8	943.5	672.2
2007	780.4	930.8	663.3	775.3	922.9	658.1
2008	782.2	937.5	661.1	774.9	918.8	659.9
2009	759.4	911.7	643.4	749.6	890.9	636.8
2010	759.8	910.6	638.0	747.0	887.1	634.9
2011	767.1	894.7	662.1	741.3	875.3	632.4
2012	759.0	891.3	650.5	732.8	865.1	624.7
2013	755.6	879.4	652.5	731.9	863.6	623.5
2014	757.3	893.2	644.5	724.6	855.1	616.7
2015	772.5	898.3	667.2	733.1	863.2	624.2
2016	753.5	878.7	647.8	728.8	861.0	617.5
2017	761.3	899.4	645.0	731.9	864.5	619.7
2018	762.1	887.4	653.8	723.6	855.5	611.3
2019	755.3	884.3	645.9	715.2	846.7	602.7
2020	871.0	1,043.6	724.9	835.4	998.3	695.1
2021	903.5	1,066.4	761.9	879.7	1,048.0	733.3
2022	862.2	1,011.7	734.5	832.8	984.8	700.9
2023	802.0	941.0	681.0	750.4	884.2	632.8

* Rate per 100,000 standard U.S. 2000 population (see Technical Notes)

† U.S. rates for 2021, 2022 and 2023 are provisional.

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Table E4
Deaths by Population Group and Sex, by Age-Group and Average Age at Death
Kansas, 2023

Population Group	Total	Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	n.s.	Average Age At Death
All Races	28,869	182	41	65	363	568	823	1,361	3,294	5,840	7,449	8,882	1	73.9
Male	14,974	96	18	37	250	396	533	857	1,978	3,374	3,919	3,516	0	71.1
Female	13,895	86	23	28	113	172	290	504	1,316	2,466	3,530	5,366	1	76.8
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
White Non-Hispanic	24,986	94	21	39	194	364	577	1,040	2,647	5,034	6,726	8,250	0	75.6
Male	12,785	50	10	21	136	241	363	660	1,572	2,904	3,542	3,286	0	73.0
Female	12,201	44	11	18	58	123	214	380	1,075	2,130	3,184	4,964	0	78.3
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Black Non-Hispanic	1,620	23	5	7	64	72	98	120	300	384	306	241	0	64.3
Male.	912	13	2	6	43	55	66	71	195	231	161	69	0	60.7
Female	708	10	3	1	21	17	32	49	105	153	145	172	0	68.9
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Native American Non-Hispanic	190	1	0	0	4	8	10	17	40	47	39	24	0	65.8
Male	93	1	0	0	2	6	5	9	21	20	21	8	0	63.3
Female	97	0	0	0	2	2	5	8	19	27	18	16	0	68.1
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Asian/Pacific Non-Hispanic	300	4	1	2	6	7	14	25	27	47	83	84	0	70.8
Male.	157	1	1	1	4	5	8	12	19	27	43	36	0	68.8
Female	143	3	0	1	2	2	6	13	8	20	40	48	0	73.0
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Other Non-Hispanic*	448	22	3	2	17	33	19	32	61	91	88	80	0	62.2
Male	252	12	2	1	9	26	13	24	32	57	43	33	0	59.2
Female	196	10	1	1	8	7	6	8	29	34	45	47	0	66.1
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Hispanic Any Race	1,224	37	11	15	77	80	99	117	187	208	194	199	0	59.6
Male	699	18	3	8	55	59	72	74	118	111	100	81	0	56.4
Female	525	19	8	7	22	21	27	43	69	97	94	118	0	63.8
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Not Stated	101	1	0	0	1	4	6	10	32	29	13	4	1	61.7
Male	76	1	0	0	1	4	6	7	21	24	9	3	0	60.8
Female	25	0	0	0	0	0	0	3	11	5	4	1	1	64.6
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a

* Includes selection of two or more races or other non-specified race

Table E5
Ten Leading Causes of Death by Population Group and Sex of Decedent
Kansas, 2023

Population Group	Total	Heart Disease	Malignant Neoplasms	Unintentional Injuries	Chronic Lower Respiratory Diseases	Cerebro-vascular Disease	*Diabetes Mellitus*	Alzheimer's Disease	Suicide	Nephritis, Nephrotic Syndrome, Nephrosis	Primary Hypertension/ Hypertensive Renal Dis. &c.	All Other Causes
Total	28,869	6,121	5,487	1,830	1,564	1,313	885	832	559	551	524	9,203
White Non-Hispanic	24,986	5,406	4,826	1,423	1,436	1,116	716	752	443	456	456	7,956
Black Non-Hispanic	1,620	342	258	143	63	94	74	39	30	45	39	493
Native American Non-Hispanic	190	41	31	16	11	7	10	2	7	6	2	57
Asian/Pacific Non-Hispanic	300	48	63	15	8	28	8	7	11	11	6	95
Other Non-Hispanic*	448	88	83	42	20	15	13	4	17	4	5	157
Hispanic Any Race	1,224	170	212	176	23	51	59	28	47	27	14	417
n.s.	101	26	14	15	3	2	5	.	4	2	2	28
Male	14,974	3,338	2,984	1,141	732	618	505	275	440	270	241	4,430
White Non-Hispanic	12,785	2,925	2,647	855	669	514	398	255	343	227	198	3,754
Black Non-Hispanic	912	196	127	106	33	53	46	9	24	15	25	278
Native American Non-Hispanic	93	26	12	8	3	5	6	1	5	3	1	23
Asian/Pacific Non-Hispanic	157	26	29	8	5	14	5	2	8	8	5	47
Other Non-Hispanic*	252	53	50	27	9	6	5	1	14	4	3	80
Hispanic Any Race	699	97	109	123	10	25	42	7	42	11	7	226
n.s.	76	15	10	14	3	1	3	0	4	2	2	22
Female	13,895	2,783	2,503	689	832	695	380	557	119	281	283	4,773
White Non-Hispanic	12,201	2,481	2,179	568	767	602	318	497	100	229	258	4,202
Black Non-Hispanic	708	146	131	37	30	41	28	30	6	30	14	215
Native American Non-Hispanic	97	15	19	8	8	2	4	1	2	3	1	34
Asian/Pacific Non-Hispanic	143	22	34	7	3	14	3	5	3	3	1	48
Other Non-Hispanic*	196	35	33	15	11	9	8	3	3	0	2	77
Hispanic Any Race	525	73	103	53	13	26	17	21	5	16	7	191
n.s.	25	11	4	1	0	1	2	0	0	0	0	6
n.s.	0	0	0	0	0	0	0	0	0	0	0	0

* Includes selection of two or more races or other non-specified race

Table E6
Selected Causes of Death by Age-Group
and Average Age at Death
Kansas, 2023

Selected Causes of Death *	Total	Age-Group											Average Age at Death
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	n.s.	
All Causes	28,869	182	41	65	363	568	823	1,361	3,294	5,840	7,449	8,882	1	73.9
Selected Causes	20,940	55	27	48	321	460	663	1,092	2,610	4,488	5,324	5,852	1	n.a.
Tuberculosis	2	0	0	0	0	0	0	0	0	0	2	0	0	77.5
HIV/AIDS	21	0	0	0	1	4	0	6	4	5	0	1	0	53.5
Malignant Neoplasms	5,487	0	4	5	5	37	84	286	865	1,689	1,592	920	0	72.5
Diabetes mellitus	885	0	0	1	6	13	17	65	143	211	238	190	1	73.2
Alzheimer's Disease	832	0	0	0	0	0	0	1	15	60	264	492	0	85.6
Heart Disease	6,121	4	0	1	4	27	111	219	676	1,122	1,540	2,417	0	78.3
Prim. Hypertension/Hypertensive Renal Dis. And Sec. Hypertension	524	0	0	0	0	0	1	8	44	82	144	245	0	81.8
Cerebrovascular Disease	1,313	1	1	1	2	8	21	50	100	258	377	494	0	78.4
Atherosclerosis	67	0	0	0	0	0	0	2	9	18	25	13	0	76.5
Pneumonia and Influenza	414	0	2	2	0	2	8	14	36	82	116	152	0	77.5
Chronic Lower Respiratory Diseases	1,564	0	0	1	3	0	6	18	186	394	539	417	0	77.2
Peptic Ulcer	44	0	0	0	0	1	1	1	8	13	8	12	0	73.0
Chronic Liver Disease and Cirrhosis	461	0	0	0	1	20	46	63	134	122	60	15	0	61.0
Nephritis, Nephrotic Syndrome and Nephrosis	551	0	0	0	0	2	7	22	51	129	165	175	0	77.4
Congenital Anomalies	84	28	3	4	3	1	6	11	12	6	7	3	0	33.9
Unintentional Injuries	1,830	21	13	17	170	196	223	205	237	234	217	297	0	56.2
Suicide	559	0	0	7	80	114	99	99	77	51	25	7	0	44.1
Homicide	182	1	4	9	46	35	33	22	13	12	5	2	0	36.5
Coronavirus 2019	483	0	2	3	3	3	5	11	34	88	137	197	0	78.8
Clostridium difficile	26	0	0	0	0	0	0	0	2	8	7	9	0	78.3

* The ICD-10 codes associated with each category are listed in Appendix 4.

Table E7
Ten Leading Causes of Death,
Number, Rate and Average Age at Death, by Sex
Kansas, 2023

Leading Causes of Death †	Number of Deaths				Cause-Specific Death Rate*			Average Age at Death		
	Total	Male	Female	n.s.	Total	Male	Female	Total	Male	Female
All Causes	28,869	14,974	13,895	0	981.8	1,015.4	947.9	73.9	70.5	76.8
Heart Disease	6,121	3,338	2,783	0	208.2	226.4	189.8	78.3	75.5	81.6
Malignant Neoplasms	5,487	2,984	2,503	0	186.6	202.4	170.7	72.5	72.6	72.4
Unintentional Injuries	1,830	1,141	689	0	62.2	77.4	47.0	56.2	53.8	60.3
Chronic Lower Respiratory Disease	1,564	732	832	0	53.2	49.6	56.8	77.2	76.7	77.6
Cerebrovascular Disease	1,313	618	695	0	44.7	41.9	47.4	78.4	75.9	80.5
Diabetes mellitus	885	505	380	0	30.1	34.2	25.9	73.2	71.2	75.8
Alzheimer's Disease	832	275	557	0	28.3	18.6	38.0	85.6	83.9	86.4
Suicide	559	440	119	0	19.0	29.8	8.1	44.1	44.1	44.4
Nephritis, Nephrotic Syndrome and Nephrosis	551	270	281	0	18.7	18.3	19.2	77.4	76.3	78.4
Prim. Hypertension/Hypertensive Renal Disease and Sec. Hypertension	524	241	283	0	17.8	16.3	19.3	81.8	78.4	84.6

*Rate per 100,000 population

† The ICD-10 codes associated with each category are listed in Appendix 4.

Note: Rates are based US Census Bureau population estimates for 2023.

Table E8

Death Rates, Age-Adjusted Death Rates and 95% Confidence Intervals
for Selected Leading Causes of Death
Kansas, 2022-2023

Cause of Death §	2022					2023				
	Number	Death Rate*	Age-Adjusted Death Rate†	CI (95%)‡ Lower	Upper	Number	Death Rate*	Age-Adjusted Death Rate†	CI (95%)‡ Lower	Upper
All Causes	31,152	1,060.6	862.2	852.4	872.0	28,869	981.8	802.0	792.6	811.4
Heart Disease	6,374	217.0	171.4	167.1	175.6	6,121	208.2	166.7	162.4	170.9
Malignant Neoplasms	5,429	184.8	146.6	142.6	150.6	5,487	186.6	147.1	143.1	151.1
Unintentional Injuries	2,012	68.5	64.2	61.3	67.1	1,830	62.2	57.9	55.2	60.6
Chronic Lower Respiratory Diseases	1,665	56.7	44.1	42.0	46.2	1,564	53.2	41.4	39.3	43.5
Cerebrovascular Disease	1,305	44.4	35.2	33.1	37.1	1,313	44.7	35.9	33.9	37.9
Diabetes mellitus	957	32.6	26.1	24.4	27.8	884	30.1	24.4	22.8	26.0
Alzheimer's Disease	941	32.0	25.1	23.5	26.7	832	28.3	22.7	21.2	24.2
Suicide	591	20.1	20.3	18.6	22.0	559	19.0	19.2	17.6	20.8
Nephritis, Nephrotic Syndrome and Nephrosis	633	21.6	17.1	15.7	18.5	551	18.7	14.9	13.6	16.2
Prim. Hypertension/Hypertensive Renal Disease and Sec. Hypertension	547	18.6	14.5	13.3	15.7	524	17.8	14.1	12.9	15.3
Coronavirus 2019	1,996	68.0	54.8	52.3	57.3	483	16.4	13.2	12.0	14.4
Chronic Liver Disease and Cirrhosis	467	15.9	14.2	12.9	15.5	461	15.7	13.5	12.2	17.8
Pneumonia and Influenza	473	16.1	12.8	11.6	14.0	414	14.1	11.3	10.2	12.4
Homicide	160	5.4	5.7	4.8	6.6	182	6.2	6.4	5.5	7.3
Certain Conditions Originating in the Perinatal Period	81	2.8	3.2	2.5	3.9	90	3.1	3.6	2.9	4.3
Congenital Anomalies	122	4.2	4.4	3.6	5.2	84	2.9	2.9	2.3	3.5

* Rate per 100,000 population

† Rate per 100,000 standard U.S. 2000 population (see Technical Notes)

‡ CI = 95% confidence interval based on a formula for estimating the standard error or SE. See Technical Notes

§ The ICD-10 codes associated with each category are listed in Appendix 4.

Figure E3. Death Rates for Selected
Leading Causes of Death
Kansas, 2004-2023
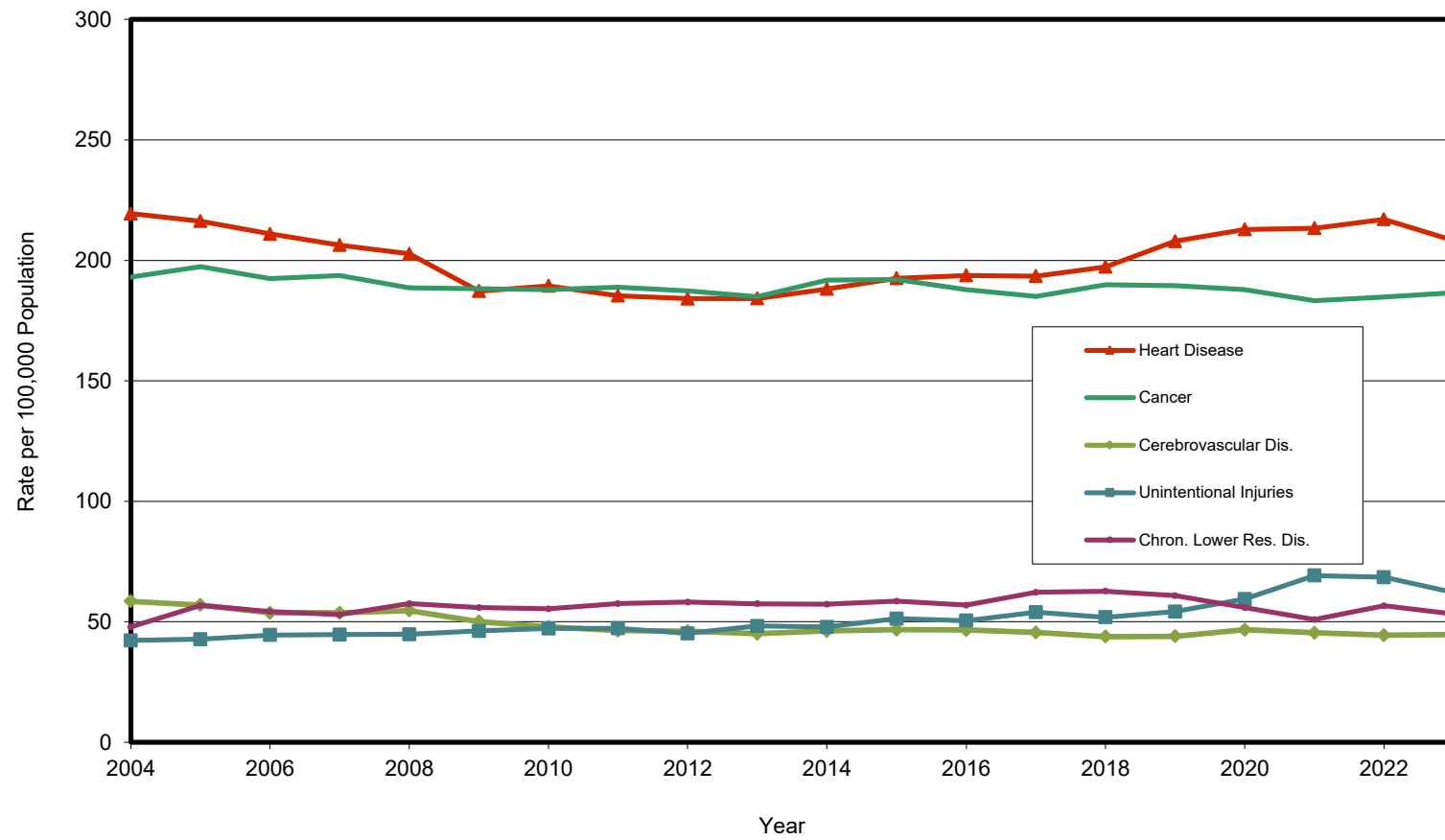
Figure E4. Leading Causes of Death by Age-Group
Kansas, 2023

ALL AGES

CAUSE	NUMBER
HEART DISEASE	6,121
CANCER	5,487
UNINTENTIONAL INJURIES	1,830
CHRON. LOWER RESP. DIS.	1,564
CEREBROVASC. DIS.	1,313
OTHER CAUSES	12,554
TOTAL	28,869

UNDER 1 YEAR

CAUSE	NUMBER
CONGENITAL ANOMALIES	28
LENGTH GEST./FETAL GROWTH	21
UNINTENTIONAL INJURIES	21
MATERNAL FACTORS & COMPL.	20
SIDS	6
OTHER CAUSES	86
TOTAL	182

1-4 YEARS

CAUSE	NUMBER
UNINTENTIONAL INJURIES	13
HOMICIDE	4
CANCER	4
CONGENITAL ANOMALIES	3
PNEUMONIA & INFLUENZA	2
COVID-19	2
OTHER CAUSES	13
TOTAL	41

5-14 YEARS

CAUSE	NUMBER
UNINTENTIONAL INJURIES	17
HOMICIDE	9
SUICIDE	7
CANCER	5
CONGENITAL ANOMLIES	4
OTHER CAUSES	23
TOTAL	65

15-24 YEARS

CAUSE	NUMBER
UNINTENTIONAL INJURIES	170
SUICIDE	80
HOMICIDE	46
DIABETES MELLITUS	6
CANCER	5
OTHER CAUSES	56
TOTAL	363

25-44 YEARS

CAUSE	NUMBER
UNINTENTIONAL INJURIES	419
SUICIDE	213
HEART DISEASE	138
CANCER	121
CHRONIC LIV. DIS. & CIRRH.	66
OTHER CAUSES	434
TOTAL	1,391

45-64 YEARS

CAUSE	NUMBER
CANCER	1,151
HEART DISEASE	895
UNINTENTIONAL INJURIES	442
DIABETES MELLITUS	208
CHRONIC LOWER RESP. DIS.	204
OTHER CAUSES	1,755
TOTAL	4,655

65-84 YEARS

CAUSE	NUMBER
CANCER	3,281
HEART DISEASE	2,662
CHRONIC LOWER RESP. DIS.	933
CEREBROVASC. DIS.	635
UNINTENTIONAL INJURIES	451
OTHER CAUSES	5,327
TOTAL	13,289

85 YEARS AND OVER

CAUSE	NUMBER
HEART DISEASE	2,417
CANCER	920
CEREBROVASC. DIS.	494
ALZHEIMER'S DIS.	492
CEREBROVASC. DIS.	417
OTHER CAUSES	4,142
TOTAL	8,882

Table E9
Pneumonia and Influenza Mortality
Number and Age-Adjusted Rates
Kansas Residents, 2004-2023

Year	Number of Deaths	Age-Adjusted Rate
2004	558	17.5
2005	728	22.4
2006	647	19.4
2007	662	19.7
2008	740	21.7
2009	592	17.8
2010	555	16.5
2011	641	18.6
2012	621	17.9
2013	709	20.0
2014	631	18.0
2015	682	18.9
2016	518	14.3
2017	540	14.8
2018	626	17.0
2019	514	13.7
2020	510	13.6
2021	395	11.1
2022	473	12.8
2023	414	11.3

Figure E5. Pneumonia and Influenza Deaths
by Month and by Five-Year Median for Month
Kansas Residents, 2023
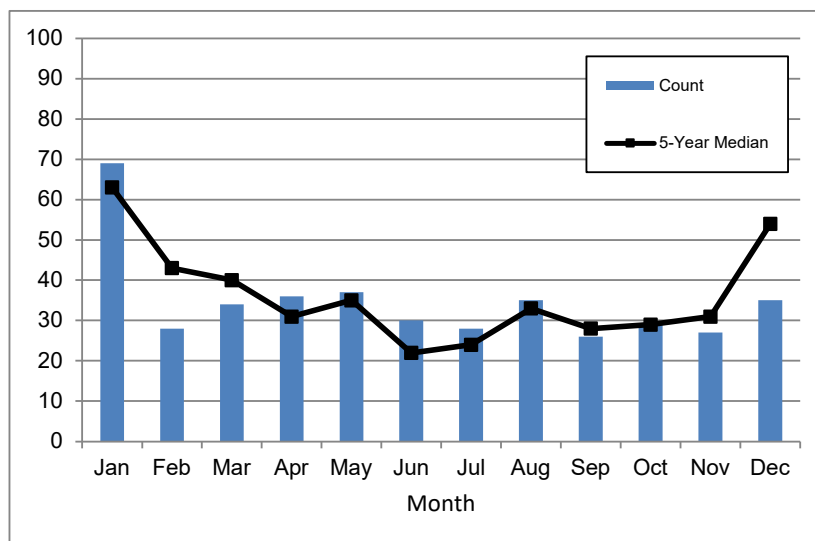
Table E10

Heart Disease Deaths by Component and Sex of Decedent, by Age-Group of Decedent

Kansas, 2023

Causes of Death and Sex of Decedent *	Total	Age-Group											
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	n.s.
Heart Disease	6,121	4	0	1	4	27	111	219	676	1,122	1,540	2,417	0
Male	3,338	3	0	1	0	19	70	158	458	742	876	1,011	0
Female	2,783	1	0	0	4	8	41	61	218	380	664	1,406	0
Acute Rheumatic Fever and Chronic Rheumatic Heart Disease	39	0	0	0	0	0	0	2	5	6	16	10	0
Male	12	0	0	0	0	0	0	1	1	1	7	2	0
Female	27	0	0	0	0	0	0	1	4	5	9	8	0
Hypertensive Heart Disease with or without Renal Disease	918	0	0	0	0	1	20	31	83	125	199	459	0
Male	420	0	0	0	0	1	14	23	57	82	89	154	0
Female	498	0	0	0	0	0	6	8	26	43	110	305	0
Ischemic Heart Disease	3,199	0	0	0	0	7	44	134	412	705	860	1,037	0
Male	1,980	0	0	0	0	5	31	102	290	496	542	514	0
Female	1,219	0	0	0	0	2	13	32	122	209	318	523	0
Pulmonary Heart Disease and Diseases of Pulmonary Circulation	176	1	0	0	2	5	14	8	30	33	41	42	0
Male	72	1	0	0	0	3	5	4	17	17	15	10	0
Female	104	0	0	0	2	2	9	4	13	16	26	32	0
Other Forms of Heart Disease	1,789	3	0	1	2	14	33	44	146	253	424	869	0
Male	854	2	0	1	0	10	20	28	93	146	223	331	0
Female	935	1	0	0	2	4	13	16	53	107	201	538	0

* The ICD-10 codes associated with each category are listed in Appendix 4.

Table E11
Malignant Neoplasm Deaths
by Site of Lesion and Sex of Decedent, by Age-Group of Decedent
Kansas, 2023

Site of Lesion and Sex of Decedent *	Total	Age-Group										
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over
Malignant Neoplasms (All Sites)	5,487	0	4	5	5	37	84	286	865	1,689	1,592	920
Male	2,984	0	2	2	2	14	43	143	451	985	875	467
Female	2,503	0	2	3	3	23	41	143	414	704	717	453
Lip, Oral Cavity and Pharynx	120	0	0	0	0	0	0	13	26	43	23	15
Male	81	0	0	0	0	0	0	8	18	33	14	8
Female	39	0	0	0	0	0	0	5	8	10	9	7
Digestive Organs	1,451	0	0	1	0	3	24	90	252	492	371	218
Male	847	0	0	1	0	2	13	56	152	307	211	105
Female	604	0	0	0	0	1	11	34	100	185	160	113
Respiratory and Intrathoracic Organs	1,306	0	0	0	0	2	6	42	229	467	409	151
Male	746	0	0	0	0	2	5	23	127	284	228	77
Female	560	0	0	0	0	0	1	19	102	183	181	74
Bone and Articular Cartilage	14	0	0	1	1	0	0	2	5	4	0	1
Male	5	0	0	0	0	0	0	1	2	1	0	1
Female	9	0	0	1	1	0	0	1	3	3	0	0
Skin	133	0	0	0	0	1	2	16	13	39	36	26
Male	93	0	0	0	0	0	2	11	11	24	27	18
Female	40	0	0	0	0	1	0	5	2	15	9	8
Mesothelial and Soft Tissue	67	0	0	0	1	2	4	5	8	27	11	9
Male	39	0	0	0	1	1	2	1	4	17	8	5
Female	28	0	0	0	0	1	2	4	4	10	3	4
Breast	367	0	0	0	0	1	12	23	70	86	111	64
Male	6	0	0	0	0	0	0	0	1	3	1	1
Female	361	0	0	0	0	1	12	23	69	83	110	63
Genital Organs	570	0	0	0	1	8	7	24	80	149	161	140
Male	292	0	0	0	0	0	2	5	28	65	94	98
Female	278	0	0	0	1	8	5	19	52	84	67	42
Urinary Tract	278	0	0	1	0	0	2	11	24	83	100	57
Male	204	0	0	0	0	0	2	9	20	66	78	29
Female	74	0	0	1	0	0	0	2	4	17	22	28
Eye and Adnexa	6	0	0	0	0	0	0	1	2	2	0	1
Male	4	0	0	0	0	0	0	1	1	1	0	1
Female	2	0	0	0	0	0	0	0	1	1	0	0
Meninges, Brain and Other Parts of Central Nervous System	173	0	1	2	0	10	13	20	34	50	36	7
Male	94	0	1	1	0	6	8	6	19	27	22	4
Female	79	0	0	1	0	4	5	14	15	23	14	3
Thyroid and Other Endocrine Glands	25	0	1	0	0	0	0	1	6	4	8	5
Male	13	0	0	0	0	0	0	0	3	4	5	1
Female	12	0	1	0	0	0	0	1	3	0	3	4
Other and Unspecified Sites	412	0	1	0	0	3	9	17	72	104	123	83
Male	219	0	0	0	0	0	5	11	40	61	63	39
Female	193	0	1	0	0	3	4	6	32	43	60	44
Leukemia	240	0	1	0	2	6	2	8	12	52	88	69
Male	147	0	1	0	1	2	1	3	6	39	52	42
Female	93	0	0	0	1	4	1	5	6	13	36	27
Other Lymphoid, Hematopoietic and Related Tissue	325	0	0	0	0	1	3	13	32	87	115	74
Male	194	0	0	0	0	1	3	8	19	53	72	38
Female	131	0	0	0	0	0	0	5	13	34	43	36

* The ICD-10 codes associated with each category are listed in Appendix 6.

Table E12

Cerebrovascular Disease Deaths by Component and Sex of Decedent, by Age-Group of Decedent

Kansas, 2023

Cause of Death and Sex of Decedent	Total	Age-Group										
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over
Cerebrovascular Disease	1,313	1	1	1	2	8	21	50	100	258	377	494
Male	618	0	0	1	0	3	13	26	63	142	196	174
Female	695	1	1	0	2	5	8	24	37	116	181	320
Subarachnoid Hemorrhage	60	0	0	0	0	2	2	15	9	12	10	10
Male	24	0	0	0	0	1	2	6	1	3	7	4
Female	36	0	0	0	0	1	0	9	8	9	3	6
Intracerebral and Other Intercranial Hemorrhage	281	1	1	1	1	2	13	19	25	63	82	73
Male	148	0	0	1	0	0	8	10	15	39	47	28
Female	133	1	1	0	1	2	5	9	10	24	35	45
Cerebral Infarction	213	0	0	0	0	3	4	4	19	55	68	60
Male	99	0	0	0	0	2	1	3	10	32	33	18
Female	114	0	0	0	0	1	3	1	9	23	35	42
Stroke, Not Specified as Hemorrhage or Infarction	492	0	0	0	1	1	2	8	35	86	141	218
Male	225	0	0	0	0	0	2	5	27	46	66	79
Female	267	0	0	0	1	1	0	3	8	40	75	139
Other Cerebrovascular Diseases	267	0	0	0	0	0	0	4	12	42	76	133
Male	122	0	0	0	0	0	0	2	10	22	43	45
Female	145	0	0	0	0	0	0	2	2	20	33	88

* The ICD-10 codes associated with each category are listed in Appendix 4.

Table E13

Unintentional Injury Deaths by Component and Sex of Decedent, by Age-Group of Decedent
Kansas, 2023

Cause of Death and Sex of Decedent	Total	Age-Group										
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over
Unintentional Injuries	1,830	21	13	17	170	196	223	205	237	234	217	297
Male	1,141	11	5	9	112	138	156	144	153	156	130	127
Female	689	10	8	8	58	58	67	61	84	78	87	170
Motor-Vehicle	403	1	7	10	90	51	45	43	54	62	34	6
Male	270	1	3	4	57	32	35	32	37	39	27	3
Female	133	0	4	6	33	19	10	11	17	23	7	3
Traffic	*381*	*1*	*7*	*7*	*86*	*51*	*42*	*41*	*53*	*56*	*31*	*6*
Male	*253*	*1*	*3*	*2*	*56*	*32*	*32*	*30*	*36*	*34*	*24*	*3*
Female	*128*	*0*	*4*	*5*	*30*	*19*	*10*	*11*	*17*	*22*	*7*	*3*
Non-Traffic	*22*	*0*	*0*	*3*	*4*	*0*	*3*	*2*	*1*	*6*	*3*	*0*
Male	*17*	*0*	*0*	*2*	*1*	*0*	*3*	*2*	*1*	*5*	*3*	*0*
Female	*5*	*0*	*0*	*1*	*3*	*0*	*0*	*0*	*0*	*1*	*0*	*0*
Water Transport	6	0	0	0	1	0	1	2	1	1	0	0
Male	5	0	0	0	1	0	0	2	1	1	0	0
Female	1	0	0	0	0	0	1	0	0	0	0	0
Air and Space Transport	3	0	0	0	0	0	0	1	0	1	1	0
Male	3	0	0	0	0	0	0	1	0	1	1	0
Female	0	0	0	0	0	0	0	0	0	0	0	0
Falls	475	0	1	0	1	6	11	17	30	58	126	225
Male	240	0	1	0	1	4	8	11	16	37	69	93
Female	235	0	0	0	0	2	3	6	14	21	57	132
Inanimate Mechanical Forces	28	0	1	1	1	2	1	5	4	3	6	4
Male	26	0	0	1	1	2	1	5	3	3	6	4
Female	2	0	1	0	0	0	0	0	1	0	0	0
Drowning and Submersion	27	0	1	1	7	4	3	3	2	3	2	1
Male	20	0	0	1	7	3	1	2	1	2	2	1
Female	7	0	1	0	0	1	2	1	1	1	0	0
Other Accidental Threats to Breathing	73	19	1	0	0	2	1	3	3	10	15	19
Male	33	9	0	0	0	2	1	2	0	6	6	7
Female	40	10	1	0	0	0	0	1	3	4	9	12

Table E13

Unintentional Injury Deaths by Component and Sex of Decedent, by Age-Group of Decedent
Kansas, 2023

Cause of Death and Sex of Decedent	Total	Age-Group										
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over
Electric Current, Radiation and Air Temperature/Pressure	1	0	0	0	0	0	1	0	0	0	0	0
Male	1	0	0	0	0	0	1	0	0	0	0	0
Female	0	0	0	0	0	0	0	0	0	0	0	0
Smoke, Fire and Flames	48	0	1	0	3	4	3	3	10	12	7	5
Male	30	0	0	0	1	3	3	2	7	6	5	3
Female	18	0	1	0	2	1	0	1	3	6	2	2
Forces of Nature	27	1	0	0	2	0	0	5	7	5	6	1
Male	17	1	0	0	2	0	0	5	4	4	1	0
Female	10	0	0	0	0	0	0	0	3	1	5	1
Poisonings	616	0	1	2	63	123	149	112	110	50	3	3
Male	422	0	1	2	40	89	101	78	71	38	1	1
Female	194	0	0	0	23	34	48	34	39	12	2	2
Other Unintentional Injuries	86	0	0	2	2	4	5	9	11	16	14	23
Male	52	0	0	0	2	3	3	3	9	11	9	12
Female	34	0	0	2	0	1	2	6	2	5	5	11
Complications of Medical and Surgical Care	37	0	0	1	0	0	3	2	5	13	3	10
Male	22	0	0	1	0	0	2	1	4	8	3	3
Female	15	0	0	0	0	0	1	1	1	5	0	7

* The ICD-10 codes associated with each category are listed in Appendix 4.

Table E14
Selected External Causes of Death
by Injury Matrix Group and Intent
Kansas, 2023*

Cause Group †	Total	Unintentional	Suicide	Homicide	Undetermined	Legal/War
Total	2,580	1,793	559	182	40	6
Cut/Pierce	21	4	6	11	0	0
Drowning	31	27	1	0	3	0
Falls	482	475	6	0	1	0
Fire/flame	55	48	1	4	2	0
Hot Object/Scalding	2	2	0	0	0	0
Firearm	469	5	316	137	5	6
Machinery	7	7	0	0	0	0
Motor Vehicle Traffic	381	381	0	0	0	0
Other Pedal Cyclist	6	6	0	0	0	0
Other Pedestrian	10	10	0	0	0	0
Other Land Transport	22	20	2	0	0	0
Other Transport	9	9	0	0	0	0
Natural/Environmental	32	32	0	0	0	0
Overexertion	0	0	0	0	0	0
Poisoning	704	616	71	0	17	0
Struck By/Against	10	9	0	1	0	0
Suffocation	224	73	142	5	4	0
Other Specified	27	15	10	2	0	0
NEC §	29	17	3	6	3	0
Not Specified	59	37	1	16	5	0

* Adverse effects of drugs or medical care are excluded.
† The ICD-10 codes associated with each category are listed in Appendix 7.
§ NEC = Not Elsewhere Classified

Table E15
Work-related Injury Deaths by Industry* of Decedent's Occupation by Year
Kansas, 2014-2023

Type of Industry	Total	Year									
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Total	550	58	50	55	49	48	73	50	51	57	44
Agriculture, Forestry, Fishing and Hunting	73	13	7	3	6	6	10	9	6	4	7
Mining	27	3	2	3	1	3	2	2	1	5	0
Utilities	11	0	2	3	2	0	1	0	1	1	0
Construction	94	5	7	6	10	12	11	10	9	11	8
Manufacturing	61	13	4	10	3	3	8	2	4	9	2
Wholesale Trade	21	3	4	2	3	1	2	1	3	1	2
Retail Trade	18	0	0	3	2	0	7	3	2	0	1
Transportation and Warehousing	73	6	6	7	7	7	4	5	11	8	11
Information	1	1	0	0	0	0	0	0	0	0	1
Finance and Insurance	2	0	1	0	0	0	0	1	0	0	0
Real Estate, and Rental, and Leasing	3	0	0	1	0	1	0	1	0	0	0
Professional, Scientific and Technical Services	9	2	0	0	2	1	1	1	0	2	0
Management of Companies and Enterprises	1	0	0	0	0	0	1	0	0	0	0
Admin. and Support & Waste Management Services	18	3	3	0	0	1	6	2	2	1	4
Educational Services	6	1	0	3	0	0	1	0	0	1	0
Health Care and Social Assistance	17	2	0	2	4	2	5	0	0	1	1
Arts, Entertainment, and Recreation	6	1	0	1	0	2	2	0	0	0	1
Accommodation and Food Services	11	0	0	0	0	1	1	3	2	2	0
Other Services (except Public Admin.)	19	1	5	1	3	1	2	2	1	2	1
Public Admin. and Active Duty Military	38	3	1	6	4	5	6	4	5	3	1
Housewives, Students, Children, Volunteers and None§	10	0	3	2	0	0	0	2	0	0	1
n.s.	31	1	5	2	2	2	3	2	4	6	3

*Due to changes in the coding of industry, use caution when comparing different years.
§This category includes those who were never employed.

Table E16
Selected Chronic Disease Deaths by Component and Sex of Decedent, by Age-Group of Decedent
Kansas, 2023

Cause of Death * and Sex of Decedent	Total	Age-Group											
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	n.s.
Total	4,096	0	0	2	10	36	78	179	575	969	1,179	1,067	1
Male	2,108	0	0	1	6	22	44	116	345	502	608	464	0
Female	1,988	0	0	1	4	14	34	63	230	467	571	603	1
Diabetes mellitus	885	0	0	1	6	13	17	65	143	211	238	190	1
Male	505	0	0	0	3	8	8	44	93	111	141	97	0
Female	380	0	0	1	3	5	9	21	50	100	97	93	1
Primary Hypertension/Hypertensive Renal Dis. And Secondary Hypertension	524	0	0	0	0	0	1	8	44	82	144	245	0
Male	241	0	0	0	0	0	1	8	28	45	73	86	0
Female	283	0	0	0	0	0	0	0	16	37	71	159	0
Atherosclerosis	67	0	0	0	0	0	0	2	9	18	25	13	0
Male	35	0	0	0	0	0	0	1	6	10	13	5	0
Female	32	0	0	0	0	0	0	1	3	8	12	8	0
Chronic Lower Respiratory Diseases	1,564	0	0	1	3	0	6	18	186	394	539	417	0
Male	732	0	0	1	3	0	5	6	86	188	258	185	0
Female	832	0	0	0	0	0	1	12	100	206	281	232	0
Peptic Ulcer	44	0	0	0	0	1	1	1	8	13	8	12	0
Male	23	0	0	0	0	1	1	0	6	7	4	4	0
Female	21	0	0	0	0	0	0	1	2	6	4	8	0
Chronic Liver Disease and Cirrhosis	461	0	0	0	1	20	46	63	134	122	60	15	0
Male	302	0	0	0	0	12	25	44	97	79	37	8	0
Female	159	0	0	0	1	8	21	19	37	43	23	7	0
Nephritis, Nephrotic Syndrome, and Nephrosis	551	0	0	0	0	2	7	22	51	129	165	175	0
Male	270	0	0	0	0	1	4	13	29	62	82	79	0
Female	281	0	0	0	0	1	3	9	22	67	83	96	0

* The ICD-10 codes associated with each category are listed in Appendix 4.

Table E17. *Diabetes mellitus* as an Underlying and Contributing
Cause of Death, Kansas, 2023

Underlying Cause of Death	Number of Deaths with Underlying Cause	Number of Deaths in which Diabetes was Contributing Cause
HIV (AIDS)	21	0
Cancer	5,487	247
Diabetes mellitus	885	881
Alzheimer's Disease	832	50
Heart Disease	6,121	636
Primary Hypertension/Hypertensive Renal Disease/Secondary Hypertension	524	34
Cerebrovascular Disease	1,313	109
Atherosclerosis	67	3
Influenza and Pneumonia	414	20
Coronavirus 2019	483	26
Chronic Lower Respiratory Disease	1,564	98
Chronic Liver Disease and Cirrhosis	461	26
Nephritis, Nephrotic Syndrome, Nephrosis	551	5
Accidents/Adverse Effects	1,830	129
Suicide	559	2
Total for These Causes	21,112	2,266

Table E17a. Coronavirus 2019 as an Underlying and Contributing
Cause of Death, Kansas, 2023

Underlying Cause of Death	Number of Deaths with Underlying Cause	Number of Deaths in which Coronavirus 2019 was Contributing Cause
HIV (AIDS)	21	0
Cancer	5,487	23
Diabetes mellitus	885	8
Alzheimer's Disease	832	12
Heart Disease	6,121	47
Primary Hypertension/Hypertensive Renal Disease/Secondary Hypertension	524	4
Cerebrovascular Disease	1,313	6
Atherosclerosis	67	1
Influenza and Pneumonia	414	0
Coronavirus 2019	483	467
Chronic Lower Respiratory Disease	1,564	20
Chronic Liver Disease and Cirrhosis	461	2
Nephritis, Nephrotic Syndrome, Nephrosis	551	5
Accidents/Adverse Effects	1,830	11
Suicide	559	0
Total for These Causes	21,112	606

Table E18
Deaths by Occupation of Decedent* by
Selected Causes of Death
Kansas, 2023

Occupation of Decedent	Total	Heart Disease	Malignant Neoplasms	Cerebro-vascular Disease	Unintentional Injuries	Chronic Lower Respiratory Diseases	Suicide	Athero-sclerosis	Chronic Liver Disease and Cirrhosis	Homicide	Coronavirus 2019	Hyper-tension	All Other Causes
Total	28,869	6,121	5,487	1,313	1,830	1,564	559	67	461	182	483	524	10,278
Management	1,636	357	376	77	87	74	26	1	17	2	31	24	564
Business and Financial Operations	734	164	163	30	27	33	11	1	14	1	5	14	271
Computer and Mathematical	265	52	74	16	10	7	10	0	12	0	3	2	79
Architecture and Engineering	515	121	108	22	26	18	12	1	11	2	8	5	181
Life, Physical, and Social Services	168	32	45	7	10	9	4	0	3	1	1	4	52
Community and Social Services	400	82	72	20	18	17	2	1	3	1	4	9	171
Legal	128	26	30	9	10	5	1	0	4	0	1	2	40
Education, Training, and Library	1,438	314	298	76	55	43	6	1	11	1	32	27	574
Arts, Design, Entertainment, Sports, and Media	385	72	83	16	23	18	12	2	6	1	8	9	135
Healthcare Practitioners and Technical	1,285	271	263	69	61	73	18	3	11	2	15	21	478
Healthcare Support	679	137	121	37	39	55	9	3	12	4	8	12	242
Protective Service	378	88	87	13	16	21	11	1	5	5	4	6	121
Food Preparation and Serving Related	715	129	113	31	71	46	13	1	21	8	12	13	257
Building and Grounds Cleaning and Maintenance	708	140	165	28	53	38	19	1	7	3	11	8	235
Personal Care and Service	494	106	99	24	30	36	11	1	7	5	15	4	156
Sales and Related	1,957	422	385	82	108	112	41	4	27	8	39	39	690
Office and Admin. Support	2,655	581	482	125	103	145	19	4	37	6	44	72	1,037
Farming, Forestry, and Fishing	1,076	273	190	44	52	59	11	7	9	0	23	22	386
Construction and Extraction	1,646	348	345	73	167	103	49	3	48	22	29	16	443
Installation, Repair, and Maintenance	1,206	263	247	61	88	67	36	5	21	6	16	24	372
Production	2,093	464	378	104	130	132	47	7	45	14	33	30	709
Transportation and Material Moving	1,763	399	363	60	150	117	53	3	41	14	25	26	512
Housewives, Students, Children, Volunteers, and None§	3,755	759	500	181	199	203	28	9	44	26	70	76	1,660
n.s.	2,790	521	500	108	297	133	110	8	45	50	46	59	913

*Due to changes in the coding of occupation, use caution when comparing prior years.

† The ICD-10 codes associated with each category are listed in Appendix 4.

§ This category includes those who were never employed.

Table E19
Deaths by Industry* of Decedent's Occupation by Selected Causes of Death
Kansas, 2023

Type of Industry	Total	Heart Disease	Malignant Neoplasms	Cerebro-vascular Disease	Unintentional Injuries	Chronic Lower Respiratory Diseases	Suicide	Athero-sclerosis	Chronic Liver Disease and Cirrhosis	Homicide	Coronavirus 2019	Hyper-tension	All Other Causes
						Selected Causes of Death †							
Total	28,869	6,121	5,487	1,313	1,830	1,564	559	67	461	182	483	524	10,278
Agriculture, Forestry, Fishing and Hunting	1,266	321	228	50	62	72	15	7	10	1	26	23	451
Mining	266	61	55	11	17	13	7	2	1	2	6	6	85
Utilities	338	66	77	11	15	12	7	0	5	0	6	8	131
Construction	1,902	391	396	83	182	120	66	1	53	23	35	21	531
Manufacturing	3,405	768	693	147	210	212	64	9	69	14	59	53	1107
Wholesale Trade	331	62	73	17	25	18	2	0	4	1	8	2	119
Retail Trade	1,958	447	385	88	114	104	39	3	29	12	24	47	666
Transportation and Warehousing	1,519	333	312	60	101	109	37	7	22	12	25	28	473
Information	599	135	117	28	23	31	8	2	12	0	8	13	222
Finance and Insurance	861	183	185	35	28	46	10	0	10	0	14	23	327
Real Estate, and Rental, and Leasing	308	76	72	19	14	12	4	0	3	0	5	3	100
Professional, Scientific and Technical Services	938	203	215	61	46	31	24	0	21	2	8	16	311
Management of Companies and Enterprises	54	15	7	3	3	1	0	0	0	0	0	1	24
Admin. and Support & Waste Management Services	517	103	103	21	51	21	23	1	6	8	2	6	172
Educational Services	2,176	466	433	113	82	67	14	1	23	3	48	52	874
Health Care and Social Assistance	2,920	606	578	145	141	176	33	7	40	12	44	48	1,090
Arts, Entertainment, and Recreation	297	61	65	12	17	22	10	2	7	0	10	5	86
Accommodation and Food Services	845	153	146	35	88	57	21	1	24	8	12	12	288
Other Services (except Public Admin.)	1,342	308	259	65	86	68	31	3	23	7	20	24	448
Public Admin. and Active Duty Military	1,693	356	319	70	87	105	42	9	22	4	30	35	614
Housewives, Students, Children, Volunteers and None§	3,813	743	495	179	262	193	62	9	45	44	71	73	1,637
n.s.	1,521	264	274	60	176	74	40	3	32	29	22	25	522

*Due to changes in the coding of industry, use caution when comparing prior years.

† The ICD-10 codes associated with each category are listed in Appendix 4.

§This category includes those who were never employed.

Table E20
Selected Causes of Death and Years of Potential Life Lost (YPLL)
Before Age 75
Kansas, 2023

CAUSE OF DEATH *	Number of Deaths	Total Years Life Lost	Percent Years Lost By Cause	Rate[†] Years Lost By Cause
Total Deaths	28,869	207,544	100.0	70.6
Heart Disease	6,121	26,619	12.8	9.1
Cancer	5,487	34,050	16.4	11.6
Unintentional Injuries	1,830	40,146	19.3	13.7
Chronic Lower Respiratory Dis.	1,564	5,405	2.6	1.8
Cerebrovascular Disease	1,313	5,321	2.6	1.8
Diabetes mellitus	885	6,339	3.1	2.2
Alzheimer's Disease	832	497	0.2	0.2
Suicide	559	17,435	8.4	5.9
Nephritis and Nephrotic Syndrome	551	2,233	1.1	0.8
Coronavirus 2019	483	2,010	1.0	0.7
Chronic Liver Disease and Cirrhosis	461	6,905	3.3	2.3
Pneumonia and Influenza	413	1,935	0.9	0.7
Homicide	182	7,062	3.4	2.4
Atherosclerosis	67	290	0.1	0.1
All Other Causes	8,121	51,297	24.7	17.4
Male Deaths	14,974	129,185	100.0	87.6
Heart Disease	3,338	18,035	14.0	12.2
Cancer	2,984	17,724	13.7	12.0
Unintentional Injuries	1,141	26,752	20.7	18.1
Chronic Lower Respiratory Dis.	732	2,643	2.0	1.8
Cerebrovascular Disease	618	2,873	2.2	1.9
Diabetes mellitus	505	3,854	3.0	2.6
Suicide	440	13,747	10.6	9.3
Chronic Liver Disease and Cirrhosis	302	4,508	3.5	3.1
Alzheimer's Disease	275	246	0.2	0.2
Nephritis and Nephrotic Syndrome	270	1,240	1.0	0.8
Coronavirus 2019	253	921	0.7	0.6
Pneumonia and Influenza	186	975	0.8	0.7
Homicide	133	5,310	4.1	3.6
Atherosclerosis	35	167	0.1	0.1
All Other Causes	3,762	30,190	23.4	20.5
Female Deaths	13,895	78,359	100.0	53.5
Heart Disease	2,783	8,584	11.0	5.9
Cancer	2,503	16,326	20.8	11.1
Chronic Lower Respiratory Dis.	832	2,762	3.5	1.9
Cerebrovascular Disease	695	2,448	3.1	1.7
Unintentional Injuries	689	13,394	17.1	9.1
Alzheimer's Disease	557	251	0.3	0.2
Diabetes mellitus	380	2,485	3.2	1.7
Nephritis and Nephrotic Syndrome	281	993	1.3	0.7
Coronavirus 2019	230	1,089	1.4	0.7
Pneumonia and Influenza	227	960	1.2	0.7
Chronic Liver Disease and Cirrhosis	159	2,397	3.1	1.6
Suicide	119	3,688	4.7	2.5
Homicide	49	1,752	2.2	1.2
Atherosclerosis	32	123	0.2	0.1
All Other Causes	4,359	21,107	26.9	14.4

* The ICD-10 codes associated with each category are listed in Appendix 4.

[†] Rate per 1,000 population.

