

# Kansas

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## Annual Summary of Vital Statistics, 2019



Kansas Department of Health and Environment  
Division of Public Health  
Bureau of Epidemiology and Public Health Informatics  
Curtis State Office Building – 1000 SW Jackson, Topeka, KS, 66612-1354  
<http://www.kdheks.gov/bephi/>  
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This Report Was Prepared by:

Lee A. Norman, M.D., Secretary

Division of Public Health  
Bureau of Epidemiology and Public Health Informatics  
Kay Haug, State Registrar and Director  
Farah Ahmed, MPH, PhD, State Epidemiologist

Authors:

David Oakley, MA  
Greg Crawford, BA  
Cathryn Savage, PhD

Layout and desktop publishing by:

Jade Hodge, BA  
Andrew Simpson, BA

Data for this report were collected by:

Office of Vital Statistics  
Jason Mathewson, Director

“Remember to see the faces in the numbers.”  
---Anonymous

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, 2019**

Laura Kelly, Governor

Lee A. Norman, M.D., Secretary  
Department of Health and Environment

Prepared by the:  
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# Annual Summary 2019

## Introduction

The 2019 *Kansas Annual Summary of Vital Statistics* is a general summary of data compiled from vital event records during calendar year 2019. Content includes statistics from live births, stillbirths, abortions, deaths, marriages, and marriage dissolutions based on certificates and reports filed with the Office of Vital Statistics in the Bureau of Epidemiology and Public Health Informatics.

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, available only electronically, provides an overview of the events contributing to the health status of Kansans. Report 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 <https://www.kdheks.gov/phi/index.htm>.

The 2019 annual summary continues a series of comparisons of selected Kansas vital statistics to national targets set by the Healthy People 2020 project.<sup>1</sup>

Comments concerning the format or content of this report may be directed to the Bureau of Epidemiology and Public Health Informatics (785-296-1531) or e-mail [Greg.Crawford@ks.gov](mailto:Greg.Crawford@ks.gov).

ADA Statement: If you desire a copy of this publication in alternative form because of a disability, contact the Kansas Department of Health and Environment, Division of Public Health, Bureau of Epidemiology and Public Health Informatics, 1000 SW Jackson, Suite 130, Topeka, KS 66612-1354, (785) 296-8627, or 1-800-332-6262 (TDD/TT).

## Population

In early 2020, the United States Census Bureau (USCB) released its first population estimates for July 1, 2019. Kansas total population was estimated at 2,913,314, an increase of 1,809 (0.1%) from the estimate of Kansas total population for July 1, 2018 (2,911,505) released in 2019. (Table B4).

### ***Population Density and Peer Groups***

The population density of Kansas was 35.6 inhabitants per square mile in 2019, an 8.2 percent increase from 32.9 persons per square mile in 2000. For comparison, the population density of the U.S. increased from 79.6 to 92.9 persons per square mile from 2000 to 2019, a 16.7 percent increase (Figure B4).

In 2019, 36 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 1.6 persons per square mile. The most densely populated county was Johnson, with 1,248.8 persons per square mile (Figure B6).

Kansas counties are assigned to peer groups based on population density. (See the Technical Notes, Appendix 2 for peer group composition.) During the 2015-2019 period, the population of the urban peer group increased by 2.1 percent, while the frontier, rural, densely-settled rural, and semi-urban peer groups decreased by 3.9, 3.1, 2.1, and 2.2 percent, respectively (Table B4).

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<sup>1</sup> Healthy People 2020 [Internet]. Washington: U.S. Department of Health and Human Services; [updated 2020 Sep 25; cited 2020 Sep 25] Available from: <http://www.healthypeople.gov/2020/default.aspx>.

### ***Natural Increase***

In 2019, the rate of natural increase (the birth rate minus the death rate) was 2.7 persons per 1,000 population, a decrease of 15.6 percent from 3.2 per 1,000 population in 2018, and the lowest rate of natural increase in the past twenty years. Over the past 20 years (2000-2019), the rate of natural increase has fluctuated between a maximum of 6.3 persons per 1,000 population (2007) and a minimum of 2.7 persons per 1,000 population (2019) (Figure B2).

The population of Kansas increased about 211,000 from the 1990 Census to the 2000 Census, and by about 165,000 from the 2000 Census to the 2010 Census. 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 4 percent (7,000) in the 2000s. (From *2011 Kansas Annual Summary of Vital Statistics*, will be updated after the 2020 Census.)

### ***Median Age***

The median age of Kansans in 2019 was 37.1 years, a 5.4 percent increase from the median age of 35.2 in 2000. The median ages of Kansas males and females in 2019 were 35.8 and 38.3 respectively (Figure B3, Table B2).

### ***Population Characteristics***

The percent increase in the Kansas total population from 2000-2019 was 8.4 percent, including a 9.3 percent increase for Kansas males and a 7.5 percent increase for Kansas females. Shifts in the Kansas population distribution by age from 2000 to 2019 included a decrease in the 35-44 age group of 14.0 percent. This decrease, and another of 7.3 percent in residents 45-54 years of age, and increases of 69.1 percent in residents 55-64 years of age, and 54.5 percent in residents 65-74 years of age reflected the aging of the baby boomers.<sup>2</sup> There were also decreases over the same period the number of residents in the 0-4 and 5-14 age-groups, reflecting several years of declines in the Kansas birth rate (see following section for discussion). Furthermore, there were 3.3, 9.7, and 12.8 percent increases in the 15-24, 25-34, and 75 and over age-groups respectively (Figure B5, Table B2).

According to the 2019 Census Bureau estimates, 75.4 percent of Kansans were White non-Hispanic and 5.7 percent were Black non-Hispanic. Hispanics made up 12.2 percent of Kansas' population (Tables B3 and B5).

### ***Live Births and Fertility***

During 2019, there were 35,395 live births to residents of Kansas. This was a decrease of 2.4 percent from the 36,268 births reported in 2018. The birth rate in 2019 was 12.1 births per 1,000 population, a decrease of 3.2 percent from 12.5 births per 1,000 population in 2018 (Table C10).