Figure E6. Selected Causes of Death by Percent of Total Years of Potential Life Lost, Kansas 2023

Both Sexes

Cause	Percent
Heart Disease	12.8
Cancer	16.4
Cerebr. Disease	2.6
Chronic Low. Resp.	2.6
Unint. Injuries	19.3
Alzheimer's Dis.	0.2
Pneumonia & Influenza	0.9
Diabetes	3.1
Nephritis & Neph.	1.1
Coronavirus 2019	1.0
Suicide	8.4
Liver Dis. & Cirrh.	3.3
Homicide	3.4
All Other Causes	24.7

Males

Cause	Percent
Heart Disease	14.0
Cancer	13.7
Cerebr. Disease	2.2
Chronic Low. Resp.	2.0
Unint. Injuries	20.7
Alzheimer's Dis.	0.2
Pneumonia & Influenza	0.8
Diabetes	3.0
Nephritis & Neph.	1.0
Coronavirus 2019	0.7
Suicide	10.6
Liver Dis. & Cirrh.	3.5
Homicide	4.1
All Other Causes	23.4

Females

Cause	Percent
Heart Disease	11.0
Cancer	20.8
Cerebr. Disease	3.1
Chronic Low. Resp.	3.5
Unint. Injuries	17.1
Alzheimer's Dis.	0.3
Pneumonia & Influenza	1.2
Diabetes	3.2
Nephritis & Neph.	1.3
Coronavirus 2019	1.4
Suicide	4.7
Liver Dis. & Cirrh.	3.1
Homicide	2.2
All Other Causes	26.9

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Table E21

Deaths from 39 Selected Causes, Coronavirus 2019, and *C. difficile* by Number and Percent
and Sex of Decedent Related to Tobacco

Kansas, 2023

Cause of Death * and Sex of Decedent	Total	Did Tobacco Use Contribute to This Death?					
		Yes	Probably	Yes + Probably as % of Known	No	Total Known	Unknown
All Causes	28,869	2,605	1,790	21.6	15,971	20,366	8,503
Male	14,974	1,536	1,123	25.9	7,605	10,264	4,710
Female	13,895	1,069	667	17.2	8,366	10,102	3,793
Tuberculosis	1	1	0		1	0	1
Male	2	0	0		0	0	2
Female	0	0	0	0.0	0	0	0
Syphilis	0	0	0		0	0	0
Male	0	0	0		0	0	0
Female	0	0	0	0.0	0	0	0
HIV/AIDS	21	1	1	15.4	11	13	8
Male	18	1	1	18.2	9	11	7
Female	3	0	0	0.0	2	2	1
Cancer of Stomach	77	4	9	31.0	29	42	35
Male	44	3	5	36.4	14	22	22
Female	33	1	4	25.0	15	20	13
Cancer of Colon, Rectum & Anus	486	21	18	11.6	298	337	149
Male	262	13	11	14.0	148	172	90
Female	224	8	7	9.1	150	165	59
Cancer of Pancreas	425	16	15	10.4	267	298	127
Male	231	12	11	14.6	134	157	74
Female	194	4	4	5.7	133	141	53
Cancer of Trachea, Bronchus & Lung	1,271	500	257	85.0	134	891	380
Male	719	271	152	86.2	68	491	228
Female	552	229	105	83.5	66	400	152
Cancer of Breast	367	9	14	8.8	239	262	105
Male	6	0	0	0.0	3	3	3
Female	361	9	14	8.9	236	259	102
Cancer of Cervix, Corpus & Ovary	257	3	9	6.3	177	189	68
Male	0	0	0	0.0	0	0	0
Female	257	3	9	6.3	177	189	68

Table E21

Deaths from 39 Selected Causes, Coronavirus 2019, and *C. difficile* by Number and Percent
and Sex of Decedent Related to Tobacco
Kansas, 2023

Cause of Death * and Sex of Decedent	Total	Did Tobacco Use Contribute to This Death?					
		Yes	Probably	Yes + Probably as % of Known	No	Total Known	Unknown
Cancer of Prostate	289	6	9	7.5	184	199	90
Male	289	6	9	7.5	184	199	90
Female	0	0	0	0.0	0	0	0
Cancer of Urinary Tract	278	21	30	29.5	122	173	105
Male	204	18	24	34.7	79	121	83
Female	74	3	6	17.3	43	52	22
Non-Hodgkin's Lymphoma	210	9	8	11.6	130	147	63
Male	136	9	7	17.6	75	91	45
Female	74	0	1	1.8	55	56	18
Leukemia	240	5	6	6.4	161	172	68
Male	147	4	4	7.8	94	102	45
Female	93	1	2	4.3	67	70	23
Other Malignant Neoplasms	1,587	123	119	23.1	806	1,048	539
Male	946	86	86	28.4	433	605	341
Female	641	37	33	15.8	373	443	198
Diabetes mellitus	885	77	77	24.0	489	643	242
Male	505	57	55	31.0	249	361	144
Female	380	20	22	14.9	240	282	98
Alzheimer's Disease	832	13	13	4.2	594	620	212
Male	275	2	5	3.5	193	200	75
Female	557	11	8	4.5	401	420	137
Hypertensive Heart Disease	918	69	48	18.7	510	627	291
Male	420	49	24	26.0	208	281	139
Female	498	20	24	12.7	302	346	152
Ischemic Heart Disease	3,199	399	270	30.6	1,519	2,188	1,011
Male	1,980	274	201	36.1	839	1,314	666
Female	1,219	125	69	22.2	680	874	345
Other Heart Disease	2,004	92	91	14.1	1,118	1,301	703
Male	938	52	56	18.6	473	581	357
Female	1,066	40	35	10.4	645	720	346

Table E21

Deaths from 39 Selected Causes, Coronavirus 2019, and *C. difficile* by Number and Percent
and Sex of Decedent Related to Tobacco
Kansas, 2023

Cause of Death * and Sex of Decedent	Total	Did Tobacco Use Contribute to This Death?					
		Yes	Probably	Yes + Probably as % of Known	No	Total Known	Unknown
Prim. Hypertension/ Hypertensive Renal Dis. & Sec. Hypertension	524	21	24	13.2	295	340	184
Male	241	11	20	21.1	116	147	94
Female	283	10	4	7.3	179	193	90
Cerebrovascular Disease	1,313	75	72	17.1	711	858	455
Male	618	52	41	24.0	294	387	231
Female	695	23	31	11.5	417	471	224
Atherosclerosis	67	18	7	52.1	23	48	19
Male	35	11	2	50.0	13	26	9
Female	32	7	5	54.5	10	22	10
Other Disease of Circulatory System	195	36	10	33.8	90	136	59
Male	110	21	7	39.4	43	71	39
Female	85	15	3	27.7	47	65	20
Pneumonia & Influenza	414	15	18	13.5	211	244	170
Male	187	6	11	16.8	84	101	86
Female	227	9	7	11.2	127	143	84
Chronic Lower Respiratory Disease	1,564	702	289	82.6	209	1,200	364
Male	732	352	146	86.3	79	577	155
Female	832	350	143	79.1	130	623	209
Peptic Ulcer	44	3	3	21.4	22	28	16
Male	23	2	3	35.7	9	14	9
Female	21	1	0	7.1	13	14	7
Chonic Liver Disease & Cirrhosis	461	25	28	17.8	245	298	163
Male.	302	18	21	21.0	147	186	116
Female	159	7	7	12.5	98	112	47
Nephritis, Nephrotic Syndrome & Nephrosis	551	20	21	11.6	313	354	197
Male	270	12	17	17.6	136	165	105
Female	281	8	4	6.3	177	189	92
Pregnancy, Childbirth, & the Puerperium	7	0	0	0.0	4	4	3
Male	0	0	0	0.0	0	0	0
Female	7	0	0	0.0	4	4	3

Table E21

Deaths from 39 Selected Causes, Coronavirus 2019, and *C. difficile* by Number and Percent
and Sex of Decedent Related to Tobacco

Kansas, 2023

Cause of Death * and Sex of Decedent	Total	Did Tobacco Use Contribute to This Death?					
		Yes	Probably	Yes + Probably as % of Known	No	Total Known	Unknown
Certain Conditons Originating in the Perinatal Period	90	0	0	0.0	85	85	5
Male	52	0	0	0.0	49	49	3
Female	38	0	0	0.0	36	36	2
Congenital Anomalies	84	0	0	0.0	74	74	10
Male	36	0	0	0.0	32	32	4
Female	48	0	0	0.0	42	42	6
Sudden Infant Death Syndrome	6	0	0	0.0	5	5	1
Male	2	0	0	0.0	1	1	1
Female	4	0	0	0.0	4	4	0
Symptoms and Abnormal Findings	341	7	6	6.4	190	203	138
Male	172	5	3	8.8	83	91	81
Female	169	2	3	4.5	107	112	57
All Other Diseases	6,734	241	264	10.5	4,326	4,831	1,903
Male	3,063	146	168	15.0	1,777	2,091	972
Female	3,671	95	96	7.0	2,549	2,740	931
Motor Vehicle Accidents	402	1	0	0.3	352	353	49
Male	269	0	0	0.0	235	235	34
Female	133	1	0	0.8	117	118	15
All Other Accidents and Adverse Effects	1,428	32	18	4.6	1,038	1,088	340
Male	872	16	8	3.7	625	649	223
Female	556	16	10	5.9	413	439	117
Suicide	559	4	0	0.8	513	517	42
Male	440	2	0	0.5	409	411	29
Female	119	2	0	1.9	104	106	13
Homicide	182	1	0	0.6	168	169	13
Male	133	0	0	0.0	123	123	10
Female	49	1	0	2.2	45	46	3
All Other External Causes	46	0	0	0.0	36	36	10
Male	30	0	0	0.0	22	22	8
Female	16	0	0	0.0	14	14	2

Table E21

Deaths from 39 Selected Causes, Coronavirus 2019, and *C. difficile* by Number and Percent
and Sex of Decedent Related to Tobacco

Kansas, 2023

Cause of Death * and Sex of Decedent	Total	Did Tobacco Use Contribute to This Death?					
		Yes	Probably	Yes + Probably as % of Known	No	Total Known	Unknown
Coronavirus 2019	483	35	34	21.2	256	325	158
Male	253	25	24	29.3	118	167	86
Female	230	10	10	12.7	138	158	72
Clostridium difficile	26	1	2	15.0	17	20	6
Male	12	0	1	12.5	7	8	4
Female	14	1	1	16.7	10	12	2

* The ICD-10 codes associated with each category are listed in Appendix 4.

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Table E22
Deaths from 39 Selected Causes, Coronavirus 2019, and *C. difficile*
by Sex by Age-Group of Decedent
Kansas, 2023

Cause of Death * and Sex of Decedent	Total	Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	n.s.
All Causes	28,869	182	41	65	363	568	823	1,361	3,294	5,840	7,449	8,882	1
Male	14,974	96	18	37	250	396	533	857	1,978	3,374	3,919	3,516	0
Female	13,895	86	23	28	113	172	290	504	1,316	2,466	3,530	5,366	1
Tuberculosis	2	0	0	0	0	0	0	0	0	0	2	0	0
Male	2	0	0	0	0	0	0	0	0	0	2	0	0
Female	0	0	0	0	0	0	0	0	0	0	0	0	0
Syphilis	0	0	0	0	0	0	0	0	0	0	0	0	0
Male	0	0	0	0	0	0	0	0	0	0	0	0	0
Female	0	0	0	0	0	0	0	0	0	0	0	0	0
HIV/AIDS	21	0	0	0	1	4	0	6	4	5	0	1	0
Male	18	0	0	0	1	3	0	5	4	5	0	0	0
Female	3	0	0	0	0	1	0	1	0	0	0	1	0
Cancer of Stomach	77	0	0	0	0	0	0	4	10	30	21	12	0
Male	44	0	0	0	0	0	0	4	5	13	14	8	0
Female	33	0	0	0	0	0	0	0	5	17	7	4	0
Cancer of Colon, Rectum & Anus	486	0	0	0	0	1	15	46	83	129	120	92	0
Male	262	0	0	0	0	1	7	30	47	71	68	38	0
Female	224	0	0	0	0	0	8	16	36	58	52	54	0
Cancer of Pancreas	425	0	0	0	0	0	5	18	73	147	124	58	0
Male	231	0	0	0	0	0	2	8	44	87	66	24	0
Female	194	0	0	0	0	0	3	10	29	60	58	34	0
Cancer of Trachea, Bronchus & Lung	1,271	0	0	0	0	2	5	41	217	456	401	149	0
Male	719	0	0	0	0	2	4	22	118	277	220	76	0
Female	552	0	0	0	0	0	1	19	99	179	181	73	0
Cancer of Breast	367	0	0	0	0	1	12	23	70	86	111	64	0
Male	6	0	0	0	0	0	0	0	1	3	1	1	0
Female	361	0	0	0	0	1	12	23	69	83	110	63	0
Cancer of Cervix, Corpus & Ovary	257	0	0	0	1	8	5	18	46	83	60	36	0
Male	0	0	0	0	0	0	0	0	0	0	0	0	0
Female	257	0	0	0	1	8	5	18	46	83	60	36	0
Cancer of Prostate	289	0	0	0	0	0	1	4	28	65	93	98	0
Male	289	0	0	0	0	0	1	4	28	65	93	98	0
Female	0	0	0	0	0	0	0	0	0	0	0	0	0

Table E22
Deaths from 39 Selected Causes, Coronavirus 2019, and *C. difficile*
by Sex by Age-Group of Decedent
Kansas, 2023

Cause of Death * and Sex of Decedent	Total	Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	n.s.
Cancer of Urinary Tract	278	0	0	1	0	0	2	11	24	83	100	57	0
Male	204	0	0	0	0	0	2	9	20	66	78	29	0
Female	74	0	0	1	0	0	0	2	4	17	22	28	0
Non-Hodgkin's Lymphoma	210	0	0	0	0	1	3	8	17	58	73	50	0
Male	136	0	0	0	0	1	3	5	13	39	48	27	0
Female	74	0	0	0	0	0	0	3	4	19	25	23	0
Leukemia	240	0	1	0	2	6	2	8	12	52	88	69	0
Male	147	0	1	0	1	2	1	3	6	39	52	42	0
Female	93	0	0	0	1	4	1	5	6	13	36	27	0
Other Malignant Neoplasms	1,587	0	3	4	2	18	34	105	285	500	401	235	0
Male	946	0	1	2	1	8	23	58	169	325	235	124	0
Female	641	0	2	2	1	10	11	47	116	175	166	111	0
Diabetes mellitus	885	0	0	1	6	13	17	65	143	211	238	190	1
Male	505	0	0	0	3	8	8	44	93	111	141	97	0
Female	380	0	0	1	3	5	9	21	50	100	97	93	1
Alzheimer's Disease	832	0	0	0	0	0	0	1	15	60	264	492	0
Male	275	0	0	0	0	0	0	0	10	25	100	140	0
Female	557	0	0	0	0	0	0	1	5	35	164	352	0
Hypertensive Heart Disease	918	0	0	0	0	1	20	31	83	125	199	459	0
Male	420	0	0	0	0	1	14	23	57	82	89	154	0
Female	498	0	0	0	0	0	6	8	26	43	110	305	0
Ischemic Heart Disease	3,199	0	0	0	0	7	44	134	412	705	860	1,037	0
Male	1,980	0	0	0	0	5	31	102	290	496	542	514	0
Female	1,219	0	0	0	0	2	13	32	122	209	318	523	0
Other Heart Disease	2,004	4	0	1	4	19	47	54	181	292	481	921	0
Male	938	3	0	1	0	13	25	33	111	164	245	343	0
Female	1,066	1	0	0	4	6	22	21	70	128	236	578	0
Prim. Hypertension/ Hypertensive Renal Dis. & Sec. Hypertension	524	0	0	0	0	0	1	8	44	82	144	245	0
Male	241	0	0	0	0	0	1	8	28	45	73	86	0
Female	283	0	0	0	0	0	0	0	16	37	71	159	0

Table E22
Deaths from 39 Selected Causes, Coronavirus 2019, and *C. difficile*
by Sex by Age-Group of Decedent
Kansas, 2023

Cause of Death * and Sex of Decedent	Total	Age-Group											
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	n.s.
Cerebrovascular Disease	1,313	1	1	1	2	8	21	50	100	258	377	494	0
Male	618	0	0	1	0	3	13	26	63	142	196	174	0
Female	695	1	1	0	2	5	8	24	37	116	181	320	0
Atherosclerosis	67	0	0	0	0	0	0	2	9	18	25	13	0
Male	35	0	0	0	0	0	0	1	6	10	13	5	0
Female	32	0	0	0	0	0	0	1	3	8	12	8	0
Other Disease of Circulatory System	195	0	0	0	0	10	3	9	24	50	51	48	0
Male	110	0	0	0	0	9	3	6	16	32	28	16	0
Female	85	0	0	0	0	1	0	3	8	18	23	32	0
Pneumonia & Influenza	414	0	2	2	0	2	8	14	36	82	116	152	0
Male	187	0	1	1	0	1	3	7	22	40	57	55	0
Female	227	0	1	1	0	1	5	7	14	42	59	97	0
Chronic Lower Respiratory Disease	1,564	0	0	1	3	0	6	18	186	394	539	417	0
Male	732	0	0	1	3	0	5	6	86	188	258	185	0
Female	832	0	0	0	0	0	1	12	100	206	281	232	0
Peptic Ulcer	44	0	0	0	0	1	1	1	8	13	8	12	0
Male	23	0	0	0	0	1	1	0	6	7	4	4	0
Female	21	0	0	0	0	0	0	1	2	6	4	8	0
Chonic Liver Disease & Cirrhosis	461	0	0	0	1	20	46	63	134	122	60	15	0
Male	302	0	0	0	0	12	25	44	97	79	37	8	0
Female	159	0	0	0	1	8	21	19	37	43	23	7	0
Nephritis, Nephrotic Syndrome & Nephrosis	551	0	0	0	0	2	7	22	51	129	165	175	0
Male	270	0	0	0	0	1	4	13	29	62	82	79	0
Female	281	0	0	0	0	1	3	9	22	67	83	96	0
Pregnancy, Childbirth, & the Puerperium	7	0	0	0	1	4	2	0	0	0	0	0	0
Male	0	0	0	0	0	0	0	0	0	0	0	0	0
Female	7	0	0	0	1	4	2	0	0	0	0	0	0
Certain Conditons Originating In the Perinatal Period	90	90	0	0	0	0	0	0	0	0	0	0	0
Male	52	52	0	0	0	0	0	0	0	0	0	0	0
Female	38	38	0	0	0	0	0	0	0	0	0	0	0

Table E22
Deaths from 39 Selected Causes, Coronavirus 2019, and *C. difficile*
by Sex by Age-Group of Decedent
Kansas, 2023

Cause of Death * and Sex of Decedent	Total	Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	n.s.
Congenital Anomalies	84	28	3	4	3	1	6	11	12	6	7	3	0
Male	36	11	2	3	2	0	2	3	7	3	3	0	0
Female	48	17	1	1	1	1	4	8	5	3	4	3	0
Sudden Infant Death Syndrome	6	6	0	0	0	0	0	0	0	0	0	0	0
Male	2	2	0	0	0	0	0	0	0	0	0	0	0
Female	4	4	0	0	0	0	0	0	0	0	0	0	0
Symptoms and Abnormal Findings	341	15	4	1	9	16	19	17	43	55	68	94	0
Male	172	6	1	1	6	12	13	12	22	32	35	32	0
Female	169	9	3	0	3	4	6	5	21	23	33	62	0
All Other Diseases	6,734	14	6	11	27	67	125	222	570	1,148	1,862	2,682	0
Male	3,063	10	5	6	19	43	81	130	334	608	904	923	0
Female	3,671	4	1	5	8	24	44	92	236	540	958	1,759	0
Motor Vehicle Accidents	402	1	7	10	90	51	45	43	54	61	34	6	0
Male	269	1	3	4	57	32	35	32	37	38	27	3	0
Female	133	0	4	6	33	19	10	11	17	23	7	3	0
All Other Accidents and Adverse Effects	1,428	20	6	7	80	145	178	162	183	173	183	291	0
Male	872	10	2	5	55	106	121	112	116	118	103	124	0
Female	556	10	4	2	25	39	57	50	67	55	80	167	0
Suicide	559	0	0	7	80	114	99	99	77	51	25	7	0
Male	440	0	0	4	64	93	74	81	60	39	20	5	0
Female	119	0	0	3	16	21	25	18	17	12	5	2	0
Homicide	182	1	4	9	46	35	33	22	13	12	5	2	0
Male	133	1	1	6	35	31	26	12	10	9	2	0	0
Female	49	0	3	3	11	4	7	10	3	3	3	2	0
All Other External Causes	46	2	2	2	2	8	6	10	11	3	0	0	0
Male	30	0	0	1	1	7	4	9	7	1	0	0	0
Female	16	2	2	1	1	1	2	1	4	2	0	0	0

Table E22
Deaths from 39 Selected Causes, Coronavirus 2019, and *C. difficile*
by Sex by Age-Group of Decedent
Kansas, 2023

Cause of Death * and Sex of Decedent	Total	Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	n.s.
Coronavirus 2019	483	0	2	3	3	3	5	11	34	88	137	197	0
Male	253	0	1	1	2	1	1	5	16	49	78	99	0
Female	230	0	1	2	1	2	4	6	18	39	59	98	0
Clostridium difficile	26	0	0	0	0	0	0	0	2	8	7	9	0
Male	12	0	0	0	0	0	0	0	0	4	5	3	0
Female	14	0	0	0	0	0	0	0	2	4	2	6	0

* The ICD-10 codes associated with each category are listed in Appendix 4.

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Table E23
Deaths by County of Residence and Peer Group*
by Number, Crude† and Age-Adjusted Rate‡
Kansas, 2019-2023

	2019			2020			2021			2022			2023			5-Year	
County of Residence	Number	Crude Rate	Age Adj. Rate	Number	Crude Rate	Age Adj. Rate	Number	Crude Rate	Age Adj. Rate	Number	Crude Rate	Age Adj. Rate	Number	Crude Rate	Age Adj. Rate	Crude Rate	Age Adj. Rate
Kansas	27,312	937.5	755.3	31,667	1,086.8	870.8	31,637	1,078.1	903.5	31,152	1,060.6	862.2	28,869	981.8	802.0	1029.0	838.3
Allen	176	1,422.9	904.6	151	1,217.8	774.7	194	1,556.5	1,054.2	195	1,550.2	1,062.5	184	1,482.4	1,016.8	1,446.4	961.2
Anderson	99	1,259.9	791.8	100	1,258.0	804.6	100	1,285.7	815.6	110	1,414.6	935.6	112	1,428.9	1,057.6	1,329.1	866.9
Atchison	167	1,039.0	781.1	175	1,092.7	819.8	219	1,348.6	1,065.4	168	1,043.0	783.1	190	1,186.3	881.0	1,142.3	865.7
Barber	58	1,310.1	798.5	76	1,743.9	1,036.6	60	1,459.9	937.3	68	1,649.7	1,001.1	54	1,326.5	961.7	1,498.5	931.3
Barton	296	1,148.2	769.2	372	1,449.8	973.8	367	1,455.4	1,033.9	318	1,267.9	867.8	293	1,176.8	816.8	1,299.8	892.5
Bourbon	170	1,169.7	788.8	202	1,399.4	991.4	203	1,417.3	1,069.2	196	1,352.4	994.9	175	1,214.6	941.2	1,310.4	951.6
Brown	145	1,516.1	1,002.9	160	1,687.4	1,153.7	149	1,575.9	1,157.6	138	1,473.7	1,083.7	138	1,491.9	1,067.4	1,549.4	1,090.6
Butler	671	1,002.8	829.2	765	1,141.9	952.0	791	1,165.1	1,006.1	799	1,170.9	978.9	673	980.6	858.4	1,092.2	923.5
Chase	25	944.1	488.7	30	1,160.1	633.9	31	1,193.2	662.7	41	1,609.1	1,022.5	38	1,473.4	882.4	1,273.2	734.1
Chautauqua	48	1,476.9	736.8	46	1,424.1	795.8	64	1,885.1	1,124.1	55	1,610.5	960.1	48	1,434.1	933.0	1,568.8	908.7
Cherokee	308	1,544.7	1,104.7	315	1,600.5	1,161.9	299	1,563.0	1,199.3	285	1,493.1	1,104.2	268	1,406.5	1,068.8	1,522.3	1,129.6
Cheyenne	41	1,543.1	834.4	55	2,115.4	840.1	41	1,557.2	861.2	34	1,316.3	768.9	42	1,593.3	877.8	1,624.8	835.3
Clark	29	1,454.4	889.6	32	1,630.2	909.4	29	1,466.9	846.2	26	1,345.1	800.7	20	1,082.8	592.0	1,400.0	810.0
Clay	93	1,162.2	659.7	115	1,433.0	805.6	112	1,386.7	795.8	124	1,541.7	869.4	113	1,411.3	854.9	1,387.2	796.0
Cloud	134	1,525.2	898.6	148	1,712.6	992.2	156	1,747.3	1,149.5	170	1,900.3	1,233.5	130	1,468.3	1,002.0	1,671.3	1,055.8
Coffey	113	1,381.6	915.1	105	1,287.1	788.9	108	1,295.3	824.0	137	1,654.6	1,071.5	99	1,199.9	743.4	1,363.9	867.4
Comanche	31	1,823.5	1,056.1	32	1,893.5	1,020.0	31	1,856.3	1,078.4	21	1,249.3	733.5	30	1,812.7	1,041.7	1,727.0	994.0
Cowley	487	1,395.1	990.3	487	1,406.4	1,003.5	499	1,446.5	1,105.4	489	1,419.3	1,067.1	455	1,332.1	983.0	1,400.0	1,030.6
Crawford	413	1,063.9	888.1	528	1,363.3	1,137.0	494	1,263.1	1,099.0	475	1,215.5	1,038.3	435	1,122.2	968.6	1,205.7	1,025.6
Decatur	54	1,910.2	728.8	45	1,621.0	769.6	55	1,999.3	975.5	45	1,673.5	865.6	40	1,474.9	779.7	1,737.5	823.9
Dickinson	237	1,283.4	809.1	240	1,313.9	841.6	284	1,538.5	1,079.9	319	1,730.9	1,164.5	267	1,447.5	954.5	1,463.1	969.8
Doniphan	86	1,131.6	796.5	100	1,334.0	877.7	111	1,485.7	1,031.4	93	1,250.0	871.2	81	1,081.0	867.0	1,256.0	888.4
Douglas	704	575.8	603.0	869	709.2	737.0	849	711.3	763.1	860	716.9	749.4	888	736.6	765.9	689.6	721.9
Edwards	38	1,358.1	890.3	52	1,890.9	1,327.3	30	1,059.3	626.6	37	1,350.9	871.1	41	1,500.2	1,002.2	1,429.4	939.1
Elk	32	1,264.8	656.4	38	1,515.8	732.3	49	2,007.4	1,008.5	41	1,679.6	1,029.1	31	1,256.6	740.9	1,542.1	830.1
Ellis	220	770.5	600.3	303	1,056.8	839.2	232	805.8	666.3	265	915.7	796.5	220	763.6	668.3	862.5	713.0
Ellsworth	59	966.9	592.6	106	1,756.7	1,065.9	81	1,278.4	857.4	80	1,258.9	756.6	68	1,069.7	598.9	1,263.5	764.1
Finney	255	699.3	776.4	317	882.6	965.1	324	850.2	950.4	245	650.7	700.8	255	680.6	733.0	752.1	823.1
Ford	267	794.2	825.4	312	942.8	969.3	277	810.9	857.8	278	821.3	877.7	243	715.1	761.6	816.2	857.7
Franklin	286	1,119.6	915.6	307	1,194.4	941.6	336	1,293.0	1,089.3	322	1,238.8	974.2	317	1,213.4	989.0	1,212.2	982.0
Geary	219	691.5	1,012.6	244	757.3	1,061.7	269	748.6	1,088.9	277	776.1	1,089.3	253	721.9	1,007.1	739.9	1,053.3
Gove	41	1,555.4	722.2	53	2,022.1	1,015.3	42	1,524.5	798.0	40	1,472.2	820.9	36	1,316.5	639.6	1,574.6	797.1
Graham	28	1,128.1	537.3	34	1,423.2	817.4	39	1,625.0	837.5	41	1,700.5	778.7	45	1,893.9	1,109.9	1,550.8	815.9
Grant	63	881.1	815.0	65	918.5	830.0	59	805.6	747.3	60	833.7	773.0	56	783.5	730.7	844.1	777.5
Gray	62	1,035.4	792.6	61	1,024.5	778.3	65	1,151.7	986.3	49	855.3	710.3	79	1,375.6	1,073.0	1,087.5	868.9
Greeley	19	1,542.2	1,018.7	16	1,337.8	834.8	15	1,150.3	600.5	23	1,880.6	1,263.2	11	931.4	553.4	1,369.0	840.3
Greenwood	97	1,621.5	938.2	98	1,670.1	943.6	123	2,071.1	1,132.8	106	1,784.8	1,068.9	81	1,379.9	822.5	1,706.2	979.5
Hamilton	24	945.3	911.5	23	948.5	956.4	27	1,087.0	1,072.0	28	1,152.3	1,264.8	15	615.5	710.7	950.1	982.3
Harper	96	1,766.0	1,035.5	108	2,024.0	1,143.4	73	1,369.3	863.4	83	1,559.3	1,003.1	88	1,619.1	1,029.7	1,667.8	1,008.2
Harvey	414	1,202.5	744.1	457	1,332.7	855.4	509	1,505.2	1,048.5	450	1,331.3	848.5	425	1,268.5	799.8	1,327.7	858.5
Haskell	28	705.6	673.4	27	688.2	594.7	33	899.7	774.0	42	1,174.5	885.1	35	964.2	764.5	879.3	735.7
Hodgeman	32	1,783.7	1,148.5	18	1,011.8	609.6	31	1,812.9	1,118.1	25	1,424.5	749.8	29	1,752.3	1,249.3	1,553.0	957.8
Jackson	128	971.8	709.4	149	1,131.3	823.2	151	1,138.7	887.6	173	1,302.1	974.6	155	1,159.5	811.1	1,141.0	842.5
Jefferson	192	1,008.2	705.0	205	1,077.1	748.9	204	1,108.0	842.3	246	1,341.0	959.3	204	1,113.1	751.1	1,128.2	799.2
Jewell	34	1,181.0	493.8	39	1,376.6	627.4	60	2,042.9	904.2	28	966.2	448.0	43	1,510.4	768.6	1,417.3	645.2
Johnson	4252	705.8	620.2	4,712	776.0	674.2	4,813	784.9	714.3	4,794	774.2	666.2	4,631	744.3	639.7	757.2	662.3
Kearny	39	1,016.2	814.0	36	961.3	762.9	47	1,207.9	1,003.5	50	1,297.0	978.0	40	1,046.3	850.7	1,106.9	882.3
Kingman	89	1,244.4	766.7	105	1,505.6	914.7	123	1,664.0	1,070.6	125	1,737.8	1,174.6	97	1,372.8	1,058.2	1,506.6	978.1
Kiowa	23	929.3	595.3	26	1,058.6	698.3	27	1,128.8	771.7	33	1,372.7	856.7	30	1,263.7	756.9	1,148.7	731.4
Labette	292	1,488.4	1,034.9	284	1,450.0	992.6	302	1,516.7	1,055.5	275	1,391.9	956.6	283	1,434.5	1,023.5	1,456.4	1,012.0
Lane	27	1,759.0	1,159.6	29	1,910.4	1,006.0	23	1,469.6	815.5	32	2,056.6	1,125.9	27	1,765.9	1,035.5	1,791.5	1,030.1
Leavenworth	686	839.1	754.9	797	969.0	850.2	792	963.7	880.9	768	926.5	806.3	700	838.1	722.1	907.2	801.7
Lincoln	38	1,282.9	622.3	45	1,507.0	803.4	39	1,343.4	850.2	43	1,483.3	694.2	49	1,678.1	1,028.7	1,458.8	797.2
Linn	115	1,185.2	756.7	141	1,460.5	942.4	163	1,672.3	1,083.3	145	1,480.2	1,032.2	128	1,298.2	865.5	1,419.2	933.3
Logan	27	966.4	680.1	39	1,427.5	780.0	49	1,800.1	1,123.8	46	1,700.6	1,173.2	42	1,576.0	1,058.2	1,490.7	949.2

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Table E23
Deaths by County of Residence and Peer Group*
by Number, Crude† and Age-Adjusted Rate‡
Kansas, 2019-2023

County of Residence	2019 Number	2019 Crude Rate	2019 Age Adj. Rate	2020 Number	2020 Crude Rate	2020 Age Adj. Rate	2021 Number	2021 Crude Rate	2021 Age Adj. Rate	2022 Number	2022 Crude Rate	2022 Age Adj. Rate	2023 Number	2023 Crude Rate	2023 Age Adj. Rate	5-Year Crude Rate	5-Year Age Adj. Rate
Lyon	302	909.8	763.1	362	1,095.5	902.3	320	1,000.1	835.6	331	1,037.7	908.6	304	944.9	838.4	997.5	847.9
McPherson	374	1,310.3	784.4	429	1,508.0	896.8	422	1,399.9	928.0	379	1,262.8	783.1	411	1,365.9	908.3	1,368.5	861.6
Marion	182	1,531.5	824.2	156	1,338.8	765.2	218	1,861.3	1,059.9	166	1,398.7	788.5	154	1,317.4	792.4	1,489.6	843.9
Marshall	144	1,483.5	796.0	143	1,481.6	802.2	128	1,282.7	805.2	142	1,422.6	902.1	122	1,228.2	779.2	1,378.6	817.4
Meade	42	1,041.4	755.2	64	1,588.5	1,073.4	55	1,367.5	879.8	58	1,488.3	1,032.1	39	997.2	703.1	1,297.0	878.0
Miami	300	876.2	672.3	349	1,016.5	764.5	418	1,208.3	941.0	355	1,018.2	751.6	350	990.9	762.8	1,022.2	777.9
Mitchell	96	1,605.6	853.4	94	1,598.9	874.4	96	1,670.1	937.3	81	1,411.6	887.6	92	1,608.7	1,109.7	1,579.3	927.9
Montgomery	407	1,278.7	884.5	482	1,530.1	1,035.2	544	1,746.1	1,243.3	489	1,577.6	1,125.7	444	1,452.5	1,037.9	1,516.2	1,062.7
Morris	77	1,370.1	736.4	94	1,691.9	920.1	76	1,419.0	806.2	90	1,682.6	996.0	66	1,237.3	678.3	1,480.6	823.0
Morton	52	2,010.1	1,257.1	42	1,654.8	990.6	44	1,634.5	1,119.0	29	1,115.8	741.9	16	620.2	413.8	1,408.1	914.2
Nemaha	145	1,417.3	732.4	185	1,827.9	956.6	122	1,194.2	689.8	131	1,295.1	834.2	135	1,334.8	805.9	1,413.5	804.9
Neosho	199	1,243.2	822.8	232	1,456.5	990.6	241	1,526.9	1,075.6	247	1,582.7	1,091.9	205	1,329.4	928.8	1,427.4	980.3
Ness	48	1,745.5	809.9	61	2,203.8	1,054.7	52	1,946.1	1,145.6	42	1,587.9	906.8	39	1,489.7	843.7	1,798.9	954.8
Norton	85	1,585.5	984.2	83	1,557.8	866.6	56	1,048.3	658.9	60	1,131.9	747.5	75	1,407.1	880.5	1,346.5	829.2
Osage	197	1,235.2	808.5	264	1,674.1	1,139.5	226	1,433.3	1,005.5	214	1,367.1	1,011.5	205	1,295.5	925.4	1,400.6	973.8
Osborne	50	1,461.6	728.3	60	1,744.7	964.6	59	1,686.7	829.1	61	1,747.9	929.6	53	1,546.5	713.1	1,638.2	830.7
Ottawa	73	1,279.8	869.4	77	1,348.0	904.6	74	1,267.6	900.9	65	1,121.7	826.4	78	1,340.7	942.6	1,271.3	888.9
Pawnee	81	1,262.9	743.8	96	1,508.0	863.2	82	1,317.3	859.6	93	1,505.1	961.5	80	1,305.9	760.4	1,379.8	837.4
Phillips	78	1,490.3	839.8	72	1,389.7	765.0	75	1,557.6	916.3	71	1,476.4	831.6	72	1,512.3	887.7	1,483.9	840.7
Pottawatomie	174	713.6	634.7	203	821.1	736.8	224	868.6	788.9	198	753.6	681.8	204	773.3	690.5	786.4	704.7
Pratt	116	1,265.8	783.5	143	1,566.8	902.8	128	1,394.2	915.6	115	1,268.3	849.0	104	1,145.1	736.8	1,328.3	837.1
Rawlins	42	1,660.1	795.2	38	1,513.3	805.4	36	1,412.3	693.2	47	1,859.2	905.9	44	1,786.4	908.6	1,645.3	819.7
Reno	746	1,203.3	785.5	868	1,404.7	915.4	825	1,343.3	925.6	927	1,506.9	1,021.3	797	1,296.0	869.6	1,350.7	901.8
Republic	81	1,747.2	872.8	82	1,807.8	866.2	85	1,823.3	956.4	94	2,025.0	902.4	73	1,577.7	834.8	1,796.3	881.2
Rice	127	1,331.7	922.7	123	1,313.8	847.4	143	1,522.9	1,074.5	141	1,498.9	1,009.0	106	1,144.7	862.9	1,363.0	940.8
Riley	374	503.8	646.4	417	569.7	709.9	431	596.9	773.7	413	580.8	750.7	428	599.4	760.3	569.7	726.8
Rooks	74	1,504.1	774.4	63	1,305.2	807.4	73	1,511.1	999.9	60	1,246.6	735.3	68	1,423.2	791.5	1,398.5	818.8
Rush	47	1,548.1	695.1	54	1,832.4	885.4	50	1,693.2	952.7	60	2,049.9	1,243.4	39	1,378.1	780.6	1,701.5	907.9
Russell	100	1,458.6	785.5	148	2,175.2	1,137.0	83	1,238.3	747.5	109	1,641.8	1,006.1	110	1,636.2	944.3	1,630.8	926.3
Saline	593	1,093.6	800.1	656	1,216.5	862.2	734	1,362.1	1,002.7	695	1,296.7	921.2	595	1,120.6	792.7	1,217.9	875.8
Scott	59	1,223.3	801.8	64	1,336.1	911.3	70	1,364.3	933.4	43	857.6	568.4	57	1,158.1	839.4	1,187.2	813.7
Sedgwick	4617	894.7	798.9	5,741	1,104.2	979.8	5,639	1,076.5	989.8	5,624	1,070.2	934.9	5,079	961.1	842.8	1,021.5	909.0
Seward	133	620.7	737.6	159	755.8	828.9	162	744.9	869.8	146	683.6	787.1	137	650.3	757.5	691.1	799.0
Shawnee	1908	1,078.7	791.7	2,291	1,301.7	951.1	2,160	1,211.7	939.1	2,236	1,259.9	955.6	1,946	1,094.8	825.0	1,189.2	892.4
Sheridan	31	1,229.7	651.7	50	1,984.1	1,028.4	39	1,573.8	931.2	43	1,773.2	1,087.4	31	1,279.4	802.6	1,568.7	897.4
Sherman	69	1,166.1	795.3	67	1,159.8	765.6	61	1,034.8	727.5	77	1,320.8	905.6	83	1,420.3	898.4	1,220.0	819.4
Smith	57	1,590.8	677.7	54	1,523.7	755.8	53	1,482.1	661.4	70	1,981.3	977.7	54	1,504.2	689.8	1,615.6	749.4
Stafford	66	1,588.1	916.9	68	1,680.7	1,057.8	77	1,908.8	1,081.1	56	1,402.5	843.6	54	1,381.4	834.1	1,594.0	946.7
Stanton	20	997.0	780.6	23	1,168.1	810.9	18	880.6	606.9	17	866.0	646.4	26	1,367.7	940.3	1,052.3	755.6
Stevens	47	856.9	675.4	56	1,039.3	764.8	53	1,001.3	830.4	61	1,178.7	921.1	39	768.2	554.6	969.0	751.2
Sumner	273	1,195.5	856.1	320	1,417.3	964.5	323	1,442.9	1,036.2	330	1,468.4	1,050.1	280	1,253.7	895.5	1,355.2	961.6
Thomas	94	1,208.7	882.2	82	1,064.7	761.9	72	914.1	661.4	95	1,203.6	909.1	82	1,042.6	803.1	1,086.6	803.7
Trego	38	1,355.7	710.4	47	1,704.1	791.8	45	1,611.2	792.7	26	944.8	558.4	49	1,794.2	1,008.2	1,481.5	768.4
Wabaunsee	70	1,010.0	714.1	66	955.7	656.8	93	1,335.1	912.0	59	840.6	506.3	64	906.9	666.9	1,009.2	687.2
Wallace	13	856.4	599.1	20	1,302.1	748.3	19	1,259.9	890.6	16	1,075.3	558.8	14	927.8	481.5	1,084.8	643.5
Washington	64	1,183.9	612.0	77	1,418.8	704.0	83	1,506.1	784.3	69	1,254.3	730.5	60	1,090.1	678.0	1,290.7	702.4
Wichita	17	802.3	520.2	36	1,735.8	1,208.2	27	1,296.8	921.0	23	1,114.3	762.3	12	576.4	365.7	1,103.5	749.4
Wilson	113	1,325.5	883.5	123	1,470.9	927.9	155	1,818.0	1,172.0	139	1,612.2	1,048.5	151	1,801.5	1,178.1	1,605.5	1,040.8
Woodson	43	1,370.3	845.7	60	1,990.0	1,118.8	58	1,869.8	1,059.6	54	1,736.9	1,099.3	43	1,380.4	785.5	1,666.8	986.4
Wyandotte	1363	823.9	838.6	1,722	1,042.0	1,042.1	1,652	988.9	1,021.9	1,583	955.1	933.6	1,563	945.7	961.5	951.2	958.9
n.s.	4	n/a	n/a	7	n/a	n/a	5	n/a	n/a	6	n/a	n/a	7	n/a	n/a	n/a	n/a
Peer Group																	
Frontier	1,451	1,370.4	770.4	1,609	1,542.8	873.9	1,695	1,543.0	903.8	1,619	1,489.4	881.5	1,485	1,377.3	822.4	1,464.8	848.3
Rural	2,971	1,312.9	807.2	3,265	1,457.1	882.1	3,420	1,406.5	922.4	3,400	1,402.3	923.1	3,114	1,289.7	853.4	1,373.3	880.5
Densely -Settled Rural	4,933	1,066.6	811.8	5,581	1,214.4	921.4	5,261	1,191.2	955.8	5,060	1,149.2	909.6	4,739	1,078.2	857.8	1,139.9	890.2
Semi-Urban	4,423	974.5	791.9	5,073	1,120.6	903.7	5,351	1,173.5	991.6	5,202	1,143.6	936.2	4,717	1,039.1	858.1	1,090.3	895.9
Urban	13,530	812.7	755.1	16,132	964.2	847.1	15,905	944.5	863.0	15,865	938.3	818.4	14,807	872.1	762.7	906.5	801.8

* See Technical Notes for Peer Group definition. Numerator and denominator for 5-year rate based on peer group assignment of counties in effect for the event year.
† Rate per 100,000 population
‡ Rate per 100,000 standard U.S. 2000 population (see Technical Notes)

Figure E7. Age-Adjusted Death Rates
By County of Residence
Kansas, 2023
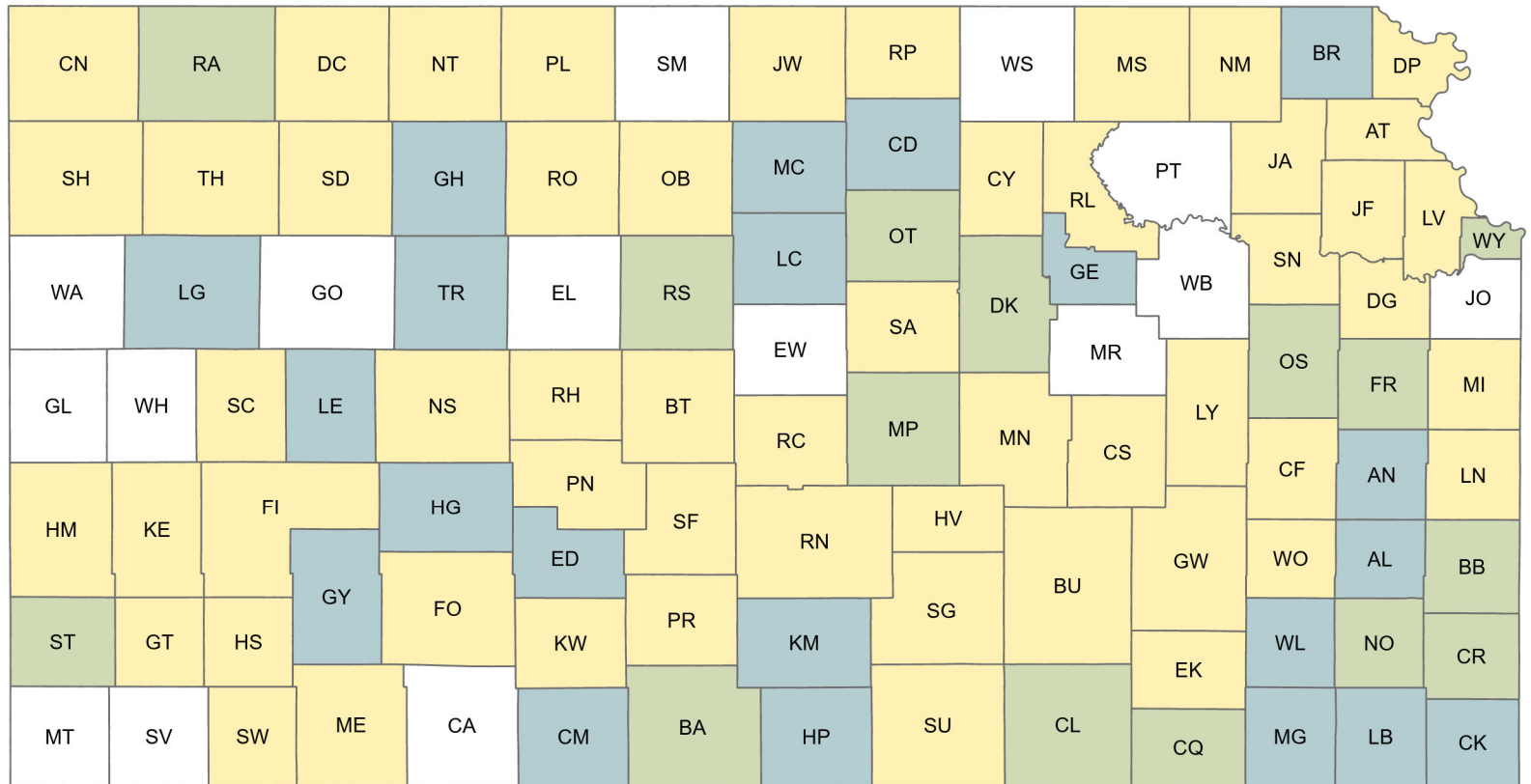
Deaths per 100,000 population, age-adjusted

State Rate 802.0

RATE

	Under 700		700 - 899		900 - 999		1000 and Over

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Table E24
Deaths by County of Residence and Peer Group*
Deaths by County of Residence and Peer Group*
by Age-Group and Average Age at Death
Kansas, 2023

| County of Residence | Total | Age-Group | | | | | | | | | | | | Average Age At Death |
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 and over	n.s.	
Kansas	28,869	182	41	65	363	568	823	1,361	3,294	5,840	7,449	8,882	1	73.9
Allen	184	1	0	0	1	0	7	6	23	41	52	53	0	75.2
Anderson	112	1	0	0	0	3	4	4	7	16	27	50	0	77.4
Atchison	190	0	0	0	2	4	5	5	20	38	47	69	0	76.4
Barber	54	0	1	0	1	0	2	3	3	10	16	18	0	75.2
Barton	293	6	1	0	3	5	8	12	33	68	66	91	0	73.0
Bourbon	175	1	1	0	1	1	6	11	22	35	49	48	0	73.8
Brown	138	2	0	0	2	3	3	3	23	24	37	41	0	73.7
Butler	673	5	2	2	9	6	16	39	71	142	188	193	0	73.6
Chase	38	0	0	0	0	0	1	2	4	10	12	9	0	74.4
Chautauqua	48	1	0	0	0	2	2	2	6	8	14	13	0	72.4
Cherokee	268	1	0	0	3	4	10	12	40	52	81	65	0	72.8
Cheyenne	42	1	0	0	0	1	0	1	6	6	12	15	0	75.5
Clark	20	0	0	0	0	0	0	1	1	4	3	11	0	82.6
Clay	113	2	0	1	2	1	2	5	6	20	32	42	0	75.6
Cloud	130	2	0	1	0	1	4	7	17	30	28	40	0	73.9
Coffey	99	0	1	0	0	0	1	5	13	30	23	26	0	73.6
Comanche	30	1	0	0	0	0	0	1	3	6	10	9	0	76.2
Cowley	455	1	1	0	4	4	17	23	40	96	137	132	0	75.1
Crawford	435	0	0	0	4	10	10	22	49	100	129	111	0	73.9
Decatur	40	0	0	0	0	1	0	2	5	10	11	11	0	74.6
Dickinson	267	0	0	0	3	1	7	12	30	59	72	83	0	75.5
Doniphan	81	3	0	0	0	0	4	10	9	13	22	20	0	70.1
Douglas	888	7	0	3	12	15	24	39	103	150	248	287	0	74.5
Edwards	41	0	0	0	0	1	2	2	8	8	8	12	0	72.0
Elk	31	0	0	0	0	1	0	2	3	6	11	8	0	75.1
Ellis	220	0	0	0	3	3	8	7	21	41	61	76	0	75.9
Ellsworth	68	0	0	0	0	0	4	2	7	13	16	26	0	76.8
Finney	255	3	0	0	7	5	10	17	41	55	63	53	1	69.4
Ford	243	2	3	2	8	6	7	10	30	45	64	66	0	70.6
Franklin	317	1	0	1	4	6	12	16	31	81	75	90	0	73.4
Geary	253	7	0	2	5	10	9	18	28	61	70	43	0	67.3
Gove	36	0	0	0	0	0	0	1	2	7	3	23	0	84.1
Graham	45	0	0	0	0	1	2	4	3	6	11	18	0	76.4
Grant	56	0	1	0	1	0	1	2	11	8	17	15	0	73.0
Gray	79	2	0	0	0	1	2	3	3	17	18	33	0	77.4
Greeley	11	0	0	0	0	0	0	0	2	2	2	5	0	80.2
Greenwood	81	0	0	0	1	0	0	4	14	14	24	24	0	75.5
Hamilton	15	0	0	0	2	1	0	0	1	4	2	5	0	67.9
Harper	88	0	0	0	0	1	1	3	13	21	22	27	0	75.7
Harvey	425	3	0	0	4	6	7	19	33	80	108	165	0	76.7
Haskell	35	1	0	0	3	0	0	1	4	6	5	15	0	72.8
Hodgeman	29	0	0	0	2	1	1	1	2	7	7	8	0	70.5
Jackson	155	0	0	0	2	2	4	1	16	30	47	53	0	77.1
Jefferson	204	0	0	1	1	2	3	7	33	48	62	47	0	73.8
Jewell	43	0	0	0	2	1	0	0	3	10	18	9	0	74.1
Johnson	4,631	27	4	6	33	87	110	164	415	790	1,243	1,752	0	76.8
Kearny	40	1	0	0	4	0	1	1	4	5	12	12	0	70.4
Kingman	97	1	0	0	0	0	1	3	10	19	32	31	0	77.2
Kiowa	30	0	0	0	0	1	0	1	4	7	5	12	0	75.9
Labette	283	2	0	0	5	7	8	14	45	66	74	62	0	71.0
Lane	27	0	0	0	1	0	1	0	3	5	7	10	0	74.7
Leavenworth	700	5	1	4	10	18	28	26	101	160	176	171	0	71.4
Lincoln	49	0	0	0	0	1	3	2	4	6	15	18	0	77.0
Linn	128	2	0	0	3	0	2	7	23	31	31	29	0	71.5
Logan	42	0	0	0	0	0	0	2	6	10	12	12	0	76.6

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Deaths by County of Residence and Peer Group*
Deaths by County of Residence and Peer Group*
by Age-Group and Average Age at Death
Kansas, 2023

County of Residence	Total	Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 and over	n.s.	Average Age At Death
Lyon	304	3	1	0	2	8	10	15	32	53	76	104	0	74.2
McPherson	411	3	0	0	1	8	18	15	33	74	109	150	0	76.1
Marion	154	1	1	1	1	2	3	4	15	29	42	55	0	75.8
Marshall	122	0	1	1	2	2	3	5	15	23	24	46	0	74.4
Meade	39	0	0	0	1	2	0	1	4	4	9	18	0	76.8
Miami	350	1	1	1	2	10	5	13	36	71	102	108	0	74.9
Mitchell	92	0	0	1	1	0	2	6	5	24	27	26	0	75.6
Montgomery	444	0	0	1	5	8	11	25	58	94	124	118	0	73.7
Morris	66	0	0	0	1	0	2	2	9	11	16	25	0	77.1
Morton	16	0	0	0	0	0	0	2	0	5	6	3	0	75.6
Nemaha	135	0	0	0	0	1	3	4	11	14	33	69	0	81.4
Neosho	205	2	0	0	2	2	4	12	26	46	50	61	0	74.2
Ness	39	1	0	0	2	0	0	1	5	6	5	19	0	74.4
Norton	75	0	0	1	0	0	1	4	6	12	21	30	0	78.7
Osage	205	0	0	0	1	2	4	9	37	37	56	59	0	74.6
Osborne	53	0	0	0	0	0	0	0	4	12	13	24	0	82.1
Ottawa	78	0	0	0	2	1	3	3	10	16	22	21	0	73.6
Pawnee	80	0	0	0	1	2	3	2	9	21	19	23	0	74.0
Phillips	72	0	0	0	1	0	2	2	9	15	13	30	0	76.8
Pottawatomie	204	0	0	2	1	2	4	12	18	44	49	72	0	75.9
Pratt	104	0	0	0	1	1	4	4	13	23	18	40	0	76.2
Rawlins	44	0	0	0	0	0	0	3	5	14	5	17	0	77.6
Reno	797	5	0	0	3	14	14	26	102	157	219	257	0	75.4
Republic	73	0	0	1	0	1	1	1	6	13	25	25	0	77.2
Rice	106	0	0	0	0	2	2	8	13	16	35	30	0	75.0
Riley	428	1	2	0	12	8	14	14	33	81	102	161	0	75.2
Rooks	68	0	0	0	0	0	0	2	9	20	14	23	0	77.4
Rush	39	0	1	0	0	0	0	4	5	4	5	20	0	76.9
Russell	110	0	0	1	2	1	1	6	9	24	30	36	0	75.3
Saline	595	3	0	2	4	16	12	27	76	111	166	178	0	74.3
Scott	57	0	0	0	2	0	3	2	5	12	15	18	0	74.2
Sedgwick	5,079	36	5	16	85	145	169	284	639	1,107	1,219	1,374	0	71.8
Seward	137	3	0	1	3	6	6	10	15	30	37	26	0	67.6
Shawnee	1,946	12	5	8	22	43	59	112	227	409	474	575	0	73.0
Sheridan	31	0	0	0	1	0	2	1	6	3	6	12	0	75.1
Sherman	83	0	0	0	0	0	1	2	7	21	26	26	0	78.1
Smith	54	0	0	0	1	0	1	2	3	7	9	31	0	80.6
Stafford	54	0	0	0	1	0	1	1	5	13	16	17	0	76.6
Stanton	26	0	0	0	3	0	0	1	1	6	4	11	0	73.1
Stevens	39	0	0	0	1	0	0	2	7	6	9	14	0	76.6
Sumner	280	1	1	0	0	4	6	10	30	68	79	81	0	75.6
Thomas	82	0	0	0	2	2	3	5	5	14	27	24	0	74.3
Trego	49	0	0	0	0	1	0	2	7	10	13	16	0	76.3
Wabaunsee	64	0	0	0	2	0	4	2	8	10	21	17	0	72.7
Wallace	14	0	0	0	0	0	0	1	0	1	3	9	0	84.3
Washington	60	0	1	0	0	1	1	3	9	13	16	16	0	73.1
Wichita	12	0	0	0	0	1	0	0	0	1	3	7	0	81.6
Wilson	151	1	0	0	2	0	2	7	19	34	38	48	0	75.6
Woodson	43	0	0	0	0	0	1	2	5	18	13	4	0	72.1
Wyandotte	1,563	17	6	5	42	47	77	112	225	343	348	341	0	68.5
n.s.	7	0	0	0	0	1	1	1	0	3	1	0	0	n/a
Peer Group														
Frontier	1,485	5	2	0	23	16	22	57	157	293	365	545	0	76.3
Rural	3,114	16	6	8	31	30	73	127	346	636	818	1,023	0	75.4
Densely -Settled Rural	4,739	31	7	6	53	72	150	220	564	971	1,274	1,390	1	73.8
Semi-Urban	4,717	26	5	9	52	94	110	219	517	978	1,283	1,424	0	74.2
Urban	14,807	104	21	42	204	355	467	737	1,710	2,959	3,708	4,500	0	73.3

* See Technical Notes for Peer Group definition.