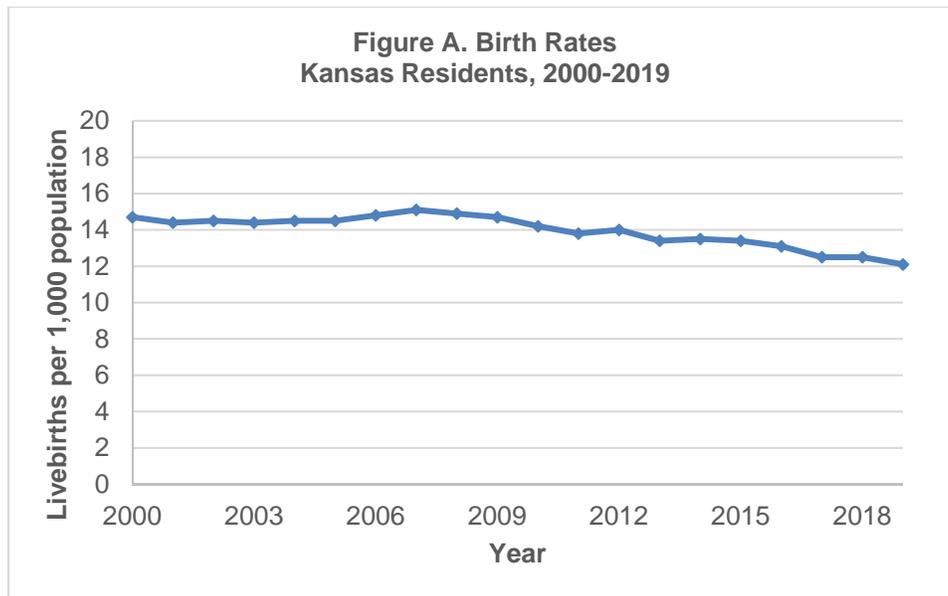
The 2019 birth rate (12.1 per 1,000 population) was the lowest Kansas birth rate in the period from 1912 to date (the entire period in which KDHE and its predecessors have maintained the Kansas Vital Records System). The only years with comparable birth rates were 2017 and 2018 (12.5 per 1,000 population in both years) (Figure C1).

Over the past 20 years (2000-2019), the Kansas birth rate has fluctuated between a peak of 15.1 births per 1,000 population (reported in 2007) and a low of 12.1 births per 1,000 population

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<sup>2</sup> The common definition of 1946-1964 for the baby boom years implies that in 2019, baby boomers were between 55 and 73 years of age.

(reported in 2019) (Figure A). Recent low birth rates continue a sustained decline that began in 2008 (Table C1, Figure C1).



### **Population Group Statistics**

In 2019, there were 24,400 births to resident White non-Hispanic mothers, a decrease of 3.2 percent from the 25,196 births reported in 2018. The birth rate for White non-Hispanic mothers decreased 2.6 percent, from 11.4 births per 1,000 population in 2018 to 11.1 births per 1,000 population in 2019 (Table A3, Table C20).

There were 6,069 births to Hispanic mothers in 2019, an increase of 1.6 percent from the 5,976 births reported in 2018. The birth rate for Hispanic mothers was 17.0 births per 1,000 population in 2019, unchanged from 2018.

There were 2,419 births to Black non-Hispanic mothers in 2019, a decrease of 3.2 percent from the 2,499 births reported in 2018. The birth rate for Black non-Hispanic mothers decreased 2.7 percent, from 14.9 births per 1,000 population in 2018 to 14.5 births per 1,000 population in 2019 (Table A3, Table C20).

### **Fertility Rates**

The number of Kansas females in the main child-bearing age bracket (ages 15-44) was 561,891 in 2019, down 2.1 percent from 573,959 in 2001 (the peak in the 2000–2019 period). The Kansas fertility rate in 2019 was 63.0 livebirths per female population in the 15-44 age bracket, 16.6 percent below the period high (75.5 in 2007), and the lowest rate for the 2000–2019 period (Table C2, Figure C2).

Of the 35,395 resident births in 2019, there were 18,036 males and 17,358 females and one infant of undetermined sex, for a natal sex ratio of 103.9 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<sup>3</sup> (Table C3).

<sup>3</sup> United Nations Population Fund [Internet] UNFPA Guidance Note on Prenatal Sex Selection, p. 11; [cited 2017 Aug 16]. Available from: [http://www.unfpa.org/sites/default/files/resource-pdf/guidenote\\_prenatal\\_sex-selection.pdf](http://www.unfpa.org/sites/default/files/resource-pdf/guidenote_prenatal_sex-selection.pdf)

### ***Low Birth Weight***

During 2019, low birth weight (under 2,500 grams) infants accounted for 2,689 or 7.6 percent of births to Kansas resident mothers. Low birth weights were more common for Black non-Hispanic mothers (14.9%) than for White non-Hispanic (6.9%) or Hispanic (7.4%) mothers. High birth weight (4,000 grams and over) infants accounted for 3,026, or 8.5 percent of births to Kansas resident mothers. High birth weights were more common for White non-Hispanic mothers (9.7%) than for Hispanic (7.1%) or Black non-Hispanic (3.6%) mothers (Table C8).

### ***Small for Gestational Age***

Infants born at birth weights less than the 10th percentile of all other infants at the same gestational age (lowest 9.9 percent) are considered small for gestational age (SGA). Table C18 uses birth weights from 2019 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.

### ***Mother's Age***

Of the 35,395 resident births in 2019, 5.3 percent (1,876) were to mothers under the age of 20; 52.5 percent (18,594) were to mothers 20-29 years of age; 39.8 percent (14,079) were to mothers 30-39 years of age; and 2.4 percent (845) were to mothers aged 40 or over (Table C6).