Table E25
Deaths by County of Residence and Peer Group*
by Population Group
Kansas, 2023

| County of Residence | Total | Population Group | | | | | | |
		White Non-Hispanic	Black Non-Hispanic	Native American Non-Hispanic	Asian/Pacific Islander Non-Hispanic	Other Non-Hispanic[1]	Hispanic Any Race	n.s.
Kansas	28,869	24,986	1,620	190	300	448	1,224	101
Allen	184	180	1	0	0	0	3	0
Anderson	112	109	0	0	1	1	1	0
Atchison	190	180	9	0	1	0	0	0
Barber	54	53	0	1	0	0	0	0
Barton	293	251	5	1	0	16	20	0
Bourbon	175	164	7	2	1	1	0	0
Brown	138	119	2	13	0	3	1	0
Butler	673	615	6	4	3	32	12	1
Chase	38	36	0	0	0	2	0	0
Chautauqua	48	44	0	3	0	1	0	0
Cherokee	268	259	0	5	1	1	2	0
Cheyenne	42	41	0	0	0	0	1	0
Clark	20	20	0	0	0	0	0	0
Clay	113	109	1	0	0	2	0	1
Cloud	130	126	1	1	0	1	1	0
Coffey	99	95	2	1	0	0	1	0
Comanche	30	28	0	0	0	0	2	0
Cowley	455	396	7	10	6	19	15	2
Crawford	435	411	9	1	2	4	5	3
Decatur	40	39	0	0	0	1	0	0
Dickinson	267	258	3	0	1	1	4	0
Doniphan	81	78	0	1	0	1	1	0
Douglas	888	791	31	15	10	13	26	2
Edwards	41	36	1	0	0	0	4	0
Elk	31	30	0	0	0	1	0	0
Ellis	220	209	2	1	1	0	6	1
Ellsworth	68	60	1	0	1	2	4	0
Finney	255	174	2	1	6	9	62	1
Ford	243	182	4	0	1	0	55	1
Franklin	317	290	4	1	0	10	12	0
Geary	253	198	27	0	6	5	16	1
Gove	36	35	0	0	0	0	0	1
Graham	45	44	1	0	0	0	0	0
Grant	56	35	0	0	0	0	21	0
Gray	79	72	0	0	0	0	7	0
Greeley	11	10	0	0	0	1	0	0
Greenwood	81	76	0	2	0	1	2	0
Hamilton	15	11	0	0	0	1	3	0
Harper	88	86	0	0	0	2	0	0
Harvey	425	403	4	0	2	1	15	0
Haskell	35	30	0	0	0	1	4	0
Hodgeman	29	28	0	0	0	0	1	0
Jackson	155	147	0	6	1	0	1	0
Jefferson	204	194	3	2	0	5	0	0
Jewell	43	43	0	0	0	0	0	0
Johnson	4,631	4,142	184	9	102	44	146	4
Kearny	40	33	0	0	0	0	7	0
Kingman	97	95	0	0	0	1	1	0
Kiowa	30	29	0	0	0	0	1	0
Labette	283	253	14	1	1	11	3	0
Lane	27	27	0	0	0	0	0	0
Leavenworth	700	609	53	6	3	10	17	2
Lincoln	49	47	0	0	1	1	0	0
Linn	128	127	1	0	0	0	0	0
Logan	42	41	0	0	0	0	1	0

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Table E25
Deaths by County of Residence and Peer Group*
by Population Group
Kansas, 2023

County of Residence	Total	White Non-Hispanic	Black Non-Hispanic	Native American Non-Hispanic	Asian/Pacific Islander Non-Hispanic	Other Non-Hispanic[1]	Hispanic Any Race	n.s.
Lyon	304	277	1	0	3	5	17	1
McPherson	411	394	4	1	0	5	7	0
Marion	154	148	2	1	0	0	3	0
Marshall	122	119	1	0	1	1	0	0
Meade	39	35	0	0	0	2	2	0
Miami	350	335	5	1	3	2	3	1
Mitchell	92	89	0	1	0	2	0	0
Montgomery	444	394	30	5	1	8	5	1
Morris	66	65	0	0	0	0	1	0
Morton	16	15	0	0	0	0	1	0
Nemaha	135	132	0	1	0	0	2	0
Neosho	205	196	2	1	1	1	4	0
Ness	39	37	0	0	0	0	2	0
Norton	75	75	0	0	0	0	0	0
Osage	205	202	0	1	1	0	1	0
Osborne	53	53	0	0	0	0	0	0
Ottawa	78	78	0	0	0	0	0	0
Pawnee	80	74	0	1	0	0	5	0
Phillips	72	70	0	0	1	0	1	0
Pottawatomie	204	195	1	0	0	4	4	0
Pratt	104	103	1	0	0	0	0	0
Rawlins	44	44	0	0	0	0	0	0
Reno	797	711	17	5	0	25	37	2
Republic	73	72	0	0	0	1	0	0
Rice	106	101	1	0	0	1	3	0
Riley	428	395	18	0	3	5	7	0
Rooks	68	68	0	0	0	0	0	0
Rush	39	37	0	0	0	2	0	0
Russell	110	108	1	0	0	0	1	0
Saline	595	553	12	3	2	6	19	0
Scott	57	54	0	1	0	1	1	0
Sedgwick	5,079	3,993	516	39	95	107	259	70
Seward	137	85	7	0	1	1	43	0
Shawnee	1,946	1,608	162	27	6	35	107	1
Sheridan	31	30	0	0	0	1	0	0
Sherman	83	79	0	0	0	0	3	1
Smith	54	54	0	0	0	0	0	0
Stafford	54	50	1	0	0	0	3	0
Stanton	26	21	0	0	0	0	5	0
Stevens	39	31	0	0	0	1	7	0
Sumner	280	264	1	5	1	4	5	0
Thomas	82	80	0	0	0	0	2	0
Trego	49	49	0	0	0	0	0	0
Wabaunsee	64	61	0	1	0	0	2	0
Wallace	14	14	0	0	0	0	0	0
Washington	60	60	0	0	0	0	0	0
Wichita	12	12	0	0	0	0	0	0
Wilson	151	148	0	2	0	0	1	0
Woodson	43	43	0	0	0	0	0	0
Wyandotte	1,563	873	452	7	30	23	174	4
n.s.	7	4	0	0	0	0	3	0
Peer Group								
Frontier	1,485	1,419	3	6	2	14	39	2
Rural	3,114	2,968	15	28	4	24	74	1
Densely -Settled Rural	4,739	4,274	72	33	26	80	248	6
Semi-Urban	4,717	4,305	132	20	22	98	131	9
Urban	14,807	12,016	1,398	103	246	232	729	83

* See Technical Notes for Peer Group definition.
† Includes selection of two or more races or other non-specified race

Table E26
Deaths by County of Residence and Peer Group *
by Number and Percent Related to Tobacco
Kansas, 2023

| County of Residence | Did Tobacco Use Contribute to this death? | | | | Total Deaths | Yes + Probably as Percent of Known |
	Yes	Probably	No	Unknown		
Kansas	2,605	1,790	15,971	8,503	28,869	21.6
Allen	16	20	101	47	184	26.3
Anderson	15	8	67	22	112	25.6
Atchison	24	15	113	38	190	25.7
Barber	2	4	42	6	54	12.5
Barton	18	26	179	70	293	19.7
Bourbon	17	10	110	38	175	19.7
Brown	18	14	65	41	138	33.0
Butler	49	38	318	268	673	21.5
Chase	9	2	18	9	38	37.9
Chautauqua	2	1	24	21	48	11.1
Cherokee	18	19	110	121	268	25.2
Cheyenne	3	2	25	12	42	16.7
Clark	2	2	11	5	20	26.7
Clay	9	14	64	26	113	26.4
Cloud	15	8	78	29	130	22.8
Coffey	15	7	54	23	99	28.9
Comanche	7	1	17	5	30	32.0
Cowley	61	25	229	140	455	27.3
Crawford	48	35	221	131	435	27.3
Decatur	4	0	30	6	40	11.8
Dickinson	45	16	145	61	267	29.6
Doniphan	14	5	35	27	81	35.2
Douglas	73	60	570	185	888	18.9
Edwards	0	4	26	11	41	13.3
Elk	2	1	18	10	31	14.3
Ellis	17	12	129	62	220	18.4
Ellsworth	5	3	41	19	68	16.3
Finney	18	13	175	49	255	15.0
Ford	19	9	138	77	243	16.9
Franklin	34	24	162	97	317	26.4
Geary	36	21	121	75	253	32.0
Gove	5	1	24	6	36	20.0
Graham	1	10	26	8	45	29.7
Grant	3	6	30	17	56	23.1
Gray	3	4	48	24	79	12.7
Greeley	2	2	6	1	11	40.0
Greenwood	9	2	41	29	81	21.2
Hamilton	1	1	12	1	15	14.3
Harper	13	4	43	28	88	28.3
Harvey	36	16	272	101	425	16.0
Haskell	2	2	25	6	35	13.8
Hodgeman	3	0	14	12	29	17.6
Jackson	11	13	97	34	155	19.8
Jefferson	34	29	94	47	204	40.1
Jewell	11	2	19	11	43	40.6
Johnson	252	195	2,683	1,501	4,631	14.3
Kearny	2	0	34	4	40	5.6
Kingman	8	5	50	34	97	20.6
Kiowa	6	2	18	4	30	30.8
Labette	51	29	135	68	283	37.2
Lane	2	1	14	10	27	17.6
Leavenworth	56	61	359	224	700	24.6
Lincoln	3	4	20	22	49	25.9
Linn	15	12	61	40	128	30.7
Logan	9	3	20	10	42	37.5

Table E26
Deaths by County of Residence and Peer Group *
by Number and Percent Related to Tobacco
Kansas, 2023

County of Residence	Did Tobacco Use Contribute to this death?				Total Deaths	Yes + Probably as Percent of Known
	Yes	Probably	No	Unknown		
Lyon	41	21	194	48	304	24.2
McPherson	34	14	301	62	411	13.8
Marion	16	16	86	36	154	27.1
Marshall	12	9	78	23	122	21.2
Meade	5	0	21	13	39	19.2
Miami	40	22	195	93	350	24.1
Mitchell	16	3	55	18	92	25.7
Montgomery	66	25	209	144	444	30.3
Morris	15	7	32	12	66	40.7
Morton	3	1	5	7	16	44.4
Nemaha	11	7	90	27	135	16.7
Neosho	20	9	134	42	205	17.8
Ness	2	2	26	9	39	13.3
Norton	6	9	41	19	75	26.8
Osage	26	13	70	96	205	35.8
Osborne	3	6	36	8	53	20.0
Ottawa	5	7	42	24	78	22.2
Pawnee	8	9	33	30	80	34.0
Phillips	11	5	46	10	72	25.8
Pottawatomie	27	17	125	35	204	26.0
Pratt	14	7	67	16	104	23.9
Rawlins	6	3	23	12	44	28.1
Reno	58	37	393	309	797	19.5
Republic	11	4	45	13	73	25.0
Rice	16	10	52	28	106	33.3
Riley	28	32	270	98	428	18.2
Rooks	10	2	44	12	68	21.4
Rush	3	2	7	27	39	41.7
Russell	5	8	78	19	110	14.3
Saline	81	39	343	132	595	25.9
Scott	10	4	37	6	57	27.5
Sedgwick	384	331	2,628	1,736	5,079	21.4
Seward	6	4	90	37	137	10.0
Shawnee	219	117	1,008	602	1,946	25.0
Sheridan	4	3	15	9	31	31.8
Sherman	14	4	53	12	83	25.4
Smith.	4	3	42	5	54	14.3
Stafford	1	5	32	16	54	15.8
Stanton	5	1	15	5	26	28.6
Stevens	8	1	27	3	39	25.0
Sumner	28	10	177	65	280	17.7
Thomas	7	4	35	36	82	23.9
Trego	7	5	27	10	49	30.8
Wabaunsee	14	3	28	19	64	37.8
Wallace	1	1	9	3	14	18.2
Washington	4	1	38	17	60	11.6
Wichita	2	0	10	0	12	16.7
Wilson	11	9	93	38	151	17.7
Woodson	5	7	19	12	43	38.7
Wyandotte	119	108	862	474	1,563	20.8
n.s.	0	0	4	3	7	n/a
Peer Group						
Frontier	164	99	885	471	1,619	22.9
Rural	380	227	1,948	845	3,400	23.8
Densely -Settled Rural	550	347	2,713	1,450	5,060	24.8
Semi-Urban	539	340	2,726	1,597	5,202	24.4
Urban	1,248	945	8,805	4,867	15,865	19.9

* See Technical Notes for Peer Group definition.

Table E27
Selected Causes of Death by County of Residence and Peer Group
Kansas, 2023

County of Residence	All Causes	Tuber-culosis	Residual Infect. & Para-sitic Dis.	All Malignant Neoplasms	Malignant Neoplasms of Digestive Organs	Malignant Neoplasms of Respiratory and Intrathoracic Organs	Malignant Neoplasm of Breast	Malignant Neoplasms of Genital Organs	Malignant Neoplasms of Urinary Tract
Kansas	28,869	2	537	5,487	1,451	1,306	367	570	278
Allen	184	0	1	33	6	13	2	2	2
Anderson	112	0	0	18	4	5	0	4	1
Atchison	190	0	1	33	8	8	1	5	0
Barber	54	0	0	9	1	0	0	0	3
Barton	293	0	5	59	14	12	3	5	2
Bourbon	175	0	5	32	5	5	1	12	0
Brown	138	0	4	27	10	6	0	2	2
Butler	673	0	13	127	32	32	9	11	8
Chase	38	0	2	4	1	0	0	0	0
Chautauqua	48	0	2	5	0	2	2	0	0
Cherokee	268	0	1	58	14	19	2	3	2
Cheyenne	42	0	0	11	2	1	1	0	0
Clark	20	0	0	4	1	1	0	1	0
Clay	113	0	3	15	4	6	1	1	1
Cloud	130	0	1	31	8	1	1	5	0
Coffey	99	0	1	25	3	6	3	5	3
Comanche	30	0	1	9	3	1	1	1	1
Cowley	455	0	9	87	21	20	4	5	6
Crawford	435	0	11	97	24	28	4	8	4
Decatur	40	0	2	7	4	2	0	1	0
Dickinson	267	0	4	65	14	16	4	6	6
Doniphan	81	0	1	20	4	5	1	1	0
Douglas	888	0	28	176	59	45	10	18	8
Edwards	41	0	0	7	2	2	1	0	0
Elk	31	0	1	9	3	2	0	1	0
Ellis	220	0	7	47	7	11	4	1	2
Ellsworth	68	0	1	10	3	0	1	3	0
Finney	255	0	5	51	11	7	4	8	4
Ford	243	0	0	45	15	6	6	4	1
Franklin	317	0	9	62	22	13	10	5	3
Geary	253	0	8	39	14	14	4	0	2
Gove	36	0	1	7	2	2	0	0	0
Graham	45	0	1	9	2	2	2	0	0
Grant	56	0	2	14	4	5	1	1	1
Gray	79	0	2	10	4	2	2	1	0
Greeley	11	0	0	2	1	0	0	1	0
Greenwood	81	0	2	17	3	3	1	1	0
Hamilton	15	0	0	2	1	0	1	0	0
Harper	88	0	5	17	4	3	2	1	2
Harvey	425	1	8	62	17	13	5	4	6
Haskell	35	0	4	4	0	0	1	1	0
Hodgeman	29	0	0	6	2	2	0	1	0
Jackson	155	0	2	32	16	9	1	0	0
Jefferson	204	0	5	49	9	19	5	3	1
Jewell	43	0	1	15	5	1	0	3	1
Johnson	4,631	0	77	873	237	156	60	120	33
Kearny	40	0	0	8	2	2	1	2	0
Kingman	97	0	1	19	6	4	1	3	0
Kiowa	30	0	0	7	0	1	0	1	2
Labette	283	0	5	66	16	23	6	2	3
Lane	27	0	0	1	0	0	0	0	1
Leavenworth	700	0	7	158	48	37	7	14	7
Lincoln	49	0	0	7	2	2	0	1	1
Linn	128	0	4	24	8	4	4	1	1
Logan	42	0	2	4	0	3	0	0	0

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Table E27
Selected Causes of Death by County of Residence and Peer Group
Kansas, 2023

County of Residence	All Causes	Tuber-culosis	Residual Infect. & Para-sitic Dis.	All Malignant Neoplasms	Malignant Neoplasms of Digestive Organs	Malignant Neoplasms of Respiratory and Intrathoracic Organs	Malignant Neoplasm of Breast	Malignant Neoplasms of Genital Organs	Malignant Neoplasms of Urinary Tract
Lyon	304	0	8	54	12	11	4	5	5
McPherson	411	0	8	72	19	13	4	4	9
Marion	154	0	3	34	6	8	2	4	8
Marshall	122	0	1	30	9	8	1	4	0
Meade	39	0	0	7	3	2	0	1	0
Miami	350	0	4	74	18	27	0	8	1
Mitchell	92	0	3	15	3	4	2	3	0
Montgomery	444	0	8	66	16	18	4	4	5
Morris	66	0	0	17	3	4	1	2	2
Morton	16	0	0	5	0	1	1	1	0
Nemaha	135	0	2	26	8	6	1	3	0
Neosho	205	0	4	35	8	8	1	8	3
Ness	39	0	2	9	2	1	1	2	1
Norton	75	0	0	15	8	2	1	1	1
Osage	205	0	2	36	11	9	5	4	3
Osborne	53	0	1	8	1	3	0	0	0
Ottawa	78	0	0	15	5	6	2	1	0
Pawnee	80	0	3	10	2	5	0	1	0
Phillips	72	0	2	12	4	2	0	1	0
Pottawatomie	204	0	6	39	8	12	2	3	5
Pratt	104	0	2	22	8	3	1	3	0
Rawlins	44	0	0	9	3	0	1	1	1
Reno	797	0	13	169	41	42	15	18	6
Republic	73	0	1	15	3	5	0	2	0
Rice	106	0	3	10	4	2	1	1	0
Riley	428	0	14	86	18	19	6	7	5
Rooks	68	0	2	13	4	3	1	2	0
Rush	39	0	1	7	3	2	0	1	0
Russell	110	0	1	19	6	3	1	2	0
Saline	595	0	7	109	27	24	11	13	10
Scott	57	0	2	6	3	1	0	1	0
Sedgwick	5,079	0	81	944	235	243	57	95	53
Seward	137	0	4	25	8	6	2	2	0
Shawnee	1,946	1	35	352	99	89	27	34	15
Sheridan	31	0	1	4	1	3	0	0	0
Sherman	83	0	1	22	7	2	0	3	2
Smith	54	0	1	6	2	1	1	0	0
Stafford	54	0	2	9	2	1	0	2	1
Stanton	26	0	3	5	0	3	1	0	0
Stevens	39	0	0	8	3	0	1	3	0
Sumner	280	0	11	52	15	13	5	6	1
Thomas	82	0	4	13	5	2	1	0	0
Trego	49	0	3	13	4	1	2	1	0
Wabaunsee	64	0	2	22	6	6	1	1	1
Wallace	14	0	0	2	0	1	0	1	0
Washington	60	0	1	11	2	0	1	1	2
Wichita	12	0	0	2	0	0	1	0	0
Wilson	151	0	2	26	5	10	0	1	2
Woodson	43	0	0	6	3	1	0	0	1
Wyandotte	1,563	0	28	286	80	88	18	30	15
n.s.	7	0	0	0	0	0	0	0	0
Peer Group									
Frontier	1,485	0	34	283	73	55	19	30	14
Rural	3,114	0	69	586	165	131	39	68	29
Densely -Settled Rural	4,739	0	83	938	226	232	62	83	54
Semi-Urban	4,717	1	95	891	229	230	68	78	50
Urban	14,807	1	256	2,789	758	658	179	311	131

* The ICD-10 codes associated with each category are listed in Appendix 4.

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Table E27
Selected Causes of Death by County of Residence and Peer Group
Kansas, 2023

County of Residence	Leukemia	Other Malignant Neoplasms	Diabetes mellitus	Alzheimer's Disease	Major Cardio-vascular Diseases	Diseases of Heart	Rheumatic Fever and Rheumatic Heart Diseases	Hyperten-sive Heart Disease w, w/out Renal Disease	Ischemic Heart Diseases	Other Heart Diseases
Kansas	240	1,275	885	832	8,220	6,121	39	918	3,199	1,965
Allen	3	5	4	2	58	44	0	7	24	13
Anderson	0	4	1	5	41	27	1	3	11	12
Atchison	1	10	6	10	57	49	0	6	23	20
Barber	1	4	2	1	17	13	0	2	7	4
Barton	1	22	7	12	86	71	0	6	29	36
Bourbon	1	8	8	6	40	30	0	3	13	14
Brown	1	6	6	4	47	34	0	4	19	11
Butler	3	32	11	10	179	149	1	20	78	50
Chase	0	3	1	2	9	9	0	4	4	1
Chautauqua	0	1	3	0	12	9	0	3	5	1
Cherokee	5	13	3	9	91	53	0	8	26	19
Cheyenne	1	6	1	0	11	9	0	0	5	4
Clark	0	1	1	1	7	4	0	1	2	1
Clay	0	2	4	7	21	18	0	2	11	5
Cloud	0	16	1	2	38	26	1	1	16	8
Coffey	1	4	4	7	33	28	0	0	22	6
Comanche	1	1	0	2	6	4	0	0	4	0
Cowley	3	28	19	23	124	85	2	10	38	35
Crawford	8	21	15	7	122	94	1	11	50	32
Decatur	0	0	3	0	14	9	0	0	6	3
Dickinson	3	16	16	3	68	31	0	5	13	13
Doniphan	1	8	5	3	17	11	0	1	5	5
Douglas	3	33	22	30	226	165	4	20	85	56
Edwards	1	1	3	0	12	9	0	0	8	1
Elk	2	1	0	0	9	7	0	0	1	6
Ellis	5	17	6	6	57	48	0	4	25	19
Ellsworth	3	0	3	0	25	21	0	5	9	7
Finney	4	13	13	4	60	42	0	1	27	14
Ford	2	11	16	6	70	56	0	4	33	19
Franklin	1	8	6	11	92	69	1	5	42	21
Geary	1	4	3	5	95	73	1	7	46	19
Gove	0	3	1	2	9	8	0	2	3	3
Graham	0	3	0	1	12	8	0	0	4	4
Grant	1	1	2	1	17	14	0	1	8	5
Gray	0	1	2	1	34	25	0	0	16	9
Greeley	0	0	0	0	5	3	0	1	2	0
Greenwood	3	6	2	3	26	23	0	5	11	7
Hamilton	0	0	1	1	0	0	0	0	0	0
Harper	0	5	4	1	23	17	0	3	10	4
Harvey	1	16	23	10	142	115	2	24	56	33
Haskell	0	2	0	1	10	9	0	1	6	2
Hodgeman	0	1	1	0	8	7	0	0	4	3
Jackson	1	5	3	4	50	45	0	9	26	10
Jefferson	3	9	6	10	58	49	0	8	29	12
Jewell	0	5	1	0	11	8	0	0	6	2
Johnson	47	220	90	189	1,350	917	13	131	467	306
Kearny	0	1	2	3	11	7	0	0	2	5
Kingman	1	4	1	3	31	26	0	6	10	10
Kiowa	0	3	1	1	9	7	0	1	3	3
Labette	4	12	6	7	84	71	0	9	42	20
Lane	0	0	1	0	11	11	0	2	2	7
Leavenworth	7	38	22	24	211	155	0	35	77	43
Lincoln	0	1	2	6	12	11	0	0	6	5
Linn	2	4	4	2	45	29	0	3	11	15
Logan	0	1	0	0	17	15	0	6	5	4

Table E27
Selected Causes of Death by County of Residence and Peer Group
Kansas, 2023

County of Residence	Leukemia	Other Malignant Neoplasms	Diabetes mellitus	Alzheimer's Disease	Major Cardio-vascular Diseases	Diseases of Heart	Rheumatic Fever and Rheumatic Heart Diseases	Hyperten-sive Heart Disease w, w/out Renal Disease	Ischemic Heart Diseases	Other Heart Diseases
Lyon	4	13	21	14	89	64	0	11	36	17
McPherson	8	15	10	14	130	103	0	13	58	32
Marion	0	6	8	2	48	38	0	5	25	8
Marshall	3	5	7	4	27	23	0	3	11	9
Meade	0	1	1	1	7	4	0	1	2	1
Miami	1	19	7	8	112	62	0	12	31	19
Mitchell	0	3	5	0	29	19	0	1	9	9
Montgomery	7	12	22	11	141	107	0	13	57	37
Morris	2	3	3	0	15	11	0	2	6	3
Morton	0	2	1	1	2	2	0	0	2	0
Nemaha	1	7	4	1	41	28	0	3	13	12
Neosho	1	6	2	4	64	51	0	4	19	28
Ness	1	1	1	1	7	5	0	1	3	1
Norton	0	2	4	0	21	17	0	1	11	5
Osage	2	2	6	10	66	60	0	7	35	18
Osborne	0	4	1	1	21	13	0	1	10	2
Ottawa	0	1	7	0	18	11	0	1	4	6
Pawnee	1	1	1	4	20	17	0	2	8	7
Phillips	1	4	3	1	17	16	0	1	9	6
Pottawatomie	2	7	8	1	59	52	1	9	30	12
Pratt	0	7	3	2	30	23	0	2	13	8
Rawlins	2	1	2	0	12	7	0	2	2	3
Reno	7	40	29	23	193	161	0	22	87	52
Republic	1	4	0	2	13	10	0	1	6	3
Rice	1	1	5	7	27	20	0	3	10	7
Riley	6	25	15	21	105	73	0	11	37	25
Rooks	0	3	6	0	22	16	0	0	12	4
Rush	0	1	0	1	16	14	0	0	4	10
Russell	0	7	4	1	34	25	0	3	10	12
Saline	2	22	25	31	132	84	0	8	36	40
Scott	0	1	0	1	13	12	0	1	4	7
Sedgwick	33	228	145	98	1,465	1,131	4	162	627	338
Seward	1	6	9	3	31	22	0	3	10	9
Shawnee	15	73	62	59	547	408	2	89	214	103
Sheridan	0	0	2	1	7	6	0	2	4	0
Sherman	1	7	2	2	21	19	0	5	5	9
Smith	0	2	1	0	20	15	0	3	7	5
Stafford	1	2	1	4	11	9	0	1	6	2
Stanton	0	1	0	4	6	6	0	0	5	1
Stevens	1	0	5	2	8	4	0	0	2	2
Sumner	3	9	15	3	86	72	0	20	37	15
Thomas	0	5	2	0	29	19	0	2	8	9
Trego	1	4	0	0	7	4	0	0	2	2
Wabaunsee	1	6	1	1	19	12	0	5	6	1
Wallace	0	0	0	0	5	3	0	3	0	0
Washington	0	5	4	2	18	10	0	0	7	3
Wichita	0	1	0	0	1	1	0	0	1	0
Wilson	1	7	5	3	40	32	0	3	16	13
Woodson	0	1	2	1	17	8	0	0	7	1
Wyandotte	3	52	50	34	420	314	5	86	142	81
n.s.	0	0	0	0	1	1	0	0	0	1
Peer Group										
Frontier	16	76	47	40	410	321	0	47	164	110
Rural	24	130	117	70	918	685	2	87	362	234
Densely -Settled Rural	55	226	174	151	1,359	1,037	3	128	541	365
Semi-Urban	37	199	156	137	1,313	987	6	133	520	328
Urban	108	644	391	434	4,219	3,090	28	523	1,612	927

* The ICD-10 codes associat* The ICD-10 codes associated with each category are listed in Appendix 4.

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Table E27
Selected Causes of Death by County of Residence and Peer Group
Kansas, 2023

County of Residence	Primary Hypertension/ Hypertensive Renal Disease & Secondary Hypertension	Cerebro-vascular Diseases	Athero-sclerosis	Other Diseases of Arter-ies, Arterioles and Capillaries	Pneumonia and Influenza	Chronic Lower Respiratory Diseases	Peptic Ulcer	Chronic Liver Disease and Cirrhosis	Nephritis, Nephrotic Syndr. and Nephrosis
Kansas	524	1,313	67	195	414	1,564	44	461	551
Allen	0	9	5	0	4	16	1	3	4
Anderson	5	9	0	0	1	11	0	1	3
Atchison	1	6	0	1	5	17	1	1	2
Barber	1	3	0	0	0	2	0	1	0
Barton	4	9	0	2	6	10	0	5	2
Bourbon	3	6	0	1	5	14	0	4	4
Brown	3	10	0	0	3	12	0	1	1
Butler	5	24	0	1	7	36	0	8	13
Chase	0	0	0	0	0	5	0	2	0
Chautauqua	1	2	0	0	2	3	0	0	1
Cherokee	17	20	0	1	2	20	0	2	7
Cheyenne	1	0	0	1	0	2	0	0	0
Clark	0	3	0	0	0	1	0	0	1
Clay	0	3	0	0	1	10	0	2	2
Cloud	1	8	0	3	5	8	0	2	3
Coffey	0	4	1	0	2	4	0	0	0
Comanche	0	1	0	1	0	3	0	0	1
Cowley	9	27	1	2	5	29	1	10	10
Crawford	9	13	2	4	14	22	0	9	3
Decatur	0	2	3	0	1	0	0	0	2
Dickinson	6	12	16	3	3	16	0	4	2
Doniphan	1	4	0	1	1	4	0	1	1
Douglas	14	43	0	4	12	41	2	20	10
Edwards	0	2	0	1	0	2	0	1	4
Elk	0	2	0	0	1	1	0	0	0
Ellis	0	8	0	1	4	10	1	5	3
Ellsworth	1	3	0	0	4	2	1	1	2
Finney	4	10	1	3	0	16	0	6	1
Ford	2	7	2	3	5	3	1	5	6
Franklin	8	14	0	1	2	17	0	6	7
Geary	4	15	1	2	6	13	1	5	4
Gove	0	1	0	0	0	3	0	0	0
Graham	1	3	0	0	2	2	0	1	1
Grant	0	3	0	0	0	4	0	1	0
Gray	1	8	0	0	2	0	0	0	1
Greeley	0	2	0	0	0	0	0	0	1
Greenwood	1	2	0	0	2	6	0	0	5
Hamilton	0	0	0	0	0	1	0	0	0
Harper	0	5	1	0	1	4	0	0	0
Harvey	8	16	0	3	6	17	1	7	7
Haskell	1	0	0	0	0	3	0	0	0
Hodgeman	0	1	0	0	1	3	0	0	0
Jackson	1	4	0	0	2	10	0	2	3
Jefferson	0	7	0	2	3	19	0	2	4
Jewell	0	1	0	2	0	7	0	0	0
Johnson	151	247	4	31	67	173	4	54	86
Kearny	0	4	0	0	0	1	0	2	0
Kingman	1	3	0	1	0	10	0	2	2
Kiowa	0	1	0	1	0	0	0	0	1
Labette	4	7	0	2	3	16	0	4	7
Lane	0	0	0	0	0	3	0	0	0
Leavenworth	26	24	0	6	9	51	0	11	12
Lincoln	0	1	0	0	3	4	0	1	0
Linn	3	13	0	0	0	11	0	1	2
Logan	1	1	0	0	1	6	0	2	1

Table E27
Selected Causes of Death by County of Residence and Peer Group
Kansas, 2023

County of Residence	Primary Hypertension/ Hypertensive Renal Disease & Secondary Hypertension	Cerebro-vascular Diseases	Athero-sclerosis	Other Diseases of Arter-ies, Arterioles and Capillaries	Pneumonia and Influenza	Chronic Lower Respiratory Diseases	Peptic Ulcer	Chronic Liver Disease and Cirrhosis	Nephritis, Nephrotic Syndr. and Nephrosis
Lyon	7	14	0	4	4	17	2	6	6
McPherson	7	20	0	0	6	23	0	7	12
Marion	4	3	2	1	4	8	1	2	4
Marshall	0	3	0	1	4	7	0	2	5
Meade	0	2	0	1	1	3	0	0	2
Miami	31	18	1	0	2	25	2	2	3
Mitchell	2	8	0	0	1	8	0	1	3
Montgomery	1	22	3	8	9	26	0	12	13
Morris	1	3	0	0	1	6	0	0	1
Morton	0	0	0	0	0	2	0	1	0
Nemaha	4	7	0	2	2	11	0	0	1
Neosho	1	10	1	1	6	11	1	1	7
Ness	2	0	0	0	0	0	0	0	0
Norton	1	3	0	0	3	6	0	0	3
Osage	1	5	0	0	3	11	0	4	3
Osborne	3	5	0	0	1	0	0	1	2
Ottawa	4	1	0	2	1	3	0	2	3
Pawnee	0	3	0	0	1	8	0	0	2
Phillips	1	0	0	0	3	7	0	1	0
Pottawatomie	0	7	0	0	4	12	1	3	2
Pratt	2	4	0	1	0	3	0	1	1
Rawlins	2	2	1	0	0	3	0	0	2
Reno	3	23	0	6	15	46	2	16	21
Republic	0	2	0	1	3	6	1	2	1
Rice	0	4	0	3	4	13	0	1	2
Riley	7	23	0	2	6	19	1	7	7
Rooks	2	2	0	2	3	7	0	2	0
Rush	1	1	0	0	0	1	0	0	0
Russell	2	5	0	2	2	5	1	4	3
Saline	20	19	7	2	10	54	3	12	12
Scott	0	1	0	0	1	7	0	1	0
Sedgwick	55	242	4	33	59	261	10	92	120
Seward	0	8	0	1	0	9	0	2	1
Shawnee	23	100	1	15	32	105	2	40	33
Sheridan	0	1	0	0	0	5	0	0	1
Sherman	2	0	0	0	0	7	0	1	0
Smith	1	2	0	2	0	1	0	0	0
Stafford	0	1	0	1	2	2	0	1	1
Stanton	0	0	0	0	0	2	0	0	0
Stevens	2	2	0	0	0	2	0	1	1
Sumner	1	10	0	3	1	16	0	3	2
Thomas	0	6	1	3	2	4	0	0	2
Trego	0	1	0	2	0	3	1	1	2
Wabaunsee	1	4	1	1	0	4	0	0	1
Wallace	1	1	0	0	0	1	0	0	1
Washington	3	5	0	0	0	3	0	2	1
Wichita	0	0	0	0	0	2	0	0	0
Wilson	3	4	0	1	2	9	1	6	3
Woodson	0	2	7	0	0	3	0	0	0
Wyandotte	24	71	1	10	13	63	1	26	29
n.s.	0	0	0	0	0	0	0	0	0
Peer Group									
Frontier	21	50	4	14	23	101	1	18	29
Rural	46	149	13	25	51	211	5	39	55
Densely -Settled Rural	68	200	26	28	71	283	9	77	87
Semi-Urban	96	187	14	29	77	275	10	84	90
Urban	293	727	10	99	192	694	19	243	290

* The ICD-10 codes associat(* The ICD-10 codes associated with each category are listed in Appendix 4.

Table E27
Selected Causes of Death by County of Residence and Peer Group
Kansas, 2023

County of Residence	Pregnancy, Childbirth and the Puerperium	Congenital Anomalies	Cert. Cond. Originating in the Perinatal Period	Symptoms, Signs and Abnormal Findings	Motor Vehicle	All Other Accidents and Adverse Effects	Suicide	Homicide	All Other Causes
Kansas	7	84	90	347	402	1,428	559	182	6,773
Allen	0	0	1	4	0	5	2	0	46
Anderson	0	0	1	0	1	2	2	0	25
Atchison	0	0	0	2	4	15	2	0	34
Barber	0	1	0	0	1	5	1	0	14
Barton	0	1	1	0	9	19	10	0	61
Bourbon	0	1	0	0	4	7	1	0	44
Brown	0	0	2	1	0	4	3	0	23
Butler	0	1	3	50	16	36	8	2	153
Chase	0	0	0	0	0	2	0	0	11
Chautauqua	0	0	1	0	2	1	2	0	14
Cherokee	0	0	0	3	7	9	6	3	47
Cheyenne	0	0	0	0	0	5	0	0	12
Clark	0	0	0	1	0	0	0	0	4
Clay	0	0	2	1	3	10	5	1	26
Cloud	0	1	0	2	0	4	3	0	29
Coffey	0	0	0	0	0	6	1	0	16
Comanche	0	0	1	2	0	1	0	0	4
Cowley	0	0	1	7	5	14	6	0	105
Crawford	0	0	0	1	3	10	13	0	108
Decatur	0	0	0	0	1	2	0	0	8
Dickinson	0	0	0	3	4	9	5	0	65
Doniphan	0	0	3	1	0	5	2	0	17
Douglas	0	1	5	3	7	39	25	1	240
Edwards	0	1	0	0	1	0	2	0	8
Elk	0	0	0	1	0	2	0	0	7
Ellis	1	0	0	3	3	5	5	1	56
Ellsworth	0	0	0	1	1	2	1	0	14
Finney	0	1	2	2	5	11	10	2	66
Ford	0	1	1	3	10	9	5	3	54
Franklin	0	2	0	4	6	15	6	2	70
Geary	0	4	3	1	7	11	13	2	33
Gove	0	0	0	0	2	0	1	0	10
Graham	0	1	0	0	2	1	0	0	12
Grant	0	0	0	0	2	1	1	0	11
Gray	0	0	1	0	2	1	1	0	22
Greeley	0	0	0	0	0	1	0	0	2
Greenwood	0	1	0	0	3	2	1	0	11
Hamilton	0	0	0	0	2	1	0	0	7
Harper	0	0	0	2	1	5	0	0	25
Harvey	0	1	1	5	4	7	6	2	115
Haskell	0	1	0	0	1	2	1	0	8
Hodgeman	0	0	0	2	2	0	0	0	6
Jackson	0	1	0	1	2	5	4	0	34
Jefferson	0	1	0	2	2	8	1	1	33
Jewell	0	0	0	1	2	0	1	0	4
Johnson	3	12	14	36	31	222	93	14	1,243
Kearny	0	0	0	0	1	3	1	0	8
Kingman	0	1	0	1	0	2	2	0	22
Kiowa	0	0	0	0	0	0	1	0	10
Labette	1	2	0	0	6	7	2	3	64
Lane	0	0	0	0	1	4	0	0	6
Leavenworth	0	2	2	5	5	31	15	5	130
Lincoln	0	0	0	0	0	2	3	0	9
Linn	0	0	1	3	4	5	1	0	21
Logan	0	0	0	0	1	3	0	0	5

Table E27
Selected Causes of Death by County of Residence and Peer Group
Kansas, 2023

County of Residence	Pregnancy, Childbirth and the Puerperium	Congenital Anomalies	Cert. Cond. Originating in the Perinatal Period	Symptoms, Signs and Abnormal Findings	Motor Vehicle	All Other Accidents and Adverse Effects	Suicide	Homicide	All Other Causes
Lyon	0	2	0	4	1	17	5	1	53
McPherson	1	3	2	3	5	20	4	1	90
Marion	0	1	0	2	3	5	3	0	26
Marshall	0	0	0	3	2	6	2	0	22
Meade	0	0	0	0	2	2	0	0	13
Miami	0	0	0	1	7	22	7	1	73
Mitchell	0	1	0	1	1	2	2	0	20
Montgomery	0	0	0	0	5	16	10	1	104
Morris	0	1	0	0	2	1	0	0	19
Morton	0	0	0	0	0	1	0	0	3
Nemaha	0	1	0	1	2	7	1	0	35
Neosho	0	1	0	2	3	11	7	0	46
Ness	0	0	1	0	2	4	0	0	12
Norton	0	0	0	1	1	3	2	0	16
Osage	0	0	0	1	3	7	3	0	50
Osborne	0	0	0	0	2	1	0	0	14
Ottawa	0	0	0	1	2	8	0	0	18
Pawnee	0	0	0	0	1	5	0	0	25
Phillips	0	0	0	0	4	4	1	0	17
Pottawatomie	0	0	0	3	4	8	6	0	48
Pratt	0	1	0	1	3	4	2	0	29
Rawlins	0	0	0	0	2	1	1	0	12
Reno	0	2	1	14	10	35	15	1	192
Republic	0	0	0	9	3	4	0	0	13
Rice	0	1	0	3	3	3	2	0	22
Riley	0	0	1	4	9	24	7	1	101
Rooks	0	0	0	0	0	7	0	0	6
Rush	0	0	0	0	0	2	0	0	11
Russell	0	0	0	0	2	3	3	1	27
Saline	0	1	3	6	6	20	14	3	147
Scott	0	1	0	0	1	2	2	1	19
Sedgwick	0	10	19	85	69	330	96	48	1,147
Seward	0	3	1	1	2	7	3	4	32
Shawnee	1	6	4	20	16	109	40	36	446
Sheridan	0	0	0	0	0	0	1	0	9
Sherman	0	0	0	0	1	3	2	0	21
Smith	0	1	0	0	0	5	1	0	18
Stafford	0	0	0	0	2	1	1	0	17
Stanton	0	0	0	0	1	1	1	0	3
Stevens	0	0	0	0	1	0	1	0	10
Sumner	0	1	1	0	5	8	1	2	73
Thomas	0	0	0	0	2	2	4	0	18
Trego	0	0	0	2	0	3	0	0	14
Wabaunsee	0	0	0	2	3	2	0	0	7
Wallace	0	0	0	0	0	0	0	0	5
Washington	0	1	0	0	1	0	1	0	15
Wichita	0	0	0	0	0	0	0	0	7
Wilson	0	0	0	2	1	5	2	0	44
Woodson	0	0	0	0	1	2	1	0	10
Wyandotte	0	8	11	19	29	115	31	39	361
n.s.	0	0	0	2	1	2	0	0	1
Peer Group									
Frontier	0	5	3	9	37	70	21	0	354
Rural	0	12	8	37	55	116	50	5	710
Densely -Settled Rural	3	17	12	45	79	198	89	19	1,045
Semi-Urban	0	11	12	86	73	196	99	15	1,096
Urban	4	39	55	168	157	846	300	143	3,567

* The ICD-10 associate* The ICD-10 codes associated with each category are listed in Appendix 4.

Table E28
Life-Expectancy at Birth by County of Residence and Peer Group*
2019-2023

County of Residence	Life Expectancy	County of Residence	Life Expectancy
Kansas	75.1		
Allen	73.3	Lyon	75.1
Anderson	75.3	McPherson	75.5
Atchison	74.5	Marion	74.4
Barber	73.8	Marshall	75.1
Barton	73.5	Meade	74.3
Bourbon	73.1	Miami	75.5
Brown	72.5	Mitchell	75.5
Butler	74.5	Montgomery	71.5
Chase	76.2	Morris	74.7
Chautauqua	72.3	Morton	72.2
Cherokee	72.2	Nemaha	77.5
Cheyenne	73.8	Neosho	72.9
Clark	75.8	Ness	72.3
Clay	75.7	Norton	75.0
Cloud	72.8	Osage	74.2
Coffey	74.8	Osborne	75.3
Comanche	71.8	Ottawa	73.2
Cowley	72.7	Pawnee	73.8
Crawford	72.8	Phillips	75.4
Decatur	73.9	Pottawatomie	76.8
Dickinson	73.2	Pratt	74.1
Doniphan	74.5	Rawlins	75.0
Douglas	77.2	Reno	74.0
Edwards	73.1	Republic	73.7
Elk	73.3	Rice	74.5
Ellis	77.4	Riley	77.5
Ellsworth	75.9	Rooks	74.9
Finney	74.6	Rush	73.9
Ford	74.7	Russell	73.6
Franklin	74.0	Saline	74.2
Geary	71.4	Scott	74.6
Gove	76.8	Sedgwick	73.7
Graham	74.0	Seward	75.2
Grant	75.8	Shawnee	73.8
Gray	75.1	Sheridan	73.5
Greeley	75.4	Sherman	75.1
Greenwood	72.8	Smith	76.7
Hamilton	73.8	Stafford	73.2
Harper	73.7	Stanton	74.8
Harvey	74.5	Stevens	74.7
Haskell	76.6	Sumner	73.0
Hodgeman	71.1	Thomas	74.5
Jackson	75.0	Trego	77.2
Jefferson	75.4	Wabaunsee	76.2
Jewell	76.3	Wallace	76.3
Johnson	78.5	Washington	76.9
Kearny	74.6	Wichita	74.7
Kingman	74.0	Wilson	72.3
Kiowa	75.7	Woodson	72.9
Labette	72.3	Wyandotte	72.4
Lane	73.9	Peer Group	
Leavenworth	75.1	Frontier	74.5
Lincoln	75.0	Rural	74.4
Linn	72.1	Densely -Settled Rural	74.4
Logan	74.2	Semi-Urban	74.4
		Urban	75.6

* See Technical Notes for Peer Group definition.

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Table E29
Deaths by Selected City of Residence
by Number and Crude Rate*
Kansas, 2019-2023

City of Residence	Year 2019 Number	2019 Rate	2020 Number	2020 Rate	2021 Number	2021 Rate	2022 Number	2022 Rate	2023 Number	2023 Rate	5-Year Rate
Abilene	96	1,548.1	99	1,616.9	134	2,071.7	129	1,994.4	126	1,956.2	1,842.2
Andover	122	910.1	136	994.7	127	822.8	120	777.5	113	723.1	840.0
Arkansas City	194	1,662.5	183	1,576.5	180	1,508.9	188	1,576.0	156	1,308.4	1,525.6
Atchison	121	1,155.0	124	1,189.2	145	1,355.9	113	1,056.7	137	1,276.8	1,207.1
Augusta	139	1,487.4	152	1,634.4	152	1,640.2	136	1,467.6	128	1,388.0	1,523.7
Baldwin City	47	1,000.0	55	1,173.0	68	1,392.9	53	1,085.6	53	1,080.3	1,147.2
Basehor	46	708.1	57	856.4	65	900.4	64	886.5	73	967.7	868.1
Baxter Springs	79	2,001.0	64	1,644.0	62	1,609.6	52	1,349.9	47	1,225.9	1,568.7
Bel Aire	71	855.4	93	1,098.1	81	958.8	74	875.9	81	918.2	941.5
Beloit	67	1,848.3	62	1,739.6	63	1,849.1	48	1,408.9	60	1,782.0	1,727.1
Bonner Springs	72	910.7	83	1,041.9	70	896.9	66	845.6	76	991.4	937.5
Burlington	53	2,084.2	41	1,611.0	48	1,817.5	62	2,347.6	51	1,954.8	1,964.7
Chanute	114	1,260.8	141	1,568.2	151	1,747.3	143	1,654.7	113	1,318.9	1,508.5
Clay Center	60	1,506.4	85	2,129.8	72	1,740.0	78	1,885.0	73	1,770.6	1,806.3
Clearwater					46	1,751.7	35	1,332.8	32	1,211.2	1,431.5
Coffeyville	136	1,466.3	163	1,777.7	180	2,034.6	150	1,695.5	163	1,875.7	1,766.8
Colby	79	1,471.1	59	1,110.1	58	1,051.5	65	1,178.4	60	1,082.6	1,177.6
Columbus	63	2,064.2	61	2,029.3	59	2,047.2	61	2,116.6	51	1,770.8	2,006.5
Concordia	84	1,684.4	95	1,936.4	83	1,649.4	106	2,106.5	71	1,404.8	1,755.2
Derby	232	930.1	259	1,030.0	255	986.6	282	1,091.0	270	1,040.9	1,016.3
De Soto	59	906.0	51	767.1	59	924.8	56	877.7	64	988.0	892.0
Dodge City	184	678.9	236	884.3	184	664.5	202	729.5	179	652.8	721.1
Edwardsville	56	1,245.8	50	1,110.9	46	997.8	69	1,496.7	46	989.7	1,167.8
El Dorado	175	1,350.9	185	1,439.0	199	1,553.5	213	1,662.8	189	1,469.1	1,494.7
Ellsworth	25	844.3	54	1,839.9	38	1,270.1	43	1,437.2	33	1,053.3	1,285.6
Emporia	215	874.1	263	1,073.4	243	1,012.1	249	1,037.1	220	918.9	983.0
Eudora	53	826.7	74	1,157.5	73	1,132.0	68	1,054.4	69	1,073.8	1,048.9
Fairway	26	656.6	25	630.8	23	551.4	15	359.6	14	335.7	504.0
Fort Scott	115	1,494.1	131	1,712.9	121	1,610.5	137	1,823.5	105	1,378.9	1,603.2
Frontenac	35	1,033.1	54	1,592.0	55	1,620.0	64	1,885.1	57	1,676.5	1,561.6
Galena	61	2,134.4	70	2,478.8	50	1,822.8	58	2,114.5	56	2,038.6	2,120.0
Garden City	209	791.4	258	992.2	246	883.1	186	667.7	207	752.2	815.4
Gardner	119	540.1	128	572.2	148	618.2	139	580.6	140	578.4	578.6
Garnett	56	1,731.1	48	1,473.3	50	1,566.4	50	1,566.4	61	1,913.4	1,649.5
Goddard	40	834.0	82	1,652.6	55	1,023.8	69	1,284.4	70	1,259.2	1,212.5
Goodland	58	1,316.4	54	1,255.5	46	1,033.7	61	1,370.8	63	1,434.4	1,281.9
Great Bend	168	1,121.9	223	1,496.5	232	1,591.2	191	1,310.0	171	1,180.2	1,339.7
Hays	167	805.1	214	1,027.4	167	803.1	198	952.2	160	757.0	868.7
Haysville	133	1,173.0	132	1,159.0	145	1,281.5	147	1,299.2	138	1,222.6	1,227.0
Hesston	37	988.8	59	1,579.2	65	1,859.8	60	1,716.7	58	1,655.7	1,552.5
Hiawatha	66	2,116.7	56	1,811.7	66	2,033.3	56	1,725.2	58	1,798.4	1,896.3
Hillsboro	50	1,775.6	36	1,303.4	60	2,189.8	46	1,678.8	42	1,539.0	1,697.3
Hoisington	36	1,457.5	41	1,672.1	46	1,731.3	33	1,242.0	34	1,286.9	1,475.4
Holton	53	1,652.1	61	1,903.9	50	1,502.0	60	1,802.3	55	1,630.6	1,696.8
Hugoton	35	934.6	47	1,277.9	37	983.0	47	1,248.7	29	786.8	1,046.3
Hutchinson	515	1,275.3	553	1,375.3	553	1,392.5	624	1,571.3	531	1,337.6	1,390.0
Independence	121	1,422.7	148	1,756.9	165	1,949.4	137	1,618.6	115	1,363.2	1,622.0
Iola	81	1,538.2	73	1,386.8	100	1,871.6	85	1,590.9	83	1,536.8	1,585.5
Junction City	174	810.0	212	969.7	222	989.8	228	1,016.5	196	880.3	934.2
Kansas City	1,233	806.1	1,582	1,035.8	1,535	993.2	1,444	934.4	1,433	934.5	940.9

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Table E29
Deaths by Selected City of Residence
by Number and Crude Rate*
Kansas, 2019-2023

City of Residence	Year										5-Year Rate
	2019		2020		2021		2022		2023		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Rate
Kingman	52	1,829.7	57	2,061.5	62	2,024.8	62	2,024.8	48	1,619.4	1,912.2
Lansing	111	928.9	100	836.5	100	889.8	110	978.7	82	733.0	873.7
Larned	66	1,797.9	74	2,039.1	52	1,436.1	70	1,933.2	55	1,482.1	1,736.7
Lawrence	520	529.6	630	639.9	597	626.7	625	656.1	662	691.1	628.2
Leavenworth	310	862.1	365	1,015.8	374	1,006.0	363	976.4	334	900.7	952.4
Leawood	247	711.3	320	923.0	316	936.5	307	909.8	271	803.8	856.4
Lenexa	450	809.0	477	849.4	504	863.2	444	760.4	477	813.8	819.0
Liberal	123	641.5	143	759.8	147	748.5	132	672.1	127	658.9	696.0
Lindsborg	58	1,762.9	62	1,892.6	49	1,401.6	46	1,315.8	57	1,499.6	1,566.9
Louisburg	36	789.1	57	1,241.8	44	881.1	54	1,081.3	56	1,107.4	1,020.8
Lyons	52	1,484.0	45	1,310.8	66	1,856.0	48	1,349.8	40	1,118.3	1,424.0
McPherson	154	1,179.1	174	1,337.1	194	1,391.3	164	1,176.1	174	1,255.0	1,267.9
Maize	27	547.2	46	873.4	43	709.6	39	643.6	43	671.4	689.3
Manhattan	307	562.2	320	582.4	348	635.5	332	606.2	352	653.9	607.9
Marysville	55	1,682.5	50	1,538.0	47	1,375.5	60	1,755.9	52	1,519.1	1,573.6
Merriam	80	722.0	92	826.7	116	1,052.9	97	880.5	82	747.8	845.9
Mission	80	807.2	107	1,083.8	95	963.1	108	1,094.9	91	927.3	975.2
Mission Hills	13	366.5	19	537.8	12	336.6	15	420.8	16	450.6	422.3
Mulvane	65	1,001.7	78	1,187.9	62	941.2	65	986.8	82	1,212.5	1,066.9
Newton	255	1,352.0	269	1,435.1	280	1,519.0	263	1,426.8	236	1,283.2	1,403.1
Norton	63	2,314.5	70	2,584.0	35	1,269.0	39	1,414.1	48	1,805.2	1,874.2
Olathe	862	613.3	932	657.9	953	666.4	980	685.2	950	652.4	655.2
Osage City	38	1,352.8	63	2,278.5	52	1,827.1	60	2,108.2	36	1,278.4	1,768.2
Osawatomie	62	1,447.2	49	1,160.3	75	1,752.3	56	1,308.4	60	1,415.8	1,417.5
Ottawa	153	1,248.6	152	1,232.4	162	1,285.3	170	1,348.8	157	1,244.7	1,272.3
Overland Park	1,452	742.7	1,627	824.3	1,607	815.3	1,681	852.8	1,623	820.8	811.3
Paola	80	1,398.8	97	1,712.6	110	1,901.1	89	1,538.2	91	1,585.9	1,627.6
Park City	36	463.7	50	629.5	55	646.8	69	811.5	41	473.7	606.7
Parsons	158	1,667.2	170	1,796.5	159	1,677.4	149	1,571.9	136	1,449.6	1,632.8
Pittsburg	209	1,042.4	279	1,397.2	238	1,147.7	225	1,085.0	208	1,006.9	1,134.6
Prairie Village	229	1,027.1	214	959.0	199	869.8	209	913.5	217	945.7	942.5
Pratt	89	1,370.1	108	1,671.1	101	1,536.6	90	1,369.2	74	1,132.5	1,415.5
Roeland Park	38	568.2	53	796.8	39	572.1	42	616.1	28	413.5	592.7
Rose Hill	42	1,058.5	52	1,306.9	49	1,147.8	53	1,241.5	27	628.8	1,073.2
Russell	69	1,560.0	109	2,486.9	58	1,321.8	75	1,709.2	79	1,815.7	1,778.1
Sabetha	48	1,858.3	79	3,095.6	39	1,548.2	51	2,024.6	50	2,007.2	2,108.3
St Marys	31	1,166.3	20	754.1	40	1,455.1	33	1,200.4	29	1,050.3	1,127.6
Salina	533	1,145.0	590	1,275.0	647	1,392.0	623	1,340.3	542	1,172.4	1,265.0
Scott City	51	1,360.7	59	1,579.2	60	1,462.0	40	974.7	50	1,247.5	1,319.8
Shawnee	436	662.5	490	739.1	532	788.0	496	734.7	492	711.0	727.3
South Hutchinson					55	2,201.8	62	2,482.0	70	2,793.3	2,492.7
Spring Hill	49	668.9	50	635.2	87	1,017.9	76	889.2	66	714.1	789.7
Tonganoxie	67	1,200.1	89	1,564.1	73	1,280.3	64	1,122.4	65	1,111.1	1,255.0
Topeka	1,565	1,248.9	1,919	1,540.6	1,773	1,407.6	1,806	1,433.8	1,606	1,280.2	1,382.1
Ulysses	56	999.3	53	955.6	52	901.2	53	918.5	50	883.5	931.2
Valley Center	56	764.5	76	1,029.1	74	997.4	60	808.7	62	843.8	889.0
Wamego	38	803.0	53	1,123.4	59	1,214.0	45	925.9	55	1,127.0	1,039.5
Wellington	119	1,553.1	148	1,960.3	118	1,539.7	129	1,683.2	113	1,479.1	1,642.2
Wichita	3,666	940.1	4,547	1,160.7	4,553	1,150.6	4,476	1,131.2	4,022	1,015.2	1,079.8
Winfield	182	1,523.9	191	1,617.7	187	1,594.7	187	1,594.7	199	1,700.7	1,606.0

*Rate per 100,000 population, based on US Census Bureau Estimates.