Of the 24,400 resident births to White non-Hispanic mothers, 928 (3.8%) were to mothers under the age of twenty. Of the 2,419 births to Black non-Hispanic mothers, 214 (8.8%) were to mothers under the age of 20. Of the 6,069 births to Hispanic mothers, 590 (9.7%) births were to mothers under the age of 20 (Table A3).

### ***First Trimester Care***

Prenatal care data was provided for 34,646 out of 35,395 (97.9%) live births in 2019. Prenatal care began in the first trimester for 28,281 live births (80.9 percent of live births where prenatal care data was available), in the second trimester for 5,193 live births (14.8%), and in the third trimester for 1,172 live births (3.4%). No prenatal care was indicated for 324 live births (0.9%).

White non-Hispanic mothers started prenatal care in the first trimester in 84.8 percent of live births (20,522). Black non-Hispanic mothers started prenatal care in the first trimester in 69.6 percent of live births (1,663). Hispanic mothers started prenatal care in the first trimester in 71.6 percent of live births (4,225) (Table C7).

### ***Prenatal Care Status***

Of the 34,935 Kansas resident live births in 2019 for which the adequacy of prenatal care utilization (APNCU) category could be determined, 83.8 percent received adequate or better prenatal care, including 30.4 percent with adequate-plus care. Sixteen percent (16.2) received less than adequate prenatal care, including 11.2 percent with inadequate care (Table C14).

### ***Mother's Weight Gain***

Among singleton Kansas live births, 21.7 percent of mothers gained less than the recommended weight during pregnancy, 31.1 percent gained the recommended weight, and 47.2 percent gained more than the recommended amount (Table C19).

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### ***Marital Status***

During 2019, 12,883 (36.4%) of the 35,395 resident live births in Kansas were to unmarried mothers. There were 7,171 (29.4%) births to unmarried White non-Hispanic mothers; 1,676 (69.3%) to unmarried Black non-Hispanic mothers; and 3,209 (52.9%) to unmarried Hispanic mothers (Table C22).

The percentage of births to unmarried mothers in Kansas in 2019 remained unchanged from 36.4 percent in 2018. However, the 2019 percentage rate was 25.5 percent higher than the 2000 rate of 29.0 percent of births to unmarried mothers (Figure C7).

### ***Delivery Method***

Vaginal delivery was the most common final route of delivery for most Kansas resident live births in 2019 (24,890 live births, or 70.3% 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 (23,922 deliveries, or 67.6% of live births for which the final route was stated). Other vaginal deliveries (forceps assisted or vacuum extraction) accounted for 968 live births (2.7%). Cesarean deliveries accounted for 10,504 live births (29.7%). White non-Hispanic mothers delivered via cesarean section in 7,355 live births (30.1%), Black non-Hispanic mothers in 779 live births (32.2%), and Hispanic mothers in 1,626 live births (26.8%). There was one delivery for which the final route of delivery was not recorded (Table C9).

### ***Tobacco Use***

Tobacco use at any time during pregnancy was reported for 2,994 births in 2019, amounting to 8.5 percent of births for which tobacco usage was reported. Tobacco use was known for 35,280 of the 35,395 births (99.7%) in 2019.

Reported tobacco usage was highest in the three months immediately prior to pregnancy (3,607, or 10.2%) and decreased gradually with each trimester: to 2,944, or 8.3 percent in the first trimester; then to 2,618, or 7.4 percent in the second trimester; and finally to 2,514, or 7.1 percent in the third trimester (Table C17).

### ***Teen Pregnancy***

It is important to look at all reported pregnancies to analyze fertility. 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 2019 was 2,236, down 3.8 percent from 2,324 pregnancies in 2018. The pregnancy rate for mothers under 20 years of age in 2019 was 11.5 pregnancies per 1,000 female age-group population, a decline of 3.4 percent from a rate of 11.9 pregnancies per 1,000 female age-group population in 2018. This was the lowest pregnancy rate for this age-group in the past twenty years (2000–2019), down from a peak of 30.3 pregnancies per 1,000 female age-group population in 2000 (Table C23, Figure C8).

The pregnancy rate for females aged 15-17 years in 2019 was 8.7 per 1,000 female age-group population. This surpasses the Healthy People 2020 target (FP 8.1) of 36.2 pregnancies per 1,000 adolescent females aged 15 to 17 years by 2020.

The pregnancy rate for females aged 18-19 years in 2019 was 43.9 per 1,000 female age-group population. This surpasses the Healthy People 2020 target (FP 8.2) of 105.9 pregnancies per 1,000 females ages 18-19 years by 2020.

The birth rate for females aged 15-19 years in 2019 was 19.2 per 1,000 female age group population (Table C25).

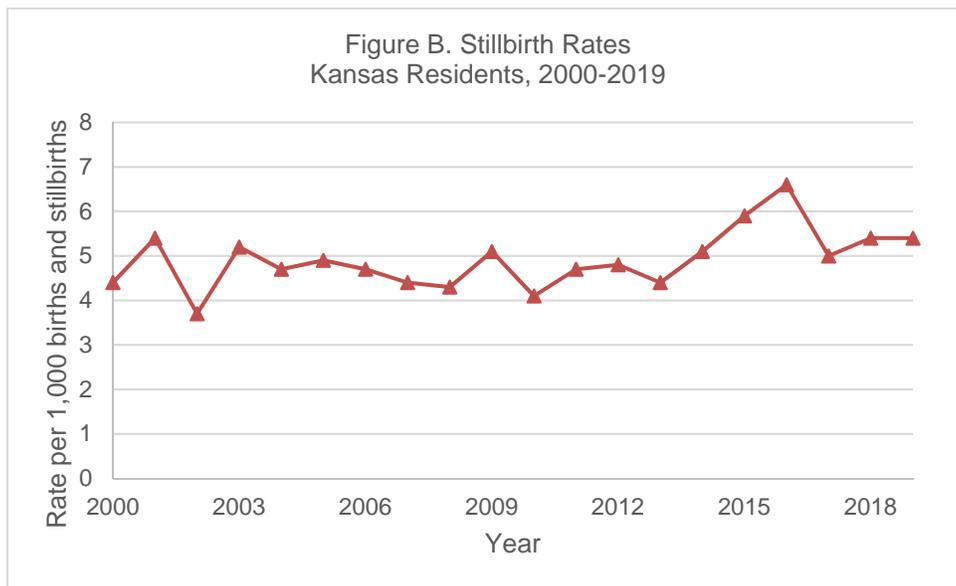
# Fetal and Infant Mortality

## 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 2019, there were 192 stillbirths reported for Kansas resident mothers, a decrease of 2.0 percent from the 196 stillbirths reported in 2018. The stillbirth rate was 5.4 per 1,000 live births and stillbirths, unchanged from 2018 (Tables D1, A3).

In 2019, the stillbirth rate (per 1,000 live births plus stillbirths) was 4.4 for White non-Hispanics, 9.8 for Black non-Hispanics, and 7.8 for Hispanics (Table A3).



Over the past 20 years (2000-2019), annual stillbirth rates have fluctuated, but Poisson regression (calculated with the Joinpoint program) indicates that the general trend was downward, but not statistically significant, for 2000-2010, and upwards but not statistically significant for 2010-2019. The latter period can be discounted, since it includes the years where the stillbirth definition changed (Figure B).

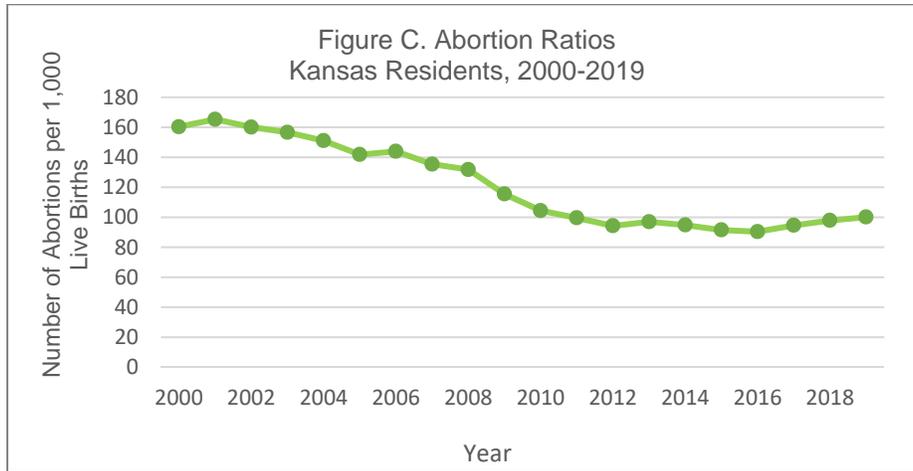
Of all stillbirths in 2019, 88.0 percent (169 out of 192) were attributed to conditions originating in the perinatal period and 7.3 percent (14 out of 192) to congenital anomalies (Table D1).

## Abortions

In 2019, there were 3,543 abortions performed on Kansas residents, of which 3,521 were performed in Kansas, and 22 were performed out-of-state. There were also 3,373 abortions performed in Kansas for non-residents (Table D4).

### Abortion Ratios

The abortion ratio for Kansas residents in 2019 increased 2.3 percentage points (100.1 per 1,000 live births) from 97.9 in 2018. The abortion ratio declined by 37.5 percent from 2000 to 2019, from a ratio of 160.3 abortions per 1,000 live births in 2000 to 100.1 abortions per 1,000 live births in 2019 (Figure C) (Table D3, Figure D2).



The abortion ratio for Kansas residents in 2019 varied substantially by age-group of the mother. The highest ratio (333.3 per 1,000 live births) was recorded for mothers under 15 years of age, while the lowest (65.3 per 1,000 live births) was recorded for mothers in the 30-34 age group (Figure D3).

The abortion ratio for White non-Hispanics was 76.8 abortions per 1,000 live births (1,874 resident abortions); for Black non-Hispanics it was 257.5 (623 resident abortions); and for Hispanics it was 116.7 (708 resident abortions) (Table C20, Table D5).

### Gestation at Termination

In 2019, 71.1 percent of Kansas resident abortions occurred prior to nine completed weeks of gestational age. About 90.7 percent were performed prior to the 13<sup>th</sup> week of gestation and 16.2 percent of Kansas resident women obtained an abortion after 16 weeks gestation. (Table D5).

### Marital Status

More than 80 percent (84.5) of all reported abortions in 2019 were to unmarried women. Among Black non-Hispanic women in this group, 91.0 percent were unmarried, while 83.8 percent of White non-Hispanic women and 85.1 percent of Hispanic women were unmarried (Table D6).

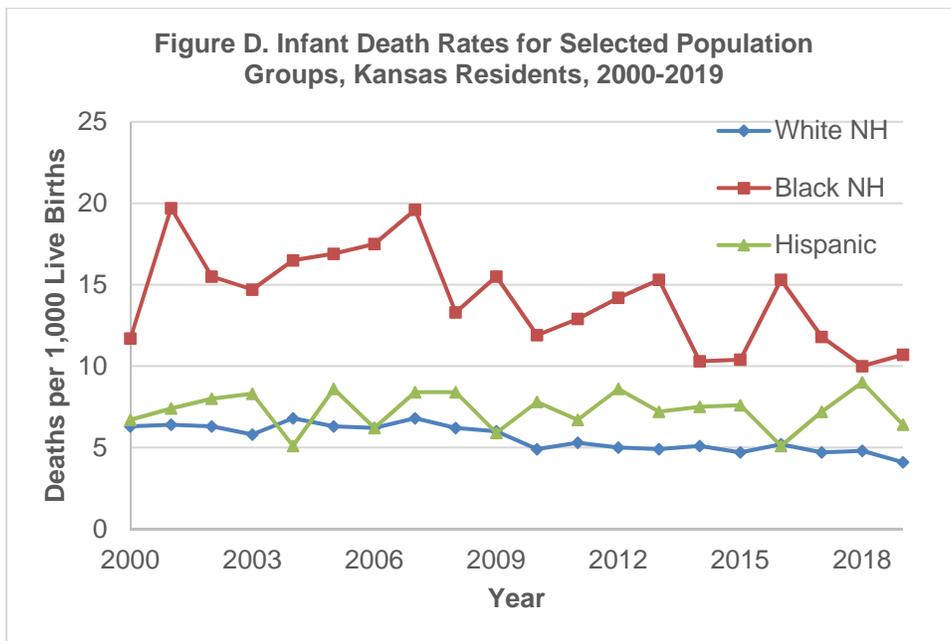
## Infant Mortality

There were 189 infant deaths to Kansas residents in 2019, a decrease of 18.2 percent from 231 infant deaths in 2018 (Tables D14). While this is a significant decline in infant mortality, it would be premature to assume that it represents a permanent improvement.