Clearwater and South Hutchinson did not meet the criteria for inclusion in this table until the 2020 Census.

Table E30

Deaths by Number and Age-Adjusted Rate* for Selected Chronic Diseases, Kansas Residents, 2004-2023

Year	Alzheimer's Disease		Diabetes Mellitus		Nephritis, Nephrotic Syndr., Nephrosis		Atherosclerosis		Chronic Liver Disease and Cirrhosis		Primary Hypertension/ Hypertensive Renal Disease/ Secondary Hypertension	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
2004	767	23.7	683	23.2	553	17.9	316	9.8	201	7.1	185	5.8
2005	911	27.2	708	23.6	517	16.7	362	10.8	200	7.0	187	5.8
2006	829	24.3	749	24.7	595	18.8	321	9.6	223	7.7	202	6.2
2007	860	25.2	698	22.6	555	17.5	353	10.5	229	7.8	174	5.2
2008	963	27.9	707	22.7	622	19.4	347	10.1	240	8.1	172	5.1
2009	801	23.7	628	20.2	556	17.4	321	9.6	224	7.4	158	4.7
2010	816	24.0	655	20.5	581	17.9	390	11.4	245	7.9	161	4.8
2011	794	22.6	708	22.0	577	17.5	342	9.9	254	8.3	155	4.5
2012	788	22.5	633	19.4	599	17.7	459	13.1	245	7.7	159	4.5
2013	740	20.8	649	19.6	598	17.5	422	11.7	249	7.8	219	6.4
2014	791	21.9	638	19.0	560	16.3	439	12.2	283	8.8	200	5.7
2015	862	23.4	684	20.2	580	16.8	450	12.3	312	9.6	245	6.8
2016	853	23.0	725	21.1	529	14.8	385	10.5	316	9.8	222	6.1
2017	886	24.0	864	24.9	531	14.7	384	10.5	311	9.5	263	7.2
2018	887	23.2	796	22.4	547	15.2	345	9.2	352	10.6	275	7.5
2019	828	21.6	879	24.2	554	15.0	53	1.4	343	10.4	275	7.3
2020	970	25.0	1,030	28.2	523	14.2	73	2.0	438	13.7	350	9.1
2021	804	22.6	915	25.5	533	14.9	73	2.0	511	15.8	449	12.3
2022	941	25.1	957	26.1	633	17.1	67	1.8	467	14.2	547	14.5
2023	832	22.7	884	24.4	551	14.9	67	1.8	461	13.5	524	14.1

* Age-adjusted rates per 100,000 U.S. 2000 Standard population.

Table E31
Deaths by Number and Age-Adjusted Rate* for Selected External Causes
Kansas Residents, 2004-2023

Year	Unintentional Injuries		Suicide		Homicide	
	N	Rate	N	Rate	N	Rate
2004	1,157	40.7	368	13.4	118	4.3
2005	1,174	41.0	357	12.9	105	3.8
2006	1,230	42.5	377	13.7	114	4.1
2007	1,241	42.3	380	13.6	114	4.1
2008	1,256	42.5	350	12.5	114	4.0
2009	1,301	43.8	376	13.4	127	4.6
2010	1,346	44.8	409	14.3	108	3.9
2011	1,358	44.6	384	13.4	120	4.3
2012	1,304	42.9	505	17.6	110	4.1
2013	1,398	45.5	426	14.7	120	4.3
2014	1,391	44.5	454	15.7	105	3.7
2015	1,494	47.8	477	16.3	130	4.6
2016	1,468	46.4	512	17.8	148	5.3
2017	1,573	49.3	544	18.8	179	6.2
2018	1,512	47.8	555	19.2	159	5.9
2019	1,578	49.4	521	18.1	136	4.8
2020	1,733	54.2	529	18.3	197	7.1
2021	2,031	65.4	555	19.2	182	6.5
2022	2,012	64.2	591	20.3	160	5.7
2023	1,830	57.9	559	19.2	182	6.4

* Age-adjusted rates per 100,000 U.S. 2000 Standard population.

Table E32
Deaths from All External Causes with Drugs as an Underlying Cause,*
by Year and Drug Category
Kansas residents, 2004-2023

Year	Any Drug	Any Opioid	Heroin	Cocaine	Psychostimulants†
2004	221	115	1	34	14
2005	240	106	0	33	19
2006	256	121	1	45	15
2007	268	116	1	34	10
2008	254	120	9	20	6
2009	297	141	10	13	15
2010	268	104	8	12	17
2011	275	108	6	12	19
2012	290	152	14	10	25
2013	329	157	12	9	34
2014	326	167	17	15	33
2015	327	148	20	14	62
2016	310	144	31	13	78
2017	326	142	24	26	76
2018	346	157	33	28	77
2019	395	178	42	33	154
2020	479	255	36	39	185
2021	679	428	37	74	281
2022	739	497	16	85	322
2023	644	414	4	74	262

* Includes unintentional accidents, intentional self-harm, assault, and events of undetermined intent.
† This drug category includes amphetamine and methamphetamine.

Table E33
Deaths from Unintentional Injury and Undetermined Intent
with Drugs as the Underlying Cause,*
by Year and Drug Category, Kansas residents, 2004-2023

Year	Any Drug	Rate§	Any Opioid	Heroin	Cocaine	Psychostimulants†
2004	171	6.4	98	1	33	12
2005	189	7.0	91	0	32	18
2006	208	7.6	106	1	43	13
2007	204	7.5	101	1	34	8
2008	220	8.0	112	9	19	6
2009	246	9.0	126	10	13	15
2010	218	7.8	94	8	12	16
2011	234	8.4	99	6	12	16
2012	233	8.5	138	13	10	24
2013	276	10.0	141	12	9	32
2014	270	9.6	150	17	15	31
2015	270	9.9	135	20	14	61
2016	248	8.9	122	31	12	77
2017	271	9.6	126	22	24	72
2018	289	10.4	141	33	27	74
2019	348	12.3	169	42	32	148
2020	432	15.4	239	36	39	177
2021	635	22.7	416	37	73	277
2022	682	24.0	473	15	85	316
2023	579	20.3	394	4	74	256

* Includes unintentional accidents and events of undetermined intent.
† This drug category includes amphetamine and methamphetamine.
§ Rates are age-adjusted per 100,000 US 2000 Standard Population.

Table E34
Coronavirus 2019 Deaths by County of Residence and Sex
Kansas, 2023

County of Residence	Total	Sex		County of Residence	Total	Sex	
		Male	Female			Male	Female
Kansas	483	253	230				
Allen	0	0	0	Lyon	4	1	3
Anderson	4	2	2	McPherson	3	1	2
Atchison	3	2	1	Marion	2	1	1
Barber	0	0	0	Marshall	0	0	0
Barton	5	2	3	Meade	2	0	2
Bourbon	2	0	2	Miami	7	1	6
Brown	1	1	0	Mitchell	1	1	0
Butler	8	4	4	Montgomery	5	3	2
Chase	3	3	0	Morris	0	0	0
Chautauqua	0	0	0	Morton	0	0	0
Cherokee	3	2	1	Nemaha	2	1	1
Cheyenne	0	0	0	Neosho	6	4	2
Clark	0	0	0	Ness	0	0	0
Clay	5	2	3	Norton	1	0	1
Cloud	3	0	3	Osage	3	1	2
Coffey	1	1	0	Osborne	0	0	0
Comanche	1	1	0	Ottawa	1	0	1
Cowley	8	5	3	Pawnee	4	1	3
Crawford	5	2	3	Phillips	3	2	1
Decatur	2	2	0	Pottawatomie	4	3	1
Dickinson	9	4	5	Pratt	7	5	2
Doniphan	2	1	1	Rawlins	2	1	1
Douglas	14	7	7	Reno	16	10	6
Edwards	3	2	1	Republic	2	1	1
Elk	0	0	0	Rice	4	2	2
Ellis	4	2	2	Riley	3	2	1
Ellsworth	0	0	0	Rooks	0	0	0
Finney	3	2	1	Rush	2	2	0
Ford	3	2	1	Russell	2	0	2
Franklin	7	1	6	Saline	10	6	4
Geary	1	0	1	Scott	2	2	0
Gove	2	1	1	Sedgwick	87	52	35
Graham	0	0	0	Seward	6	2	4
Grant	1	0	1	Shawnee	33	18	15
Gray	3	0	3	Sheridan	0	0	0
Greeley	0	0	0	Sherman	0	0	0
Greenwood	2	1	1	Smith	2	2	0
Hamilton	2	1	1	Stafford	1	1	0
Harper	2	2	0	Stanton	0	0	0
Harvey	10	4	6	Stevens	1	0	1
Haskell	0	0	0	Sumner	3	1	2
Hodgeman	1	0	1	Thomas	0	0	0
Jackson	2	1	1	Trego	2	0	2
Jefferson	1	1	0	Wabaunsee	0	0	0
Jewell	2	2	0	Wallace	0	0	0
Johnson	75	37	38	Washington	2	2	0
Kearny	0	0	0	Wichita	1	0	1
Kingman	1	1	0	Wilson	2	1	1
Kiowa	2	0	2	Woodson	0	0	0
Labette	5	3	2	Wyandotte	23	12	11
Lane	2	2	0	n.s.	0	0	0
Leavenworth	7	4	3				
Lincoln	0	0	0				
Linn	2	1	1				
Logan	0	0	0				

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Table E35
Coronavirus 2019 Deaths by County of Residence and Peer Group*
by Age-Group and Average Age at Death
Kansas, 2023

| County of Residence | Total | Age-Group | | | | | | | | | | | | Average Age At Death |
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 and over	n.s.	
Kansas	483	0	2	3	3	3	5	11	34	88	137	197	0	78.8
Allen	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Anderson	4	0	0	0	0	0	0	0	0	0	1	3	0	91.8
Atchison	3	0	0	0	0	0	0	0	0	1	1	1	0	78.0
Barber	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Barton	5	0	0	0	0	0	0	0	0	1	2	2	0	83.0
Bourbon	2	0	0	0	0	0	0	0	0	1	0	1	0	82.0
Brown	1	0	0	0	0	0	0	0	0	0	0	1	0	94.0
Butler	8	0	0	0	0	0	0	0	1	2	3	2	0	77.1
Chase	3	0	0	0	0	0	0	0	1	0	1	1	0	76.3
Chautauqua	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Cherokee	3	0	0	0	0	0	0	1	1	0	0	1	0	66.0
Cheyenne	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Clark	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Clay	5	0	0	0	0	0	0	0	0	0	2	3	0	89.4
Cloud	3	0	0	0	0	0	1	0	0	0	0	2	0	73.3
Coffey	1	0	0	0	0	0	0	0	0	0	0	1	0	86.0
Comanche	1	0	0	0	0	0	0	1	0	0	0	0	0	51.0
Cowley	8	0	0	0	0	0	0	0	0	1	5	2	0	83.5
Crawford	5	0	0	0	0	0	0	0	0	1	3	1	0	80.6
Decatur	2	0	0	0	0	0	0	0	0	1	1	0	0	74.0
Dickinson	9	0	0	0	0	0	0	0	1	2	3	3	0	78.9
Doniphan	2	0	0	0	0	0	0	0	0	1	0	1	0	78.0
Douglas	14	0	0	0	0	0	0	0	0	1	6	7	0	84.3
Edwards	3	0	0	0	0	0	0	0	0	0	1	2	0	87.3
Elk	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Ellis	4	0	0	0	0	0	0	0	0	0	1	3	0	85.5
Ellsworth	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Finney	3	0	0	0	0	0	0	0	0	2	0	1	0	81.7
Ford	3	0	0	0	0	0	0	0	0	0	1	2	0	89.3
Franklin	7	0	0	1	0	0	0	0	0	1	2	3	0	73.3
Geary	1	0	0	0	0	0	0	0	0	1	0	0	0	68.0
Gove	2	0	0	0	0	0	0	0	0	0	0	2	0	88.0
Graham	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Grant	1	0	0	0	0	0	0	0	0	0	1	0	0	84.0
Gray	3	0	0	0	0	0	0	0	0	1	0	2	0	81.3
Greeley	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Greenwood	2	0	0	0	0	0	0	0	1	0	1	0	0	70.0
Hamilton	2	0	0	0	0	0	0	0	0	0	0	2	0	91.0
Harper	2	0	0	0	0	0	0	0	0	1	0	1	0	79.5
Harvey	10	0	0	0	0	0	0	0	2	3	1	4	0	78.8
Haskell	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Hodgeman	1	0	0	0	0	0	0	0	0	0	0	1	0	90.0
Jackson	2	0	0	0	0	0	0	0	0	0	1	1	0	85.5
Jefferson	1	0	0	0	0	0	0	0	0	0	0	1	0	89.0
Jewell	2	0	0	0	0	0	0	0	0	0	1	1	0	90.5
Johnson	75	0	1	1	0	0	2	2	3	13	18	35	0	79.3
Kearny	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Kingman	1	0	0	0	0	0	0	0	0	0	1	0	0	77.0
Kiowa	2	0	0	0	0	0	0	0	0	2	0	0	0	71.0
Labette	5	0	0	0	0	0	1	1	0	1	0	2	0	68.2
Lane	2	0	0	0	0	0	0	0	0	1	0	1	0	79.0
Leavenworth	7	0	0	0	0	0	0	0	0	1	4	2	0	80.4
Lincoln	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Linn	2	0	0	0	0	0	0	0	0	1	0	1	0	82.5
Logan	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a

Table E35
Coronavirus 2019 Deaths by County of Residence and Peer Group*
by Age-Group and Average Age at Death
Kansas, 2023

| County of Residence | Total | Age-Group | | | | | | | | | | | | Average Age At Death |
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 and over	n.s.	
Lyon	4	0	0	0	0	0	0	0	0	0	0	4	0	87.5
McPherson	3	0	0	0	0	0	0	0	0	1	0	2	0	85.3
Marion	2	0	0	0	0	0	0	1	0	0	1	0	0	61.5
Marshall	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Meade	2	0	0	0	0	0	0	1	0	0	0	1	0	71.0
Miami	7	0	0	0	0	0	0	0	0	3	3	1	0	79.9
Mitchell	1	0	0	0	0	0	0	0	0	1	0	0	0	72.0
Montgomery	5	0	0	0	0	0	0	0	1	1	1	2	0	77.2
Morris	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Morton	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Nemaha	2	0	0	0	0	0	0	0	0	0	0	2	0	91.0
Neosho	6	0	0	0	0	0	0	0	1	0	4	1	0	77.7
Ness	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Norton	1	0	0	0	0	0	0	0	1	0	0	0	0	55.0
Osage	3	0	0	0	0	0	0	0	0	1	0	2	0	82.3
Osborne	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Ottawa	1	0	0	0	0	0	1	0	0	0	0	0	0	44.0
Pawnee	4	0	0	0	0	1	0	0	0	1	0	2	0	70.5
Phillips	3	0	0	0	0	0	0	0	0	0	1	2	0	86.0
Pottawatomie	4	0	0	0	0	0	0	0	0	1	0	3	0	83.8
Pratt	7	0	0	0	0	0	0	0	0	3	1	3	0	81.3
Rawlins	2	0	0	0	0	0	0	0	0	1	0	1	0	84.5
Reno	16	0	0	0	0	0	0	0	2	0	7	7	0	82.3
Republic	2	0	0	0	0	0	0	0	0	0	1	1	0	84.0
Rice	4	0	0	0	0	0	0	0	1	1	2	0	0	74.0
Riley	3	0	0	0	0	0	0	0	0	0	1	2	0	86.3
Rooks	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Rush	2	0	1	0	0	0	0	0	0	0	0	1	0	43.0
Russell	2	0	0	0	0	0	0	0	0	0	2	0	0	77.5
Saline	10	0	0	0	0	0	0	0	0	3	3	4	0	81.1
Scott	2	0	0	0	0	0	0	0	0	1	0	1	0	78.5
Sedgwick	87	0	0	1	3	1	0	3	9	19	25	26	0	74.7
Seward	6	0	0	0	0	0	0	0	2	0	1	3	0	76.8
Shawnee	33	0	0	0	0	0	0	1	4	5	8	15	0	80.5
Sheridan	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Sherman	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Smith	2	0	0	0	0	0	0	0	0	0	1	1	0	86.0
Stafford	1	0	0	0	0	0	0	0	0	0	1	0	0	77.0
Stanton	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Stevens	1	0	0	0	0	0	0	0	0	0	1	0	0	83.0
Sumner	3	0	0	0	0	0	0	0	0	0	2	1	0	87.3
Thomas	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Trego	2	0	0	0	0	0	0	0	0	0	1	1	0	89.5
Wabaunsee	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Wallace	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Washington	2	0	0	0	0	0	0	0	0	0	2	0	0	79.0
Wichita	1	0	0	0	0	1	0	0	0	0	0	0	0	29.0
Wilson	2	0	0	0	0	0	0	0	0	1	0	1	0	83.0
Woodson	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Wyandotte	23	0	0	0	0	0	0	0	3	5	7	8	0	78.3
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Peer Group														
Frontier	37	0	1	0	0	1	0	2	2	5	9	17	0	77.6
Rural	59	0	0	0	0	1	2	1	2	11	17	25	0	79.9
Densely -Settled Rural	76	0	0	0	0	0	1	2	5	13	19	36	0	80.5
Semi-Urban	72	0	0	1	0	0	0	0	6	15	24	26	0	79.5
Urban	239	0	1	2	3	1	2	6	19	44	68	93	0	78.0

* See Technical Notes for Peer Group definition.

Table E36
Coronavirus 2019 Deaths by County of Residence and Peer Group*
by Population Group
Kansas, 2023

| County of Residence | Total | Population Group | | | | | | |
		White Non-Hispanic	Black Non-Hispanic	Native American Non-Hispanic	Asian/Pacific Islander Non-Hispanic	Other Non-Hispanic[T]	Hispanic Any Race	n.s.
Kansas	483	434	15	6	4	7	17	0
Allen	0	0	0	0	0	0	0	0
Anderson	4	4	0	0	0	0	0	0
Atchison	3	3	0	0	0	0	0	0
Barber	0	0	0	0	0	0	0	0
Barton	5	4	0	0	0	1	0	0
Bourbon	2	2	0	0	0	0	0	0
Brown	1	1	0	0	0	0	0	0
Butler	8	7	0	0	0	1	0	0
Chase	3	3	0	0	0	0	0	0
Chautauqua	0	0	0	0	0	0	0	0
Cherokee	3	3	0	0	0	0	0	0
Cheyenne	0	0	0	0	0	0	0	0
Clark	0	0	0	0	0	0	0	0
Clay	5	5	0	0	0	0	0	0
Cloud	3	3	0	0	0	0	0	0
Coffey	1	1	0	0	0	0	0	0
Comanche	1	1	0	0	0	0	0	0
Cowley	8	7	1	0	0	0	0	0
Crawford	5	5	0	0	0	0	0	0
Decatur	2	2	0	0	0	0	0	0
Dickinson	9	9	0	0	0	0	0	0
Doniphan	2	1	0	1	0	0	0	0
Douglas	14	11	1	0	1	0	1	0
Edwards	3	2	0	0	0	0	1	0
Elk	0	0	0	0	0	0	0	0
Ellis	4	4	0	0	0	0	0	0
Ellsworth	0	0	0	0	0	0	0	0
Finney	3	2	0	0	0	0	1	0
Ford	3	3	0	0	0	0	0	0
Franklin	7	5	0	1	0	0	1	0
Geary	1	1	0	0	0	0	0	0
Gove	2	2	0	0	0	0	0	0
Graham	0	0	0	0	0	0	0	0
Grant	1	0	0	0	0	0	1	0
Gray	3	3	0	0	0	0	0	0
Greeley	0	0	0	0	0	0	0	0
Greenwood	2	2	0	0	0	0	0	0
Hamilton	2	2	0	0	0	0	0	0
Harper	2	2	0	0	0	0	0	0
Harvey	10	10	0	0	0	0	0	0
Haskell	0	0	0	0	0	0	0	0
Hodgeman	1	1	0	0	0	0	0	0
Jackson	2	2	0	0	0	0	0	0
Jefferson	1	1	0	0	0	0	0	0
Jewell	2	2	0	0	0	0	0	0
Johnson	75	70	1	1	2	0	1	0
Kearny	0	0	0	0	0	0	0	0
Kingman	1	1	0	0	0	0	0	0
Kiowa	2	2	0	0	0	0	0	0
Labette	5	3	1	0	0	1	0	0
Lane	2	2	0	0	0	0	0	0
Leavenworth	7	7	0	0	0	0	0	0
Lincoln	0	0	0	0	0	0	0	0
Linn	2	2	0	0	0	0	0	0
Logan	0	0	0	0	0	0	0	0

Table E36
Coronavirus 2019 Deaths by County of Residence and Peer Group*
by Population Group
Kansas, 2023

| County of Residence | Total | Population Group | | | | | | |
		White Non-Hispanic	Black Non-Hispanic	Native American Non-Hispanic	Asian/Pacific Islander Non-Hispanic	Other Non-Hispanic[†]	Hispanic Any Race	n.s.
Lyon	4	3	0	0	1	0	0	0
McPherson	3	3	0	0	0	0	0	0
Marion	2	2	0	0	0	0	0	0
Marshall	0	0	0	0	0	0	0	0
Meade	2	2	0	0	0	0	0	0
Miami	7	6	0	1	0	0	0	0
Mitchell	1	1	0	0	0	0	0	0
Montgomery	5	5	0	0	0	0	0	0
Morris	0	0	0	0	0	0	0	0
Morton	0	0	0	0	0	0	0	0
Nemaha	2	2	0	0	0	0	0	0
Neosho	6	5	1	0	0	0	0	0
Ness	0	0	0	0	0	0	0	0
Norton	1	1	0	0	0	0	0	0
Osage	3	3	0	0	0	0	0	0
Osborne	0	0	0	0	0	0	0	0
Ottawa	1	1	0	0	0	0	0	0
Pawnee	4	4	0	0	0	0	0	0
Phillips	3	3	0	0	0	0	0	0
Pottawatomie	4	4	0	0	0	0	0	0
Pratt	7	7	0	0	0	0	0	0
Rawlins	2	2	0	0	0	0	0	0
Reno	16	14	0	0	0	0	2	0
Republic	2	2	0	0	0	0	0	0
Rice	4	4	0	0	0	0	0	0
Riley	3	3	0	0	0	0	0	0
Rooks	0	0	0	0	0	0	0	0
Rush	2	1	0	0	0	1	0	0
Russell	2	2	0	0	0	0	0	0
Saline	10	9	0	0	0	0	1	0
Scott	2	2	0	0	0	0	0	0
Sedgwick	87	79	4	0	0	2	2	0
Seward	6	4	0	0	0	0	2	0
Shawnee	33	27	1	2	0	1	2	0
Sheridan	0	0	0	0	0	0	0	0
Sherman	0	0	0	0	0	0	0	0
Smith	2	2	0	0	0	0	0	0
Stafford	1	0	0	0	0	0	1	0
Stanton	0	0	0	0	0	0	0	0
Stevens	1	1	0	0	0	0	0	0
Sumner	3	2	0	0	0	0	1	0
Thomas	0	0	0	0	0	0	0	0
Trego	2	2	0	0	0	0	0	0
Wabaunsee	0	0	0	0	0	0	0	0
Wallace	0	0	0	0	0	0	0	0
Washington	2	2	0	0	0	0	0	0
Wichita	1	1	0	0	0	0	0	0
Wilson	2	2	0	0	0	0	0	0
Woodson	0	0	0	0	0	0	0	0
Wyandotte	23	18	5	0	0	0	0	0
n.s.	0	0	0	0	0	0	0	0
Peer Group								
Frontier	34	31	0	0	0	1	2	0
Rural	59	58	0	0	0	0	1	0
Densely -Settled Rural	79	68	3	1	1	2	4	0
Semi-Urban	72	65	0	2	0	1	4	0
Urban	239	212	12	3	3	3	6	0

* See Technical Notes for Peer Group definition.
† Includes selection of two or more races or other non-specified race

Table E37

Death Rates, Age-Adjusted Death Rates and 95% Confidence Intervals
for Deaths due to Coronavirus 2019
by Sex and by Population Group
Kansas Residents, 2023

				CI (95%)‡	
	Number	Death Rate*	Age-Adjusted Death Rate†	Lower	Upper
Kansas	483	16.4	13.2	12.0	14.4
Sex					
Male	253	17.2	16.4	14.4	18.4
Female	230	15.7	11.1	9.6	12.6
Population Group					
White Non-Hispanic	434	20.0	13.5	12.2	14.8
Black Non-Hispanic	15	8.9	10.0	4.8	15.3
Native American Non-Hispanic	6	26.1	36.9	3.9	67.9
Asian/Pacific Islander Non-Hispanic	4	4.2	6.9	0.1	13.7
Other Non-Hispanic	7	8.4	21.3	3.5	39.1
Hispanic	17	4.2	10.2	5.0	15.4
n.s.	0	n/a	n/a	n/a	n/a

* Rate per 100,000 population

† Rate per 100,000 standard U.S. 2000 population (see Technical Notes)

‡ CI = 95% confidence interval based on a formula for estimating the standard error or SE. See Technical Notes

§ The ICD-10 codes associated with each category are listed in Appendix 4.

Table E38
Contributing causes of death* associated with higher risk for severe Coronavirus 2019
Where Coronavirus 2019 was the underlying cause of death
Kansas residents, 2023

Contributing Cause of Death	Number of Deaths
Tuberculosis	0
HIV disease	1
Malignant neoplasms	32
Thalassemia and sickle cell disease	0
Diabetes mellitus	26
Obesity	7
Cystic fibrosis	0
Dementias other than Alzheimer's disease	48
Substance abuse disorders	69
Schizophrenia spectrum disorders	0
Mood disorders	3
Alzheimer's disease	15
Heart disease	161
Essential hypertension w/wo renal disease	37
Cerebrovascular disease	24
Atherosclerosis	0
Other circulatory system diseases	6
Chronic lower respiratory disease	73
Interstitial lung disease	3
Chronic liver disease and cirrhosis	2
Other inflammatory liver diseases	1
Other diseases of liver	0
Nephritis, nephrosis and nephrotic syndrome	61
Pregnancy	0
Conditions originating the perinatal period	1
Congenital anomalies	3
All deaths with Coronavirus 2019 as the underlying cause of death	483

* See Appendix 9 to see ICD-10 codes associated with these causes of death.

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F. MARRIAGES AND MARRIAGE DISSOLUTIONS

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Table F1
Marriages and Marriage Dissolutions
by Number and Rate*, Kansas Occurrence, 1974-2023

	Marriage			Marriage Dissolutions	
Year	Number	Rate	Year	Number	Rate
1974	24,491	10.6	1974	11,484	5.1
1975	23,767	10.3	1975	12,561	5.5
1976	23,559	10.1	1976	12,833	5.6
1977	23,673	10.1	1977	12,629	5.4
1978	23,975	10.2	1978	12,668	5.4
1979	24,774	10.5	1979	12,749	5.4
1980	24,847	10.5	1980	13,410	5.7
1981	26,137	10.9	1981	13,737	5.8
1982	26,670	11.1	1982	12,392	5.1
1983	25,877	10.7	1983	12,207	5.0
1984	24,737	10.1	1984	12,905	5.3
1985	23,281	9.3	1985	12,794	5.2
1986	22,667	9.2	1986	12,364	5.0
1987	22,220	9.0	1987	12,218	4.9
1988	22,705	9.1	1988	12,475	5.0
1989	22,214	8.8	1989	12,296	4.9
1990	22,720	9.2	1990	12,580	5.1
1991	21,786	8.7	1991	12,590	5.0
1992	21,845	8.7	1992	12,365	4.9
1993	21,527	8.5	1993	12,068	4.8
1994	21,524	8.4	1994	11,659	4.6
1995	21,057	8.2	1995	11,029	4.3
1996	20,657	8.0	1996	10,779	4.2
1997	20,537	7.9	1997	10,618	4.1
1998	20,403	7.8	1998	10,363	3.9
1999	20,905	7.9	1999	9,926	3.7
2000	20,426	7.6	2000	10,105	3.8
2001	20,457	7.6	2001	9,885	3.7
2002	19,783	7.3	2002	9,654	3.6
2003	18,722	6.9	2003	8,644	3.2
2004	19,174	7.0	2004	8,759	3.2
2005	18,745	6.8	2005	8,476	3.1
2006	18,836	6.8	2006	9,145	3.3
2007	18,910	6.8	2007	9,347	3.4
2008	18,717	6.7	2008	9,818	3.5
2009	18,268	6.5	2009	10,333	3.7
2010	18,150	6.4	2010	10,579	3.7
2011	17,897	6.2	2011	10,445	3.6
2012	18,154	6.3	2012	9,782	3.4
2013	17,328	6.0	2013	9,085	3.1
2014	17,655	6.1	2014	8,441	2.9
2015	17,595	6.0	2015	8,036	2.8
2016	17,948	6.2	2016	7,198	2.5
2017	17,274	5.9	2017	6,494	2.2
2018	16,362	5.6	2018	6,538	2.2
2019	15,403	5.3	2019	6,398	2.2
2020	14,038	4.8	2020	5,169	1.8
2021	15,656	5.3	2021	5,368	1.8
2022	16,090	5.5	2022	4,954	1.7
2023	15,626	5.3	2023	4,606	1.6

* Rates are per 1000 population.

Figure F1. Marriage Rates
Kansas and the United States, 1913-2023
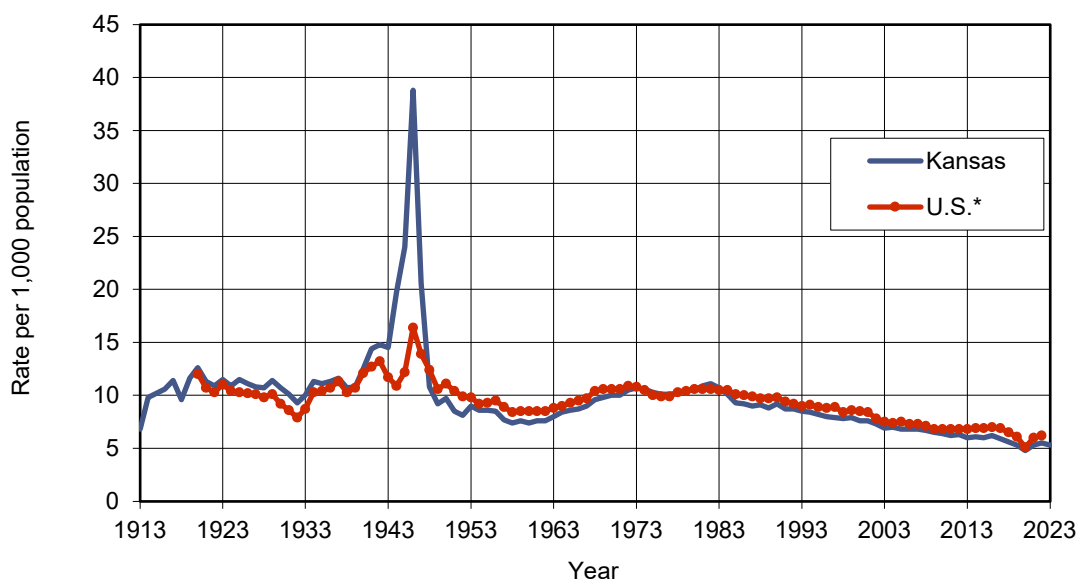
*1913-1919 not available, 1991-2022 Rates Provisional, 2023 Rates not yet available.

Figure F2. Marriage Dissolution Rates
Kansas and the United States, 1951-2023
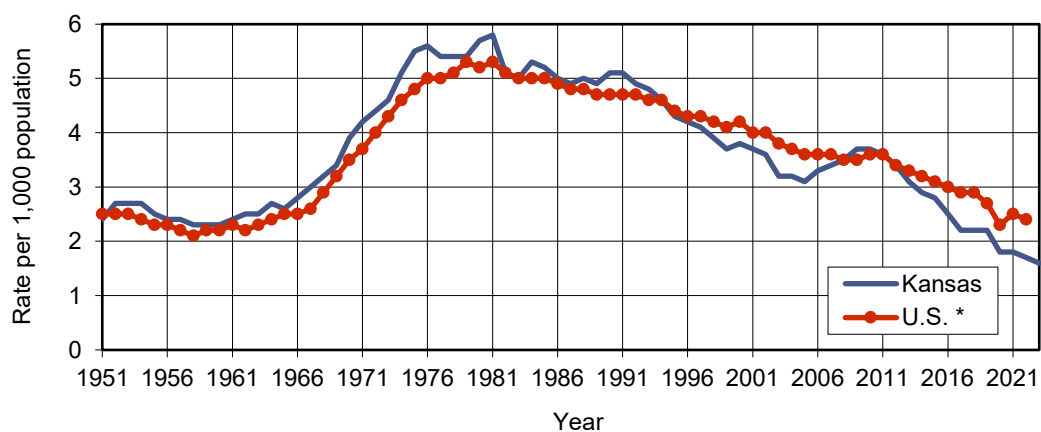
*1991-2022 Rates Provisional, 2023 Rates not yet available.

  US rates from 2000 forward based on fewer than 50 states.

Table F2
Marriages by Population Group of Groom by Population Group of Bride
Kansas, 2023

Population Group of Groom	Total	Population Group of Bride						
		White Non-Hispanic	Black Non-Hispanic	Native American Non-Hispanic	Asian/Pacific Non-Hispanic	Other* Non-Hispanic	Hispanic Any Race	n.s.
Total	15,626	10,821	861	100	471	381	2,932	60
White Non-Hispanic	10,736	9,294	130	61	204	222	809	16
Black Non-Hispanic	1,214	349	666	7	16	51	120	5
Native American Non-Hispanic	105	76	1	15	2	1	10	0
Asian/Pacific Non-Hispanic	320	69	4	2	212	5	27	1
Other Non-Hispanic*	315	196	17	1	12	51	38	0
Hispanic Any Race	2,868	813	42	13	25	47	1,918	10
n.s.	68	24	1	1	0	4	10	28

* Includes selection of two or more races or other non-specified race

Table F3
Marriage Dissolutions by Population Group of Husband by Population Group of Wife
Kansas, 2023

Population Group of Husband	Total	Population Group of Wife						
		White Non-Hispanic	Black Non-Hispanic	Native American Non-Hispanic	Asian/Pacific Non-Hispanic	Other* Non-Hispanic	Hispanic Any Race	n.s.
Total	4,606	3,314	232	19	98	75	551	317
White Non-Hispanic	3,236	2,929	28	11	39	44	149	36
Black Non-Hispanic	335	96	185	1	10	11	20	12
Native American Non-Hispanic	24	18	1	3	0	0	1	1
Asian/Pacific Non-Hispanic	69	15	2	1	40	3	5	3
Other Non-Hispanic*	61	42	5	0	2	9	1	2
Hispanic Any Race	581	179	8	2	7	7	366	12
n.s.	300	35	3	1	0	1	9	251

* Includes selection of two or more races or other non-specified race

Figure F3. Number of Marriages by Month
Kansas, 2023
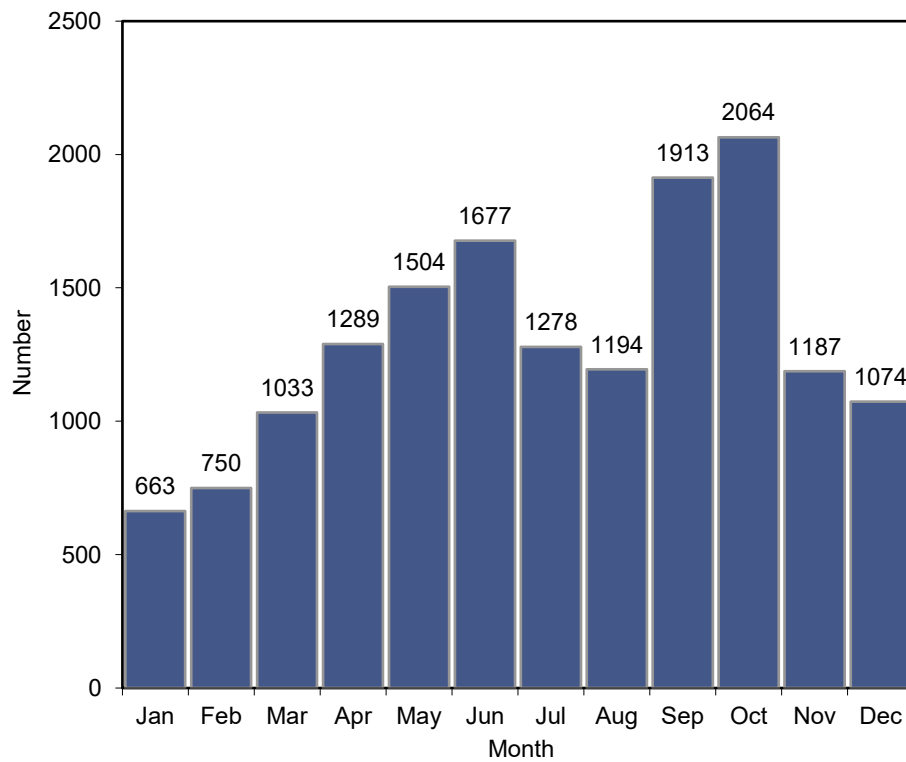
Table F4
Marriages by Premarital Status of Groom
by Premarital Status of Bride
Kansas, 2023

Premarital Status of Groom	Total	Premarital Status of Bride				
		Never Married	Divorced	Annulled	Widowed	n.s.
Total	15,626	10,888	4,232	81	403	22
Never Married	11,128	9,422	1,569	41	83	13
Divorced	3,985	1,351	2,410	28	192	4
Annulled	79	40	29	7	3	0
Widowed	410	67	216	5	122	0
n.s.	24	8	8	0	3	5

Table F5
Marriages by Age-Group of Groom by Age-Group of Bride
Kansas, 2023

Age-Group of Groom	Total	Age-Group of Bride													
		15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 & Over	n.s.
Total	15,626	463	3,838	3,969	2,409	1,531	1,097	748	568	394	291	147	105	64	2
15-19	232	138	84	7	2	1	0	0	0	0	0	0	0	0	0
20-24	3,105	268	2,380	380	59	14	0	3	0	1	0	0	0	0	0
25-29	3,888	42	1,074	2,208	419	91	38	11	4	0	0	0	0	0	1
30-34	2,672	10	202	979	1,054	294	94	25	11	2	0	1	0	0	0
35-39	1,706	3	58	265	547	539	194	66	18	10	5	0	1	0	0
40-44	1,231	1	30	89	213	380	339	130	33	10	3	2	1	0	0
45-49	845	1	3	22	69	137	262	229	90	24	4	2	1	1	0
50-54	638	0	5	12	29	43	96	167	196	72	14	2	1	0	1
55-59	453	0	1	4	12	18	45	64	136	120	40	8	4	1	0
60-64	354	0	0	1	2	6	20	30	54	91	119	22	8	1	0
65-69	248	0	0	1	0	6	7	19	20	42	68	57	21	7	0
70-74	144	0	0	0	1	2	1	3	5	14	27	40	41	10	0
75 & Over	106	0	0	0	0	0	1	1	1	8	11	13	27	44	0
n.s.	4	0	1	1	2	0	0	0	0	0	0	0	0	0	0

Figure F4. Average Age at Marriage
Kansas, 2004-2023

Bride

Groom
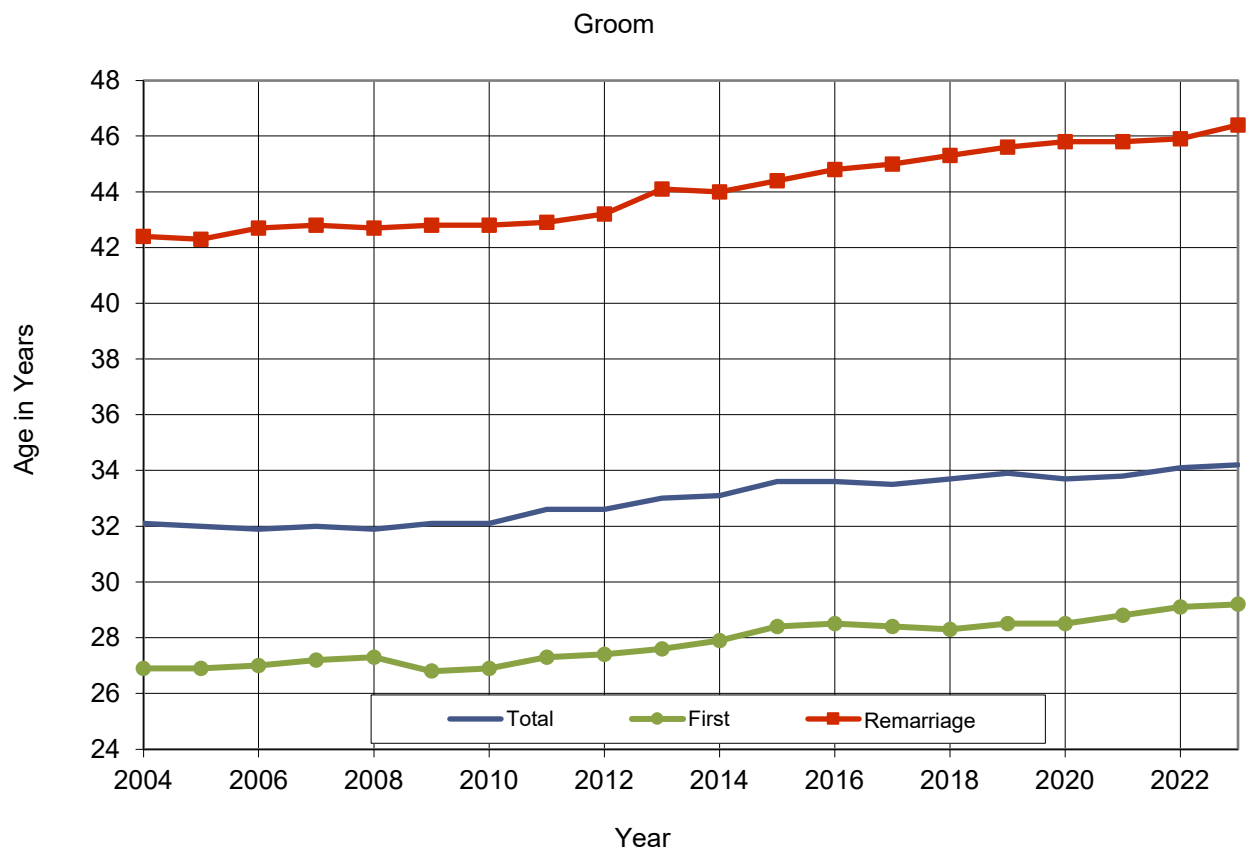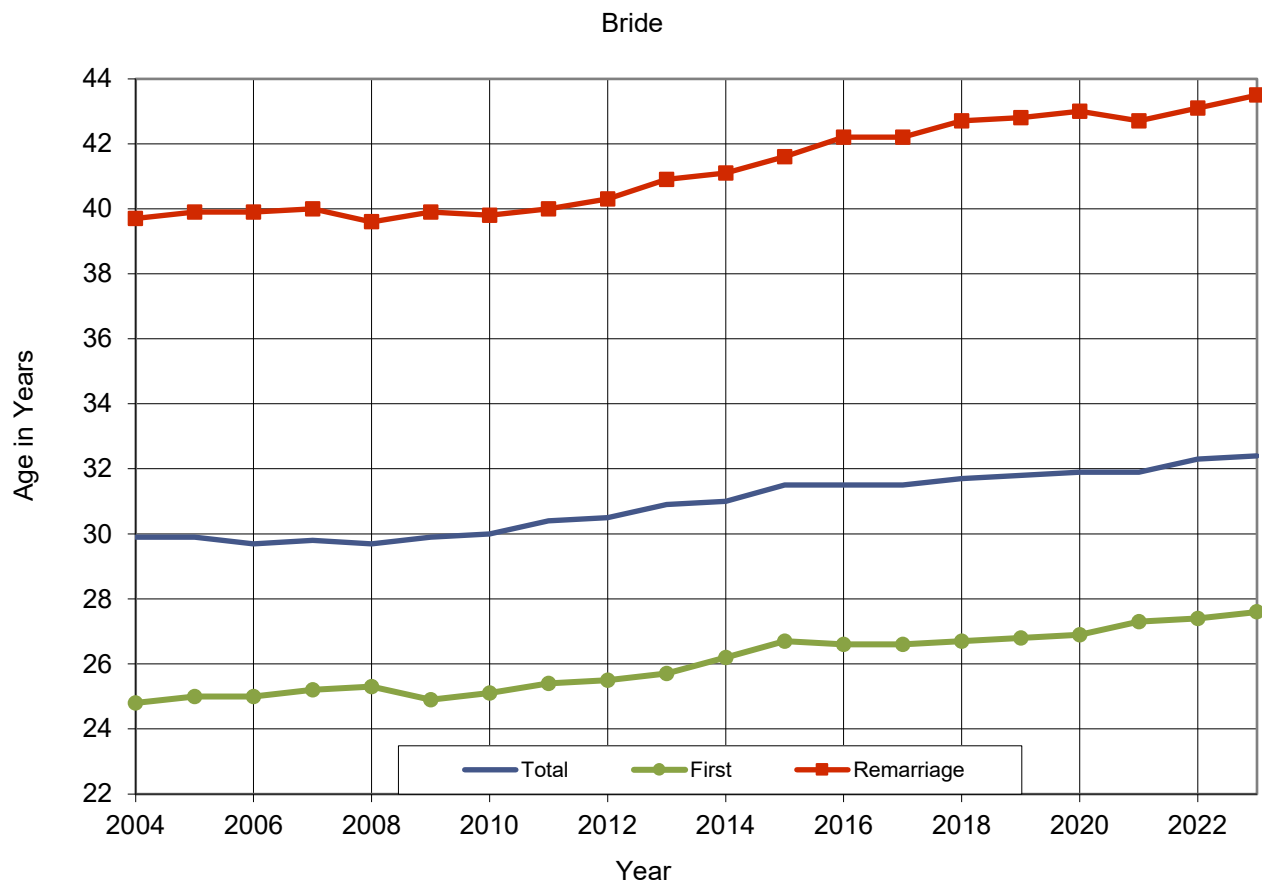
Table F6
Marriage Dissolutions by Age-Group of Husband by Age-Group of Wife
Kansas, 2023

Age-Group of Husband	Age-Group of Wife														
	Total	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 & Over	n.s.
Total	4,606	15	274	591	742	713	718	528	347	243	173	86	49	18	109
15-19	5	1	2	0	1	0	0	0	1	0	0	0	0	0	0
20-24	210	9	158	28	5	2	1	1	0	0	0	0	0	0	6
25-29	493	0	88	304	64	15	4	4	0	0	0	0	0	0	14
30-34	634	1	16	184	322	66	24	9	3	1	0	0	0	0	8
35-39	741	0	6	41	237	306	98	24	7	5	2	0	0	0	15
40-44	712	0	2	18	71	203	315	76	12	6	0	1	0	0	8
45-49	541	0	1	5	23	64	174	194	47	16	5	2	0	0	10
50-54	424	0	1	7	5	28	55	142	137	28	14	2	1	1	3
55-59	313	0	0	2	4	15	28	42	88	87	28	8	2	0	9
60-64	236	0	0	0	7	3	9	18	36	65	70	12	10	2	4
65-69	119	0	0	0	1	1	1	3	8	23	38	31	10	0	3
70-74	62	0	0	0	0	0	2	3	6	5	9	18	15	4	0
75 & Over	45	0	0	0	0	1	2	1	2	3	4	8	11	11	2
n.s.	71	4	0	2	2	9	5	11	0	4	3	4	0	0	27

Figure F5. Average Age at Marriage Dissolution
Kansas, 2004-2023
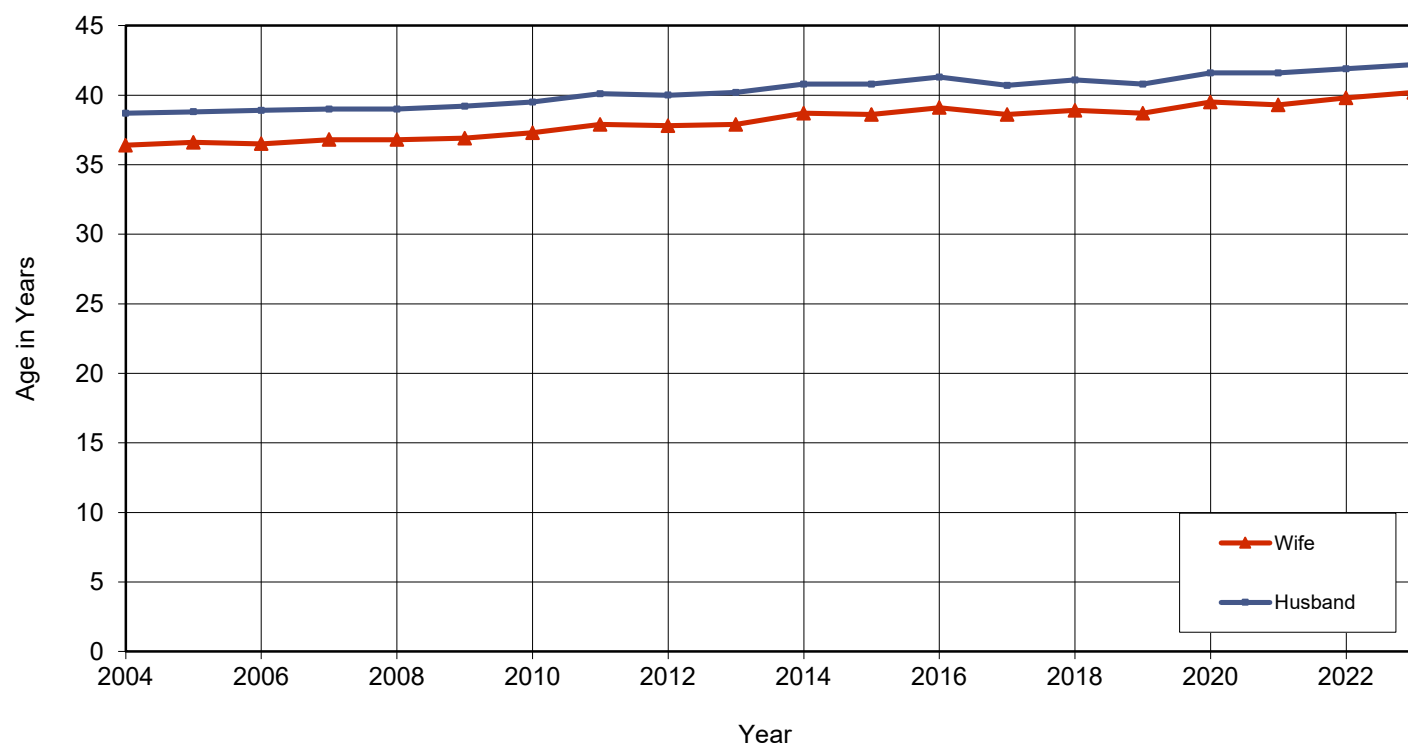
Table F7
Marriage Dissolutions
by Duration of Marriage in Years
Kansas, 2023

Duration of Marriage	Total	Divorces	Annulments
Total	4,606	4,546	60
Under 1	132	108	24
1	263	247	16
2	313	306	7
3	292	292	0
4	262	260	2
5	306	306	0
6	239	237	2
7	241	240	1
8	205	205	0
9	195	195	0
10	168	167	1
11	165	164	1
12	136	136	0
13	140	140	0
14	119	119	0
15	112	111	1
16	108	107	1
17	111	111	0
18	78	78	0
19	68	68	0
20-24	339	339	0
25-29	185	185	0
30-34	119	119	0
35-39	54	54	0
40 & Over	54	54	0
n.s.	202	198	4

Figure F6. Marriage Dissolutions
Percent Distribution by Number of Minor Children
Kansas, 2023

Bar chart. Y-axis: Percent (0 to 60). X-axis: Number Children Reported.