The infant mortality rate for Kansas residents in 2019 was 5.3 infant deaths per 1,000 live births, down 17.2 percent from 6.4 infant deaths per 1,000 live births in 2018. This meets the Healthy People 2020 target for infant deaths, 6.0 infant deaths per 1,000 live births (MICH-1.3), and was the lowest infant mortality rate for Kansas residents in the last 20 years (2000-2019) (Table D12).

The rate for White non-Hispanic mothers in 2019 was 4.1 deaths per 1,000 live births, a decrease of 14.6 percent from the rate of 4.8 in 2018. The rate for Black non-Hispanic mothers was 10.7 deaths per 1,000 live births, an increase of 7.0 percent from the rate of 10.0 in 2018. The rate for Hispanic mothers was 6.4 deaths per 1,000 live births, a decrease of 28.9 percent from the rate of 9.0 in 2018. Caution should be used in interpreting these changes due to the relatively small number of occurrences and yearly fluctuations (Tables D12, A3).

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 (2000-2019). 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

Infant deaths are most likely to occur within the first month of life. In 2019, 41.3 percent of all infant deaths occurred in the first day of life, 53.4 percent occurred within the first seven days of life (the hebdomadal period), and 62.4 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 2018 to 2019; stillbirths decreased by 2.0 percent, hebdomadal deaths decreased by 25.7

percent. There were 293 perinatal period III deaths in 2019, for a death rate of 8.2 deaths per 1,000 live births plus stillbirths, an increase of 1.2 percent from the 2000 rate of 8.1 (Table D10).

Of all infant deaths in 2019, 42.3 percent were attributed to conditions originating in the perinatal period, 24.9 percent to congenital anomalies, 3.2 percent to sudden infant death syndrome (SIDS), and 29.6 percent to all other causes (Table D13).

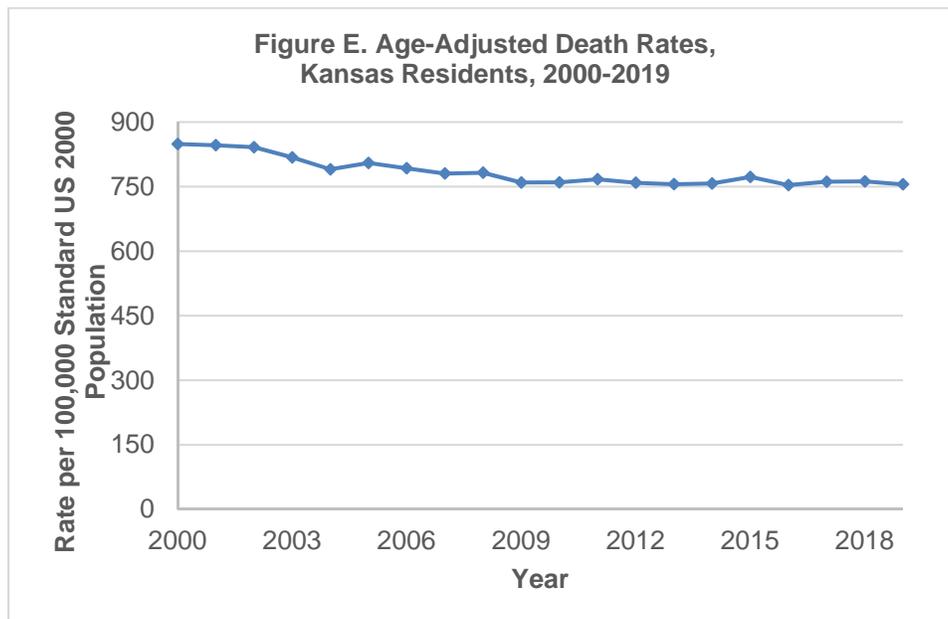
### **Maternal Mortality**

In the 2018 report, Kansas retained the definition of “maternal death” used by the National Center for Health Statistics (NCHS), but dropped a category called “other pregnancy associated deaths” that was included from 2008 to 2017. Please see the Technical Notes for full definitions and an explanation for the reason to drop the second category. In 2019, there were seven maternal deaths, an increase from 2018, when there were five maternal deaths (Figure D8).

### **General Mortality**

There were 27,312 Kansas resident deaths recorded in 2019, an increase of 0.4 percent from the 27,213 deaths recorded in 2018. The Kansas crude death rate in 2019 was 937.5 deaths per 100,000 population (Tables E1, E3, Figure E1).

The Kansas age-adjusted death rate (see Technical Notes for a discussion of age-adjusted rates) for 2019 was 755.3 deaths per 100,000 standard U.S. 2000 population, down 0.9 percent from 762.1 in 2018. The age-adjusted death rate for males (884.3) was 36.9 percent higher than that for females (645.9) (Table E3).



The Kansas age-adjusted death rate in 2019 was higher than its twenty-year low (for 2000-2019) of 735.5 in 2016, but was 11.0 percent below its peak for the period of 849.0 in 2000 (Figure E) (Figure E2, Table E3).

### Age at Death

The average age at death of Kansas residents in 2019 was 74.5 years, an increase of 0.3 percent from 74.3 in 2018 (Table E4).

Average age at death varied by sex and population group. In 2019, males died 6.0 years younger than females (71.5 versus 77.5 years). The average age at death for the White non-Hispanic population was 75.8 years, 10.6 years higher than that of the Black non-Hispanic population (65.2 years), and 15.6 years higher than that of the Hispanic population (60.2 years) (Table E4).

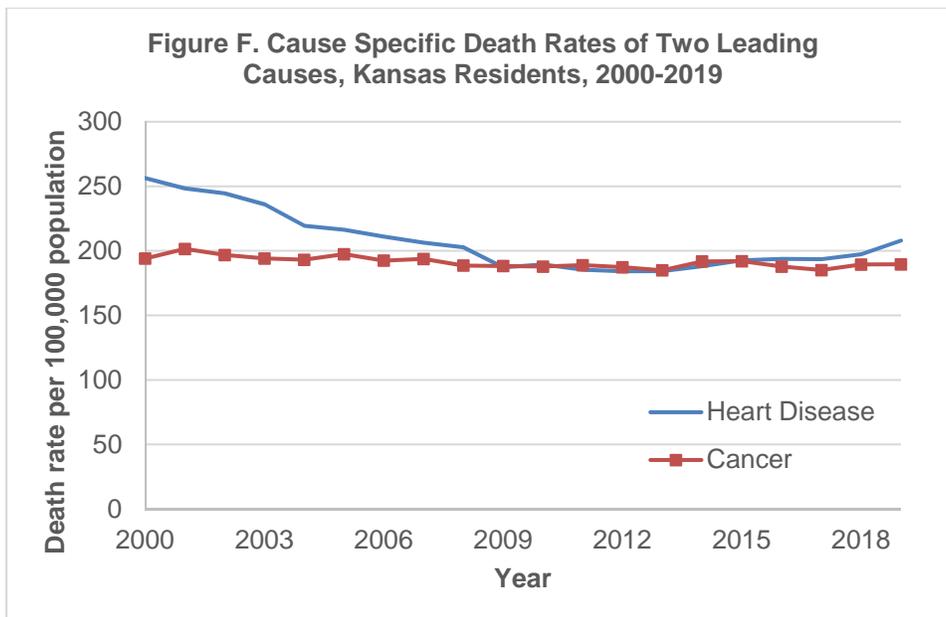
Over 60 percent (60.1) of White non-Hispanic Kansas residents who died in 2019 were 75 years of age or older, while only 35.7 percent of deceased Black non-Hispanic residents and 34.1 percent of deceased Hispanic residents had reached the age of 75 (Table E4).

### Leading Causes of Death

The 10 leading causes of death in Kansas remained unchanged from 2018 to 2019, though their order changed in some cases. *Diabetes mellitus* and Alzheimer's disease changed places as 6<sup>th</sup> and 7<sup>th</sup> leading causes (*diabetes mellitus* ranked 6<sup>th</sup> in 2019). Nephritis, nephrotic syndrome and nephrosis rose from 10<sup>th</sup> to 8<sup>th</sup> leading cause, while pneumonia and influenza dropped from 8<sup>th</sup> to 10<sup>th</sup> leading cause. All other rankings remained unchanged from 2018.

The ten leading causes of death accounted for 71.4 percent of all Kansas resident deaths in 2019. Age-adjusted rate changes from 2018 to 2019 were not statistically significant for nine of the ten leading causes of death, as indicated by overlapping 95% confidence intervals. The decline in age-adjusted rates for influenza and pneumonia, from 18.4 to 13.7 deaths per 100,000 population, was 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 2000-2012, but heart disease death rates declined much more rapidly than cancer death rates. Since 2012, heart disease death rates have gradually increased, while cancer death rates have fluctuated. In 2019, the heart disease death rate was 207.9 deaths per 100,000 population, while the cancer death rate was 189.5 per 100,000 population (Table E8, Figure E3).



### ***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 did so at about the same ages (72.3 and 72.4 years, respectively), but males who died from heart disease did so at younger ages than did females (75.6 and 81.8 years, respectively). Males dying from chronic lower respiratory disease were about the same age as females dying of that cause (76.0 and 76.9 years, respectively), but males dying of cerebrovascular disease were about four years younger than females dying of the same cause (78.1 and 82.3 years, respectively). Males who died from suicide were slightly older than females who died of that cause (44.5 and 41.8 years, respectively), but males died from unintentional injuries at much younger ages than females (54.4 and 65.6 years, respectively). Alzheimer's disease killed at the highest average ages for males and females (84.3 and 87.6 years respectively) (Table E7).

The leading causes of death also varied by age-group. In 2019, 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).

For the 15-24 and 25-34 age-groups, unintentional injuries were followed by suicide and homicide as leading causes of death. These three causes accounted for 69.8 percent of deaths in this age-group (Table E6).

### ***Infectious Disease***

Five hundred fourteen (514) Kansas residents died of pneumonia and influenza in 2019, for an age-adjusted death rate of 13.7 per 100,000 population (Table E9). Since 2000, the yearly count of resident pneumonia and influenza deaths has varied from a high of 740 to a low of 514. The age-adjusted pneumonia and influenza death rate in the period has varied from a high of 24.1 to a low of 13.7 deaths per 100,000 population. 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-two (22) Kansas residents died of HIV/AIDS in 2019, for an age-adjusted death rate of 0.7 per 100,000 population (Table E6). This surpasses the Healthy People 2020 target (HIV-12) of reducing the rate to 3.3 HIV/AIDS deaths per 100,000 population.

### ***Cancer***

Cancer was responsible for 5,520 Kansas resident deaths in 2019, for an age-adjusted death rate of 151.0 per 100,000 population (Table E8). This surpasses the Healthy People 2020 target for cancer deaths (C-1) of 160.6 per 100,000 population.