Category	Percent
None	55.3
1	18.4
2	16.7
3	7.0
4	1.7
5	0.5
6	0.2
7	0.1
8	0.0
9 & Over	0.0
n.s.	0.2
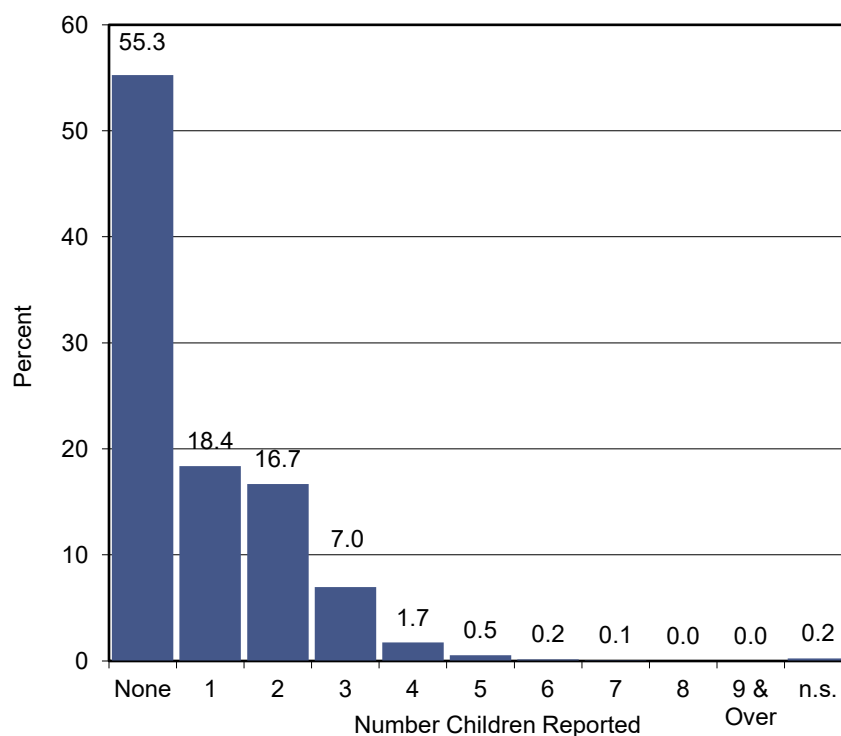
Table F8

Marriage Dissolutions by Number of Minor Children Reported
and Number of Minor Children Affected
Kansas, 2023

Number of Minor Children Reported	Number of Divorces		Number of Annulments		Total Children Affected
	Number	Percent	Number	Percent	Number*
Total	4,546	100.0	60	100.1	3,853
None	2,487	54.8	58	96.7	0
1	845	18.6	1	1.7	846
2	768	16.9	0	0.0	1,536
3	320	7.1	1	1.7	963
4 or More	115	2.5	0	0.0	508
n.s.	11	n/a	0	n/a	0

*Represents the number of children involved in marriages
 ending in divorce or annulment.

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Table F9
Marriages by County of Marriage and Peer Group*
by Number and Rate[†]
Kansas, 2019-2023

County of Marriage	Year										5-Year Rate
	2019		2020		2021		2022		2023		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Rate
Kansas	15,403	5.3	14,038	4.8	15,656	5.3	16,090	5.5	15,626	5.3	5.2
Allen	50	4.0	36	2.9	65	5.2	48	3.8	34	2.7	3.7
Anderson	51	6.5	69	8.7	53	6.8	59	7.6	34	4.3	6.8
Atchison	60	3.7	83	5.2	83	5.1	67	4.2	61	3.8	4.4
Barber	32	7.2	16	3.7	17	4.1	27	6.6	18	4.4	5.2
Barton	144	5.6	111	4.3	147	5.8	135	5.4	122	4.9	5.2
Bourbon	68	4.7	63	4.4	91	6.4	68	4.7	69	4.8	5.0
Brown	46	4.8	36	3.8	59	6.2	41	4.4	58	6.3	5.1
Butler	415	6.2	349	5.2	379	5.6	379	5.6	301	4.4	5.4
Chase	37	14.0	29	11.2	34	13.1	47	18.4	47	18.2	15.0
Chautauqua	13	4.0	9	2.8	17	5.0	21	6.1	17	5.1	4.6
Cherokee	61	3.1	49	2.5	63	3.3	55	2.9	69	3.6	3.1
Cheyenne	6	2.3	13	5.0	9	3.4	9	3.5	12	4.6	3.7
Clark	6	3.0	5	2.5	3	1.5	9	4.7	4	2.2	2.8
Clay	60	7.5	51	6.4	49	6.1	38	4.7	41	5.1	6.0
Cloud	51	5.8	39	4.5	56	6.3	37	4.1	34	3.8	4.9
Coffey	48	5.9	29	3.6	34	4.1	40	4.8	27	3.3	4.3
Comanche	13	7.6	14	8.3	7	4.2	5	3.0	7	4.2	5.5
Cowley	169	4.8	166	4.8	179	5.2	192	5.6	172	5.0	5.1
Crawford	179	4.6	141	3.6	198	5.1	160	4.1	159	4.1	4.3
Decatur	9	3.2	15	5.4	13	4.7	13	4.8	8	2.9	4.2
Dickinson	108	5.8	97	5.3	106	5.7	105	5.7	97	5.3	5.6
Doniphan	33	4.3	30	4.0	25	3.3	29	3.9	42	5.6	4.2
Douglas	655	5.4	576	4.7	564	4.7	635	5.3	580	4.8	5.0
Edwards	19	6.8	10	3.6	8	2.8	9	3.3	11	4.0	4.1
Elk	10	4.0	12	4.8	11	4.5	11	4.5	12	4.9	4.5
Ellis	170	6.0	150	5.2	180	6.3	173	6.0	150	5.2	5.7
Ellsworth	33	5.4	24	4.0	31	4.9	27	4.2	23	3.6	4.4
Finney	201	5.5	130	3.6	192	5.0	217	5.8	190	5.1	5.0
Ford	203	6.0	163	4.9	192	5.6	192	5.7	202	5.9	5.6
Franklin	161	6.3	136	5.3	155	6.0	144	5.5	142	5.4	5.7
Geary	404	12.8	416	12.9	423	11.8	390	10.9	369	10.5	11.7
Gove	9	3.4	5	1.9	8	2.9	8	2.9	10	3.7	3.0
Graham	12	4.8	6	2.5	13	5.4	7	2.9	12	5.1	4.1
Grant	25	3.5	18	2.5	31	4.2	28	3.9	30	4.2	3.7
Gray	31	5.2	28	4.7	28	5.0	18	3.1	22	3.8	4.4
Greeley	8	6.5	2	1.7	7	5.4	5	4.1	2	1.7	3.9
Greenwood	31	5.2	24	4.1	32	5.4	33	5.6	32	5.5	5.1
Hamilton	8	3.2	10	4.1	10	4.0	11	4.5	10	4.1	4.0
Harper	23	4.2	17	3.2	23	4.3	19	3.6	26	4.8	4.0
Harvey	251	7.3	227	6.6	254	7.5	260	7.7	257	7.7	7.4
Haskell	19	4.8	17	4.3	15	4.1	12	3.4	13	3.6	4.1
Hodgeman	10	5.6	11	6.2	8	4.7	5	2.8	12	7.3	5.3
Jackson	53	4.0	67	5.1	55	4.1	66	5.0	60	4.5	4.5
Jefferson	129	6.8	112	5.9	173	9.4	169	9.2	139	7.6	7.8
Jewell	7	2.4	18	6.4	13	4.4	18	6.2	11	3.9	4.7
Johnson	2,313	3.8	2,379	3.9	2,685	4.4	2,906	4.7	3,175	5.1	4.4
Kearny	24	6.3	11	2.9	19	4.9	24	6.2	8	2.1	4.5
Kingman	32	4.5	26	3.7	45	6.1	36	5.0	38	5.4	4.9
Kiowa	29	11.7	21	8.6	17	7.1	15	6.2	14	5.9	7.9
Labette	83	4.2	73	3.7	85	4.3	109	5.5	72	3.6	4.3
Lane	4	2.6	6	4.0	9	5.8	8	5.1	7	4.6	4.4
Leavenworth	461	5.6	372	4.5	422	5.1	400	4.8	366	4.4	4.9
Lincoln	15	5.1	10	3.3	12	4.1	14	4.8	13	4.5	4.4
Linn	70	7.2	91	9.4	91	9.3	97	9.9	105	10.6	9.3
Logan	14	5.0	17	6.2	8	2.9	16	5.9	8	3.0	4.6

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Table F9
Marriages by County of Marriage and Peer Group*
by Number and Rate[†]
Kansas, 2019-2023

County of Marriage	Year										5-Year Rate
	2019		2020		2021		2022		2023		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Rate
Lyon	154	4.6	133	4.0	158	4.9	167	5.2	157	4.9	4.7
McPherson	196	6.9	181	6.4	182	6.0	184	6.1	174	5.8	6.2
Marion	48	4.0	53	4.5	61	5.2	48	4.0	54	4.6	4.5
Marshall	50	5.2	40	4.1	47	4.7	54	5.4	50	5.0	4.9
Meade	17	4.2	10	2.5	11	2.7	14	3.6	14	3.6	3.3
Miami	196	5.7	169	4.9	204	5.9	250	7.2	229	6.5	6.0
Mitchell	24	4.0	30	5.1	37	6.4	46	8.0	34	5.9	5.9
Montgomery	149	4.7	113	3.6	147	4.7	152	4.9	122	4.0	4.4
Morris	30	5.3	19	3.4	28	5.2	33	6.2	27	5.1	5.0
Morton	9	3.5	11	4.3	9	3.3	17	6.5	10	3.9	4.3
Nemaha	62	6.1	73	7.2	68	6.7	76	7.5	55	5.4	6.6
Neosho	82	5.1	87	5.5	76	4.8	92	5.9	92	6.0	5.4
Ness	12	4.4	13	4.7	8	3.0	11	4.2	10	3.8	4.0
Norton	26	4.8	16	3.0	26	4.9	23	4.3	21	3.9	4.2
Osage	91	5.7	102	6.5	135	8.6	108	6.9	107	6.8	6.9
Osborne	9	2.6	9	2.6	15	4.3	6	1.7	12	3.5	3.0
Ottawa	20	3.5	15	2.6	19	3.3	22	3.8	18	3.1	3.3
Pawnee	27	4.2	21	3.3	29	4.7	33	5.3	31	5.1	4.5
Phillips	19	3.6	23	4.4	17	3.5	16	3.3	17	3.6	3.7
Pottawatomie	98	4.0	91	3.7	120	4.7	145	5.5	119	4.5	4.5
Pratt	52	5.7	34	3.7	52	5.7	38	4.2	52	5.7	5.0
Rawlins	17	6.7	16	6.4	16	6.3	23	9.1	8	3.2	6.4
Reno	368	5.9	333	5.4	347	5.7	395	6.4	341	5.5	5.8
Republic	26	5.6	22	4.9	23	4.9	21	4.5	20	4.3	4.8
Rice	47	4.9	36	3.8	57	6.1	44	4.7	40	4.3	4.8
Riley	642	8.6	579	7.9	620	8.6	626	8.8	569	8.0	8.4
Rooks	29	5.9	24	5.0	22	4.6	24	5.0	26	5.4	5.2
Rush	8	2.6	13	4.4	15	5.1	15	5.1	10	3.5	4.2
Russell	39	5.7	39	5.7	37	5.5	46	6.9	38	5.7	5.9
Saline	278	5.1	329	6.1	304	5.6	291	5.4	306	5.8	5.6
Scott	34	7.0	39	8.1	36	7.0	47	9.4	38	7.7	7.9
Sedgwick	2,849	5.5	2,610	5.0	2,805	5.4	3,055	5.8	2,884	5.5	5.4
Seward	131	6.1	66	3.1	107	4.9	115	5.4	106	5.0	4.9
Shawnee	801	4.5	798	4.5	875	4.9	837	4.7	854	4.8	4.7
Sheridan	14	5.6	8	3.2	7	2.8	13	5.4	8	3.3	4.0
Sherman	24	4.1	26	4.5	36	6.1	38	6.5	29	5.0	5.2
Smith	14	3.9	9	2.5	17	4.8	17	4.8	21	5.8	4.4
Stafford	29	7.0	20	4.9	18	4.5	21	5.3	11	2.8	4.9
Stanton	20	10.0	13	6.6	9	4.4	7	3.6	4	2.1	5.4
Stevens	32	5.8	28	5.2	31	5.9	13	2.5	23	4.5	4.8
Sumner	145	6.3	109	4.8	147	6.6	133	5.9	128	5.7	5.9
Thomas	58	7.5	50	6.5	42	5.3	41	5.2	32	4.1	5.7
Trego	17	6.1	25	9.1	16	5.7	27	9.8	22	8.1	7.7
Wabaunsee	45	6.5	38	5.5	50	7.2	55	7.8	54	7.7	6.9
Wallace	4	2.6	5	3.3	7	4.6	6	4.0	2	1.3	3.2
Washington	35	6.5	21	3.9	28	5.1	25	4.5	41	7.4	5.5
Wichita	6	2.8	3	1.4	15	7.2	5	2.4	10	4.8	3.7
Wilson	29	3.4	35	4.2	48	5.6	22	2.6	41	4.9	4.1
Woodson	12	3.8	9	3.0	23	7.4	19	6.1	10	3.2	4.7
Wyandotte	1,102	6.7	857	5.2	942	5.6	908	5.5	991	6.0	5.8
n.s.	1	n/a	0	n/a	1	n/a	0	n/a	0	n/a	n/a
Peer Group											
Frontier	545	5.1	469	4.5	513	4.7	575	5.3	489	4.5	4.8
Rural	1,204	5.3	1,086	4.8	1,404	5.8	1,291	5.3	1,258	5.2	5.3
Densely -Settled Rural	2,429	5.3	2,099	4.6	2,414	5.5	2,436	5.5	2,234	5.1	5.2
Semi-Urban	3,043	6.7	2,792	6.2	3,031	6.6	3,047	6.7	2,795	6.2	6.5
Urban	8,181	4.9	7,592	4.5	8,293	4.9	8,741	5.2	8,850	5.2	5.0

* See Technical Notes for Peer Group definition.
[†] Rate per 1,000 population

Table F10
Marriage Dissolutions by County of Action and Peer Group*
by Number and Rate†
Kansas, 2019-2023

| County of Action | Year | | | | | | | | | | 5-Year |
| | 2019 | | 2020 | | 2021 | | 2022 | | 2023 | | |
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Rate
Kansas	6,398	2.2	5,169	1.8	5,368	1.8	4,954	1.7	4,606	1.6	1.8
Allen	28	2.3	19	1.5	15	1.2	16	1.3	6	0.5	1.3
Anderson	116	14.8	80	10.1	89	11.4	61	7.8	21	2.7	9.4
Atchison	34	2.1	26	1.6	31	1.9	32	2.0	26	1.6	1.9
Barber.	8	1.8	7	1.6	10	2.4	12	2.9	10	2.5	2.2
Barton	58	2.2	62	2.4	43	1.7	31	1.2	34	1.4	1.8
Bourbon	48	3.3	31	2.1	48	3.4	62	4.3	30	2.1	3.0
Brown	20	2.1	19	2.0	16	1.7	11	1.2	15	1.6	1.7
Butler	99	1.5	93	1.4	87	1.3	93	1.4	77	1.1	1.3
Chase	3	1.1	1	0.4	4	1.5	5	2.0	1	0.4	1.1
Chautauqua	6	1.8	14	4.3	8	2.4	10	2.9	8	2.4	2.8
Cherokee	56	2.8	29	1.5	29	1.5	37	1.9	33	1.7	1.9
Cheyenne	4	1.5	5	1.9	8	3.0	5	1.9	3	1.1	1.9
Clark	2	1.0	1	0.5	6	3.0	4	2.1	2	1.1	1.5
Clay	11	1.4	9	1.1	16	2.0	10	1.2	13	1.6	1.5
Cloud	31	3.5	28	3.2	28	3.1	21	2.3	26	2.9	3.0
Coffey	108	13.2	24	2.9	28	3.4	17	2.1	8	1.0	4.5
Comanche	6	3.5	4	2.4	0	0.0	6	3.6	3	1.8	2.3
Cowley	106	3.0	96	2.8	101	2.9	83	2.4	60	1.8	2.6
Crawford	72	1.9	57	1.5	44	1.1	44	1.1	54	1.4	1.4
Decatur	6	2.1	11	4.0	11	4.0	10	3.7	9	3.3	3.4
Dickinson	57	3.1	77	4.2	76	4.1	51	2.8	45	2.4	3.3
Doniphan	12	1.6	12	1.6	8	1.1	4	0.5	6	0.8	1.1
Douglas	174	1.4	111	0.9	146	1.2	136	1.1	141	1.2	1.2
Edwards	9	3.2	7	2.5	7	2.5	5	1.8	5	1.8	2.4
Elk	7	2.8	3	1.2	4	1.6	4	1.6	1	0.4	1.5
Ellis	81	2.8	50	1.7	51	1.8	37	1.3	38	1.3	1.8
Ellsworth	23	3.8	22	3.6	16	2.5	15	2.4	15	2.4	2.9
Finney	80	2.2	53	1.5	66	1.7	66	1.8	73	1.9	1.8
Ford	87	2.6	85	2.6	66	1.9	67	2.0	57	1.7	2.1
Franklin	36	1.4	34	1.3	36	1.4	32	1.2	64	2.4	1.6
Geary	318	10.0	336	10.4	288	8.0	300	8.4	248	7.1	8.7
Gove	3	1.1	1	0.4	3	1.1	4	1.5	3	1.1	1.0
Graham	9	3.6	6	2.5	7	2.9	8	3.3	7	2.9	3.1
Grant	13	1.8	13	1.8	16	2.2	5	0.7	6	0.8	1.5
Gray	7	1.2	6	1.0	10	1.8	10	1.7	7	1.2	1.4
Greeley	5	4.1	1	0.8	3	2.3	2	1.6	2	1.7	2.1
Greenwood	15	2.5	7	1.2	14	2.4	6	1.0	1	0.2	1.5
Hamilton	4	1.6	3	1.2	5	2.0	4	1.6	2	0.8	1.5
Harper	13	2.4	17	3.2	12	2.3	19	3.6	14	2.6	2.8
Harvey	63	1.8	56	1.6	47	1.4	62	1.8	50	1.5	1.6
Haskell	5	1.3	5	1.3	3	0.8	2	0.6	2	0.6	0.9
Hodgeman	5	2.8	1	0.6	3	1.8	2	1.1	2	1.2	1.5
Jackson	18	1.4	23	1.7	26	2.0	21	1.6	17	1.3	1.6
Jefferson	26	1.4	16	0.8	11	0.6	6	0.3	13	0.7	0.8
Jewell	7	2.4	4	1.4	6	2.0	4	1.4	3	1.1	1.7
Johnson	799	1.3	503	0.8	533	0.9	573	0.9	622	1.0	1.0
Kearny	12	3.1	3	0.8	3	0.8	6	1.6	4	1.0	1.5
Kingman	17	2.4	29	4.2	19	2.6	15	2.1	15	2.1	2.7
Kiowa	4	1.6	3	1.2	6	2.5	3	1.2	6	2.5	1.8
Labette	32	1.6	12	0.6	13	0.7	34	1.7	22	1.1	1.1
Lane	3	2.0	1	0.7	7	4.5	3	1.9	3	2.0	2.2
Leavenworth	177	2.2	128	1.6	79	1.0	85	1.0	49	0.6	1.3
Lincoln	10	3.4	6	2.0	4	1.4	8	2.8	6	2.1	2.3
Linn	30	3.1	26	2.7	32	3.3	27	2.8	25	2.5	2.9
Logan	11	3.9	4	1.5	7	2.6	5	1.8	4	1.5	2.3

Table F10
Marriage Dissolutions by County of Action and Peer Group*
by Number and Rate[†]
Kansas, 2019-2023

County of Action	2019		2020		2021		2022		2023		5-Year
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Rate
Lyon	62	1.9	55	1.7	60	1.9	47	1.5	62	1.9	1.8
McPherson	70	2.5	42	1.5	39	1.3	35	1.2	61	2.0	1.7
Marion	11	0.9	22	1.9	7	0.6	9	0.8	9	0.8	1.0
Marshall	17	1.8	8	0.8	18	1.8	27	2.7	14	1.4	1.7
Meade	2	0.5	7	1.7	2	0.5	5	1.3	8	2.0	1.2
Miami	115	3.4	82	2.4	125	3.6	88	2.5	68	1.9	2.8
Mitchell	18	3.0	14	2.4	17	3.0	14	2.4	20	3.5	2.9
Montgomery	121	3.8	91	2.9	78	2.5	64	2.1	63	2.1	2.7
Morris	9	1.6	13	2.3	7	1.3	6	1.1	11	2.1	1.7
Morton	6	2.3	0	0.0	2	0.7	7	2.7	1	0.4	1.2
Nemaha	16	1.6	11	1.1	14	1.4	17	1.7	11	1.1	1.4
Neosho	32	2.0	24	1.5	17	1.1	16	1.0	14	0.9	1.3
Ness	5	1.8	7	2.5	9	3.4	3	1.1	7	2.7	2.3
Norton	10	1.9	27	5.1	17	3.2	16	3.0	22	4.1	3.5
Osage	39	2.4	15	1.0	25	1.6	31	2.0	26	1.6	1.7
Osborne	6	1.8	3	0.9	6	1.7	8	2.3	3	0.9	1.5
Ottawa	20	3.5	11	1.9	12	2.1	16	2.8	10	1.7	2.4
Pawnee	24	3.7	22	3.5	21	3.4	14	2.3	16	2.6	3.1
Phillips	14	2.7	9	1.7	10	2.1	12	2.5	10	2.1	2.2
Pottawatomie	40	1.6	42	1.7	47	1.8	43	1.6	48	1.8	1.7
Pratt	16	1.7	17	1.9	30	3.3	21	2.3	11	1.2	2.1
Rawlins	7	2.8	10	4.0	8	3.1	0	0.0	3	1.2	2.2
Reno	166	2.7	99	1.6	107	1.7	95	1.5	92	1.5	1.8
Republic	14	3.0	9	2.0	13	2.8	9	1.9	12	2.6	2.5
Rice	13	1.4	13	1.4	7	0.7	9	1.0	15	1.6	1.2
Riley	142	1.9	151	2.1	113	1.6	129	1.8	145	2.0	1.9
Rooks	10	2.0	15	3.1	6	1.2	9	1.9	11	2.3	2.1
Rush	5	1.6	4	1.4	7	2.4	6	2.0	7	2.5	2.0
Russell	15	2.2	10	1.5	9	1.3	11	1.7	9	1.3	1.6
Saline	187	3.4	165	3.1	152	2.8	141	2.6	130	2.4	2.9
Scott	13	2.7	15	3.1	11	2.1	8	1.6	3	0.6	2.0
Sedgwick	1,363	2.6	1,099	2.1	1,382	2.6	1,181	2.2	1,116	2.1	2.3
Seward	58	2.7	53	2.5	60	2.8	40	1.9	21	1.0	2.2
Shawnee	302	1.7	303	1.7	275	1.5	276	1.6	274	1.5	1.6
Sheridan	5	2.0	12	4.8	5	2.0	6	2.5	3	1.2	2.5
Sherman	12	2.0	20	3.5	26	4.4	23	3.9	21	3.6	3.5
Smith	4	1.1	5	1.4	3	0.8	7	2.0	6	1.7	1.4
Stafford	4	1.0	8	2.0	5	1.2	5	1.3	2	0.5	1.2
Stanton	8	4.0	3	1.5	1	0.5	2	1.0	4	2.1	1.8
Stevens	19	3.5	6	1.1	13	2.5	3	0.6	5	1.0	1.7
Sumner	66	2.9	68	3.0	69	3.1	57	2.5	35	1.6	2.6
Thomas	28	3.6	29	3.8	31	3.9	18	2.3	21	2.7	3.2
Trego	6	2.1	5	1.8	6	2.1	9	3.3	6	2.2	2.3
Wabaunsee	9	1.3	13	1.9	15	2.2	9	1.3	0	0.0	1.3
Wallace	5	3.3	1	0.7	2	1.3	0	0.0	4	2.7	1.6
Washington	12	2.2	4	0.7	15	2.7	10	1.8	3	0.5	1.6
Wichita	3	1.4	0	0.0	2	1.0	5	2.4	1	0.5	1.1
Wilson	19	2.2	18	2.2	23	2.7	14	1.6	19	2.3	2.2
Woodson	7	2.2	3	1.0	0	0.0	2	0.6	0	0.0	0.8
Wyandotte	249	1.5	226	1.4	184	1.1	170	1.0	126	0.8	1.2
n.s.	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	n/a
Peer Group											
Frontier	227	2.1	193	1.9	226	2.1	223	2.1	182	1.7	2.0
Rural	698	3.1	552	2.5	634	2.6	503	2.1	413	1.7	2.4
Densely -Settled Rural	1090	2.4	890	1.9	832	1.9	759	1.7	692	1.6	1.9
Semi-Urban	1319	2.9	1164	2.6	1077	2.4	1048	2.3	991	2.2	2.5
Urban	3064	1.8	2370	1.4	2599	1.5	2421	1.4	2328	1.4	1.5

* See Technical Notes for Peer Group definition.
[†] Rate per 1,000 population

Figure F7. Marriage Rates
By County of Occurrence
Kansas, 2023
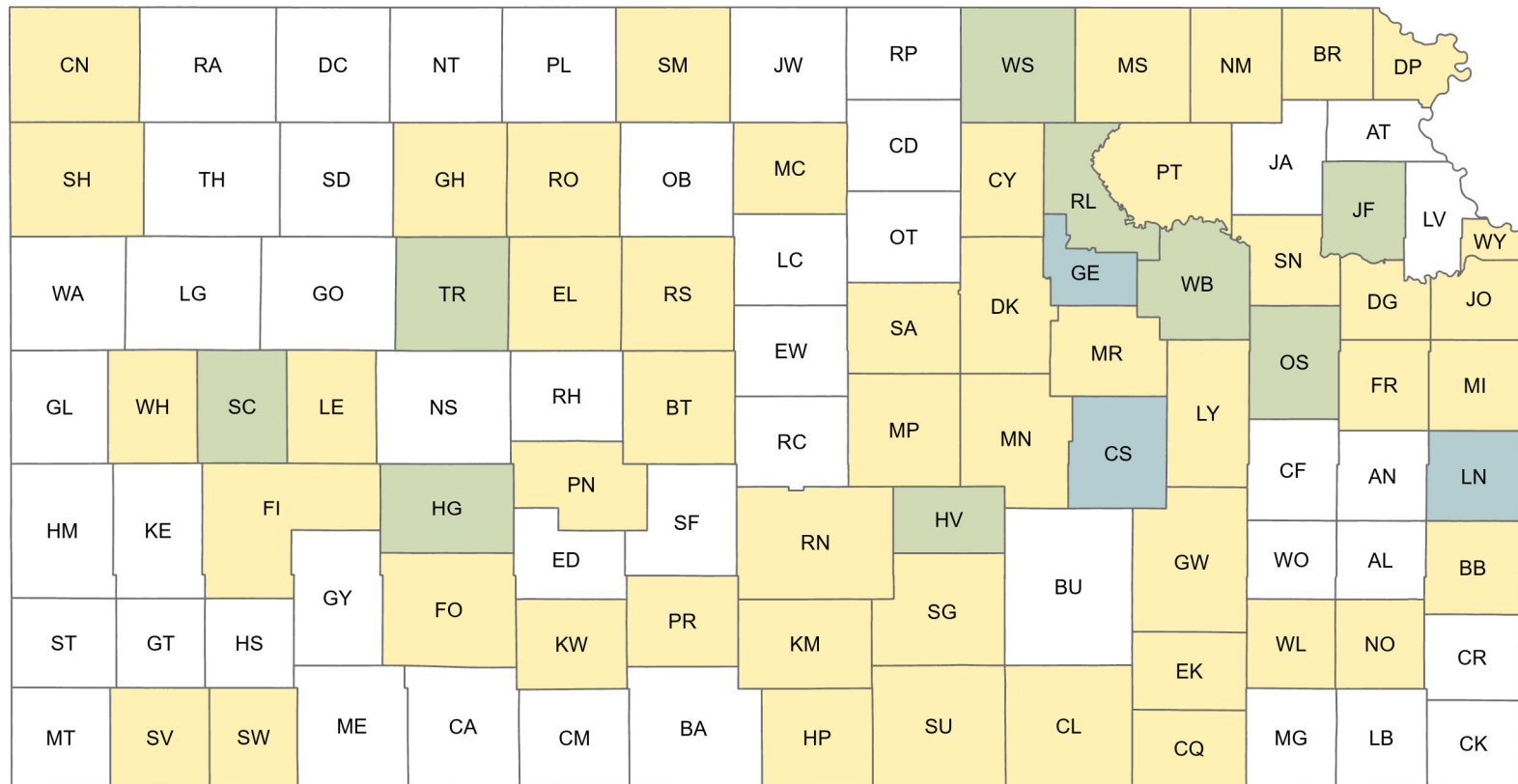
Marriages per 1,000 population

State Rate 5.3

MARRIAGE RATE

Under 4.5	4.5 - 6.4	6.5 - 8.9	9.0 and Over

Figure F8. Marriage Dissolution Rates
By County of Occurrence
Kansas, 2023
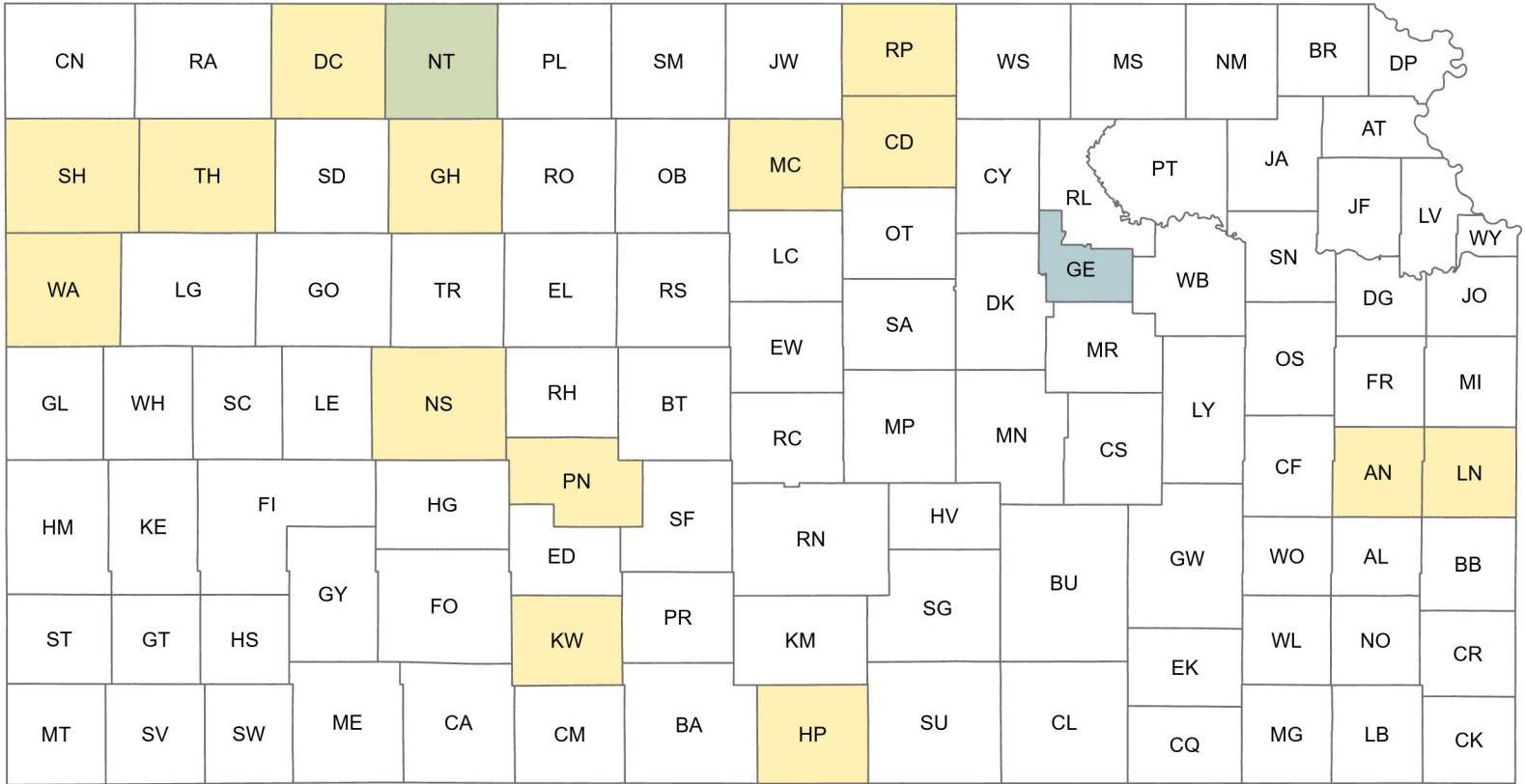
Marriage Dissolutions per 1,000 population

State Rate 1.6

DIVORCE RATE

| | Under 2.5 | | 2.5 - 3.9 | | 4.0 - 6.4 | | 6.5 and Over |

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TECHNICAL NOTES

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Technical Notes

General Considerations

Data Sources
Data derived on information collected on vital records (birth, stillbirth, death, marriage, and marriage dissolution) and abortion, serves as the basis for the following reports: Annual Summary of Vital Statistics, Vital Statistics Annual Tables, Adequacy of Prenatal Care Utilization Index, Adolescent and Teenage Pregnancy, Selected Special Statistics Stillbirths and Infant Deaths, Natality Report by Racial and Ethnic Population Groups.

Reporting of Kansas vital events to the Kansas Department of Health and Environment (KDHE) is mandated by law (K.S.A. 65-102, K.S.A. 65-2422b, K.S.A. 65-445). The filing of birth and death records began in 1911, the registration of marriages was initiated in 1913, and divorce tabulations started in 1951. The reporting of abortions began in 1970. Birth, death, stillbirth, marriage, marriage dissolution records, and abortion reports are completed by the combined efforts of physicians, hospital personnel, funeral directors, attorneys, and district courts. All records and reports are filed with the Office of Vital Statistics by direct reporting. Since the registration of vital events began, over 10 million records have been processed, filed, and indexed.

Quality of Data
The quality of the analyses in the *Annual Summary of Vital Statistics* depends on complete and accurate reporting of vital events. The Office of Vital Statistics (OVS) collects the records and works to ensure the completeness and accuracy of the records filed. OVS staff receive records for events that occur in the state. Other states or jurisdictions provide occurrence information on births, deaths, and stillbirths that occur to Kansas residents. In recent years an electronic interstate jurisdictional exchange system has been improving the timeliness of receipt of out-of-state records. Events involving Kansas from 56 other registration states/jurisdictions and Canada are shared with KDHE.

Vital events in BEPHI standard reports cover a calendar year, but are only included in the reports if they have been registered by June 30 of the succeeding year. The number of events received from other states after the cutoff is less than one percent of the total reports filed and does not have an impact on report statistics.

Incomplete reporting of marriage dissolution impacts statistics. As more counties and attorneys use the KDHE electronic reporting system, completeness has been improving. However, there may be some undercount. Users of marriage dissolution statistics should take this into account when interpreting the information.

Unknowns and Imputation
Unknown values in vital records can result in incomplete statistics. As part of ongoing data quality efforts, BEPHI identifies records with missing or illogical information and works with hospitals and physicians to fill in the blanks and correct mistakes. However, there are occasions when the information remains unknown in the analytical files used to create the statistics in this report.

BEPHI displays counts for "not stated" (N.S.) in tables and graphs throughout this publication. To ensure statistical accuracy in pregnancy outcome tables, the "not stated" count has been subtracted from the denominator when calculating percentages.

In limited instances, BEPHI will impute missing information using commonly accepted techniques in the civil registration/data analysis field. Imputation can either involve review of other information in the vital record to deduce the unknown value or using some form of algorithm to randomly assign a value. For 2015 data, the Bureau addressed unknowns or illogical values in age, county of residence, and sex. Cities and counties were corrected for spelling, city-county designation, and for missing information. Race

and ethnicity entries were corrected when "unknown" and a specified category were selected. Not every unknown can be corrected.

<u>Residence vs occurrence data</u>
Residence data is information compiled according to the usual residence regardless of where the event occurred (including events occurring out of state). Occurrence data is information compiled according to the geographical location where the event took place, regardless of the actual residence. Information compiled for births, stillbirths, and deaths in the *Annual Summary of Vital Statistics* are residence data, while marriages and marriage dissolutions are occurrence data; and abortions are reported in both data formats (residence and occurrence).

Definitions

The following terms, formulas, and symbols are defined for more meaningful interpretations of the data contained in this report.

Abortion (induced termination of pregnancy)	The use or prescription of any instrument, medicine, drug or any other substance or device to termination the pregnancy of a woman known to be pregnant with the intention other than to increase the probability of a live birth, to preserve the life or health of the child after live birth, or to remove a dead unborn child who died as the result of natural causes in utero, accidental trauma or criminal assault on the pregnant woman or her unborn child, and which causes the premature termination of the pregnancy. [K.S.A. 65-6701(a)].
Adequacy of Prenatal Care Utilization (APNCU) Index	An assessment of the adequacy of prenatal care measured by the APNCU Index (often referred to as the Kotelchuck Index), a composite measure based on gestational age of the newborn, the trimester prenatal care began, and the number of prenatal visits made.
Age-Adjusted Death Rate	A calculation by which the age composition of a population is defined as constant so that differences in age composition can be eliminated from the analysis.
Annulment	The invalidation of a marriage contract.
Birth Order	Live birth order is determined from birth certificates specifying the total number of live births (living and dead) the mother had. It is calculated as the sum of the prior live births plus the current birth.
Birth Weight	The weight of the fetus or infant at the time of delivery.
Body mass index (BMI)	A key index for relating a person's body weight to their height. The BMI is a person's weight in pounds times 703 divided by their height in inches squared.
Cause of Death	The underlying cause of death or that condition giving rise to the chain of events leading to death.
Congenital Anomalies	Defects existing at and usually before birth regardless of causation.
Divorce	The dissolution of a legally binding marriage contract.
Hebdomadal Death	The death of a live-born infant which occurs prior to the seventh day of life.
High Birth Weight	Weight of a fetus or infant at delivery which is 4,000 2,500 grams or higher (8 pounds 13 ounces or higher).
ICD Code	The cause-identifying number classified in the Tenth Revision of the International Classification of Diseases implemented by NCHS for deaths in 1999.
Infant Death	The death of a live-born infant which occurs within the first year of life.

Live Birth	The complete expulsion or extraction of a product of human conception from its mother, irrespective of the duration of pregnancy, that, after such expulsion or extraction, shows any evidence of life such as breathing, heartbeat, pulsation of the umbilical cord, or voluntary muscle movement, whether or not the umbilical cord has been cut or the placenta attached.
Low Birth Weight	Weight of a fetus or infant at delivery which is less than 2,500 grams (less than five pounds, 8 ounces).
Marriage	The legal union of two persons, traditionally male and female, but since 2015 includes the legal union of two persons of the same sex.
Marriage Dissolution	A marriage dissolved by either a divorce or an annulment.
Maternal Death	The death of a woman while pregnant or within 42 days of termination of pregnancy, irrespective of the duration and the site of the pregnancy, from any cause related to or aggravated by the pregnancy or its management, but not from accidental or incidental causes (Included in these deaths are ICD–10 codes A34, O00–O95, and O98–O99).
Medical Procedure I	Refers to use of the drug mifepristone as a pregnancy termination procedure.
Medical Procedure II	Refers to use of the drug methotrexate as a pregnancy termination procedure.
Natural Increase	Live births minus total deaths of a population within a given year.
Neonatal Death	The death of a live-born infant which occurs prior to the 28th day of life.
Normal Birth Weight	Weight of a fetus or infant at delivery which is between 2,500 and 3999 grams, inclusive (between 5 pounds 8 ounces and 8 pounds 12 ounces).
Occurrence Data	Vital statistics compiled on the basis of where the vital event happened.
Out-of-Wedlock Birth	A birth occurring to a mother who was not married at the time of conception or at the time of birth or at any time between conception and birth. Obsolete terminology. Current usage is Birth to Unmarried Mother, but the definition remains unchanged.
Peer Group	A group of counties with similar population densities in persons per square mile, as adopted by the Kansas Department of Health and Environment, Bureau of Local and Rural Health.
Perinatal Period III Death	The aggregate total of stillbirths (20 weeks or more gestation) and hebdomadal deaths (deaths that occur prior to the 7th day of life).
Population Density	The average number of inhabitants per square mile of land area.

Population Group	A reporting matrix of race and Hispanic origin (ethnicity) information comprised of distinct categories.
Post-Hebdomadal Death	The death of a live-born infant occurring seven days to prior to the twenty-eighth day of life.
Post-Neonatal Death	The death of a live-born infant occurring 28 days to prior to the 365th day of life.
Pregnancy-Associated Death	The death of any woman, from any cause, while pregnant or within one calendar year of termination of pregnancy, regardless of the duration and the site of pregnancy. Maternal deaths are a subset of pregnancy-associated deaths.
Prenatal Care	Pregnancy-related health care services provided to a woman between conception and delivery.
Previous Pregnancy	Includes all previous reported spontaneous terminations, previous induced abortions, children born still living and children born now dead.
Puerperium	Period of time after delivery, usually six to eight weeks, during which all maternal reproductive organs return to the normal pre-pregnancy condition.
Small for Gestational Age (SGA)	Condition where the live born infant's birth weight lies below the 10th percentile for that gestational age.
Stillbirth	Effective July 1, 2014, the definition of stillbirth changed. The new definition is: "Any complete expulsion or extraction from its mother of a product of human conception, the gestation of which is 20 weeks or greater, resulting in other than a live birth, and which is not an induced termination of pregnancy." The old definition used until June 30, 2014 used a fetal weight value of greater than 350 grams to determine whether a miscarriage was a reportable stillbirth.
Residence Data	Vital statistics compiled on the basis of the usual place of residence of the person(s) to whom the vital event occurred.
Teenage Pregnancy	A live birth, stillbirth or abortion occurring to a female under 20 years of age.
Total Reported	Used only for abortion reporting this represents all abortions reported regardless of residence or occurrence locations.

Trimester	A three-month period of time. First trimester care, for example, refers to care initiated in the first three months of pregnancy. When a pregnancy runs past the normal nine months (up to 11.75 months of pregnancy are possible according to CDC guidance) the additional months are considered part of the third trimester.
Very Low Birth Weight	Weight of a fetus or infant at delivery which is less than 1,500 grams (less than 3 pounds, 5 ounces).
Weeks Gestation	The number of weeks between first day of the last reported normal menses and the delivery of the fetus or infant.
Work-Related Injury	"Yes" has been selected in death certificate box 27c INJURY AT WORK.
Years of Life Expectancy at Birth	The hypothetical number of years a newborn would live, on average, if (s)he experienced the levels of mortality prevailing within each age group at the time of his birth as he aged. The method used to calculate life expectancy for the Annual Summary is based on that posted by David Backus (Heinz Riehl Professor, Stern School of Business, New York University) at pages.stern.nyu.edu/~dbackus/BCH/ms/Espen liveexpectancy.pdf.
Years of Potential Life Lost (YPLL75)	A measurement of the number of years of potential life lost by each death occurring before the age of 75.

Rates and Ratios

RATE OR RATIO	NUMERATOR / DENOMINATOR	MULTIPLIER
Abortion Ratio	(induced abortions)/ (live births)	X 1,000
Age-Adjusted Death Rate	$\sum (Ma \times Pa)/P$ Where Ma = age-specific death rate per 1,000 or 100,000 population for a given age-group Pa = standard population in a given age-group P = total standard population	X 1,000 or 100,000
Age-Specific Death Rate	(deaths in a specific age-group) / (population in a specific age-group)	X 1,000
Age-Specific Fertility Rate	(live births in a specific age-group) / (female population in a specific age-group)	X 1,000
Birth Rate	(live births) / (total population)	X 1,000
Cause-Specific Death Rate	(cause-specific deaths) / (total population)	X 100,000
Death Rate	(total deaths) / (total population)	X 1,000
Divorce Rate	(divorces) / (total population)	X 1,000
Marriage Dissolution Rate	(divorces and annulments) / (total population)	X 1,000
Fertility Rate	(live births) / (female population 15-44)	x 1,000
Stillbirth Rate	(stillbirths) / (live births + stillbirths)	X 1,000
Hebdomadal Death Rate	(hebdomadal deaths) / (live births)	X 1,000
Infant Death Rate	(infant deaths) / (live births)	X 1,000
Marriage Rate	(marriages) / (total population)	X 1,000
Maternal Death Rate	(maternal deaths) / (live births)	X 100,000
Natural Increase Rate	(live birth rate) – (total death rate)	
Neonatal Death Rate	(neonatal deaths) / (live births)	X 1,000
Out-of-Wedlock Birth Ratio	(out-of-wedlock births) / (live births)	X 100
Perinatal Period III Death Rate	(perinatal period III deaths / (live births + stillbirths)	X 1,000
Post-Neonatal Death Rate	(post-neonatal deaths) / (live births)	X 1,000
Teenage Pregnancy Rate	(live births, stillbirths, and abortions for defined age-group) / (female population in defined age-group)	X 1,000
Years of Potential Life Lost Rate	(years of potential life lost) / (population)	X 1,000

Abbreviations

SYMBOL OR ABBREVIATION	DEFINITION
n.s.	not stated
n.a.	not available
n/a	not applicable
0.0	quantity or percent more than zero but less than 0.05

Geography: Counties and Peer Groups

For various demographic studies, it is useful to compare county statistics to counties with similar characteristics. "Peer groups" of counties, as used in this report, are defined as those with similar population density based on a method derived by the KDHE Bureau of Community Health Systems. (See Appendices 1 and 2 for county tables indicating population density peer group membership before and after the 2010 U.S. Census.) Peer groups are updated after every census.

BEPHI uses peer groups in county statistics tables. Based on the 2010 U.S. Census, eight Kansas counties changed peer groups. Based on the 2020 U.S. Census, two Kansas counties changed peer groups. Sources for calculation of population densities in any given decade are population figures from the U.S. Census at the start of the decade and accompanying land areas provided by the US. Census Bureau. In order to facilitate a time series comparison, peer-group statistics for prior years continue to be based on the peer-group in effect during that decade.[1]

Frontier counties are defined as those with less than 6.0 persons per square mile, Rural counties as those with 6.0 - 19.9 persons per square mile, Densely-Settled Rural counties as those with 20.0 - 39.9 persons per square mile, Semi-Urban counties as those with 40.0 - 149.9 persons per square mile, and Urban counties as those with 150.0 or more persons per square mile. These designations should not be confused with the USCB definitions of urban and rural areas.

Peer Group	Population Density (per square mile)
Frontier	< 6
Rural	6.0 – 19.9
Densely-Settled Rural	20.0 – 39.9
Semi-Urban	40.0 – 149.9
Urban	150.0 and Up

The following table indicates the peer group classifications of Kansas counties after each U.S. Census. Red highlighting indicates a change in classification from that of the previous decade.

County Name	FIPS Code	Abbreviation	Population Density Peer Group (2020)	Population Density Peer Group (2010)	Population Density Peer Group (2000)
Allen	001	AL	Densely-Settled Rural	Densely-Settled Rural	Densely-Settled Rural
Anderson	003	AN	Rural	Rural	Rural
Atchison	005	AT	Densely-Settled Rural	Densely-Settled Rural	Densely-Settled Rural
Barber	007	BA	Frontier	Frontier	Frontier
Barton	009	BT	Densely-Settled Rural	Densely-Settled Rural	Densely-Settled Rural
Bourbon	011	BB	Densely-Settled Rural	Densely-Settled Rural	Densely-Settled Rural
Brown	013	BR	Rural	Rural	Rural
Butler	015	BU	Semi-Urban	Semi-Urban	Semi-Urban
Chase	017	CS	Frontier	Frontier	Frontier
Chautauqua	019	CQ	Frontier	Frontier	Rural
Cherokee	021	CK	Densely-Settled Rural	Densely-Settled Rural	Densely-Settled Rural
Cheyenne	023	CN	Frontier	Frontier	Frontier
Clark	025	CA	Frontier	Frontier	Frontier
Clay	027	CY	Rural	Rural	Rural
Cloud	029	CD	Rural	Rural	Rural

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[1] Statistical Measures and Definitions. National Association of Public Health Statistics and Information Systems. Retrieved 10/5/2011 from https://naphsis-web.sharepoint.com/Pages/StatisticalMeasuresandDefinitions.aspx.