### ***Ischemic Heart Disease***

Ischemic heart disease was responsible for 3,603 Kansas resident deaths in 2019, for an age-adjusted death rate of 97.9 per 100,000 population<sup>4</sup> (Table E10). This surpasses the Healthy People 2020 target for reducing coronary heart disease deaths (HDS-2, which has the same definition as used here for ischemic heart disease), to 100.8 per 100,000 population.

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<sup>4</sup> Age-adjusted rates for deaths due to ischemic heart disease were calculated from data presented in Table E13.

## ***Cerebrovascular Disease***

Kansas age-adjusted death rates from cerebrovascular disease decreased to 34.3 per 100,000 population in 2019, down 2.8 percent from a rate of 35.3 per 100,000 population in 2018. Since 2000, death rates due to cerebrovascular disease have declined by 35.3 percent (Table E8, Figure E3).

Healthy People 2020 uses the word “stroke” to include all the ICD-10 codes included in this report in the cerebrovascular disease category. The Healthy People 2020 target for stroke (HDS-3) is to reduce deaths to 33.8 deaths per 100,000 population. To meet this target, Kansas resident cerebrovascular disease deaths would have to decline from 1,283 in 2019 to about 1,264 by 2020 (Table E12). (The exact number would depend on decedent age distributions and on future changes to the Kansas population.)

## ***Atherosclerosis***

Note that atherosclerosis has been dropped from the list of the fifteen leading causes of death (Table E8). Atherosclerosis was diagnosed as the underlying cause of death for 345 Kansas residents in 2018, but for only 53 in 2019. Most of the state’s atherosclerosis deaths prior to 2019 were certified by (an) individual/s no longer in practice.

## ***External Causes***

In 2019, the age-adjusted unintentional injury death rate was 49.4 deaths per 100,000 population, a decrease of 4.8 percent from the rate of 51.9 in 2018. The 2019 rate was the highest unintentional injury death rate in the past twenty years (Table E8, Figure E3).

Motor-vehicle injuries resulted in 398 deaths in 2019 (377 traffic and 21 non-traffic), accounting for 25.2 percent of 1,578 unintentional injury deaths. This was a decrease of 1.5 percent from 404 motor-vehicle injury deaths in 2018 (Table E13).

The motor-vehicle traffic injury death rate in 2019 was 13.3 deaths per 100,000 population (age-adjusted).<sup>5</sup> This falls short of the Healthy People 2020 target (IVP-13.1) of 12.4 deaths per 100,000 population.

Unintentional falls were responsible for 424 Kansas resident deaths in 2019 for an age-adjusted death rate of 11.4 per 100,000 population. The Healthy People 2020 target for fall related deaths (IVP-23.1) is 7.0 per 100,000 population. Meeting this target would require a reduction to about 260 unintentional fall deaths by 2020. The exact number would depend on decedent age distributions and on future changes to the Kansas population.

Kansas recorded 521 resident suicide deaths in 2019, down 6.1 percent from 555 suicide deaths in 2018. The suicide age-adjusted death rate decreased from 19.2 deaths per 100,000 population in 2018 to 18.1 deaths per 100,000 population in 2019. Although the single-year change in rate was not statistically significant, the 2019 suicide rate was one of the three highest in the last twenty years (Tables E8, E31).

Almost four-fifths (79.5%) of suicide victims were male. The three age groups with the largest number of suicides were 35-44 (106 deaths), 25-34 (104 deaths), and 15-24 (83 deaths). The three most common methods of suicide were firearms (290 deaths), suffocation (143 deaths), and poisoning (60 deaths) (Tables E14, E22).

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<sup>5</sup> Age-adjusted rates for deaths due to unintentional motor vehicle accidents and unintentional falls were calculated from data presented in Table E13.

Kansas recorded 136 resident homicide deaths in 2019, lower than the 159 homicide deaths in 2018, below the middle of the range (105-179) for the last twenty years (2000-2019). The homicide age-adjusted death rate decreased from 5.9 deaths per 100,000 population in 2018 to 4.8 deaths per 100,000 population in 2019. The single-year change in rate was not statistically significant, and the 2019 rate was close to the middle of the range (3.7-6.2 homicides per 100,000 population) for the 2000-2019 period. Most homicides (98, or 78.4% of homicides where the method was known) were committed using firearms (Table E8, E14, Table E31).

Drugs were the underlying cause of death for 348 Kansas residents in 2019, up from 289 in 2018 (Table E33). This is also the highest number of drug deaths in the last twenty years (2000-2019). It includes unintentional deaths and deaths of undetermined intent, but excludes suicides and homicides using drugs. The biggest change is in deaths due to psychostimulants (the category that includes methamphetamine), which rose from 74 in 2018 to 148 in 2019. Increases for counts of deaths due to specific drugs in 2019 are at least partly due to increased efforts by OVS staff, who now contact physicians to get a more specific diagnosis when the initial report was generic (as in “drug overdose” or “poly-pharmacy”).

### ***YPLL 75 Statistics***

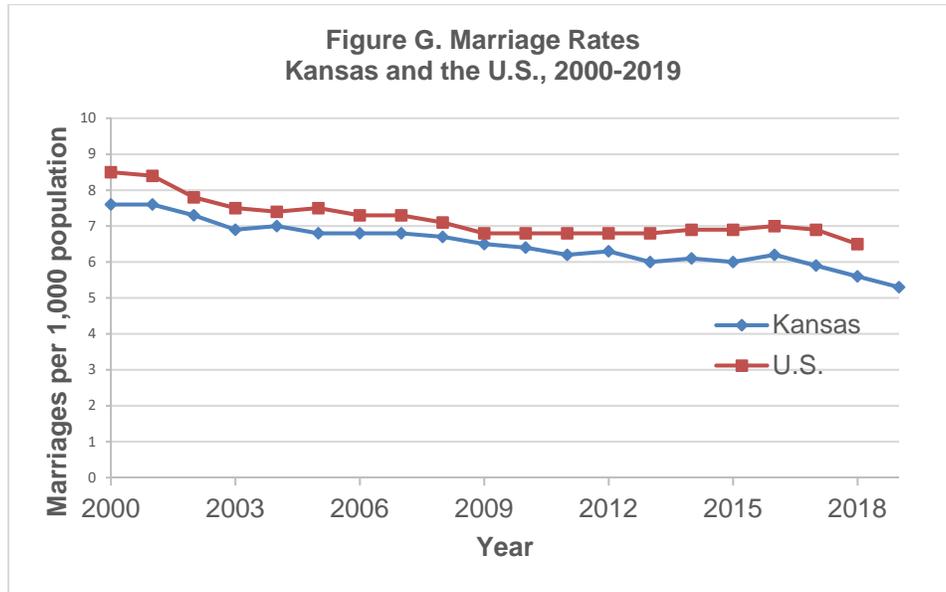
Mortality in Kansas was responsible for 192,077 years of potential life lost before age 75 in 2019 (see Technical Notes – Years of Potential Life Lost). Cancer, unintentional injury, and heart disease accounted for the most years of potential life lost (36,473, 31,385, and 26,307 years lost, respectively). Men lost more than twice the potential years of life to unintentional injuries than did women (22,246 years and 9,139 years, respectively) (Table E20).