Coffey	031	CF	Rural	Rural	Rural
Comanche	033	CM	Frontier	Frontier	Frontier
Cowley	035	CL	Densely-Settled Rural	Densely-Settled Rural	Densely-Settled Rural
Crawford	037	CR	Semi-Urban	Semi-Urban	Semi-Urban
Decatur	039	DC	Frontier	Frontier	Frontier
Dickinson	041	DK	Densely-Settled Rural	Densely-Settled Rural	Densely-Settled Rural
Doniphan	043	DP	Densely-Settled Rural	Densely-Settled Rural	Densely-Settled Rural
Douglas	045	DG	Urban	Urban	Urban
Edwards	047	ED	Frontier	Frontier	Frontier
Elk	049	EK	Frontier	Frontier	Frontier
Ellis	051	EL	Densely-Settled Rural	Densely-Settled Rural	Densely-Settled Rural
Ellsworth	053	EW	Rural	Rural	Rural
Finney	055	FI	Densely-Settled Rural	Densely-Settled Rural	Densely-Settled Rural
Ford	057	FO	Densely-Settled Rural	Densely-Settled Rural	Densely-Settled Rural
Franklin	059	FR	Semi-Urban	Semi-Urban	Semi-Urban
Geary	061	GE	Semi-Urban	Semi-Urban	Semi-Urban
Gove	063	GO	Frontier	Frontier	Frontier
Graham	065	GH	Frontier	Frontier	Frontier
Grant	067	GT	Rural	Rural	Rural
Gray	069	GY	Rural	Rural	Rural
Greeley	071	GL	Frontier	Frontier	Frontier
Greenwood	073	GW	Frontier	Frontier	Rural
Hamilton	075	HM	Frontier	Frontier	Frontier
Harper	077	HP	Rural	Rural	Rural
Harvey	079	HV	Semi-Urban	Semi-Urban	Semi-Urban
Haskell	081	HS	Rural	Rural	Rural
Hodgeman	083	HG	Frontier	Frontier	Frontier
Jackson	085	JA	Densely-Settled Rural	Densely-Settled Rural	Rural
Jefferson	087	JF	Densely-Settled Rural	Densely-Settled Rural	Densely-Settled Rural
Jewell	089	JW	Frontier	Frontier	Frontier
Johnson	091	JO	Urban	Urban	Urban
Kearny	093	KE	Frontier	Frontier	Frontier
Kingman	095	KM	Rural	Rural	Rural
Kiowa	097	KW	Frontier	Frontier	Frontier
Labette	099	LB	Densely-Settled Rural	Densely-Settled Rural	Densely-Settled Rural
Lane	101	LE	Frontier	Frontier	Frontier
Leavenworth	103	LV	Urban	Urban	Semi-Urban
Lincoln	105	LC	Frontier	Frontier	Frontier
Linn	107	LN	Rural	Rural	Rural
Logan	109	LG	Frontier	Frontier	Frontier
Lyon	111	LY	Densely-Settled Rural	Densely-Settled Rural	Semi-Urban
McPherson	113	MP	Densely-Settled Rural	Densely-Settled Rural	Densely-Settled Rural
Marion	115	MN	Rural	Rural	Rural
Marshall	117	MS	Rural	Rural	Rural
Meade	119	ME	Frontier	Frontier	Frontier
Miami	121	MI	Semi-Urban	Semi-Urban	Semi-Urban
Mitchell	123	MC	Rural	Rural	Rural
Montgomery	125	MG	Semi-Urban	Semi-Urban	Semi-Urban
Morris	127	MR	Rural	Rural	Rural
Morton	129	MT	Frontier	Frontier	Frontier
Nemaha	131	NM	Rural	Rural	Rural
Neosho	133	NO	Densely-Settled Rural	Densely-Settled Rural	Densely-Settled Rural
Ness	135	NS	Frontier	Frontier	Frontier
Norton	137	NT	Rural	Rural	Rural
Osage	139	OS	Densely-Settled Rural	Densely-Settled Rural	Densely-Settled Rural
Osborne	141	OB	Frontier	Frontier	Frontier

Ottawa	143	OT	Rural	Rural	Rural
Pawnee	145	PN	Rural	Rural	Rural
Phillips	147	PL	Frontier	Rural	Rural
Pottawatomie	149	PT	Densely-Settled Rural	Densely-Settled Rural	Densely-Settled Rural
Pratt	151	PR	Rural	Rural	Rural
Rawlins	153	RA	Frontier	Frontier	Frontier
Reno	155	RN	Semi-Urban	Semi-Urban	Semi-Urban
Republic	157	RP	Rural	Rural	Rural
Rice	159	RC	Rural	Rural	Rural
Riley	161	RL	Semi-Urban	Semi-Urban	Semi-Urban
Rooks	163	RO	Frontier	Frontier	Rural
Rush	165	RH	Frontier	Frontier	Frontier
Russell	167	RS	Rural	Rural	Rural
Saline	169	SA	Semi-Urban	Semi-Urban	Semi-Urban
Scott	171	SC	Rural	Rural	Rural
Sedgwick	173	SG	Urban	Urban	Urban
Seward	175	SW	Densely-Settled Rural	Densely-Settled Rural	Densely-Settled Rural
Shawnee	177	SN	Urban	Urban	Urban
Sheridan	179	SD	Frontier	Frontier	Frontier
Sherman	181	SH	Frontier	Frontier	Rural
Smith	183	SM	Frontier	Frontier	Frontier
Stafford	185	SF	Frontier	Frontier	Rural
Stanton	187	ST	Frontier	Frontier	Frontier
Stevens	189	SV	Rural	Rural	Rural
Sumner	191	SU	Rural	Densely-Settled Rural	Densely-Settled Rural
Thomas	193	TH	Rural	Rural	Rural
Trego	195	TR	Frontier	Frontier	Frontier
Wabaunsee	197	WB	Rural	Rural	Rural
Wallace	199	WA	Frontier	Frontier	Frontier
Washington	201	WS	Rural	Rural	Rural
Wichita	203	WH	Frontier	Frontier	Frontier
Wilson	205	WL	Rural	Rural	Rural
Woodson	207	WO	Rural	Rural	Rural
Wyandotte	209	WY	Urban	Urban	Urban

Geography: County Groupings Used in KIC

County Name	FIPS Code	Abbreviation	KDHE District Office	Health Preparedness Region
Allen	001	AL	SE	512
Anderson	003	AN	SE	512
Atchison	005	AT	NE	509
Barber	007	BA	SW	511
Barton	009	BT	NW	501
Bourbon	011	BB	SE	512
Brown	013	BR	NE	509
Butler	015	BU	SC	505
Chase	017	CS	SC	502
Chautauqua	019	CQ	SE	506
Cherokee	021	CK	SE	506
Cheyenne	023	CN	NW	508
Clark	025	CA	SW	514
Clay	027	CY	NC	507
Cloud	029	CD	NC	507
Coffey	031	CF	SE	502

Comanche	033	CM	SW	511
Cowley	035	CL	SC	505
Crawford	037	CR	SE	506
Decatur	039	DC	NW	508
Dickinson	041	DK	NC	507
Doniphan	043	DP	NE	509
Douglas	045	DG	NE	504
Edwards	047	ED	SW	511
Elk	049	EK	SE	506
Ellis	051	EL	NW	508
Ellsworth	053	EW	NC	507
Finney	055	FI	SW	516
Ford	057	FO	SW	514
Franklin	059	FR	NE	502
Geary	061	GE	NC	517
Gove	063	GO	NW	515
Graham	065	GH	NW	508
Grant	067	GT	SW	513
Gray	069	GY	SW	514
Greeley	071	GL	SW	516
Greenwood	073	GW	SE	502
Hamilton	075	HM	SW	516
Harper	077	HP	SC	511
Harvey	079	HV	SC	505
Haskell	081	HS	SW	514
Hodgeman	083	HG	SW	514
Jackson	085	JA	NE	509
Jefferson	087	JF	NE	509
Jewell	089	JW	NC	507
Johnson	091	JO	NE	504
Kearny	093	KE	SW	516
Kingman	095	KM	SC	511
Kiowa	097	KW	SW	511
Labette	099	LB	SE	506
Lane	101	LE	SW	516
Leavenworth	103	LV	NE	504
Lincoln	105	LC	NC	507
Linn	107	LN	SE	504
Logan	109	LG	NW	515
Lyon	111	LY	SE	502
McPherson	113	MP	NC	501
Marion	115	MN	NC	505
Marshall	117	MS	NE	509
Meade	119	ME	SW	514
Miami	121	MI	NE	504
Mitchell	123	MC	NC	507
Montgomery	125	MG	SE	506
Morris	127	MR	NC	502
Morton	129	MT	SW	513
Nemaha	131	NM	NE	509
Neosho	133	NO	SE	506
Ness	135	NS	NW	515
Norton	137	NT	NW	508
Osage	139	OS	NE	502
Osborne	141	OB	NW	507
Ottawa	143	OT	NC	507

Pawnee	145	PN	SW	501
Phillips	147	PL	NW	508
Pottawatomie	149	PT	NE	517
Pratt	151	PR	SW	511
Rawlins	153	RA	NW	508
Reno	155	RN	SC	505
Republic	157	RP	NC	507
Rice	159	RC	NC	501
Riley	161	RL	NC	517
Rooks	163	RO	NW	508
Rush	165	RH	NW	508
Russell	167	RS	NW	507
Saline	169	SA	NC	501
Scott	171	SC	SW	516
Sedgwick	173	SG	SC	505
Seward	175	SW	SW	513
Shawnee	177	SN	NE	509
Sheridan	179	SD	NW	515
Sherman	181	SH	NW	515
Smith	183	SM	NW	507
Stafford	185	SF	SW	501
Stanton	187	ST	SW	513
Stevens	189	SV	SW	513
Sumner	191	SU	SC	505
Thomas	193	TH	NW	508
Trego	195	TR	NW	515
Wabaunsee	197	WB	NE	502
Wallace	199	WA	NW	516
Washington	201	WS	NC	507
Wichita	203	WH	SW	516
Wilson	205	WL	SE	506
Woodson	207	WO	SE	512
Wyandotte	209	WY	NE	504

Key to Health Preparedness Regions codes

Code	Description
501	Central Kansas Region
502	East Central Coalition
504	Kansas City Metro Region
505	Kansas South-Central Metro
506	Lower Eight of Southeast
507	North Central Kansas Public Health Initiative
508	North West Bioterrorism Region
509	Northeast Corner Regional Initiative
511	South Central Coalition
512	Southeast Kansas Multi-County
513	Southwest Kansas Health Initiative
514	Southwest Surveillance
515	West Central Public Health Initiative
516	West Pyramid Public Health Region
517	Wildcat Region

Geography: Cities Included in Annual Tables

Cities with population of 1,000 or more as of the latest census are included in several of the Annual Tables. Cities with populations of 2,500 or more are included in several tables in the Annual Summary of Vital Statistics. Cities are added or deleted from these tables after each census. (It appears that no adjustments to the Cities 1,000 list were made after the 2010 Census. However, cities were added and deleted from Annual Tables after the 2000 Census.)

Note on alphabetization: tables in the Annual Tables and the Annual Summary use Federal custom: names that begin with MC are alphabetized before all other names that begin with M; names that begin with ST. are alphabetized as if the name were spelled out as SAINT.

In the following table, red highlighting indicates that the population of a city had dropped below the threshold for inclusion in either the Annual Tables or the Annual Summary. Blue highlighting indicates that the population had increased to the point that it would be included in subsequent Annual Tables or Annual Summaries. Two cities with red text were carried on in the Annual Tables long after they should have been dropped. That error has since been corrected.

CITY	FIPS CODE	COUNTY	2000	2010	2020
ABILENE	00125	DICKINSON	6,543	6,844	6,460
ALTAMONT	01550	LABETTE	1,092	1,080	1,061
ANDOVER	01800	BUTLER	6,698	11,791	14,892
ANTHONY	01975	HARPER	2,440	2,269	2,108
ARKANSAS CITY	02300	COWLEY	11,963	12,415	11,974
ARMA	02375	CRAWFORD	1,529	1,481	1,407
ATCHISON	02900	ATCHISON	10,232	11,021	10,885
ATWOOD	03150	RAWLINS	1,279	1,194	1,290
AUBURN	03250	SHAWNEE	1,121	1,227	1,273
AUGUSTA	03300	BUTLER	8,423	9,274	9,256
BALDWIN	03900	DOUGLAS	3,400	4,515	4,826
BASEHOR	04400	LEAVENWORTH	2,238	4,613	6,896
BAXTER SPRINGS	04625	CHEROKEE	4,602	4,238	3,888
BEL AIRE	05337	SEDGWICK	5,836	6,769	8,262
BELLE PLAINE	05500	SUMNER	1,708	1,681	1,467
BELLEVILLE	05600	REPUBLIC	2,239	1,991	2,007
BELOIT	05775	MITCHELL	4,019	3,835	3,404
BLUE RAPIDS	07650	MARSHALL	1,088	1,019	928
BONNER SPRINGS	07975	*	6,768	7,314	7,837
BUHLER	09200	RENO	1,358	1,327	1,325
BURLINGAME	09350	OSAGE	1,017	934	971
BURLINGTON	09400	COFFEY	2,790	2,674	2,634
CALDWELL	09900	SUMNER	1,284	1,068	1,025
CANEY	10375	MONTGOMERY	2,092	2,203	1,788
CARBONDALE	10600	OSAGE	1,478	1,437	1,352
CHANUTE	12500	NEOSHO	9,411	9,119	8,722
CHAPMAN	12550	DICKINSON	1,241	1,393	1,377
CHENEY	12775	SEDGWICK	1,783	2,094	2,181
CHERRYVALE	12925	MONTGOMERY	2,383	2,367	2,192
CHETOPA	12950	LABETTE	1,281	1,125	929
CIMARRON	13275	GRAY	1,934	2,184	1,981
CLAY CENTER	13625	CLAY	4,564	4,334	4,199
CLEARWATER	13925	SEDGWICK	2,178	2,481	2,653
COFFEYVILLE	14600	MONTGOMERY	11,021	10,295	8,826
COLBY	14650	THOMAS	5,450	5,387	5,570

COLUMBUS	15075	CHEROKEE	3,396	3,312	2,929
COLWICH	15100	SEDGWICK	1,229	1,327	1,455
CONCORDIA	15200	CLOUD	5,714	5,395	5,111
CONWAY SPRINGS	15325	SUMNER	1,322	1,272	1,086
COUNCIL GROVE	15925	MORRIS	2,321	2,182	2,140
DERBY	17800	SEDGWICK	17,807	22,158	25,625
DE SOTO	17850	*	4,561	5,720	6,118
DIGHTON	18050	LANE	1,261	1,038	960
DODGE CITY	18250	FORD	25,176	27,340	27,788
DOUGLASS	18400	BUTLER	1,813	1,700	1,555
DOWNS	18500	OSBORNE	1,038	900	800
EDGERTON	19825	JOHNSON	1,440	1,671	1,748
EDWARDSVILLE	20000	WYANDOTTE	4,146	4,340	4,717
EL DORADO	20075	BUTLER	12,057	13,021	12,870
ELKHART	20350	MORTON	2,233	2,205	1,888
ELLINWOOD	20425	BARTON	2,164	2,131	2,011
ELLIS	20450	ELLIS	1,873	2,062	1,958
ELLSWORTH	20500	ELLSWORTH	2,965	3,120	3,066
ELWOOD	20950	DONIPHAN	1,145	1,224	1,125
EMPORIA	21275	LYON	26,760	24,916	24,139
ERIE	21500	NEOSHO	1,211	1,150	1,047
EUDORA	21675	DOUGLAS	4,307	6,136	6,408
EUREKA	21800	GREENWOOD	2,914	2,633	2,332
FAIRWAY	22700	JOHNSON	3,952	2,882	4,170
FORT LEAVENWORTH		LEAVENWORTH	DROP	DROP	DROP
FORT SCOTT	24000	BOURBON	8,297	8,087	7,552
FREDONIA	24575	WILSON	2,600	2,482	2,151
FRONTENAC	24850	CRAWFORD	2,996	3,437	3,382
GALENA	25100	CHEROKEE	3,287	3,085	2,761
GARDEN CITY	25325	FINNEY	28,451	26,658	28,151
GARNDER	25425	JOHNSON	9,396	19,123	23,287
GARNETT	25925	ANDERSON	3,368	3,415	3,242
GIRARD	26300	CRAWFORD	2,773	2,789	2,496
GODDARD	26725	SEDGWICK	2,037	3,344	5,084
GOODLAND	26875	SHERMAN	4,948	4,489	4,465
GRANDVIEW PLAZA	27425	GEARY	1,184	1,560	1,697
GREAT BEND	28300	BARTON	15,345	15,995	14,733
GREENSBURG	28675	KIOWA	1,574	777	740
HALSTEAD	29600	HARVEY	1,873	2,085	2,179
HARPER	30175	HARPER	1,567	1,473	1,313
HAVEN	30725	RENO	1,175	1,237	1,170
HAYS	31100	ELLIS	20,013	20,510	21,116
HAYSVILLE	31125	SEDGWICK	8,5012	10,826	11,262
HERINGTON	31400	*	2,563	2,526	2,109
HESSTON	31600	HARVEY	3,509	3,709	3,505
HIAWATHA	31675	BROWN	3,417	3,172	3,280
HILL CITY	32175	GRAHAM	1,604	1,474	1,403
HILLSBORO	32275	MARION	2,854	2,993	2,732
HOISINGTON	32550	BARTON	2,975	2,706	2,699
HOLCOMB	32575	FINNEY	2,026	2,094	2,245
HOLTON	32825	JACKSON	3,353	3,329	3,401
HORTON	33200	BROWN	1,967	1,776	1,523
HOXIE	33350	SHERIDAN	1,244	1,201	1,211
HUGOTON	33425	STEVENS	3,708	3,904	3,747
HUMBOLDT	33450	ALLEN	1,999	1,953	1,847
HUTCHINSON	33625	RENO	40,787	42,080	40,006

INDEPENDENCE	33875	MONTGOMERY	9,846	9,483	8,548
INMAN	34275	MCPHERSON	1,142	1,377	1,341
IOLA	34300	ALLEN	6,302	5,704	5,396
JOHNSON CITY	35600	STANTON	1,528	1,495	1,464
JUNCTION CITY	35750	GEARY	20,671	23,353	22,932
KANSAS CITY	36000	WYANDOTTE	146,866	145,786	156,607
KINGMAN	36950	KINGMAN	3,387	3,177	3,105
KINSLEY	37075	EDWARDS	1,658	1,457	1,456
KIOWA	37125	BARBER	1,055	1,026	902
LA CROSSE	37500	RUSH	1,376	1,342	1,266
LA CYGNE	37575	LINN	1,115	1,149	1,050
LAKE QUIVIRA	37975	*	932	906	1,014
LAKIN	38175	KEARNY	2,316	2,216	2,205
LANSING	38650	LEAVENWORTH	9,199	11,265	11,239
LARNED	38700	PAWNEE	4,236	4,050	3,769
LAWRENCE	38900	DOUGLAS	80,098	87,643	94,934
LEAVENWORTH	39000	LEAVENWORTH	35,420	35,251	37,351
LEAWOOD	39075	JOHNSON	27,656	31,867	33,902
LENEXA	39350	JOHNSON	40,238	48,190	57,434
LEOTI	39550	WICHITA	1,598	1,534	1,475
LIBERAL	39825	SEWARD	19,666	20,525	19,825
LINCOLN CENTER	41300	LINCOLN	1,349	1,297	1,171
LINDSBORG	41375	MCPHERSON	3,321	3,458	3,776
LOUISBURG	42875	MIAMI	2,576	4,315	4,969
LYNDON	43350	OSAGE	1,038	1,052	1,037
LYONS	43525	RICE	3,372	3,739	3,611
MCPHERSON	43950	MCPHERSON	13,770	13,155	14,082
MAIZE	44200	SEDGWICK	1,868	3,420	5,735
MANHATTAN	44250	*	44,831	52,281	54,100
MARION	44750	MARION	2,110	1,927	1,922
MARYSVILLE	45050	MARSHALL	3,271	3,294	3,447
MEADE	45325	MEADE	1,672	1,721	1,505
MEDICINE LODGE	45500	BARBER	2,193	2,009	1,781
MERRIAM	46000	JOHNSON	11,008	11,003	11,098
MINNEAPOLIS	47075	OTTAWA	2,046	2,032	1,946
MISSION	47225	JOHNSON	9,727	9,323	9,954
MISSION HILLS	47350	JOHNSON	3,593	3,498	3,594
MOUNDRIDGE	48800	MCPHERSON	1,593	1,737	1,974
MULBERRY	49025	CRAWFORD	DROP	DROP	DROP
MULVANE	49100	*	5,155	6,111	6,286
NEODESHA	49650	WILSON	2,848	2,486	2,275
NESS CITY	49925	NESS	1,534	1,449	1,329
NEWTON	50475	HARVEY	17,190	19,132	18,602
NICKERSON	50525	RENO	1,194	1,070	1,058
NORTH NEWTON	51225	HARVEY	1,522	1,759	1,814
NORTON	51500	NORTON	3,017	2,928	2,747
OAKLEY	51825	*	2,173	2,045	2,046
OBERLIN	52000	DECATUR	1,994	1,788	1,644
OGDEN	52275	RILEY	1,762	2,087	1,661
OLATHE	52575	JOHNSON	92,962	125,872	141,290
OSAGE CITY	53200	OSAGE	3,034	2,943	2,861
OSAWATOMIE	53225	MIAMI	4,645	4,447	4,255
OSBORNE	53325	OSBORNE	1,607	1,431	1,335
OSKALOOSA	53375	JEFFERSON	1,165	1,113	1,110
OSWEGO	53450	LABETTE	2,046	1,829	1,668
OTTAWA	53550	FRANKLIN	11,921	12,649	12,625

OVERBROOK	53725	OSAGE	947	1,058	1,005
OVERLAND PARK	53775	JOHNSON	149,080	173,372	197,238
OXFORD	53850	SUMNER	1,173	1,049	1,048
PAOLA	54250	MIAMI	5,011	5,602	5,768
PARK CITY	54450	SEDGWICK	5,814	7,297	8,333
PARSONS	54675	LABETTE	11,514	10,500	9,600
PEABODY	55100	MARION	1,384	1,210	937
PHILLIPSBURG	55675	PHILLIPS	2,668	2,581	2,337
PITTSBURG	56025	CRAWFORD	19,243	20,233	20,646
PLAINVILLE	56150	ROOKS	2,029	1,903	1,746
PLEASANTON	56450	LINN	1,387	1,216	1,208
POMONA	57000	FRANKLIN	923	832	884
PRAIRIE VILLAGE	57575	JOHNSON	22,072	21,447	22,957
PRATT	57625	PRATT	6,570	6,835	6,603
ROELAND PARK	60825	JOHNSON	6,817	6,731	6,871
ROSE HILL	61250	BUTLER	3,432	3,391	4,185
ROSSVILLE	61400	SHAWNEE	1,014	1,151	1,105
RUSSELL	61825	RUSSELL	4,696	4,506	4,401
SABETHA	62025	*	2,589	2,571	2,545
ST. FRANCIS	62175	CHEYENNE	1,497	1,329	1,263
ST. JOHN	62275	STAFFORD	1,318	1,295	1,228
ST. MARYS	62400	*	2,198	2,627	2,759
SALINA	62700	SALINE	45,679	47,707	46,889
SCOTT CITY	63600	SCOTT	3,855	3,816	4,113
SEDAN	63750	CHAUTAUQUA	1,342	1,124	1,000
SEDGWICK	63800	*	1,537	1,695	1,603
SENECA	63950	NEMAHA	2,122	1,991	2,139
SHAWNEE	64500	JOHNSON	47,996	62,209	67,311
SILVER LAKE	65600	SHAWNEE	1,358	1,439	1,345
SMITH CENTER	65925	SMITH	1,831	1,665	1,571
SOLOMON	66275	*	1,072	1,095	993
SOUTH HUTCHINSON	66750	RENO	2,539	2,457	2,521
SPRING HILL	67625	*	2,727	5,437	7,952
STAFFORD	67775	STAFFORD	1,161	1,042	959
STERLING	68200	RICE	2,642	2,328	2,248
STOCKTON	68350	ROOKS	1,558	1,329	1,480
SUBLETTE	68775	HASKELL	1,592	1,453	1,413
SYRACUSE	69850	HAMILTON	1,824	1,812	1,826
TONGANOXIE	70800	LEAVENWORTH	2,728	4,996	5,573
TOPEKA	71000	SHAWNEE	122,377	127,473	126,587
TOWANDA	71125	BUTLER	1,338	1,450	1,447
ULYSSES	71975	GRANT	5,960	6,161	5,788
VALLEY CENTER	73250	SEDGWICK	4,883	6,822	7,340
VALLEY FALLS	73300	JEFFERSON	1,254	1,192	1,092
VICTORIA	73775	ELLIS	1,208	1,214	1,129
WAKEENEY	74450	TREGO	1,924	1,862	1,799
WAMEGO	75325	POTTAWATOMIE	4,246	4,372	4,841
WASHINGTON	75825	WASHINGTON	1,223	1,131	1,071
WATHENA	76000	DONIPHAN	1,348	1,364	1,246
WELLINGTON	76475	SUMNER	8,647	8,172	7,715
WELLSVILLE	76625	FRANKLIN	1,606	1,857	1,953
WESTWOOD	77500	JOHNSON	1,533	1,506	1,750
WICHITA	79000	SEDGWICK	344,284	382,368	397,532
WINFIELD	79950	COWLEY	12,206	12,301	11,777
YATES CENTER	80700	WOODSON	1,599	1,417	1,352

Cities in the list above with * in the COUNTY column have land in more than one county within their city limits.

CITY	COUNTIES
BONNER SPRINGS	WYANDOTTE, JOHNSON, LEAVENWORTH
DE SOTO	JOHNSON, LEAVENWORTH
HERINGTON	DICKINSON, MORRIS
LAKE QUIVIRA	JOHNSON, WYANDOTTE
MANHATTAN	RILEY, POTTAWATOMIE
MULVANE	SEDGWICK, SUMNER
OAKLEY	LOGAN, GOVE, THOMAS
SABETHA	NEMAHA, BROWN
ST. MARYS	POTTAWATOMIE, WABAUNSEE
SEDGWICK	HARVEY, SEDGWICK
SOLOMON	DICKINSON, SALINE
SPRING HILL	JOHNSON, MIAMI

Geography: Zip Codes

No characteristics of any Vital Event are reported by zip code in either the Annual Tables or the Annual Summary of Vital Statistics. However, death data are tabulated by zip code for the Kansas Information for Communities (KIC) web-based data query tool.

Caution must be used when analyzing data using zip codes, because zip codes refer to postal delivery areas, which sometimes cross county lines, especially for rural mail delivery. It is possible that a rural household's mail is delivered from a post office in a city in a different county than the one where the household is located. This would lead to an apparent contradiction between CITY of residence and COUNTY of residence. Such contradictions have been vetted during year-end quality assurance testing.

Geography: Census Tracts

Census tract is normally the lowest geographic subdivision we will release to researchers, whether internal (KDHE) or external. However, for rural and frontier counties the census tract is sometimes coterminous with the county. If the county includes a reportable city, or if it includes more than one zip code, reporting by those fields would cover areas smaller than a census tract.

Census tract boundaries are set by the U.S. Census Bureau for each decennial census. In most areas of Kansas, the census tract boundaries do not change from one census to the next. However, census tracts in urban counties do change occasionally as the population increases. In such cases a given address might be in different census tracts in successive censuses.

Census tracts for Kansas births and deaths are determined through a two-step process. First, addresses for all births and deaths of Kansas residents are sent to the Office of Information Technology Services (OITS) for geocoding. OITS returns latitude and longitude for each address, if possible. Then VSDA staff use state layers in the ArcGIS application to map the coordinates to a census tract.

Demography

The Kansas Vital Events system collects several categories of demographic information:
1) Race
2) Ethnicity or Hispanic Origin
3) Ancestry
4) Language
5) Sex
6) Age

These fields are collected for each category of Vital Event, except for Ancestry, which is not collected for Marriages or Marriage Dissolutions; and Language, which is collected only for Births.

1) Births: collected for mother and father.
2) Deaths: collected for decedent.
3) Stillbirths: collected for mother and father.
4) Abortions: collected for patient.
5) Marriages: collected for each spouse.
6) Marriage Dissolutions: collected for each spouse.

Demography: Race

The reporting system in place since 2005 allows the reporter to select one or more races from a set of checkboxes; the results are stored as Y/N values in the OVS database, except where "text" is indicated. Options available for selection are:

1. White
2. Black or African American
3. American Indian or Alaska Native
4. Asian Indian
5. Chinese
6. Filipino
7. Japanese
8. Korean
9. Vietnamese
10. Other Asian (specify in 18, 19)
11. Native Hawaiian
12. Guamian or Chamorro
13. Samoan
14. Other Pacific Islander (specify in 20, 21)
15. Other Race (specify in 22, 23)
16. Enrolled or principal tribe (text)
17. Other tribe if applicable (text)
18. Other Asian (text)
19. Other Asian (text)
20. Other Pacific Islander (text)
21. Other Pacific Islander (text)
22. Other Race (text)
23. Other Race (text)
24. Race Unknown

Information supplied in the text fields (16-23) is normally not used for analysis, and is not released to outside researchers.

Analysis is rarely performed using full granularity. One reason is that many of the races listed in the 16 checkboxes have very small populations in Kansas. The other is that the US Census Bureau does not produce population estimates for all groups. The maximum practical granularity for counts is
1. White
2. Black or African American
3. American Indian or Alaska Native
4. Asian (races 4-10 in the full set)
5. Native Hawaiian and Other Pacific Islander (races 11-14 in the full set)
6. Other race
7. Two or more races
8. Race Unknown

Demography: Ethnicity

The reporting system in place since 2005 allows the reporter to select one or more ethnicities from a set of checkboxes; the results are stored as Y/N values in the OVS database, except where "text" is indicated. Options available for selection are:

1. Not Spanish/Hispanic/Latino
2. Mexican/Mexican-American/Chicano
3. Puerto Rican
4. Cuban
5. Central American
6. South American
7. Other Spanish/Hispanic/Latino
8. Text field to accompany "Y" in 7
9. Unknown Ethnicity

Information supplied in the text field (8) is normally not used for analysis, and is not released to outside researchers.

Most analysis collapses these fields into a binary Hispanic/Non-Hispanic grouping, but a few regular tables do a full breakout.

Demography: Ancestry

This is a legacy concept which has seldom been used for analysis since 2005. Ancestry information for each individual is collected in four free-form text fields.

Demography: Language

The reporting system in place since 2005 allows the reporter to select one or more languages from a set of checkboxes; the results are stored as Y/N values in the OVS database, except where "text" is indicated. Options available for selection are:

1. English
2. Spanish
3. Vietnamese
4. German
5. French
6. Russian
7. Ukrainian
8. Mandarin
9. Cantonese
10. Sign Language
11. Other (specify in 12)
12. Text field

The language fields are seldom used in analysis, but they are sometimes used by KDHE programs to determine whether a worker fluent in Spanish is needed for contact with birth mothers.

Demography: Sex

The reporting system in place since 2005 indicates sex with a letter code. For births and stillbirths, allowed values for infant/fetus sex are Male/Female/Not yet determined (M/F/N). In analysis, Not yet determined is treated as Unknown (U). For deaths, allowed values for decedent sex are Male/Female/Unknown (M/F/U).

In yearend QI, blank values for sex are set to Unknown (U), unless there is other evidence to indicate the sex of the infant/fetus/decedent. In cases where cause of death is not consistent with declared sex (for example, prostate cancer where declared sex is Female, or ovarian cancer where declared sex is Male), the value in the sex field in the Annual History file is updated. The Research History files prepared for epidemiologists includes the amended values of the sex field from the Annual History file. The values in the underlying administrative table are not changed.

Demography: Age

In birth and stillbirth records, birth clerks provide date of birth for mother and father and date of birth for the infant (or date of fetal death). Parental ages are then calculated in software by subtracting parental dates of birth from the date of birth of the infant (or the date of fetal death). Unfortunately, the calculated age fields are not always automatically updated if any of the component dates of birth (stillbirth) fields are amended. Discrepancies are flagged in year-end QI, and corrected manually.

In abortion records, the patient's age is entered explicitly by the abortion provider.

In marriage and marriage dissolution records, the Judicial Branch provides dates of birth for both spouses, and ages at time of marriage (dissolution of marriage) are calculated in software. Unfortunately, the calculated age fields are not always automatically updated if any of the component dates of marriage (marriage dissolution) fields are amended. Discrepancies are flagged in year-end QI, and corrected manually.

In death records, the age of decedent and decedent's date of birth and date of death are entered separately. Year-end QI programs flag records where the declared age is not consistent with the dates, and corrections are made as necessary. The decedent's age is entered in a format that uses multiple fields:

> If AGETYPE=1, then AGE1 (age in years) is populated.
> If AGETYPE=2, then AGE2 (age in months) and AGE3 (age in days) are populated.
> If AGETYPE=3, then AGE4 (age in hours) and AGE5 (age in minutes are populated.
> If AGETYPE=9, then the age of decedent was unknown.

Occasionally data from other states deviates from this format, and out-of-range values for AGETYPE ranging from 4 to 7 are provided. These errors have been encountered before, and standard correction software is run each year to identify affected records and translate to our standard age formats.

Demography: Population Group Method of Reporting Race and Hispanic Origin

The 2000 U.S. Census and implementation of the revised birth, death and stillbirth certificates in Kansas in 2005 altered the way race and Hispanic origin was reported. These changes were implemented to provide a better picture of the nation's variation in race and Hispanic origin. The expanded race and Hispanic origin categories on Kansas certificates are compliant with the provisions of the Statistical Policy Directive No. 15, Race and Ethnic Standards for Federal Statistics and Administrative Reporting, issued by the Office of Management and Budget (OMB) in 1997.[2] Under these guidelines, when race and Hispanic origin are collected separately, Hispanic origin is collected first on the certificate.

Changes in collection of race and Hispanic origin information on vital events certificates necessitated the use of a population group method for grouping the information.   The population group method utilizes mutually exclusive groups of race and Hispanic origin to encompass the 16 race checkboxes and the eight Hispanic origin checkboxes on each certificate.

This approach results in a unique matrix of population groups for reporting statistics. At the most detailed level, there are nine population-groups: Hispanic any race, White non-Hispanic, Black non-Hispanic, Asian non-Hispanic, Native Hawaiian and other Pacific Islander (NHOPI) non-Hispanic, American Indian/Alaska

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[2] Office of Management and Budget. (1997, October). Standards for Maintaining, Collecting, and Presenting Federal Data on Race and Ethnicity. Retrieved 10/4/2011 from https://www.whitehouse.gov/sites/default/files/omb/assets/information_and_regulatory_affairs/re_app-a-update.pdf.

Native (AIAN) non-Hispanic, Multiple race non-Hispanic, Other race non-Hispanic, and Unknown race non-Hispanic. In the event Hispanic origin is unknown but race information is known, the individual will be reported as the specified race and non-Hispanic.

BEPHI developed an aggregation grid (Table A) to use when counts for population-groups are too small to be displayed or used in a rate calculation. This report uses partial or full aggregation of population groups for reporting statistics.

Table A. Aggregation Grid for Population Groups

Population Group without Aggregation	Population Group with Partial Aggregation	Population Group with Full Aggregation
Hispanic any Race	Hispanic any Race	Hispanic any Race
White Non-Hispanic	White Non-Hispanic	White Non-Hispanic
Black Non-Hispanic	Black Non-Hispanic	Black Non-Hispanic
Asian Non-Hispanic	Asian/NHOPI Non-Hispanic	Multi, other specified & non-specified race(s) Non-Hispanic
NHOPI Non-Hispanic	Asian/NHOPI Non-Hispanic	Multi, other specified & non-specified race(s) Non-Hispanic
AIAN Non-Hispanic	AIAN Non-Hispanic	Multi, other specified & non-specified race(s) Non-Hispanic
Multi-race Non-Hispanic	Multi & other non-specified race(s) Non-Hispanic	Multi, other specified & non-specified race(s) Non-Hispanic
Other Race Non-Hispanic	Multi & other non-specified race(s) Non-Hispanic	Multi, other specified & non-specified race(s) Non-Hispanic
Unknown Non-Hispanic	N.A.	N.A.

The principal advantage of using population groups is the ability to more closely tabulate population estimates to the same groups as those used for vital events.

The United States Census Bureau (USCB) population estimates, used in this *Annual Summary*, can be collapsed into seven of the nine population-groups. Population-based rates using compatible numerators and denominators produce more accurate statistics.

Demographics: United States Census Bureau Population Estimates

All population data used in the Annual Summary come from the USCB, which provides actual counts for Census years, and estimates for other years. The estimates update Census counts by adjusting for subsequent births, deaths, and net migration. At the state level, USCB estimates are provided by sex (2 categories), race (6 categories), and Hispanic origin (2 categories), by single year of age. At the county level, USCB estimates are provided by the same sex, race, and Hispanic origin categories as for the state, but by eighteen 5-year age groups (0-4, 5-9, …, 80-84, and 85+) rather than by single year of age. The reduction in granularity in the age category is necessary to assure that the statistical methods used provide reliable estimates for counties, where the population is usually at least an order of magnitude smaller than that of the state.

Due to rounding and variation in estimation methods within the USCB, some discrepancies may be found between population estimates provided for the state and those provided for the counties. Usually, differences are negligible and rarely result in discrepancies in the totals. We advise you to utilize state totals from the county population totals when a total population estimate is needed.

However, the age categories provided by the USCB estimates are not adequate for all purposes. For example, analysis of infant deaths requires population estimates for a single year of age (under one),

analysis of teen pregnancy traditionally uses age brackets other than the two USCB categories that cover the age group (10-14 and 15-19), and age-adjusted death rate calculations normally use eleven standard age groups (0, 1-4, 5-14, 15-24, …, 75-84, 85+) that cannot be obtained by combining the eighteen USCB age groups. For these purposes, KDHE uses population estimates provided by the National Center for Health Statistics (NCHS) known as the bridged-race estimates. NCHS creates these estimates by taking the USCB estimates and applying a computer algorithm which provides single-year-of-age estimates for counties, but at the cost of reducing the number of race categories from six to four. KDHE then combines the NCHS single-year-of-age estimates to obtain the eleven standard age groups or other grouping required for analysis.

Because the USCB reassigns the race of certain categories in their bridged and unbridged estimates, 2010 totals by population group may be inconsistent with 2009 estimates. This affects population-based rates using 2010 population estimates as the denominator in a rate. It may result in an artificially lower rate than the prior year. The greatest impact will involve rates for the smaller population groups.

UPDATE: 2020 was the last year for which the bridged-race population estimates were available. This only affects county-level rate calculations, as single-year of age estimates are still produced by the USCB at the state-wide level. At the county level, KDHE staff will produce estimates of the population under the age of one year using birth counts for the twelve months prior to July 1.

For 2001, time constraints associated with analysis of the 2000 census data left the Census Bureau unable to provide population estimates by the time they were needed by KDHE. For that year, KDHE produced its own estimates, though the methods used were necessarily less sophisticated than those ultimately used by the Census Bureau. In due time, KDHE population tables were updated with the appropriate USCB and NCHS estimates, but the rates calculated for the Annual Summary and other reports of the year were not re-calculated with the updated population estimates.

The 2001 state and county estimates for teenage females (10 14, 10 17, 15-19, 10-19) were compiled by the KDHE based on 2000 USCB numbers. In order to estimate the 2001 teenage female population for the various age groupings, the 2000 proportion for the age grouping within the total population had to be derived. These estimates were calculated as in the following ex-ample for 2001.

$$\frac{\text{Female Population 10-14 Year Age Group (2000)}}{\text{2000 Population All Ages}} \times \frac{\text{2001 Population}}{\text{All Ages}} = \frac{\text{10-14 Year Age-Group}}{\text{(2001)}}$$

Considerations Specific to Natality

Month prenatal care began
Calculation of month prenatal care began uses the dates of last menstrual period and the date of first prenatal care visit. This date difference method began in 2005. Prior to that time, month care began was a value entered on the birth certificate by the hospital. Because of the change, month prenatal care began statistics in this report can't be compared to statistics from annual summary reports prior to 2005.

Adequacy of Prenatal Care Utilization (APNCU) Index
Adequacy of prenatal care utilization values are based on a method developed by Dr. Milton Kotelchuck:[3]

I. Month prenatal care began (Adequacy of Initiation of Prenatal Care)
- Adequate Plus: 1st or 2nd month
- Adequate: 3rd or 4th month
- Intermediate: 5th or 6th month
- Inadequate: 7th month or later or no prenatal care

II. Proportion of the number of visits recommended by the American College of Obstetricians and Gynecologists (ACOG) received from the time prenatal care began until delivery (Adequacy of Received Services)
- Adequate Plus: 110% or more
- Adequate: 80% - 109%
- Intermediate: 50% - 79%
- Inadequate: less than 50%

III. Summary Adequacy of Prenatal Care Utilization Index
- Adequate Plus: Prenatal care begun by the 4th month and 110% or more of recommended visits received
- Adequate: Prenatal care begun by the 4th month and 80% - 109% of recommended visits received
- Intermediate: Prenatal care begun by the 4th month and 50% - 79% of recommended visits received
- Inadequate: Prenatal care begun after the 4th month or less than 50% of recommended visits received

Criteria for Small for Gestational Age (SGA)
Small for gestational age is when the infant's birth-weight is less than the 10th percentile, (lowest 9.9 percent of births). These infants may be normal but small or pathologically small (intrauterine growth restriction).

"Many different things can lead to intrauterine growth restriction (IUGR). An unborn baby may not get enough nutrition because of:
- High altitudes,
- Multiple pregnancies (twins, triplets, etc.),
- Placenta problems,
- Preeclampsia or eclampsia

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[3] Kotelchuck, M. An Evaluation of the Kessner Adequacy of Prenatal Care Index and a Proposed Adequacy of Prenatal Care Utilization Index. American Journal of Public Health, 1994; 84(9): 1414 1420.

Congenital or chromosomal abnormalities are often associated with below-normal weight. Infections during pregnancy that affect the developing baby, such as rubella, cytomegalovirus, toxoplasmosis, and syphilis may also affect the weight of the developing baby".[4]

Infants born small for gestational age but constitutionally normal may represent 40% or more of the SGA infants at term.[5] However, "In early preterm gestations, the definition of SGA may be justified as a proxy for IUGR".[6] Statistics reported for SGA are based on using birth-weights from 2010 births for the state as a whole as the reference in establishing the cutoff point. In calculating percents, unknowns are excluded. Data are adjusted for gender or population group of the infant.

Criteria for Weight Gain in Pregnancy
This table presents weight gain in pregnancy based on pre-pregnancy BMI categories underweight, normal weight, overweight and obese by county. According to the March of Dimes,

"Gaining the right amount of weight during pregnancy can help protect your health and the health of your baby. … If you gain too little weight during pregnancy, you're more likely than other women to: Have a premature baby. … Have a baby with low birth weight. … If you gain too much weight during pregnancy, you're more likely than other women to: Have a premature baby. … Have a baby with fetal macrosomia … Need a cesarean birth. … Have trouble losing weight after your baby's birth. This can increase your risk for health conditions like diabetes and high blood pressure."[7]

Table C. Recommendations for Total and Rate of Weight Gain During Pregnancy, by Pre-Pregnancy BMI

Pre-pregnancy weight	Recommended weight gain
Underweight (BMI less than 18.5)	28 to 40 pounds
Normal weight (BMI 18.5 to 24.9)	25 to 35 pounds
Overweight (BMI 25 to 29.9)	15 to 25 pounds
Obese (BMI 30 or greater)	11 to 20 pounds

The BMI/weight categories used in the *Annual Summary* are based on the Institute of Medicine of the National Academies guidelines that reflect changing U. S. demographics (Table B).[8]

Historical Changes in Reporting Abortion Data
- The increase in the 1989-1992 figures from previous years may not reflect an increase in the number of abortions being performed but rather an increase in the number of providers voluntarily reporting data.
- Residency data was not available for all abortions in 1989-1990. However, due to improved reporting, residency was obtained for most of the abortions reported in subsequent years. This improved reporting is also responsible for the increase in the resident abortion ratio between 1990 and 1991.

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[4] Vorvick, L. (2010, November). Intrauterine growth restriction. Medline Plus. Retrieved 11/2/2011 from http://www.nlm.nih.gov/medlineplus/ency/article/001500.htm.
[5] Ross, M.G. (2011, February). Fetal growth restriction, Medscape reference. Retrieved 11/2/2011 from http://emedicine.medscape.com/article/261226-overview.
[6] Ananth, C. V, Vintzileos A. M. (2009, October). Distinguishing pathological from constitutional small for gestational age births in population-based studies. Early Hum Dev. 85(10):653-8.
[7] March of Dimes. (2020, September). Weight gain during pregnancy. Retrieved 12/08/2023 from https://www.marchofdimes.org/find-support/topics/pregnancy/weight-gain-during-pregnancy.
[8] Institute of Medicine of the National Academies. (2009, May). Weight Gain During Pregnancy: Reexamining the Guidelines. Available at: https://pubmed.ncbi.nlm.nih.gov/20669500/.

Considerations Specific to Mortality

Cause of Death
For 1999 and later years, underlying causes of death in the *Annual Summary of Vital Statistics* are established through a system known as the International Classification of Diseases, 10th Revision (ICD 10). This system promotes uniformity and comparability in the collection and presentation of mortality data. Prior to 1999, Kansas used ICD 9 to report mortality statistics. Periodically, the classification system needs to be updated to address new diseases and reflect a better understanding of causes of death. The World Health Organization maintains ICD 10 and the NCHS, which compiles national statistics, modifies ICD 10 for use by Kansas and other states.[9] Death data from 1999 forward are classified by ICD-10, and trends in mortality will be comparable. Such data trends are not comparable if the statistics bridge 1998-1999.

In accordance with NCHS guidelines, stillbirths that were coded Symptoms, Signs & Abnormal Findings (R00 - R99) are now coded unspecified cause (P95).

Age-Adjusted Death Rates
The mortality rate, the number of deaths per 100,000 population, is a common way to report death statistics so that comparisons can be made from year to year or among geographic areas. Crude death rates compensate for the differences in population within the areas or time periods studied. Crude death rates, however, do not compensate for the different age make up of compared populations. For example, some Kansas counties may have older residents than other counties. To address this, statisticians prepare age-adjusted death rates. The direct method for calculating age-adjusted death rates was used in this report. Age-adjusting is a process by which the age composition of a population is defined as constant so that differences in age composition can be eliminated from the analysis. This is necessary as the risk of dying increases with age. Age-adjusted rates allow for more meaningful comparison of the risk of mortality over time and among groups.

For this report, age-adjusted death rates were calculated using the 2000 population standard. Kansas began using the 2000 population standard, as recommended by NCHS, in the *1999 Annual Summary of Vital Statistics*.

Comparing Age-Adjusted Death Rates
Mortality rates, derived from vital records, are not subject to sampling error but are subject to what is termed random error. This arises from random variations in the number of deaths over time or between different communities. The potential impact of random error increases as the number of events decreases. This makes resulting rates subject to volatility, and requires caution when comparing them to rates from other populations, geographic areas, and time periods.

Confidence intervals are often used in research when comparing two age-adjusted death rates (for two different or independent populations) to determine whether a significant difference exists between them. Ninety-five percent confidence intervals are provided for the age-adjusted rates in this report. The precise statistical definition of the 95% confidence interval is that if the measurement was conducted 100 times, 95 percent of the time the true value would be within the calculated confidence interval and five percent of the time the true value would be either higher or lower than the range of the confidence interval.

The first step in calculating a confidence interval for an age-adjusted rate is the computation of a standard error (SE), which defines the rate's variability. The SE for an adjusted rate per 100,000 population can be

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[9] Classification of Diseases, Functioning, and Disability. National Center for Health Statistics. Retrieved 10/4/2011 from http://www.cdc.gov/nchs/icd/icd10.htm.

estimated by dividing that rate by the square root of the number of events (n) upon which the rate was based:

$$Rate/\sqrt{n}$$

The estimated SE can then be used to compute a 95% confidence interval (CI) for the rate. The standard formula for determining the 95% CI of a rate is:

$$R \pm (1.96 \text{ X SE})$$

Computing confidence limits for pairs of rates varies depending on the number of events on which each rate was created. The formula below was used for calculating confidence intervals that appear in this report. (Table E8)

Confidence limits for rates when the numerator is 100 or more
In this case, use the following formula for the rate R based on the standard error SE:

Lower limit	=	R - (1.96 x SE)
Upper limit	=	R + (1.96 x SE)

where:
R	=	the rate (age-adjusted rate)
SE	=	the rate divided by the square root of the number of events (deaths)

An example of this would be the comparison of cancer age-adjusted death rates for two years. If 2007's rate has a 95% confidence interval of 174.3-183.9 and the 95% confidence interval for 2008 is 168.3-177.7, then they overlap and there is no significant difference between the two years' rates, at the 95% confidence level.

There are various statistical formulas for comparing rates, depending on the types of rates or populations being studied and the number of events involved. Please note that the formulas shown above are a conservative approach and, in some cases, may not be the most appropriate.

Significance test when both rates are based on 100 or more events
To compare two rates when both are based on 100 or more events, first calculate the difference between the two rates by subtracting the lower rate from the higher rate. This difference is considered statistically significant if it exceeds the statistic in the formula below. This statistic equals 1.96 times the standard error for the difference between two rates.

$$1.96 \sqrt{\frac{R_1^2}{N_1} + \frac{R_2^2}{N_2}}$$

where:
R_1	=	the first rate
R_2	=	the second rate
N_1	=	the first number of events
N_2	=	the second number of events

If the difference is greater than this statistic, then the difference would occur by chance less than five times out of 100. The difference is statistically significant at the 95 percent confidence level.

If the difference is less than this statistic, the difference might occur by chance more than five times out of 100. The difference is not statistically significant at the 95 percent confidence level.

NCHS was used as a source for confidence interval and significance tests based on the *Vital Statistics of the United States: Mortality, 1999* Technical Appendix.

Rate Reliability

Vital statistics are easily influenced by random variation and single-year rates can fluctuate widely. A multiple-year rate such as a five or ten-year average of single-year rates would be more reliable in determining trends in vital events. For example, between 2005 and 2009 the infant death rate for Kansas ranged from 7.0 to 7.9, while the 2005-2009 five-year infant death rate for Kansas was 7.4 infant deaths per 1,000 live births. A five or ten-year rate smooths some of the single-year rate variation and is a more reliable indicator of Kansas infant death rates.

Rates based on a small or large number of events in a sparsely populated area can vary widely. To exemplify the variation that may occur with a small change in the number of events, in 2009 Greeley County was the least populated county in Kansas with 1,234 residents, and Johnson County was the largest with 542,737 residents. With 15 deaths occurring in Greeley County in 2009, the crude death rate was 12.2 deaths per 1,000 population; whereas 3,234 deaths occurring in Johnson County resulted in a crude death rate of 6.0 deaths per 1,000 population. If five more deaths occurred in each county (e.g., multiple- death accident), Greeley County's crude death rate would have increased to 16.2, while Johnson County's rate would have increased by only a few hundredths and, with rounding, still remain 6.0 deaths per 1,000 population. Therefore, one must use caution when comparing rates of vital events between counties of extreme population size differences to avoid misleading conclusions.

Revisions to Certificates

2009 Revisions to Certificates
Beginning in July 2009, Kansas implemented an Electronic Death Registration System involving online entry of medical information by physicians. At the same time, the death certificate was modified to include a new item "If female, name prior to first marriage." Neither change has an effect on the information included in this report.

Certificates used for the collection of births, stillbirths, and deaths conform to the U.S. Standard Certificates. These standards were implemented in Kansas beginning in 2005. Please refer to Technical Notes in previous reports for information on certificate changes in past years.

2011 Revisions to Certificates
Beginning in July 2011, Kansas implemented a revised form for reporting abortions. This revised VS213 form resulted from changed made in abortion reporting laws passed by the Kansas Legislature. Question 14 that asks the reasons for determining gestational age, is now required to be completed on all abortions, rather than only abortions that occurred at 22 weeks gestation or later. One new question (#15 on the revised form) addresses whether a report of physical, mental, or emotional abuse or neglect has been filed about the patient pursuant to K.S.A. 38-2223.

2014 Revisions to Certificates
Beginning in July 2014, requirements for reporting stillbirths or fetal deaths to the Kansas Department of Health and Environment changed. All stillbirths in which the unborn child is 20 weeks gestation and greater must now be reported. The old law required stillbirths to be reported when fetal weight was greater than 350 grams. The change may result in slightly different counts because of the different definitions of stillbirth and implementation occurring mid-year. The reporting certificate did not change.

Beginning in July 2014, the department implemented a revised form for reporting abortions. This revised VS 213 form resulted in changes to the reverse side wherein information about procedures performed at 22 weeks or greater and partial birth abortions are collected. No changes were made to the obverse side of the form. Please see the sample form later in the Technical Notes.

Revisions to Annual Summary of Vital Statistics

Revisions to 2010 Annual Summary

The Annual Summary for 2010 contains four new tables. No tables or figures have been deleted from the past year. Please see Technical Notes for past years for information on other table and figure changes. Table and figure numbers are updated to reflect the changes.

Health Equity and Disparities

Several new tables present data and statistics on health disparities or health equality.
According to the National Partnership for Action to End Health Disparities (NPA),

"Health equity is attainment of the highest level of health for all people. Achieving health equity requires valuing everyone equally with focused and ongoing societal efforts to address avoidable inequalities, historical and contemporary injustices, and the elimination of health and healthcare disparities".

Live Births by Trimester Prenatal Care Began by Population Group

This table shows the number and percentage of live births by trimester prenatal care began and population group. Starting prenatal care in the first trimester is particularly important for women with risk factors for poor infant and maternal outcomes. As an example, national data (2008) shows wide differences in pre-pregnancy diabetes (DM) and gestational diabetes (GDM) observed by race and Hispanic origin. Among the three largest racial and ethnic groups, Black non-Hispanic women are more likely than White non-Hispanic and Hispanic women to have DM; Hispanic and white non-Hispanic mothers are more likely to develop GDM than black non-Hispanic mothers.

Data caveats
- In calculating percent, unknowns are excluded.
- Border county residents who deliver out of state may have a high number of unknown or missing values.

Live Births by Population Group of Mother by Birth Weight in Grams

This table shows the number of live births by birth weight in grams and population group. Infant weight at birth is an important predictor of short term complications and long term health. Smaller infants, especially those born at less than 1,500 grams are at the greatest risk. Among the three largest racial and ethnic groups, national data (2008) shows that Black non-Hispanic women are more likely than White non-Hispanic and Hispanic women to have very low birth weight babies.

Live births by Population Group of Mother by Final Route of Delivery

This table shows the number of deliveries by the final route of delivery and the percentage of cesarean births and cesarean births preceded by a trial of labor. Nationally, the total cesarean delivery rate has been increasing since the mid-1990s, reaching 32.3 percent in 2008. The increase in cesarean births is a public health concern, since the surgery may have risks for both the mother and newborn.

Cesarean deliveries may contribute to the growing number of babies who are born "late pre-term," between 34 and 36 weeks gestation. While babies born at this time are usually considered healthy, they are more likely to have medical problems than babies born a few weeks later at full term.

Data caveats
- In calculating percent, unknowns are excluded.
- Data collected on cesarean deliveries by the birth certificate before 2005 are not comparable to data collected in 2005 and after.

<u>External Cause of Death by Injury Matrix, Intent and Cause Group Categories</u>
This table uses the Centers for Disease Control & Prevention (CDC) injury matrix to categorize cause or mechanism of death by intent. The ICD-10 codes for the intent categories by mechanism are available for download at the following internet address. http://www.cdc.gov/nchs/injury/injury_tools.htm

Injuries, including all intents, are the leading cause of death in the 1-44 age-groups. This table with intent is provided to give a better understanding of the problem and help identify intervention activities.

Data caveats
•   Adverse effects of drugs and medical care are excluded.

<u>Years of Potential Life Lost before Age 75 (YPLL75)</u>
The YPLL75, for this report, is a measurement of the number of years of potential life lost by each death occurring before age 75. This calculation provides more information on the societal impact of mortality. Years of potential life lost counts deaths at a younger age more heavily than those at older ages (e.g., the younger person has a greater potential for years left than an elderly person). YPLL75 values were calculated by subtracting the age of the decedent from 75 only for those persons who died before that age. The resulting value represents the years of potential life lost. These values are then summed for all individuals, providing the total years of life lost.

This method represents a new approach for years of potential life lost calculations. Formerly, KDHE used the life expectancy for males and females for the calculations. The change allows for more uniformity in calculation of YPLL75 as well as better comparability to national statistics. YPLL75 statistics in this report can't be compared to statistics from prior years' reports because of the change in methodology.

Revisions to 2011 Annual Summary

The Annual Summary for 2011 contains no new tables. No tables or figures have been deleted from the past year. Table and figure numbers remain unchanged from 2010.

Revisions to 2012 Annual Summary

The Annual Summary for 2012 contains no new tables, but some categories in Table 64 were subdivided to allow matching to categories used in the Healthy People 2020 project. No tables or figures have been deleted from the past year. The narrative has been expanded to include comparisons to selected Healthy People 2020 targets. Table and figure numbers remain unchanged from 2011.

Revisions to 2013 Annual Summary

No tables and figures in the 2013 Annual Summary have been added or dropped. Table and figure numbers remain unchanged from 2012. The cause of death code lists included in several mortality tables have been modified. To improve readability the lists of codes have been re-moved from the tables and placed in appendices in the back of the report. The number of tables to include population density peer groups has been increased to include all tables for which county level, multi-year statistics are provided. Birth tables that report on gestation have been modified to reflect the establishment of a gestational age category called 'near term' which includes 37 and 38 weeks gestation. This will enable the determination of near term birth rates. Figure 28 has been redesigned to better indicate changes in the count of infant deaths by gestational age.

<u>Revisions to 2014 Annual Summary</u>

One new table (Table 61) and one new figure (Figure 33) related to pneumonia and influenza mortality have been added in the 2014 Annual Summary of Kansas Vital Statistics. Tables previously numbered 61-82 are now numbered 62-83, and figures previously numbered 33-41 are now numbered 34-42.

<u>Revisions to the 2015 Annual Summary</u>

The structure of the Annual Summary of Vital Statistics has been substantially revised. First, the Annual Summary was divided into six sections:

     A. Vital Events

     B. Population

     C. Live Births and Fertility

     D. Fetal and Infant Mortality

     E. General Mortality

     F. Marriages and Marriage Dissolutions

The Live Births section includes most of the tables and figures that were previously in the old Pregnancy Outcomes section. The Fetal and Infant Mortality section includes some tables and figures that had been in the old Pregnancy Outcomes section and some that had been in the old Deaths section. Within each section, statewide results are presented first, followed by county and city tables.

Table and figure numbers have been changes so that the numbering in each section is independent of the numbering in the other sections, thus reducing the number of table or figure numbers that would need to be changed if a table or figure were added or removed from a section in the future.

New tables in 2015:

B1. Population by Year and by Sex, Kansas, 1966-2015

E1. Deaths by Year and by Population Group, by Number, Crude and Age-Adjusted Rate, Kansas, 2011-2015

E15. Work-related injury deaths by Occupation/Industry of Decedent, Kansas, 2015

E17. *Diabetes Mellitus* as Underlying and contributing Cause of Death, Kansas, 2015

F1. Marriage and Marriage Dissolution Numbers and Rates by Year of Occurrence, Kansas, 1966-2015

The table that follows maps table and figure numbers in the 2015 Annual Summary to table and figure numbers in the 2014 Annual Summary. To avoid constant repetition of the words "table" and "figure," rows for figures are highlighted in light orange.

Table A. Changes to table and figure numbers and sequence in the 2015 Annual Summary

2015	2014	TITLE (with years for 2015 Annual Summary)
A. Vital Events		
A1	1	Selected Vital Events and Percent Change, Kansas, 2015, 2014, and 1996
A1	1	Every Day During 2015
A2	2	Kansas Vital Events for 2015
A2	2	Selected Vital Event Rates, Kansas, 1996-2015
A3	3	Selected Vital Event Rates, Kansas, 1996-2015
A3	3	Selected Vital Events by Population Group, Kansas, 2015

B. Population

B1	NEW	Population by Year and by Sex, Kansas, 1966-2015
B1	4	Total Population, Kansas, 1996-2015 (in Thousands)
B2	5	Rate of Natural Increase, Kansas, 1996-2015
B3	6	Median Age, Kansas, 1996-2015
B4	8	Population Density, Kansas and the U.S., 1996-2015
B2	6	Population by Nine Selected Age-Groups and Sex, Kansas, 1996_2015 (in Thousands)
B3	7	Population by 11 Selected Age-Groups, by Population Group and Sex, Kansas, 2015
B5	7	Percent Change in Age-Group population, Both Sexes, Kansas, 1996-2015
B4	4	Population by County and Peer Group, by Population Group, Kansas, 2015
B6	9	Population Density by County of Residence, Kansas, 2015 [MAP]
B5	8	Population by County of Residence and Peer Group, by Population Group, Kansas, 2015
B6	5	City Population, Kansas, 2011-2015

C. Live Births and Fertility

C1	11	Birth Rates, Kansas and the U.S., 1912-2015
C1	10	Birth Rates, Kansas and the U.S., 1912-2015
C2	11	Fertility Rates, Kansas and the U.S., 1995-2015
C3	12	Age-Specific Fertility Rates by Year by Age-Group of Mother, Kansas, 2011-2015
C2	12	Age-Specific Fertility Rates by Age-Group of Mother, Kansas, 1996-2015
C3	13	Live Births by Age-Group of Mother by Sex of Infant, Kansas, 2015
C4	14	Live Births by Age-Group of Father by Age-Group of Mother, Kansas, 2015
C5	24	Live Births by Age-Group of Mother by Birth Weight in Grams, Kansas, 2015
C4	15	Live Births by Birth Order, Kansas, 2015
C6	25	Live Births by Birth Order by Age-Group of Mother, Kansas, 2015
C7	26	Live Births by Population Group of Mother by Trimester Prenatal Care Began, Kansas, 2015
C8	27	Live Births by Population Group of Mother by Birth Weight in Grams, Kansas, 2015
C9	28	Live Births by Population Group of Mother by Final Route of Delivery, Kansas, 2015
C10	9	Live Births by County of Residence and Peer Group, by Number and Rate, Kansas, 2015
C5	13	Birth Rates by County of Residence, Kansas, 2015 [MAP]
C11	15	Live Births by County of Residence and Peer Group by Age-Group of Mother, Kansas, 2015
C12	16	Live Births by County of Residence and Peer Group by Weeks Gestation, Kansas, 2015
C13	17	Live Births by County of Residence and Peer Group by Month Prenatal Care Began, Kansas, 2015
C14	18	Live Births by County of Residence and Peer Group by Adequacy of Prenatal Care Utilization (APNCU) Index, Kansas, 2015
C15	19	Live Births by County of Residence and Peer Group by Birth Weight in Grams, Kansas, 2015
C16	20	Live Births by County of Residence and Peer Group by Initiation of Breastfeeding, Kansas, 2015
C17	21	Live Births by County of Residence and Peer Group by Mother's Reported Cigarette Use, Kansas, 2015

C6	14	Percent of Maternal Cigarette Use During Pregnancy by County of Residence, Kansas, 2015 [MAP]
C18	22	Live Births by County of Residence and Peer Group by Birth Weight Category for Gestational Age, Kansas, 2015
C19	23	Mother's Weight Gain in Pregnancy for Singleton Births, by County of Residence and Peer Group, Kansas, 2015
C20	29	Live Births by County of Residence and Peer Group by Population Group of Mother, Kansas, 2015
C21	10	Live Births by Selected City of Residence, by Number and Rate, Kansas, 2011-2015
C7	16	Out-of-Wedlock Birth Ratios, Kansas and the U.S., 1919-2015
C22	30	Out-of-Wedlock Births by County of Residence and Peer Group by Age-Group and Population Group of Mother
C23	31	Teenage Pregnancy Numbers and Rates by Year by Selected Age-Groups, Kansas, 996-2015
C8	19	Teenage Pregnancy Rates by Age-Group, Kansas, 1996-2015
C9	17	Teen and Non-Teen Live Births: Percent Distribution by Month Prenatal Care Began, Kansas, 2015
C10	18	Teenage Live Births by Population Group, Kansas, 2015
C24	32	Teenage Pregnancy Numbers and Rates by Year for Selected Population Groups and Age-Groups, Kansas, 2011-2015
C25	33	Teenage Pregnancies by County of Residence and Peer Group by Age-Group and Component, Kansas, 2015
C26	34	Teenage Pregnancies for 10-17 Year Olds by County of Residence and Peer Group, by Component, Kansas, 2015

D. Fetal and Infant Mortality

D1	45	Stillbirths by Cause of Death and Weeks Gestation, Kansas, 2015
D1	20	Stillbirths by Selected Characteristics, Kansas, 2015
D2	35	Stillbirths by County of Residence and Peer Group, by Age-Group of Mother, Kansas, 2105
D3	36	Total Reported Abortions and Ratios of Abortions to Live Births, Kansas, 1971-2015
D2	21	Ratios of Abortions to Live Births, Kansas, 1971-2015
D3	22	Ratios of Abortions to Live Births by Age-Group of Patient, Kansas, 1996 and 2015
D4	38	Total Reported Abortions by Selected Characteristics by Age-Group of Patient, Kansas, 2015
D5	39	Kansas Resident Abortions by Selected Characteristics, Kansas, 2015
D4	23	Reported Abortions by Selected Characteristics
D6	40	Total Reported Abortions by Population Group by Marital Status, Kansas, 2015
D7	41	Total Reported Abortions by Population Group by Weeks Gestation
D5	24	Total Reported Abortions by Termination Procedure by Weeks Gestation, Kansas, 2015
D8	42	Total Reported Abortions by Termination Procedure by Weeks Gestation, Kansas, 2015
D9	37	Abortions by County of Residence and Peer Group, by Age-Group of Mother, Kansas, 2015
D10	46	Perinatal Period III Deaths by Component, Kansas, 1996-2016
D11	47	Perinatal Period III Deaths by County of Residence by Component, Kansas, 2015

D12	48	Infant Mortality Rates by Population Group, Kansas, 1996-2015
D6	27	Infant Mortality Rates by Population Group, Five Year Rolling Averages, Kansas, 1991-2015
D13	50	Infant Deaths by Cause of Death by Age-Group of Infant, Kansas, 2015
D7	28	Infant Deaths for Three Age Subgroups, Kansas, 1996-2015
D8	29	Pregnancy Associated Deaths [this is moms]
D14	49	Infant Deaths by County of Residence and Peer Group, by Year of Death, Kansas, 2011-2015
D15	D15	Infant Deaths by County of Residence and Peer Group, by Component, Kansas, 2015

E. General Mortality

E1	NEW	Deaths by Year and by Population Group, by Number, Crude and Age-Adjusted Rate, Kansas, 2011-2015
E1	26	Crude Death Rates, Kansas and the U.S., 1912-2015
E2	52	Age-Specific Death Rates by Sex, Kansas, 1996-2015
E2	30	Age-Adjusted Death Rates, Kansas and the U.S., 1996-2015
E3	53	Age-Adjusted Death Rates by Sex, Kansas and the U.S., 1996-2015
E4	56	Deaths by Population Group and Sex, by Age-Group and Average Age at Death, Kansas, 2015
E5	57	Ten Leading Causes of Death by Population Group and Sex of Decedent, Kansas, 2015
E6	58	Selected Causes of Death by Age-Group and Average Age at Death, Kansas, 2015
E7	59	Ten Leading Causes of Death, Number, Rate and Average Age at Death, by Sex, Kansas, 2015
E8	60	Death Rates, Age-Adjusted Death Rates and 95% Confidence Intervals for Selected leading Causes of Death, Kansas, 2014-2015
E3	31	Death Rates for Selected Leading Causes of Death, Kansas, 1996-2015
E4	32	Leading Causes of Death by Age-Group, Kansas, 2015
E9	61	Pneumonia and Influenza Mortality, Number and Age-Adjusted Rates, Kansas Residents, 1999-2015
E5	33	Pneumonia and Influenza Deaths by Month and Five-Year Median for Month, Kansas Residents, 2015
E10	62	Heart Disease Deaths by Component and Sex of Decedent, by Age-Group of Decedent, Kansas, 2015
E11	63	Malignant Neoplasm Deaths by Site of Lesion and Sex of Decedent, by Age-Group of Decedent, Kansas, 2015
E12	64	Cerebrovascular Disease Deaths by Component and Sex of Decedent, by Age-Group of Decedent, Kansas, 2015
E13	65	Unintentional Injury Deaths by Component and Sex of Decedent, by Age-Group of decedent, Kansas, 2015
E14	66	Selected External Causes of Death by Injury Matrix Group and Intent, Kansas, 2015
E15	NEW	Work-related injury deaths by Occupation/Industry of Decedent, Kansas, 2015
E16	67	Selected Chronic Disease Deaths by Component and Sex of Decedent, by Age-Group of Decedent, Kansas, 2006- 2015
E17	NEW	Diabetes Mellitus as Underlying and Contributing Cause of Death, Kansas, 2015
E18	68	Deaths by Occupation of Decedent by Selected Causes of Death, Kansas, 2015
E19	69	Deaths by Industry of Decedent by Selected Causes of Death, Kansas, 2015

E20	70	Selected Causes of Death and Years of Potential Life Lost (YPLL) Before Age 75, Kansas, 2015
E6	34	Percent Years of Potential Life Lost before Age 75
E21	72	Deaths from 39 Selected Causes by Number and Percent and Sex of Decedent Related to Tobacco, Kansas, 2015
E22	73	Deaths from 39 Selected Causes and Sex by Age-Group of Decedent
E23	43	Deaths by County of Residence and Peer Group, by Number, Crude and Age-Adjusted Rate, Kansas, 2011-2015
E7	25	Age-Adjusted Death Rates by County of Residence, Kansas, 2015 [MAP]
E24	54	Deaths by County of Residence and Peer Group, by Age-Group and Average Age at Death, Kansas, 2015
E25	55	Deaths by County of Residence and Peer Group, by Population Group, Kansas, 2015
E26	71	Deaths by County of Residence and Peer Group, by Number and Percent Related to Tobacco, Kansas, 2015
E27	74	Selected Causes of Death by County of Residence and Peer Group, Kansas, 2015
E28	44	Deaths by Selected City of Residence, by Number and Crude Rate, Kansas, 2011-2015

F. Marriages and Marriage Dissolutions

F1	NEW	Marriage and Marriage Dissolution Numbers and Rates by Year of Occurrence, Kansas, 1966-2015
F1	37	Marriage Rates, Kansas and the U.S., 1913-2015
F2	38	Marriage Dissolution Rates, Kansas and the U.S., 1951-2015
F2	77	Marriages by Population Group of Groom by Population Group of Bride, Kansas, 2015
F3	78	Marriage Dissolutions by Population Group of Husband by Population Group of Wife, Kansas, 2015
F3	39	Number of Marriages by Month, Kansas, 2015
F4	79	Marriages by Premarital Status of Groom by Premarital Status of Bride, Kansas, 2015
F5	80	Marriages by Age-Group of Groom by Age-Group of Bride, Kansas, 2015
F4	40	Average Age at Marriage, Kansas, 1996-2015
F6	81	Marriage Dissolutions by Age-Group of Husband by Age-Group of Wife, Kansas, 2015
F5	41	Average Age at Marriage Dissolution, Kansas, 1996-2015
F7	82	Marriage Dissolutions by Duration of Marriage in Years, Kansas, 2015
F6	42	Marriage Dissolution Percent Distribution by Number of Minor Children, Kansas, 2015
F8	83	Marriage Dissolutions by Number of Minor Children Reported and Number of Minor Children Affected
F9	75	Marriages by County of Marriage and Peer Group, by Number and Rate, Kansas, 2011-2015
F10	76	Marriage Dissolutions by County of Action and Peer Group, By Number and Rate, Kansas, 2011-2015
F7	35	Marriage Rates by County of Occurrence, Kansas, 2015 [MAP]
F8	36	Marriage Dissolution Rates by County of Action, Kansas, 2015 [MAP]

One new table was added to the Live Births and Fertility Section of the 2016 Annual Summary:
E28. Life-Expectancy at Birth by County of Residence and Peer Group, Kansas, 2012-2016.

This led to a new table number for the previous table E28:
E29. Deaths by Selected City of Residence by Number and Crude Rate, Kansas, 2012-2016.

Revisions to 2017 Annual Summary

No new tables were added for the 2017 Annual Summary, but the method for counting stillbirths was revised to meet national standards: stillbirths at less than twenty (20) weeks gestation are not included even when reported. Stillbirth counts from 2014–2016 (in multi-year tables) were revised to meet the new standards. A new breakdown of gestational age was also adopted, 20-31 weeks, 32-41 weeks, and 42 & over weeks.

The tables and figures affected by these changes were:
Table A1.   Selected Vital Events and Percent Change Kansas, 2017, 2016 and 1998.
Table A2.   Selected Vital Event Percents, Rates, and Ratios Kansas, 1998-2017.
Figure A3.   Selected Vital Event Rates Kansas, 1998-2017.
Table D1.   Stillbirths by Cause of Death and Weeks Gestation, Kansas, 2017.
Figure D1.   Stillbirths By Selected Characteristics, Kansas, 2017.
Table D2.   Stillbirths by County of Residence and Peer Group, by Age-Group of Mother, Kansas, 2017.
Table D10.   Perinatal Period III Deaths by Component, Kansas, 1998-2017.
Table D11.   Perinatal Period III Deaths by County of Residence, by Component, Kansas, 2017.

Revisions to 2018 Annual Summary

Five new tables were added to the 2018 Annual Summary:
Table C27.   Number and Percent of Live Births under 37 weeks gestation, by Year and by Population Group, Kansas Residents, 2005-2018.
Table C28.   Number and Percent of Live Births under 2500 grams, by Year and by Population Group, Kansas Residents, 2005-2018.
Table E30.   Deaths by Number and Age-Adjusted Rate for Selected Chronic Diseases, Kansas Residents, 1999-2018.
Table E31.   Deaths by Number and Age-Adjusted Rate for Selected External Causes, Kansas Residents, 1999-2018.
Table E32.   Deaths with drugs as an underlying cause, by year and drug category, Kansas Residents, 1999–2018.

Tables C27 and C28 cover fourteen years, rather than a more typical fifteen or twenty, because race and ethnicity (the components of the population groups) reporting changed in 2005, making strict comparisons to years before 2005 impossible.

Figure D8. Maternal Deaths, Kansas 2014-2018 has been modified: the Pregnancy-Associated Deaths category is no longer provided as recommended by the CDC Enhancing Reviews and Surveillance to Eliminate Maternal Mortality (ERASE MM) Team. As defined, the category produced too many false positives, where the decedent was pregnant or had been pregnant within the last year, but the death could not be shown to be related to the pregnancy. Candidate cases for pregnancy-associated deaths are being made to the Kansas Maternal Mortality Review Committees (KMMRCs). KMMRCs are multidisciplinary committees that perform comprehensive reviews of deaths among women within a year of the end of a pregnancy. They include representatives from public health, obstetrics and gynecology,

maternal-fetal medicine, nursing, midwifery, forensic pathology, mental and behavioral health, patient advocacy groups, and community-based organizations. KMMRCs work with CDC to improve review processes that inform recommendations for preventing future deaths.

<u>Revisions to 2019 Annual Summary</u>

One new table was added to the 2019 Annual Summary:
Table E33. Deaths from Unintentional Injury and Undetermined Intent, by Year and Drug Category, Kansas residents, 2000-2019.
This is a restricted version of Table E32, which also included drug deaths due to suicide and homicide.

Two tables have changed title, but not content:
Figure D7. Infant Deaths for Three Age Groups, Kansas, 2000–2019
Table E32. Deaths from All External Causes with Drugs as an Underlying Cause, by Year and Drug category, Kansas Residents, 2000–2019.

<u>Revisions to 2020 Annual Summary</u>

Six new tables were added to the 2019 Annual Summary:
Table E17a. Coronavirus 2091 as an Underlying and Contributing Cause of Death, Kansas Residents, 2020.
Table 34.   Coronavirus 2019 Deaths by County of Residence and Sex, Kansas, 2020
Table 35.   Coronavirus 2019 Deaths by County of Residence and Peer Group, by Age-Group and Average Age at Death, Kansas, 2020.
Table 36.   Coronavirus 2019 Deaths by County of Residence and Peer Group, by Population Group, Kansas, 2020.
Table 37.   Death Rates, Age-Adjusted Death Rates and 95% Confidence Intervals for Deaths due to Coronavirus 2019, by Sex and by Population Group, Kansas Residents, 2020.
Table 38.   Contributing causes of death associated with higher risk for severe Coronavirus 2019 where Coronavirus 2019 was the underlying cause of death, Kansas residents, 2020.

Coronavirus 2019 (and *Clostridium difficile* where appropriate) were added to the following existing tables and figures:
Table E5.   Ten Leading Causes of Death by Population Group and Sex of Decedent, Kansas, 2020.
Table E6.   Selected Causes of Death by Age-Group and Average Age at Death, Kansas, 2020.
Table E7.   Ten Leading Causes of Death, Number, Rate and Average Age at Death, by Sex, Kansas, 2020.
Table E8.   Death Rates, Age-Adjusted Death Rates and 95% Confidence Intervals for Selected Leading Causes of Death, Kansas, 2019-2020.
Figure E4.   Leading Causes of Death by Age-Group, Kansas, 2020.
Table E17.   *Diabetes mellitus* as an Underlying and Contributing Cause of Death, Kansas 2020.
Table E18.   Deaths by Occupation of Decedent by Selected Causes of Death, Kansas, 2020.
Table E19.   Deaths by Industry* of Decedent's Occupation by Selected Causes of Death, Kansas 2020.
Table E20.   Selected Causes of Death and Years of Potential Life Lost (YPLL) Before Age 75, Kansas, 2020.
Figure E6.   Selected Causes of Death by Percent of Total Years of Potential Life Lost, Kansas 2020.
Table E21.   Deaths from 39 Selected Causes by Number and Percent and Sex of Decedent Related to Tobacco, Kansas, 2020.
Table E22. Deaths from 39 Selected Causes by Sex by Age-Group of Decedent, Kansas, 2020.

One table was omitted from the 2021 Annual Summary because the U.S. Census Bureau no longer provides the population data needed to produce it:
Table E28. Life Expectancy at Birth by County of Residence and Peer Group.
Succeeding tables have not been renumbered, leaving a gap in the numeration of tables.

One table was expanded by adding an additional column for age-adjusted death rates:
Table E33. Deaths from Unintentional Injury and Undetermined Intent, by Year and Drug Category, Kansas residents, 2000-2019.

Revisions to 2022 Annual Summary

One table was reinstated in the 2022 Annual Summary, as the U.S. Census Bureau now provides the population data needed to produce it (on special request):
Table E28. Life Expectancy at Birth by County of Residence and Peer Group.

Revisions to 2023 Annual Summary

Additional abortion information was included that previously had been a part of the Preliminary Abortion Report, which was not produced this year.
Table D4.   Total Reported Abortions by Selected Characteristics, by Age-Group of Patient, Kansas, 2023 has additional information:
1. Physician Certifications added to Residency subsection.
2. Determination of Weeks Gestation subsection added.
3. Report of Physical, Mental or Emotional Abuse of Neglect Filed subsection added.
Table D9.   B. Induced Abortions in Kansas by State of Residence, Under 18 years of Age and Kansas, 2023.

APPENDIX 1
Kansas County Codes and Groupings

County Name	FIPS Code	Abbreviation	Population Density Peer Group (2010)	Population Density Peer Group (2000)
Allen	001	AL	Densely-Settled Rural	Densely-Settled Rural
Anderson	003	AN	Rural	Rural
Atchison	005	AT	Densely-Settled Rural	Densely-Settled Rural
Barber	007	BA	Frontier	Frontier
Barton	009	BT	Densely-Settled Rural	Densely-Settled Rural
Bourbon	011	BB	Densely-Settled Rural	Densely-Settled Rural
Brown	013	BR	Rural	Rural
Butler	015	BU	Semi-Urban	Semi-Urban
Chase	017	CS	Frontier	Frontier
Chautauqua	019	CQ	Frontier	Rural
Cherokee	021	CK	Densely-Settled Rural	Densely-Settled Rural
Cheyenne	023	CN	Frontier	Frontier
Clark	025	CA	Frontier	Frontier
Clay	027	CY	Rural	Rural
Cloud	029	CD	Rural	Rural
Coffey	031	CF	Rural	Rural
Comanche	033	CM	Frontier	Frontier
Cowley	035	CL	Densely-Settled Rural	Densely-Settled Rural
Crawford	037	CR	Semi-Urban	Semi-Urban
Decatur	039	DC	Frontier	Frontier
Dickinson	041	DK	Densely-Settled Rural	Densely-Settled Rural
Doniphan	043	DP	Densely-Settled Rural	Densely-Settled Rural
Douglas	045	DG	Urban	Urban
Edwards	047	ED	Frontier	Frontier
Elk	049	EK	Frontier	Frontier
Ellis	051	EL	Densely-Settled Rural	Densely-Settled Rural
Ellsworth	053	EW	Rural	Rural
Finney	055	FI	Densely-Settled Rural	Densely-Settled Rural
Ford	057	FO	Densely-Settled Rural	Densely-Settled Rural
Franklin	059	FR	Semi-Urban	Semi-Urban
Geary	061	GE	Semi-Urban	Semi-Urban
Gove	063	GO	Frontier	Frontier
Graham	065	GH	Frontier	Frontier
Grant	067	GT	Rural	Rural
Gray	069	GY	Rural	Rural
Greeley	071	GL	Frontier	Frontier
Greenwood	073	GW	Frontier	Rural
Hamilton	075	HM	Frontier	Frontier
Harper	077	HP	Rural	Rural
Harvey	079	HV	Semi-Urban	Semi-Urban
Haskell	081	HS	Rural	Rural
Hodgeman	083	HG	Frontier	Frontier
Jackson	085	JA	Densely-Settled Rural	Rural
Jefferson	087	JF	Densely-Settled Rural	Densely-Settled Rural
Jewell	089	JW	Frontier	Frontier
Johnson	091	JO	Urban	Urban
Kearny	093	KE	Frontier	Frontier
Kingman	095	KM	Rural	Rural
Kiowa	097	KW	Frontier	Frontier
Labette	099	LB	Densely-Settled Rural	Densely-Settled Rural
Lane	101	LE	Frontier	Frontier
Leavenworth	103	LV	Urban	Semi-Urban
Lincoln	105	LC	Frontier	Frontier
Linn	107	LN	Rural	Rural

County Name	FIPS Code	Abbreviation	Population Density Peer Group (2010)	Population Density Peer Group (2000)
Logan	109	LG	Frontier	Frontier
Lyon	111	LY	Densely-Settled Rural	Semi-Urban
McPherson	113	MP	Densely-Settled Rural	Densely-Settled Rural
Marion	115	MN	Rural	Rural
Marshall	117	MS	Rural	Rural
Meade	119	ME	Frontier	Frontier
Miami	121	MI	Semi-Urban	Semi-Urban
Mitchell	123	MC	Rural	Rural
Montgomery	125	MG	Semi-Urban	Semi-Urban
Morris	127	MR	Rural	Rural
Morton	129	MT	Frontier	Frontier
Nemaha	131	NM	Rural	Rural
Neosho	133	NO	Densely-Settled Rural	Densely-Settled Rural
Ness	135	NS	Frontier	Frontier
Norton	137	NT	Rural	Rural
Osage	139	OS	Densely-Settled Rural	Densely-Settled Rural
Osborne	141	OB	Frontier	Frontier
Ottawa	143	OT	Rural	Rural
Pawnee	145	PN	Rural	Rural
Phillips	147	PL	Rural	Rural
Pottawatomie	149	PT	Densely-Settled Rural	Densely-Settled Rural
Pratt	151	PR	Rural	Rural
Rawlins	153	RA	Frontier	Frontier
Reno	155	RN	Semi-Urban	Semi-Urban
Republic	157	RP	Rural	Rural
Rice	159	RC	Rural	Rural
Riley	161	RL	Semi-Urban	Semi-Urban
Rooks	163	RO	Frontier	Rural
Rush	165	RH	Frontier	Frontier
Russell	167	RS	Rural	Rural
Saline	169	SA	Semi-Urban	Semi-Urban
Scott	171	SC	Rural	Rural
Sedgwick	173	SG	Urban	Urban
Seward	175	SW	Densely-Settled Rural	Densely-Settled Rural
Shawnee	177	SN	Urban	Urban
Sheridan	179	SD	Frontier	Frontier
Sherman	181	SH	Frontier	Rural
Smith	183	SM	Frontier	Frontier
Stafford	185	SF	Frontier	Rural
Stanton	187	ST	Frontier	Frontier
Stevens	189	SV	Rural	Rural
Sumner	191	SU	Densely-Settled Rural	Densely-Settled Rural
Thomas	193	TH	Rural	Rural
Trego	195	TR	Frontier	Frontier
Wabaunsee	197	WB	Rural	Rural
Wallace	199	WA	Frontier	Frontier
Washington	201	WS	Rural	Rural
Wichita	203	WH	Frontier	Frontier
Wilson	205	WL	Rural	Rural
Woodson	207	WO	Rural	Rural
Wyandotte	209	WY	Urban	Urban

APPENDIX 2
Population Density County Peer Groups

Frontier

Barber	Chase	*Chautauqua*	Cheyenne	Clark	Comanche
Decatur	Edwards	Elk	Gove	Graham	Greeley
Greenwood	Hamilton	Hodgeman	Jewell	Kearny	Kiowa
Lane	Lincoln	Logan	Meade	Morton	Ness
Osborne	Rawlins	*Rooks*	Rush	Sheridan	*Sherman*
Smith	*Stafford*	Stanton	Trego	Wallace	Wichita

Rural

Anderson	Brown	Clay	Cloud	Coffey	Ellsworth
Grant	Gray	Harper	Haskell	Kingman	Linn
Marion	Marshall	Mitchell	Morris	Nemaha	Norton
Ottawa	Pawnee	Phillips	Pratt	Republic	Rice
Russell	Scott	Stevens	Thomas	Wabaunsee	Washington
Wilson	Woodson				

Densely-Settled Rural

Allen	Atchison	Barton	Bourbon	Cherokee	Cowley
Dickinson	Doniphan	Ellis	Finney	Ford	*Jackson*
Jefferson	Labette	*Lyon*	McPherson	Neosho	Osage
Pottawatomie	Seward	Sumner			

Semi-Urban

Butler	Crawford	Franklin	Geary	Harvey	Miami
Montgomery	Reno	Riley	Saline		

Urban

Douglas	Johnson	*Leavenworth*	Sedgwick	Shawnee	Wyandotte

Italicized counties changed peer group after the 2010 Census.

APPENDIX 3
Metric to English Conversions for Birth Weight Categories

Metric (grams)	English (pounds)	English (ounces)
500	1	2
1000	2	3
1500	3	5
2000	4	7
2500	5	8
3000	6	10
3500	7	11
4000	8	13
4500	9	15
5000	11	0

1 ounce = 28.349 grams.
English equivalents are rounded to the nearest ounce.

APPENDIX 4
List of 39 Selected Causes of Death, Coronavirus 2019 and *Clostridium difficile*

NUMBER	Cause of death	ICD-10 codes
1	Tuberculosis	A16-A19
2	Syphilis	A50-A53
3	Human immunodeficiency virus (HIV) disease	B20-B24
	<u>Malignant neoplasms</u>	<u>C00-C97</u>
4	Malignant neoplasm of stomach	C16
5	Malignant neoplasm of colon, rectum and anus	C18-C21
6	Malignant neoplasm of pancreas	C25
7	Malignant neoplasm of trachea, bronchus and lung	C33-C34
8	Malignant neoplasm of breast	C50
9	Malignant neoplasm of cervix uteri, corpus uteri and ovary	C53-C56
10	Malignant neoplasm of prostate	C61
11	Malignant neoplasm of urinary tract	C64-C68
12	Non-Hodgkin's lymphoma	C82-C85
13	Leukemia	C91-C95
14	All other malignant neoplasms	C00-C15, C17, C22-C24, C26-C32, C37-C49, C51-C52, C57-C60, C62-C63, C69-C81, C88, C90, C96-C97
15	*Diabetes mellitus*	E10-E14
16	Alzheimer's disease	G30
	<u>Major cardiovascular diseases</u>	<u>I00-I78</u>
	<u>Diseases of heart</u>	<u>I00-I09, I11, I13, I20-I51</u>
17	Hypertensive heart disease with or without renal disease	I11, I13
18	Ischemic heart disease	I20-I25
19	Other diseases of heart	I00-I09, I26-I51
	a. Acute Rheumatic Fever and Chronic Rheumatic Heart Disease	*I00-I09*
	b. Pulmonary Heart Disease and Diseases of Pulmonary Circulation	*I26-I28*
	c. Other Forms of Heart Disease	*I30-I51*
20	Essential hypertension and hypertensive renal disease	I10, I12, I15
21	Cerebrovascular disease	I60-I69
	a. Subarachnoid Hemorrhage	*I60*
	b. Intracerebral and other intercranial hemorrhage	*I61-I62*
	c. Cerebral Infarction	*I63*
	d. Stroke, not specified as hemorrhage or infarction	*I64*
	e. Other cerebrovascular diseases	*I67, I69*
22	Atherosclerosis	I70
23	Other diseases of circulatory system	I71-I78
24	Influenza and pneumonia	J09-J18
25	Chronic lower respiratory diseases	J40-J47
26	Peptic ulcer	K25-K28

27	Chronic liver disease and cirrhosis	K70, K73-K74
28	Nephritis, nephrotic syndrome and nephrosis	N00-N07, N17-N19, N25-N27
29	Pregnancy, childbirth and the puerperium	O00-O99
30	Certain conditions originating in the perinatal period	P00-P96
31	Congenital malformations, deformations and chromosomal abnormalities	Q00-Q99
32	Sudden infant death syndrome (SIDS)	R95
33	Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (excluding Sudden infant death syndrome)	R00-R94, R96-R99
34	All other diseases (residual)	A00-A04.6, A04.8-A09, A20-A49, A54-B19, B25-B99, D00-E07, E15-G25, G31-H93, I79-J06, J20-J39, J60-K22, K29-K66, K71-K72, K75-M99, N10-N15, N20-N23, N28-N98, U04
	<u>External causes of Mortality</u>	<u>*U01-*U03, V01-Y89</u>
	<u>Unintentional Injuries</u>	<u>V01-X59, Y40-Y86, Y88</u>
35	Motor vehicle accidents	V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2
	a. Traffic	*V02-V04 (.1, .9), V09.2, V12-V14 (.3-.9), V19 (.4-.6), V20-V28 (.3-.9), V29-V79 (.4-.9), V80 (.3-.5), V81.1, V83-V86 (.4-.9), V88 (.0-.8), V89.0*
	b. Non-Traffic	*V02-V04 (.0), V09.0, V12-V14 (.0-.2), V19 (.0-.3), V20-V28 (.0-.2), V29-V79 (.0-.3), V81.0, V82.0, V83-V86 (.4-.9), V88 (.0-.8), V89.0*
36	All other and unspecified accidents and adverse effects	V01, V05-V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3, V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-V82.9, V87.9, V88.9, V89.1, V89.3, V89.9, V90-X59, Y40-Y86, Y88
	a. Water transport	*V90-V94*
	b. Air and space transport	*V95-V97*
	c. Falls	*W00-W19*
	d. Inanimate mechanical forces	*W20-W49*
	e. Drowning and submersion	*W65-W74*
	f. Other accidental threats to breathing	*W75-W84*
	g. Electric current, radiation and air temperature/pressure	*W85-W99*
	h. Smoke, fire and flames	*X00-X09*
	i. Forces of nature	*X30-X39*
	j. Poisoning	*X40-X49*

	k. Other unintentional injuries	*V01, V05-V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3, V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-V82.9, V87.9, V88.9, V98-V99, W50-W64, X10-X29, X50-X59, Y85-Y86*
	l. Complications of medical and surgical care	*Y40-Y84, Y88*
37	Intentional self-harm (suicide)	*U03, X60-X84, Y87.0
38	Assault (homicide)	*U01-*U02, X85-Y09, Y87.1
39	All other external causes	Y10-Y36, Y87.2, Y89
40	Coronavirus 2019	U07.1
41	*Clostridium difficile*	A04.7

APPENDIX 5
Cause of Death Groupings for Infant Death Tables

Number*	Cause of death	ICD-10 codes
	<u>Infectious and Parasitic Diseases</u>	A00-B98
	<u>Other Diseases and Disorders</u>	C00-O99
30	Certain Conditions Originating in the Perinatal Period	P00-P96
	Maternal Factors and Complications of Pregnancy, Labor and Delivery	*P00-P04*
	Disorders Relating to Short Gestation and Low Birth Weight	*P07*
	Birth Trauma	*P10-P15*
	Hypoxia and Birth Asphyxia	*P20-P21*
	Respiratory Distress of Newborn	*P22*
	Congenital Pneumonia	*P23*
	Other Respiratory Conditions of Newborn	*P24-P28*
	Bacterial Sepsis of Newborn	*P36*
	Omphalitis of Newborn w/wo Mild Hemorrhage	*P 38*
	Hemorrhagic and Hematologic Disorders of Fetus and Newborn	*P50-P61*
	Other Perinatal Conditions	*P05, P08, P29, P35, P37, P39, P70-P96*
31	Congenital Anomalies	Q00-Q99
	<u>Symptoms and Abnormal Findings</u>	R00-R99
32	Sudden Infant Death Syndrome	R95
33	Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (excluding Sudden infant death syndrome)	R00-R94, R96-R99
	<u>External causes of Mortality</u>	*U01-*U03, V01-Y89

* Number indicates categories that are the same as one of the 39 Leading Categories of Death listed in Appendix 4.

APPENDIX 6
Cause of Death Groupings for Cancer by Site of Lesion

Number*	Cause of death	ICD-10 codes
	Malignant neoplasms	C00-C97
	Malignant neoplasm of lip, oral cavity and pharynx	C00-C14
	Malignant neoplasm of digestive organs	C15-C26
	Malignant neoplasm of respiratory and intrathoracic organs	C30-C39
	Malignant neoplasm of bone and articular cartilage	C40-C41
	Malignant neoplasm of skin	C43-C44
	Malignant neoplasm of mesothelial and soft tissue	C45-C59
8	Malignant neoplasm of breast	C50
	Malignant neoplasm of genital organs	C51-C63
11	Malignant neoplasm of urinary tract	C64-C68
	Malignant neoplasm of eye and adnexa	C69
	Malignant neoplasm of meninges, brain and other parts of the central nervous system	C70-C72
	Malignant neoplasm of thyroid and other endocrine glands	C73-C75
	Malignant neoplasm of other and unspecified sites	C76-C80, C97
13	Leukemia	C91-C95
	Malignant neoplasm of other lymphoid, hematpoietic and related tissue	C81-C90, C96

* Number indicates categories that are the same as one of the 39 Leading Categories of Death listed in Appendix 4.

APPENDIX 7
Cause of Death ICD-10 Code Groupings for the Injury Matrix

Cause Group	Unintentional	Suicide	Homicide	Undetermined	Legal/War
Cut/Pierce	W25-W29, W45	X78	X99	Y28	Y35.4
Drowning	W65-W74	X71	X92	Y21	---
Falls	W00-W19	X80	Y01	Y30	---
Fire/flame	X00-X09	X76	X97	Y26	---
Hot Object/ Scalding	X10-X19	X77	X98	Y27	---
Firearm	W32-W34	X72-X74	U01.4, X93-X95	Y22-Y24	Y35.0
Machinery	W24, W30-31	---	---	---	---
Motor Vehicle Traffic	[V02-V04] (.1,.9), V09.2, [V12-V14] (.3-.9), V19 (.4-.6), [V20-V28] (.3-.9), [V29-V79] (.4-.9), V80 (.3-.5), V81.1, V82.1, [V83-V86] (.0-.3), V87 (.0-.8), V89.2	---	---	---	---
Other Pedal Cyclist	V10-V11, [V12-V14] (.0-.2), V15-V18, V19 (.0-.3, .8, .9)	---	---	---	---
Other Pedestrian	V01, [V02-V04] (.0), V05, V06, V09 (.0-.1, .3, .9)	---	---	---	---
Other Land Transport	[V20-V28] (.0-.2), [V29-V79] (.0-.3), V80 (.0-.2, .6-.9), [V81-V82] (.0-.2, .9), [V83-V86] (.4-.9), V87.9, V88 (.0-.9), V89 (.0, .1, .3, .9)	X82	Y03	Y32	---
Other Transport	V90-V99	---	U01.1	---	Y36.1
Natural/Environmental	W42-W43, W53-W64, W92-W99, X20-X39, X51-X57	---	---	---	---
Overexertion	X50	---	---	---	---
Poisoning	X40-X49	X60-X69	U01 (.6-.7), X85-X90	Y10-Y19	Y35.2
Struck By/Against	W20-W22, W50-W52	X79	Y00, Y04	Y29	Y35.3
Suffocation	W75-W84	X70	X91	Y20	---
Other Specified	Y85	---	---	---	Y36 (.0, .2, .4-.8)
NEC	X58, Y86	X83, Y87.0	U01.8, U02, Y08, Y87.1	Y33, Y87.2	Y35.6, Y89 (.0-.1)
Not Specified	X59, X84	U03.9	U01.9, Y09	Y34, Y89.9	Y35.7, Y36.9

APPENDIX 8
Cause of Death Groupings for Stillbirth Tables

NUMBER*	Cause of death	ICD-10 codes
30	Certain Conditions Originating in the Perinatal Period	P00-P96
	Fetus Affected by Maternal Conditions	*P00*
	Fetus Affected by maternal Complications of Pregnancy	*P01*
	Fetus Affected by Complications of Placenta, Cord & Membrane	*P02*
	Fetus Affected by Complications of Labor and Delivery	*P03*
	Disorders Relating to Short Gestation and Low Birth Weight	*P07*
	Hypoxia and Birth Asphyxia	*P20-P21*
	Cardiovascular Disorders	*P29*
	Hemorrhagic and Hematologic Disorders of Fetus	*P50-P54, P56*
	Unspecified Cause	*P95*
	Other Perinatal Conditions	*P04-P05, P08-P15, P22-P28, P35- P39, P55, P57-P94. P96*
31	Congenital Anomalies	Q00-Q99
	All Other Causes	All others

* Number indicates categories that are the same as one of the 39 Leading Categories of Death listed in Appendix 4.

APPENDIX 9
Contributing causes of death associated with higher risk for severe Coronavirus 2019 where Coronavirus 2019 was the underlying cause of death

CAUSE OF DEATH	ICD-10 codes
HIV disease	B20-B24
Malignant neoplasms	C00-C97
Thalassemia and sickle cell disease	D56-D57
Diabetes mellitus	E10-E14
Obesity	E66
Cystic fibrosis	E84
Dementias other than Alzheimer's disease	F01-F03
Substance abuse disorders	F10-F19
Schizophrenia spectrum disorders	F20-F29
Mood disorders	F30-F39
Alzheimer's disease	G30
Heart disease	I00-I09, I11, I13, I20-I51
Essential hypertension w/wo renal disease	I10, I12, I15
Cerebrovascular disease	I60-I69
Atherosclerosis	I70
Other circulatory system diseases	I71-I78
Chronic lower respiratory disease	J40-J47
Interstitial lung disease	J84.9
Chronic liver disease and cirrhosis	K70, K73-K74
Other inflammatory liver diseases	K75
Other diseases of liver	K76
Nephritis, nephrosis and nephrotic syndrome	N00-N07, N17-N19, N25-N27
Pregnancy	O00-O99
Conditions originating the perinatal period	P00-P96
Congenital anomalies	Q00-Q99

Kansas Department of Health and Environment
Office of Vital Statistics
CERTIFICATE OF LIVE BIRTH

State File Number

1. CHILD'S NAME (First, Middle, Last, Suffix).	2. DATE OF BIRTH (Month, Day, Year)	3. TIME OF BIRTH

4. SEX	5. BIRTH WEIGHT (Grams)	6. CITY, TOWN, OR LOCATION OF BIRTH	7. COUNTY OF BIRTH

8. PLACE OF BIRTH

☐ Hospital   ☐ Freestanding Birthing Center   ☐ Home Birth

☐ Clinic/Doctor's Office   ☐ Other (Specify) _____

9. FACILITY NAME (If not institution, give street and number)

10. I CERTIFY THAT THE STATED INFORMATION CONCERNING THIS CHILD IS TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Certifier's Signature ➤ _____

11. DATE SIGNED (Month, Day, Year)

12. ATTENDANT'S NAME AND TITLE (Type)

Name _____

☐ M.D.   ☐ D.O.   ☐ C.N.M.   ☐ Other Midwife

☐ Other (Specify) _____

13. CERTIFIER'S NAME AND TITLE (Type)

Name _____

☐ M.D.   ☐ D.O.   ☐ Hosp. Adm.   ☐ C.N.M.   ☐ Other Midwife

☐ Other (Specify) _____

14. ATTENDANT'S MAILING ADDRESS (Street and Number or Rural Route, City, or Town, State, Zip Code)

15. MOTHER'S CURRENT LEGAL NAME (First, Middle. Last, Suffix)	16. MOTHER'S LAST NAME PRIOR TO FIRST MARRIAGE

17. DATE OF BIRTH (Month, Day , Year)	18. BIRTHPLACE (State, Territory, or Foreign Country)	19. PRESENT RESIDENCE-STATE

20. COUNTY	21. CITY, TOWN, OR LOCATION	22. STREET AND NUMBER OF PRESENT RESIDENCE

23. ZIP CODE	24. INSIDE CITY LIMITS? ☐ Yes ☐ No	25. MOTHER'S MAILING ADDRESS (If same as residence, leave blank.)

26. FATHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix)	27. DATE OF BIRTH (Month, Day, Year)	28. BIRTHPLACE (State, Territory, or Foreign Country)

29. INFORMATION ON THE CERTIFICATE PROVIDED BY:

Parent (or Other Informant) ➤ _____

30. DATE FILED BY STATE REGISTRAR (Month, Day, Year)

CONFIDENTIAL INFORMATION FOR INTERNAL USE ONLY

Form VS240 Rev. 11/2016

31. IF HOME BIRTH, WAS DELIVERY PLANNED AT HOME? ☐ Yes ☐ No ☐ Unknown

32. MOTHER'S SOCIAL SECURITY NO.

33. FATHER'S SOCIAL SECURITY NO.

34a. WAS MOTHER EVER MARRIED? ☐ Yes ☐ No ☐ Unknown   **34b. MOTHER MARRIED?** (At birth, conception or any time between) ☐ Yes ☐ No ☐ Unknown

34c. IF NO, HAS PATERNITY ACKNOWLEDGMENT BEEN SIGNED? ☐ Yes ☐ No   **34d. MOTHER MARRIED, REFUSES TO GIVE HUSBAND'S INFORMATION** ☐ Yes ☐ No

35. WHAT IS THE PRIMARY LANGUAGE SPOKEN IN THE HOME? ☐ English ☐ Spanish ☐ Vietnamese ☐ German ☐ French ☐ Russian ☐ Ukrainian ☐ Mandarin ☐ Cantonese ☐ Sign Language ☐ Other (Specify)

36. PARENTS' HISPANIC ORIGIN (Check the box or boxes that best describes whether the parent is Spanish, Hispanic, or Latino. Check the "No" box if the parent is not Spanish, Hispanic, or Latino)

36a. MOTHER-
- ☐ No, not Spanish/Hispanic/Latina
- ☐ Yes, Mexican, Mexican American, Chicana
- ☐ Yes, Puerto Rican
- ☐ Yes, Cuban
- ☐ Yes, Central American
- ☐ Yes, South American
- ☐ Yes, other Spanish/Hispanic/Latina (Specify)
- ☐ Unknown

36b. FATHER-
- ☐ No, not Spanish/Hispanic/Latino
- ☐ Yes, Mexican, Mexican American, Chicano
- ☐ Yes, Puerto Rican
- ☐ Yes, Cuban
- ☐ Yes, Central American
- ☐ Yes, South American
- ☐ Yes, other Spanish/Hispanic/Latino (Specify)
- ☐ Unknown

37. PARENT'S RACE (Check one or more races to indicate what you consider yourself to be)

37a. MOTHER-
- ☐ White
- ☐ Black or African American
- ☐ American Indian or Alaska Native (Name of the enrolled or principal tribes)
- ☐ Asian Indian
- ☐ Chinese
- ☐ Filipino
- ☐ Japanese
- ☐ Other (Specify)
- ☐ Korean
- ☐ Vietnamese
- ☐ Other Asian (Specify)
- ☐ Native Hawaiian
- ☐ Guamanian or Chamorro
- ☐ Samoan
- ☐ Other Pacific Islander (Specify)
- ☐ Unknown

37b. FATHER-
- ☐ White
- ☐ Black or African American
- ☐ American Indian or Alaska Native (Name of the enrolled or principal tribes)
- ☐ Asian Indian
- ☐ Chinese
- ☐ Filipino
- ☐ Japanese
- ☐ Other (Specify)
- ☐ Korean
- ☐ Vietnamese
- ☐ Other Asian (Specify)
- ☐ Native Hawaiian
- ☐ Guamanian or Chamorro
- ☐ Samoan
- ☐ Other Pacific Islander (Specify)
- ☐ Unknown

38. ANCESTRY - What is the parents' ancestry or ethnic origin?- Italian, German, Dominican, Vietnamese, Hmong, French Canadian, etc. (Specify below)

39. OCCUPATION AND BUSINESS/INDUSTRY

Occupation | Business/Industry (Do not give name of company)

38a. MOTHER   **39a. MOTHER (Most recent)**   **39c. MOTHER**

38b. FATHER   **39b. FATHER (Usual)**   **39d. FATHER**

40. EDUCATION (Check the box that best describes the highest degree or level of school completed at the time of delivery)

40a. MOTHER'S EDUCATION
- ☐ 8th grade or less
- ☐ Some College credit - no degree
- ☐ Unknown
- ☐ Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)
- ☐ 9th - 12th grade, no diploma
- ☐ Associate degree (e.g., AA,AS)
- ☐ Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)
- ☐ High school graduate or GED
- ☐ Bachelor's degree (e.g., BA, AB, BS)

40b. FATHER'S EDUCATION
- ☐ 8th grade or less
- ☐ Some College credit - no degree
- ☐ Unknown
- ☐ Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)
- ☐ 9th - 12th grade, no diploma
- ☐ Associate degree (e.g., AA,AS)
- ☐ Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)
- ☐ High school graduate or GED
- ☐ Bachelor's degree (e.g., BA, AB, BS)

41. PREVIOUS LIVE BIRTHS (Do not include this child)

42. NUMBER OF OTHER OUTCOMES (Spontaneous or induced losses or ectopic or stillbirth pregnancies)

43. PRENATAL CARE? ☐ Yes ☐ No

46. PRENATAL VISITS-Total Number (If none, enter "0")

41a. Now living Number ☐ None   **41b. Now dead** Number ☐ None   **42a. Before 20 weeks** Number ☐ None   **42b. 20 weeks & over** Number ☐ None   **44. DATE OF FIRST PRENATAL CARE VISIT** (Month, Day, Year)   **47. DATE LAST NORMAL MENSES BEGAN** (Month, Day, Year)

41c. DATE OF LAST LIVE BIRTH (Month, Year)   **42c. DATE OF LAST OTHER PREGNANCY OUTCOME** (Month, Year)   **45. DATE OF LAST PRENATAL CARE VISIT** (Month, Day, Year)   **48. OBSTETRIC ESTIMATE OF GESTATION** (Completed Weeks)

49. PLURALITY-Single, Twin, Triplet, etc. (Specify)   **50. IF NOT A SINGLE BIRTH –** Born First, Second, Third, etc. (Specify)   **51. TOTAL LIVE BIRTHS AT THIS DELIVERY**   **52. IS INFANT ALIVE AT THE TIME OF THIS REPORT?** ☐ Yes ☐ No ☐ Unknown   **53. INFANT BREAST-FED BETWEEN BIRTH & DISCHARGE?** ☐ Yes ☐ No ☐ Unknown

54. CIGARETTE SMOKING BEFORE & DURING PREGNANCY: Did mother smoke 3 mos. before or during pregnancy? ☐ Yes ☐ No ☐ Unknown

For each time period, enter either the number of cigarettes or the number of packs of cigarettes smoked **per day** during that time period. If none, enter "0".

Average number of cigarettes or packs of cigarettes **smoked per day** for each period:
No. | No.

Three months before pregnancy: cigarettes or packs
First three months of pregnancy: cigarettes or packs
Second three months of pregnancy: cigarettes or packs
Third Trimester of pregnancy: cigarettes or packs

55. PRINCIPAL SOURCE OF PAYMENT FOR THIS DELIVERY
- ☐ Medicaid
- ☐ Private/Employer Ins.
- ☐ Self-pay
- ☐ Indian Health Service
- ☐ CHAMPUS/TRICARE
- ☐ Other government
- ☐ Other (Specify)
- ☐ Unknown

56. MOTHER'S MEDICAL RECORD NO.   **57. NEWBORN'S MEDICAL RECORD NO.**

58. MOTHER TRANSFERRED IN FOR DELIVERY DUE TO MATERNAL, MEDICAL, OR FETAL INDICATIONS? ☐ Yes ☐ No (If yes, enter facility name)

FACILITY TRANSFERRED FROM:

59. INFANT TRANSFERRED (Within 24 hours of delivery) ☐ Yes ☐ No (If yes, enter facility name)

FACILITY TRANSFERRED TO:

CHILD'S NAME _____   MOTHER'S NAME _____

PRENATAL (birth)	LABOR-DELIVERY/NEWBORN

60. NUTRITION

1. Height
2. Prepregnancy Weight
3. Weight at delivery
4. Did mother get WIC food for herself? Yes No

   Unknown

61. MEDICAL RISK FACTORS

(Check all that apply)

1. ☐ Diabetes, prepregnancy
2. ☐ Diabetes, gestational
3. Hypertension, prepregnancy
   - ☐ Prepregnancy (Chronic)
   - ☐ Gestational (PIH, preeclampsia)
   - ☐ Eclampsia
4. ☐ Previous preterm birth
5. ☐ Other previous poor pregnancy outcome (SGA, perinatal death, etc.)
6. ☐ Vaginal bleeding during this pregnancy prior to labor
7. ☐ Pregnancy resulted from infertility treatment (If yes, check all that apply)
   - ☐ Fertility-Enhancing Drugs, Artificial Insemination or Intrauterine Insemination
   - ☐ Assisted reproductive technology (e.g. in vitro fertilization (IVF), gamete intrafallopian transfer (GIFT))
8. ☐ Mother had a previous cesarean delivery, if yes, how many? Number
9. ☐ Alcohol use No. of drinks per week
10. ☐ None of the above

62. METHOD OF DELIVERY

1. Forceps attempted?

   Yes No

   Successful Yes No
2. Vacuum extraction attempted?

   Yes No

   Successful Yes No
3. Fetal presentation at delivery
   - ☐ Cephalic
   - ☐ Breech
   - ☐ Other
4. Final route and method of delivery

   (check one)
   - ☐ Vaginal/spontaneous
   - ☐ Vaginal/forceps
   - ☐ Vaginal/vacuum
   - ☐ Cesarean, if cesarean, was a trial of labor attempted? Yes No

63. OBSTETRICAL PROCEDURES

(Check all that apply)

1. ☐ Cervical cerclage
2. ☐ Tocolysis
3. External cephalic version:
   - ☐ Successful
   - ☐ Failed
4. ☐ None of the above

64. ONSET OF LABOR

(Check all that apply)

1. ☐ Premature Rupture of the Membranes (prolonged, ≥ 12 hours)
2. ☐ Precipitous Labor (< 3 hrs)
3. ☐ Prolonged Labor (≥ 20 hrs)
4. ☐ None of the above

65. CHARACTERISTICS OF LABOR AND DELIVERY

(Check all that apply)

1. ☐ Induction of labor
2. ☐ Augmentation of labor
3. ☐ Non-vertex presentation
4. ☐ Steroids (glucocorticoids) for fetal lung maturation received by the mother prior to delivery
5. ☐ Antibiotics received by the mother during labor
6. ☐ Clinical chorioamnionitis diagnosed during labor or maternal temperature ≥ 38 C (100.4 F)
7. ☐ Moderate/heavy meconium staining of the amniotic fluid
8. ☐ Fetal intolerance of labor: (examples: in-utero resuscitative measures, further fetal assessment, or operative delivery)
9. ☐ Epidural or spinal anesthesia during labor
10. ☐ None of the above

66. MATERNAL MORBIDITY

(Check all that apply)

(Complications associated with labor and delivery)

1. ☐ Maternal transfusion
2. ☐ Third or fourth degree perineal laceration
3. ☐ Ruptured uterus
4. ☐ Unplanned hysterectomy
5. ☐ Admission to intensive care unit
6. ☐ Unplanned operating room procedure following delivery
7. ☐ None of the above

67. INFECTIONS PRESENT AND/OR TREATED

(During this pregnancy, check all that apply.)

1. ☐ Gonorrhea
2. ☐ Syphilis
3. ☐ Herpes Simplex Virus (HSV)
4. ☐ Chlamydia
5. ☐ Hepatitis B
6. ☐ Hepatitis C
7. ☐ AIDS or HIV antibody
8. ☐ None of the above

68. ABNORMAL CONDITIONS OF NEWBORN

(Check all that apply)

1. ☐ Assisted ventilation required immediately following delivery
2. ☐ Assisted ventilation required for more than six hours
3. ☐ NICU admission
4. ☐ Newborn given surfactant replacement therapy
5. ☐ Antibiotics received by the newborn for suspected neonatal sepsis
6. ☐ Seizure or serious neurologic dysfunction
7. ☐ Significant birth injury (skeletal fracture(s), peripheral nerve injury, and/or soft tissue/solid organ hemorrhage which requires intervention)
8. ☐ None of the above

69. VACCINES ADMINISTERED TO NEWBORN

1. ☐ Hepatitis B Date Given:
2. ☐ Other* Specify

   Date Given:

70. APGAR SCORE

1 min	5 min	10 min

71. CONGENITAL ANOMALIES OF THE NEWBORN

(Check all that apply)

1. ☐ Anencephaly
2. ☐ Meningomyelocele/Spina bifida
3. ☐ Cyanotic congenital heart disease
4. ☐ Congenital diaphragmatic hernia
5. ☐ Omphalocele
6. ☐ Gastroschisis
7. ☐ Limb reduction defect (excluding congenital amputation and dwarfing syndromes)
8. ☐ Cleft Lip with or without Cleft Palate
9. ☐ Cleft Palate alone
10. ☐ Down Syndrome
    - ☐ Karyotype confirmed
    - ☐ Karyotype pending
11. ☐ Suspected chromosomal disorder
    - ☐ Karyotype confirmed
    - ☐ Karyotype pending
12. ☐ Hypospadias
13. ☐ Fetal alcohol syndrome
14. ☐ Other congenital anomalies (Specify)
15. ☐ None of the above

CHILD'S NAME _____ MOTHER'S NAME _____

CHILD'S NAME _____   MOTHER'S NAME _____

Test required by K.S.A. 65-153f 153G Serological Test Made: _____ 1st _____ 2nd _____ 3rd (Trimester) _____ At Delivery _____ Not Performed If no test made, state reason:	Test required by K.S.A. 65-180 Infant Neonatal Screening specimen taken: _____ Yes _____ No Kit Number _____ If no test made, state reason:	Test required by K.S.A. 65-1157A Newborn Hearing Screening Accomplished: _____ Yes _____ No

Infant's patient number:

Infant's Primary Care Physician

First	Middle	Last	Title (MD, DO, etc.)

If screening accomplished,
Date hearing screened _____/_____/_____
                            Month Day Year

The results of the hearing screening ✓:

    Right ear: _____ Pass _____ Refer for further testing
    Left ear: _____ Pass _____ Refer for further testing

Physiologic equipment used ✓: _____ OAE _____ AABR _____ ABR

If screening not accomplished, ✓ one reason:

_____ b – missed appointment	_____ o – other
_____ c – could not test	_____ r – did not consent
_____ d – deceased	_____ s – scheduled but not completed
_____ i – Incomplete test	_____ t – transferred to another hospital
_____ m – Infant discharged before screening	_____ u – no information
_____ n – transferred to NICU	_____ x – invalid results

Kansas Department of Health and Environment
Office of Vital Statistics

CERTIFICATE OF STILLBIRTH (FETAL DEATH)

State File Number

1. NAME (First, Middle, Last, Suffix)	2. DATE OF DELIVERY (Month, Day, Year)	3. TIME OF DELIVERY
		M

4. SEX	5. CITY, TOWN, OR LOCATION OF DELIVERY	6. COUNTY OF DELIVERY

7. PLACE OF DELIVERY
☐ Hospital ☐ Freestanding Birthing Center ☐ Home Delivery
☐ Clinic/Doctor's Office ☐ Other (Specify) _____

8. FACILITY NAME (If not institution, give street and number and zip code)

9. MOTHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix)	10. MOTHER'S LAST NAME PRIOR TO FIRST MARRIAGE

11. DATE OF BIRTH (Month, Day, Year)	12. BIRTHPLACE (State, Territory, or Foreign Country)	13. PRESENT RESIDENCE-STATE

14. COUNTY	15. CITY, TOWN, OR LOCATION	16. STREET AND NUMBER OF PRESENT RESIDENCE

17. ZIPCODE

18. INSIDE CITY LIMITS? ☐ Yes ☐ No

19. MOTHER'S MAILING ADDRESS (If same as residence, leave blank)

20. FATHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix)	21. DATE OF BIRTH (Month, Day, Year)	22. BIRTHPLACE (State, Territory, or Foreign Country)

23. I CERTIFY THAT THE PERSONAL INFORMATION PROVIDED ON THE CERTIFICATE IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Signature of Parent (or Other Informant) ➢

24. DATE SIGNED (Month, Day, Year)

25. CAUSE/CONDITIONS CONTRIBUTING TO FETAL DEATH

25a. INITIATING CAUSE/CONDITION (Among the choices below, please select the <u>one</u> which most likely began the sequence of events resulting in the death of the fetus.)

Maternal Conditions/Diseases (Specify) _____

Complications of Placenta, Cord, or Membranes – ☐ Rupture of membranes prior to onset of labor ☐ Abruptio placenta ☐ Placental insufficiency ☐ Prolapsed cord
☐ Chorioamnionitis ☐ Other (Specify) _____

Other Obstetrical or Pregnancy Complications (Specify) _____

Fetal Injury (Specify) _____

Other Fetal Conditions/Disorders (Specify) _____

Fetal Anomaly (Specify) _____
Fetal Infection (Specify) _____
☐ Unknown

25b. OTHER SIGNIFICANT CAUSES OR CONDITIONS (Select or specify all other conditions contributing to death in item 25a.)

Maternal Conditions/Diseases (Specify) _____

Complications of Placenta, Cord, or Membranes – ☐ Rupture of membranes prior to onset of labor ☐ Abruptio placenta ☐ Placental insufficiency ☐ Prolapsed cord
☐ Chorioamnionitis ☐ Other (Specify) _____

Other Obstetrical or Pregnancy Complications (Specify) _____

Fetal Injury (Specify) _____

Other Fetal Conditions/Disorders (Specify) _____

Fetal Anomaly (Specify) _____
Fetal Infection (Specify) _____
☐ Unknown

26. ESTIMATED TIME OF FETAL DEATH
☐ Dead at time of first assessment, no labor ongoing
☐ Dead at time of first assessment, labor ongoing
☐ Died during labor, after first assessment
☐ Unknown time of fetal death

27a. WAS AN AUTOPSY PERFORMED?
☐ Yes ☐ No ☐ Planned

27b. WAS A HISTOLOGICAL PLACENTAL EXAMINATION PERFORMED?
☐ Yes ☐ No ☐ Planned

27c. WERE AUTOPSY OR HISTOLOGICAL PLACENTAL EXAMINATION RESULTS USED IN DETERMINING THE CAUSE OF FETAL DEATH?
☐ Yes ☐ No

28. I CERTIFY THAT THIS DELIVERY OCCURRED ON THE DATE STATED ABOVE AND THE FETUS WAS BORN DEAD.

Signature ➢

29. DATE SIGNED (Month, Day, Year)

30. ATTENDANT'S NAME AND TITLE (If delivery not attended by physician)
Name (Type) _____
☐ CNM/CM ☐ Other Midwife ☐ Other (Specify) _____

31. CERTIFIER'S NAME AND TITLE (Type)
_____
☐ M.D. ☐ D.O.
☐ Other (Specify) _____

32. CERTIFIER'S MAILING ADDRESS (Street and Number or Rural Route, City or Town, State, Zip Code)

33a. METHOD OF DISPOSITION
☐ Burial ☐ Cremation ☐ Donation
☐ Hospital Disposition ☐ Removal from State
☐ Other (Specify) _____

33b. PLACE OF DISPOSITION (Name of cemetery, crematory, or other place)	33c. LOCATION (City or Town, and State)

34. FUNERAL DIRECTOR OR HOSPITAL ADMINISTRATOR	35. FIRM OR HOSPITAL NAME AND ADDRESS	36. DATE FILED BY STATE REGISTRAR (Month, Day, Year)
Signature ➢		

VS233 Rev. 05/01/2010

37. IF HOME DELIVERY, WAS DELIVERY PLANNED AT HOME? ☐ Yes ☐ No ☐ Unknown

38. MOTHER'S MEDICAL RECORD NO.

39a. WAS MOTHER EVER MARRIED? ☐ Yes ☐ No ☐ Unknown

39b. MOTHER MARRIED? (At birth, conception or any time between) ☐ Yes ☐ No ☐ Unknown

40. PARENT'S HISPANIC ORIGIN (Check the box or boxes that best describes whether the parent is Spanish, Hispanic, or Latino. Check the "no" box if the parent is not Spanish, Hispanic, or Latino.)

40a. MOTHER-
☐ No, not Spanish/Hispanic/Latina
☐ Yes, Mexican/Mexican American/Chicana
☐ Yes, Puerto Rican
☐ Yes, Cuban
☐ Yes, Central American
☐ Yes, South American
☐ Yes, other Spanish/Hispanic/Latina (Specify)
_____
☐ Unknown

40b. FATHER-
☐ No, not Spanish/Hispanic/Latino
☐ Yes, Mexican/Mexican American/Chicano
☐ Yes, Puerto Rican
☐ Yes, Cuban
☐ Yes, Central American
☐ Yes, South American
☐ Yes, other Spanish/Hispanic/Latino (Specify)
_____
☐ Unknown

41. PARENT'S RACE (Check one or more races to indicate what you consider yourself to be.)

41a. MOTHER
☐ White
☐ Black or African American
☐ American Indian or Alaska Native (Name of the enrolled or principal tribes) _____
☐ Asian Indian
☐ Chinese
☐ Filipino
☐ Japanese
☐ Korean
☐ Vietnamese
☐ Other Asian (Specify) _____
☐ Native Hawaiian
☐ Guamanian or Chamorro
☐ Samoan
☐ Other Pacific Islander (Specify) _____
☐ Other (Specify) _____
☐ Unknown

41b. FATHER
☐ White
☐ Black or African American
☐ American Indian or Alaska Native (Name of the enrolled or principal tribes) _____
☐ Asian Indian
☐ Chinese
☐ Filipino
☐ Japanese
☐ Korean
☐ Vietnamese
☐ Other Asian (Specify) _____
☐ Native Hawaiian
☐ Guamanian or Chamorro
☐ Samoan
☐ Other Pacific Islander (Specify) _____
☐ Other (Specify) _____
☐ Unknown

42. ANCESTRY - What is the parents' ancestry or ethnic origin?- Italian, German, Dominican, Vietnamese, Hmong, French Canadian, etc. (Specify below)

42a. MOTHER

42b. FATHER

43. OCCUPATION AND BUSINESS/INDUSTRY

Occupation

Business/Industry (Do not give name of company.)

43a. MOTHER (Most recent)

43c. MOTHER

43b. FATHER (Usual)

43d. FATHER

44. EDUCATION (Check the box that best describes the highest degree or level of school completed at the time of delivery.)

44a. MOTHER'S EDUCATION
☐ 8th grade or less
☐ Some College credit, but no degree
☐ Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)
☐ Unknown
☐ 9th - 12th grade, no diploma
☐ Associate degree (e.g., AA,AS)
☐ Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)
☐ High school graduate or GED
☐ Bachelor's degree (e.g., BA, AB, BS)

44a. FATHER'S EDUCATION
☐ 8th grade or less
☐ Some College credit, but no degree
☐ Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)
☐ Unknown
☐ 9th - 12th grade, no diploma
☐ Associate degree (e.g., AA,AS)
☐ Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)
☐ High school graduate or GED
☐ Bachelor's degree (e.g., BA, AB, BS)

45. PREVIOUS LIVE BIRTHS (Do not include this child.)

45a. Now living
Number _____
☐ None

45b. Now dead
Number _____
☐ None

46. NUMBER OF OTHER OUTCOMES (Spontaneous or induced losses or ectopic or stillbirth pregnancies)

46a. Before 20 weeks
Number _____
☐ None

46b. 20 weeks & over
Number _____
☐ None

47. PLURALITY – Single, Twin, Triplet, etc. (Specify)

48. IF NOT A SINGLE BIRTH – Born First, Second, Third, etc. (Specify)

49. DATE LAST NORMAL MENSES BEGAN (Month, Day, Year)

50. OBSTETRIC ESTIMATE OF GESTATION (Completed Weeks)

45c. DATE OF LAST LIVE BIRTH (Month, Year)

46c. DATE OF LAST OTHER PREGNANCY OUTCOME (Month, Year)

51. WEIGHT OF FETUS (grams)

52. PRENATAL CARE?
☐ Yes ☐ No

53. DATE OF FIRST PRENATAL CARE VISIT (Month, Day, Year)

54. DATE OF LAST PRENATAL CARE VISIT (Month, Day, Year)

55. PRENATAL VISIT – Total number (If none, enter "0")

56. CIGARETTE SMOKING BEFORE & DURING PREGNANCY: Did mother smoke 3 mos. before or during pregnancy?
☐ Yes ☐ No ☐ Unknown

For each time period, enter either the number of cigarettes or the number of packs of cigarettes smoked per day. If none, enter "0".

Average number of cigarettes or packs of cigarettes smoked per day:

	No.		No.
Three months before pregnancy:	_____ cigarettes	or	_____ packs
First three months of pregnancy:	_____ cigarettes	or	_____ packs
Second three months of pregnancy:	_____ cigarettes	or	_____ packs
Third Trimester of pregnancy:	_____ cigarettes	or	_____ packs

57. PRINCIPAL SOURCE OF PAYMENT FOR THIS DELIVERY
☐ Medicaid
☐ Indian Health Service
☐ Other
☐ Private/Employer Ins.
☐ CHAMPUS/TRICARE
☐ Unknown
☐ Self-pay
☐ Other government

58a. MOTHER TRANSFERRED IN FOR DELIVERY DUE TO MATERNAL, MEDICAL, OR FETAL INDICATIONS?
☐ Yes ☐ No (If yes, enter facility name)

58b. FACILITY TRANSFERRED FROM:

CHILD'S NAME _____

MOTHER'S NAME _____

PRENATAL	LABOR-DELIVERY/STILLBORN FETUS

PRENATAL

59. NUTRITION OF MOTHER

1. Height _____
2. Prepregnancy Weight _____
3. Weight at delivery _____
4. Did mother get WIC food for herself?

   Yes _____   No _____   Unknown ___

60. MEDICAL RISK FACTORS (Check all that apply.)

1. ☐ Diabetes, prepregnancy
2. ☐ Diabetes, gestational
3. Hypertension
   - ☐ Prepregnancy (Chronic)
   - ☐ Gestational (PIH, preeclampsia)
   - ☐ Eclampsia
4. ☐ Previous preterm birth
5. ☐ Other previous poor pregnancy outcome (SGA, perinatal death, etc.)
6. ☐ Vaginal bleeding during this pregnancy prior to labor
7. ☐ Pregnancy resulted from infertility treatment (If yes, check all that apply.)
   - ☐ Fertility-enhancing drugs, Artificial insemination or Intrauterine insemination
   - ☐ Assisted reproductive technology (e.g. in vitro fertilization (IVF), gamete intrafallopian transfer (GIFT))
8. ☐ Mother had a previous cesarean delivery, if yes, how many Number ___
9. ☐ Alcohol use No. of drinks per week: _____
10. ☐ None of the above

61. METHOD OF DELIVERY

1. Forceps attempted? Yes _____ No_____

   Successful: Yes _____ No_____
2. Vacuum extraction attempted?

   Yes _____ No_____

   Successful: Yes _____ No _____
3. Fetal presentation at delivery
   - ☐ Cephalic
   - ☐ Breech
   - ☐ Other
4. Final route and method of delivery (check one)
   - ☐ Vaginal/spontaneous
   - ☐ Vaginal/forceps
   - ☐ Vaginal/vacuum
   - ☐ Cesarean, if cesarean was a trial of labor attempted? Yes _____ No_____
5. Hysterotomy/Hysterectomy

   Yes _____ No _____

LABOR-DELIVERY/STILLBORN FETUS

62. MATERNAL MORBIDITY (Check all that apply.)
(These are complications associated with labor and delivery.)

1. ☐ Maternal transfusion
2. ☐ Third or fourth degree perineal laceration
3. ☐ Ruptured uterus
4. ☐ Unplanned hysterectomy
5. ☐ Admission to intensive care unit
6. ☐ Unplanned operating room procedure following delivery
7. ☐ None of the above

63. INFECTIONS PRESENT AND/OR TREATED (During this pregnancy, check all that apply.)

1. ☐ Gonorrhea
2. ☐ Syphilis
3. ☐ Herpes Simplex Virus (HSV)
4. ☐ Chlamydia
5. ☐ Listeria
6. ☐ Group B Streptococcus
7. ☐ Cytomeglovirus
8. ☐ Parvo virus
9. ☐ Toxoplasmosis
10. ☐ AIDS or HIV antibody
11. ☐ None of the above
12. ☐ Other (Specify) _____

64. CONGENITAL ANOMALIES OF THE NEWBORN (Check all that apply.)

1. ☐ Anencephaly
2. ☐ Meningomyelocele/Spina bifida
3. ☐ Cyanotic congenital heart disease
4. ☐ Congenital diaphragmatic hernia
5. ☐ Omphalocele
6. ☐ Gastroschisis
7. ☐ Limb reduction defect (excluding congenital amputation and dwarfing syndromes)
8. ☐ Cleft Lip with or without Cleft Palate
9. ☐ Cleft Palate alone
10. ☐ Down Syndrome
    - ☐ Karyotype confirmed
    - ☐ Karyotype pending
11. ☐ Suspected chromosomal disorder
    - ☐ Karyotype confirmed
    - ☐ Karyotype pending
12. ☐ Hypospadias
13. ☐ Fetal alcohol syndrome
14. ☐ Other congenital anomalies *(Specify)* _____
15. ☐ None of the above

THIS IS NOT PART OF THE CERTIFICATE OF STILLBIRTH
Test required by K.S.A. 65-153F, 153G

Serological Test Made: _____ 1st _____ 2nd _____ 3rd (Trimester) _____ At Delivery _____ Not Performed

If no test made, state reason: _____

TYPE
OR
PRINT IN
PERMANENT
INK

KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT
Bureau of Epidemiology and Public Health Informatics
Curtis State Office Building, Suite 130
1000 SW Jackson
Topeka, Kansas 66612-1354
785-296-8627
Report of Induced Termination of Pregnancy (WORKSHEET)   State File Number

1. Provider Identification Number

2. Patient ID Number	3. Age on Last Birthday	4. Married ☐ Yes ☐ No	5. Date of Pregnancy Termination — Month / Day / Year

6a. Residence *US State or Country*	6b. County	6c. City or Town	6d. Inside City Limits ☐ Yes ☐ No

7a. Hispanic Origin
(Check the box or boxes that best describes whether the individual is Spanish, Hispanic, or Latina, or not Spanish, Hispanic, or Latina)

☐ Not Spanish, Hispanic, or Latina
☐ Mexican, Mexican American, or Chicana
☐ Puerto Rican
☐ Cuban
☐ Central American
☐ South American
☐ Other Spanish, Hispanic, or Latina (specify)
_____
☐ Unknown

7b. Ancestry
(Enter the name of the country that best describes the heritage or origin of the individual)

8. Race
(Check one or more races to indicate what the individual considers herself to be

☐ White
☐ Black or African American
☐ American Indian or Alaska Native
Principal Tribe(s)_____
☐ Asian Indian
☐ Chinese
☐ Filipino
☐ Japanese
☐ Korean
☐ Vietnamese
☐ Other Asian (specify) _____
☐ Native Hawaiian
☐ Guamanian or Chamorro
☐ Samoan
☐ Other Pacific Islander (specify) _____
☐ Other (specify)_____
☐ Unknown

9. Education
(specify only highest grade completed)

☐ 8th grade or less
☐ 9th-12th grade no diploma
☐ High school graduate/GED
☐ Some College - no degree
☐ Associate degree
☐ Bachelor's degree
☐ Master's degree
☐ Doctorate
☐ Unknown

10. Date Last Normal Menses Began — Month / Day / Year	11. Clinical Estimate of Gestation *(Weeks)* *	12. Previous Pregnancies *(Enter number or zero in every section)*

12. Previous Pregnancies — Live Births

12a. Now Living	12b. Now Dead	12c. Previous Induced Abortions	12d. Spontaneous Terminations (Miscarriages, Fetal Deaths)

13 TERMINATION PROCEDURES

13a Procedure that terminated pregnancy
(Check only one)

☐ Suction Curettage
☐ Sharp Curettage
☐ Dilation & Evacuation
☐ Medical Procedure I (Mifepristone)
☐ Medical Procedure II (Methotrexate)
☐ Intra-Uterine Prostaglandin Instillation
☐ Hysterotomy
☐ Hysterectomy
☐ Digoxin/Induction
☐ Partial Birth **
☐ Other (Specify) _____

13b Additional procedures used for this termination, if any
(Check all that apply)

☐ Suction Curettage
☐ Sharp Curettage
☐ Dilation & Evacuation
☐ Medical Procedure I (Mifepristone)
☐ Medical Procedure II (Methotrexate)
☐ Intra-Uterine Prostaglandin Instillation
☐ Hysterotomy
☐ Hysterectomy
☐ Digoxin/Induction
☐ Partial Birth **
☐ Other (Specify) _____

14 Reasons for determining gestational age - describe methods used.

15. Was report of physical, mental, or emotional abuse or neglect filed pursuant to K.S.A. 38-2223?
YES ☐   NO ☐

* If clinical estimate of gestational age is 22 weeks or more, complete reverse side of form.
** If Partial Birth Procedure as defined by KSA 65-6721 is used, complete reverse side of form.

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	If the clinical estimate of gestational age of the unborn child is 22 weeks or more, complete items 16 and 17.
16a	If the clinical estimate of gestation age of the unborn child was 22 weeks or greater, indicate the reason why the abortion was necessary. ☐ To preserve the life of the pregnant woman ☐ Prevent substantial and irreversible impairment of a major bodily function of the pregnant woman
16b	Provide medical basis including specific medical diagnoses and diagnosis codes of the pregnant woman.
17a	Was the unborn child viable? ☐ YES ☐ NO
17b	Provide medical basis including specific medical diagnoses and diagnosis codes and the reasons for the determination of the viability/non-viability of the unborn child.

	If a partial birth procedure was performed, complete item 18.
18.	Provide the medical basis, including specific medical diagnoses and diagnosis codes, and reasons for the determination that a partial-birth procedure was necessary to save the life of the mother whose life is endangered by a physical disorder, physical illness or personal injury, including a life-endangering physical condition, caused by the pregnancy itself.

VS 213-W Rev. 7/2014

KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT
Bureau of Epidemiology and Public Health Informatics
Curtis State Office Building
1000 SW Jackson, Suite 130
Topeka, Kansas 66612-1354
Ph 785-296-8627---Fax 785-559-4213

STATE FILE NUMBER
(Office Use Only)

INDUCED TERMINATION OF PREGNANCY
PHYSICIAN'S REPORT ON NUMBER OF CERTIFICATIONS RECEIVED

PHYSICIAN IDENTIFICATION CODE:_____

DATE REPORTED: [ ][ ]   [ ][ ]   [ ][ ][ ][ ]
                Month   Day   Year

NUMBER OF CERTIFICATIONS RECEIVED: (Month Received from Patient)

JANUARY	[ ][ ][ ]	MAY	[ ][ ][ ]	SEPTEMBER	[ ][ ][ ]
FEBRUARY	[ ][ ][ ]	JUNE	[ ][ ][ ]	OCTOBER	[ ][ ][ ]
MARCH	[ ][ ][ ]	JULY	[ ][ ][ ]	NOVEMBER	[ ][ ][ ]
APRIL	[ ][ ][ ]	AUGUST	[ ][ ][ ]	DECEMBER	[ ][ ][ ]

INSTRUCTIONS:

PHYSICIAN IDENTIFICATION CODE: Enter Physician Identification Code for PHYSICIAN'S REPORT ON NUMBER OF CERTIFICATIONS RECEIVED as assigned by KDHE. If the facility has only one physician, the code is the same as the Provider Identification number assigned by KDHE for abortion reporting on VS-213 form. If the facility has more than one physician, each physician must have a unique identification code. Use a unique assigned letter provided by KDHE and include the letter after the provider/physician number in this report. If you are uncertain about your Physician Identification Code or you do not have one, please contact the Vital and Health Statistics Data Analysis Section at the number listed above.

DATE REPORTED: Please put in a two-digit number for the month (01-12), a two digit number for the day (01-31) and the four digit year (1999) in which the report is being completed.

NUMBER OF CERTIFICATIONS RECEIVED: Please put the number of certifications performed corresponding to the appropriate month.

ACCORDING TO KSA 65-6709 THIS FORM MUST BE FILED MONTHLY WITH THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT AT THE ADDRESS LISTED ABOVE.

Kansas Department of Health and Environment
Office of Vital Statistics
CERTIFICATE OF DEATH

State File number

1. Decedent's Legal Name (First, Middle, Last)	2. Sex	3. Last Name Prior To First Marriage	4. Date Of Death (Month, Day, Year)

5. Social Security Number	6. Date of Birth (Month, Day, Year)	7a. Age – Last Birthday (Years)	7b. Under 1 Year		7c. Under 1 Day		8. Place of Birth (City and State or Foreign Country)
			Months	Days	Hours	Minutes	

9. Was Decedent Ever In U.S. Armed Forces?
☐ Yes ☐ No ☐ Unknown

10a. Place of Death (Check only one)
Hospital ☐ Inpatient ☐ DOA ☐ ER/Outpatient ☐ Nursing Home ☐ Hospice Facility ☐ Assisted Living Facility ☐ Decedent's Residence ☐ Other (Specify)

10b. Facility Name (If not institution, give street and number)	10c. County of Death	10d. City or Town of Death	10e. Zip Code

11. Marital Status
☐ Married ☐ Married, but separated ☐ Widowed ☐ Divorced ☐ Never Married ☐ Unknown

12. Surviving Spouse (Name prior to first marriage)

13a. Residence-Street Address & Apartment No	13b. State

13c. County	13d. City or Town	13e. Zip Code	13f. Inside City Limits? ☐ Yes ☐ No ☐ Unknown

14. Father/Parent Name Prior to First Marriage (First, Middle, Last)	15. Mother/Parent Name Prior to First Marriage (First, Middle, Last)

16a. Informant's Name (First, Middle, Last)	16b. Mailing Address (Street and Number, City, State, Zip Code)	16c. Relationship to Decedent

17. Method of Disposition
☐ Burial ☐ Cremation ☐ Removal from State ☐ Donation ☐ Entombment ☐ Other (Specify)

18a. Place of Disposition (Name of cemetery, crematory, or other place)	18b. Location-City or Town, and State

19. Funeral Service Licensee & License No. (Signature)
➤

20. Name of Embalmer & License No.

21. Name and Address of Firm

22. Cause of Death – Part I. Enter the chain of events-diseases, injuries, or complications – that directly caused the death. DO NOT enter terminal events such as cardiac arrest, respiratory arrest, or ventricular fibrillation without showing the etiology. DO NOT ABBREVIATE. Enter only one cause on a line. Add additional lines if necessary.

Approximate Interval: Onset To Death

IMMEDIATE CAUSE (Final disease or condition resulting in death)

a. _____
Due To (Or As A Consequence Of):

Sequentially list conditions, if any, leading to immediate cause listed on line a. Enter the UNDERLYING CAUSE (disease or injury that initiated the events resulting in death) LAST.

b. _____
Due To (Or As A Consequence Of):

c. _____
Due To (Or As A Consequence Of):

d. _____

PART II. Enter other significant conditions contributing to death, but not resulting in the underlying cause given in PART I.

23a. Autopsy ☐ Yes ☐ No ☐ Unknown	23b. Were Autopsy Findings Available to Complete The Cause of Death? ☐ Yes ☐ No ☐ Unknown ☐ Not Applicable	23c. Was Coroner Contacted? ☐ Yes ☐ No ☐ Unknown

24. Did Tobacco Use Contribute to Death?
☐ Yes ☐ Probably ☐ No ☐ Unknown

25. If Female
☐ Not pregnant within past year
☐ Pregnant at time of death
☐ Not pregnant, but pregnant within 42 days of death
☐ Not pregnant, but pregnant 43 days to 1 year before death
☐ Unknown if pregnant within the last year

26. Manner of Death
☐ Natural ☐ Homicide
☐ Accident ☐ Pending Investigation
☐ Suicide ☐ Could not be determined

27a. Date of Injury (Month, Day, Year)	27b. Time of Injury	27c. Injury at Work? ☐ Yes ☐ No	27d. Describe How Injury Occurred

27e. Place of Injury – Residence, farm, street, factory, building, etc. (Specify)	27f. Location (Street and Number or Rural Route, City or Town, State, Zip Code)

28a. Date Pronounced Dead (Month, Day, Year)	28b. Time Pronounced Dead	28c. Actual or Presumed Time of Death	28d. Name of Person Pronouncing Death (If applicable)	28e. License No.

29a. CERTIFIER (Check only one)
☐ Certifying physician – To the best of my knowledge, death occurred due to the cause(s) and manner stated.
☐ Pronouncing & Certifying physician – To the best of my knowledge, death occurred at the time, date, and place, and due to the cause(s) and manner stated.
☐ Coroner – On the basis of examination, and/or investigation, in my opinion, death occurred at the time, date, and place, and due to the cause(s) and manner stated.

Signature of Certifier ➤   License No.   Date Certifier Signed

29b. Name, Address, and Zip Code of Person Completing Cause of Death ☐ M.D. ☐ D.O. ☐ SPEC. DEPUTY	30. Date Filed By State Registrar (Month, Day, Year)

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31. Ancestry-What is this person's ancestry or ethnic origin? – Italian, German, Dominican, Vietnamese, Hmong, French Canadian, etc. (Specify Below)

32. Hispanic Origin (Check the box or boxes that best describes whether the decedent is Spanish/Hispanic/Latino. Check the "no" box if the decedent is not Spanish/Hispanic/Latino.

☐ No, not Spanish/Hispanic/Latino
☐ Yes, Mexican/Mexican American/Chicano
☐ Yes, Puerto Rican
☐ Yes, Cuban
☐ Yes, Central American
☐ Yes, South American
☐ Yes, other Spanish/Hispanic/Latino (Specify)

☐ Unknown

33. Race (Check one or more boxes to indicate what race(s) the decedent considered himself or herself to be.)

☐ White
☐ Black or African American
☐ American Indian or Alaska Native (Name of the enrolled or principal tribes)

☐ Asian Indian
☐ Chinese
☐ Filipino
☐ Japanese
☐ Korean
☐ Vietnamese
☐ Other Asian (Specify)

☐ Native Hawaiian
☐ Guamanian or Chamorro
☐ Samoan
☐ Other Pacific Islander (Specify)

☐ Other (Specify)

☐ Unknown

34. Education (Check the box that best describes the highest degree or level of school completed at the time of death.)

☐ 8th grade or less
☐ 9th-12th grade; no diploma
☐ High school graduate or GED
☐ Some college credit, but no degree
☐ Associate degree (e.g., AA, AS)
☐ Bachelor's degree (e.g., BA, AB, BS)
☐ Master's degree (e.g., MA, MS, MEng, Med, MSW, MBA)
☐ Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)
☐ Unknown

35. Decedent's Usual Occupation (Give kind of work done during most of working life. Do not use retired.)

36. Kind of Business/Industry (Do not give name of company.)

License No.

STATE OF KANSAS
DEPARTMENT OF HEALTH AND ENVIRONMENT
Office of Vital Statistics
Marriage License

1. GROOM'S NAME – FIRST	MIDDLE	LAST	2. DATE OF BIRTH (Month, Day, Year)

3. BIRTHPLACE (State or Foreign Country)	4. RESIDENCE – STATE OR FOREIGN COUNTRY	5. COUNTY OR PROVINCE	6. CITY OR TOWN

7. FATHER'S NAME (First, Middle, Last)	8. BIRTHPLACE (State or Foreign Country)	9. MOTHER'S NAME PRIOR TO FIRST MARRIAGE (First, Middle, Last)	10. BIRTHPLACE (State or Foreign Country)

11. BRIDE'S NAME- FIRST	MIDDLE	LAST

12. LAST NAME PRIOR TO FIRST MARRIAGE (If different)	13. DATE OF BIRTH (Month, Day, Year)	14. BIRTHPLACE (State or Foreign Country)

15. RESIDENCE – STATE OR FOREIGN COUNTRY	16. COUNTY OR PROVINCE	17. CITY OR TOWN

18. FATHER'S NAME (First, Middle, Last)	19. BIRTHPLACE (State or Foreign Country)	20. MOTHER'S NAME PRIOR TO FIRST MARRIAGE (First, Middle, Last)	21. BIRTHPLACE (State or Foreign Country)

22a. GROOM'S MOTHER/PARENT I OR GUARDIAN CONSENTING (If applicable, type or print)	22c. BRIDE'S MOTHER/PARENT I OR GUARDIAN CONSENTING (If applicable, type or print)
22b. GROOM'S FATHER/PARENT II OR GUARDIAN CONSENTING (If applicable, type or print)	22d. BRIDE'S FATHER/PARENT II OR GUARDIAN CONSENTING (If applicable, type or print)

22e. HAVE ALL LIVING PARENT(S) OR GUARDIAN(S) CONSENTED?

GROOM   Yes ☐   No ☐   Emancipated ☐   Parent(s) Deceased ☐   BRIDE   Yes ☐   No ☐   Emancipated ☐   Parent(s) Deceased ☐

22f. NAME OF CONSENTING JUDGE (If applicable, please type or print)	##. We do hereby declare our intent to contract a covenant marriage and, accordingly, have executed a declaration of intent and filed intent pursuant to K.S.A. 23-106. Yes ☐ No ☐

Completed marriage license is to be returned to Issuing District Court within 10 days after marriage:

23. DISTRICT COURT OF ISSUANCE	24. DATE LICENSE ISSUED (Month, Day, Year)	25. EXPIRATION DATE (Month, Day, Year)
26. ISSUING OFFICIAL	27. TITLE OF ISSUING OFFICIAL	28. DATE RECEIVED BY COURT OFFICIAL

This License Authorizes the Marriage in This State of the Parties Named Above By Any Person Duly Authorized to Perform a Marriage Ceremony Under the Laws of the State of Kansas.

29. I CERTIFY THAT THE ABOVE NAMED PERSONS WERE MARRIED ON: (Month, Day, Year)	30. WHERE MARRIED - COUNTY	31. CITY OR TOWN
32. SIGNATURE OF PERSON PERFORMING CEREMONY	33. NAME OF PERSON PERFORMING CEREMONY (Please type or print)	34. TITLE

35. ADDRESS OF PERSON PERFORMING CEREMONY (Street and No. or Rural Route, City or Town, State, Zip Code)

36. WITNESS NAME TO CEREMONY (Print or Type)	37. WITNESS NAME TO CEREMONY (Print or Type)

Designated new legal name pursuant to K.S.A. 23-2506. (If applicable)

38. GROOM'S NAME - FIRST	MIDDLE	LAST
39. BRIDE'S NAME - FIRST	MIDDLE	LAST

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STATISTICAL INFORMATION MUST BE COMPLETED ON THE BACK BEFORE SUBMITTING LICENSE TO STATE

STATISTICAL INFORMATION
(THE INFORMATION BELOW WILL NOT APPEAR ON CERTIFIED COPIES OF THE RECORD.)

40. NUMBER OF THIS MARRIAGE First, Second, etc. (Specify below)	41. IF PREVIOUSLY MARRIED, LAST MARRIAGE ENDED		DATE RECEIVED BY STATE REGISTRAR (Vital Statistics Use Only)
	By Death, Divorce, or Annulment (Specify below)	Date (Month, Day, Year)	
40a. GROOM	41a. GROOM	41b GROOM	42. GROOM'S SOCIAL SECURITY NUMBER
40b. BRIDE	41c. BRIDE	41d. BRIDE	43. BRIDE'S SOCIAL SECURITY NUMBER

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44. GROOM AND BRIDE'S HISPANIC ORIGIN (Check the box or boxes that best describes whether you are Spanish, Hispanic, or Latino. Check the "no" box if you are not Spanish, Hispanic or Latino.)

44a. GROOM
- ☐ No, not Spanish/Hispanic/Latino
- ☐ Yes, Mexican, Mexican American, Chicano
- ☐ Yes, Puerto Rican
- ☐ Yes, Cuban
- ☐ Yes, Central American
- ☐ Yes, South American
- ☐ Yes, other Spanish/Hispanic/Latino

(Specify) _____
- ☐ Unknown

44b. BRIDE
- ☐ No, not Spanish/Hispanic/Latina
- ☐ Yes, Mexican, Mexican American, Chicana
- ☐ Yes, Puerto Rican
- ☐ Yes, Cuban
- ☐ Yes, Central American
- ☐ Yes, South American
- ☐ Yes, other Spanish/Hispanic/Latina

(Specify) _____
- ☐ Unknown

45. GROOM AND BRIDE'S RACE (Check one or more boxes to indicate what race(s) you consider yourself to be.)

45a. GROOM
- ☐ White
- ☐ Black or African American
- ☐ American Indian or Alaska Native (Name of the enrolled or principal tribes) _____
- ☐ Asian Indian
- ☐ Chinese
- ☐ Filipino
- ☐ Japanese
- ☐ Other (Specify) _____
- ☐ Korean
- ☐ Vietnamese
- ☐ Other Asian (Specify) _____
- ☐ Native Hawaiian
- ☐ Guamanian or Chamorro
- ☐ Samoan
- ☐ Other Pacific Islander (Specify) _____
- ☐ Unknown

45b. BRIDE
- ☐ White
- ☐ Black or African American
- ☐ American Indian or Alaska Native (Name of the enrolled or principal tribes) _____
- ☐ Asian Indian
- ☐ Chinese
- ☐ Filipino
- ☐ Japanese
- ☐ Other (Specify) _____
- ☐ Korean
- ☐ Vietnamese
- ☐ Other Asian (Specify) _____
- ☐ Native Hawaiian
- ☐ Guamanian or Chamorro
- ☐ Samoan
- ☐ Other Pacific Islander (Specify) _____
- ☐ Unknown

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46. EDUCATION (Check the box that best describes the highest degree or level of school completed)

46a. GROOM'S EDUCATION
- ☐ 8th grade or less
- ☐ Some College credit, but no degree
- ☐ Unknown
- ☐ Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)
- ☐ 9th - 12th grade; no diploma
- ☐ Associate degree (e.g., AA,AS)
- ☐ Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)
- ☐ High school graduate or GED
- ☐ Bachelor's degree (e.g., BA, AB, BS)

46b. BRIDE'S EDUCATION
- ☐ 8th grade or less
- ☐ Some College credit, but no degree
- ☐ Unknown
- ☐ Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)
- ☐ 9th - 12th grade; no diploma
- ☐ Associate degree (e.g., AA,AS)
- ☐ Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)
- ☐ High school graduate or GED
- ☐ Bachelor's degree (e.g., BA, AB, BS)

STATE OF KANSAS
KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT
Office of Vital Statistics
CERTIFICATE OF DIVORCE OR ANNULMENT

CASE NUMBER   **State File Number**

1. HUSBAND/SPOUSE NAME (First, Middle, Last)	2. LAST NAME PRIOR TO FIRST MARRIAGE	3. DATE OF BIRTH (Month, Day, Year)

4. RESIDENCE-STATE	5. COUNTY

6. WIFE/SPOUSE NAME (First, Middle, Last)	7. LAST NAME PRIOR TO FIRST MARRIAGE

8. DATE OF BIRTH (Month, Day, Year)	9. RESIDENCE-STATE	10. COUNTY

11. PLACE OF THIS MARRIAGE - STATE OR FOREIGN COUNTRY	12. COUNTY	13. DATE OF THIS MARRIAGE (Month, Day, Year)	14. NUMBER OF CHILDREN UNDER 18 IN THIS HOUSEHOLD AS OF DATE IN ITEM 17

15. PETITIONER
☐ Husband/Spouse   ☐ Wife/Spouse   ☐ Both   ☐ Other (Specify)

16. NAME OF PETITIONER'S ATTORNEY (Type)

17. ATTORNEY'S ADDRESS (Street and Number or Rural Route, City or Town, State, Zip Code)

18. DATE DECREE FILED (Month, Day, Year)	19. TYPE OF DECREE-(Specify)	20. COUNTY OF DECREE	21. DATE FILED BY STATE REGISTRAR (Month, Day, Year)

THE INFORMATION BELOW WILL NOT APPEAR ON CERTIFIED COPIES OF THE RECORD.
K.S.A. 65-2422B, REQUIRES THE DIVORCE REPORT TO INCLUDE THE SOCIAL SECURITY NUMBER OF BOTH PARTIES TO MAKE SUCH INFORMATION AVAILABLE TO THE SECRETARY OF CHILDREN AND FAMILIES FOR THE PURPOSE OF ESTABLISHING, MODIFYING, OR ENFORCING A SUPPORT OBLIGATION.

22. HUSBAND/SPOUSE SOCIAL SECURITY NUMBER	23. WIFE/SPOUSE SOCIAL SECURITY NUMBER

24. NUMBER OF THIS MARRIAGE First, Second, etc. (Specify below)	25. IF PREVIOUSLY MARRIED, LAST MARRIAGE ENDED	
	By Death, Divorce, or Annulment (Specify below)	Date (Month, Day, Year)
24a. HUSBAND/SPOUSE	25a. HUSBAND/SPOUSE	25b HUSBAND/SPOUSE
24b. WIFE/SPOUSE	25c. WIFE/SPOUSE	25d. WIFE/SPOUSE

26. HISPANIC ORIGIN (Check the box or boxes that best describes whether you are Spanish, Hispanic, or Latino. Check the "no" box if you are not Spanish, Hispanic, or Latino.)

27. RACE (Check one or more boxes to indicate what race(s) you consider yourself to be.)

26a. HUSBAND/SPOUSE	26b. WIFE/SPOUSE
☐ No, not Spanish/Hispanic/Latino	☐ No, not Spanish/Hispanic/Latina
☐ Yes, Mexican, Mexican American, Chicano	☐ Yes, Mexican, Mexican American, Chicana
☐ Yes, Puerto Rican	☐ Yes, Puerto Rican
☐ Yes, Cuban	☐ Yes, Cuban
☐ Yes, Central American	☐ Yes, Central American
☐ Yes, South American	☐ Yes, South American
☐ Yes, other Spanish/Hispanic/Latino (Specify)	☐ Yes, other Spanish/Hispanic/Latina (Specify)
☐ Unknown	☐ Unknown

27a. HUSBAND/SPOUSE
☐ White
☐ Black or African American
☐ American Indian or Alaska Native (Name of the enrolled or principal tribes)
☐ Asian Indian
☐ Chinese
☐ Filipino
☐ Japanese
☐ Other (Specify)
☐ Korean
☐ Vietnamese
☐ Other Asian (Specify)
☐ Native Hawaiian
☐ Guamanian or Chamorro
☐ Samoan
☐ Other Pacific Islander (Specify)
☐ Unknown

27b. WIFE/SPOUSE
☐ White
☐ Black or African American
☐ American Indian or Alaska Native (Name of the enrolled or principal tribes)
☐ Asian Indian
☐ Chinese
☐ Filipino
☐ Japanese
☐ Other (Specify)
☐ Korean
☐ Vietnamese
☐ Other Asian (Specify)
☐ Native Hawaiian
☐ Guamanian or Chamorro
☐ Samoan
☐ Other Pacific Islander (Specify)
☐ Unknown

28. EDUCATION (Check the box that best describes the highest degree or level of school completed)

28a. HUSBAND/SPOUSE
☐ 8th grade or less   ☐ 9th - 12th grade, no diploma   ☐ High school graduate or GED
☐ Some College credit, but no degree   ☐ Associate degree (e.g., AA,AS)   ☐ Bachelor's degree (e.g., BA, AB, BS)
☐ Unknown   ☐ Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)   ☐ Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)

28b. WIFE/SPOUSE
☐ 8th grade or less   ☐ 9th - 12th grade, no diploma   ☐ High school graduate or GED
☐ Some College credit, but no degree   ☐ Associate degree (e.g., AA,AS)   ☐ Bachelor's degree (e.g., BA, AB, BS)
☐ Unknown   ☐ Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)   ☐ Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)

29. HUSBAND/SPOUSE GENDER	30. WIFE/SPOUSE GENDER

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