### ***Tobacco and Mortality***

Tobacco use contributed to 4,793 deaths in Kansas in 2019 (25.1 percent of the deaths where the tobacco contribution was known and reported on the death certificate). Tobacco use was a contributing factor in 30.5 percent of male deaths, and in 20.0 percent of female deaths. The causes of death showing the largest tobacco contribution were cancer of the trachea, bronchus and lung (86.6%), chronic lower respiratory disease (83.7%), ischemic heart disease (35.2%), and *diabetes mellitus* (28.9%). (Table E21) Physicians and coroners can state on the death certificate whether tobacco contributed to the death. Because information may not be available at the time the death certificate is completed, tobacco’s contribution may be subject to some under-reporting.

## Marriages

In 2019, 15,403 marriages occurred in Kansas, a decrease of 5.9 percent from the 2018 total of 16,362 marriages (Table F1).



The Kansas marriage rate in 2019 was 5.3 marriages per 1,000 population. This rate was 5.4 percent lower than the 5.6 percent rate recorded in 2018, and was the lowest rate recorded for the state of Kansas in the last twenty years (2000–2019) (Figure G). For the entire period, Kansas marriage rates have been lower than U.S. marriage rates (Table F1, Figure F1).

### ***Marriage Characteristics***

First-time marriages have made up more than half of the marriages in Kansas in every year beginning with 1999. In 2019, 58.4 percent of all marriages involved first-time partners (Table F4).

More marriages occurred in June and October (each 11.8%) than any other month in 2019. September was the third most popular month (Figure F3).

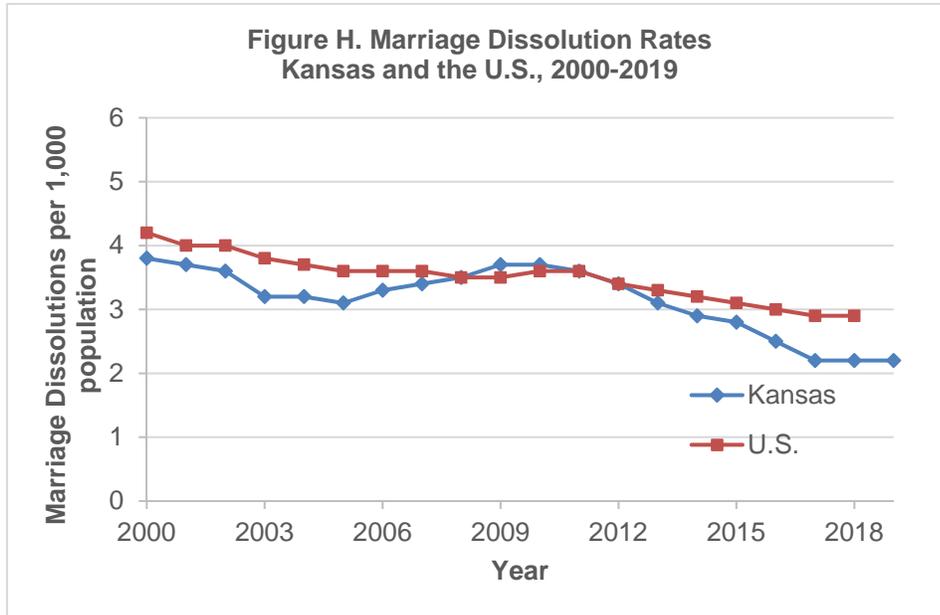
### ***Age at Marriage***

Kansas couples are delaying marriage. In 2000, 10.2 percent of the brides and 3.7 percent of the grooms were under 20 years of age. In 2019, however, only 4.4 percent of the brides and 2.0 percent of the grooms were under 20 (Table F5).

The average age of all brides in 2019 was 31.8 years and that of grooms was 33.9 years. Women marrying for the first time averaged 26.8 years while first time grooms averaged 28.5 years. Of those persons who remarried in 2019, women were, on average, 42.8 years old and men were 45.6 years of age (Figure F4).

## Marriage Dissolutions

In 2019, 6,398 marriage dissolutions (6,303 divorces and 95 annulments) occurred in Kansas, a decrease of 2.1 percent from the 2018 total of 6,538 (Table F1, Table F7).



The Kansas marriage dissolution rate in 2019 was 2.2 per 1,000 population, which was 42.1 percent lower than the 2000 rate of 3.8 (Figure H). Since 2013, the state rate has been consistently lower than the national rate. U.S. rates for 2019 have not been released at the time this summary was written (Table F1, Figure F2).

The ratio of marriages to marriage dissolutions in Kansas in 2019 was 2.4:1 (Table F1).

### ***Age at Marriage Dissolution***

The most common age-group of husbands involved in marriage dissolutions in 2019 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 25-29 (Table F6).

The average age at marriage dissolution in 2019 was 38.7 years for wives and 40.8 years for husbands, as compared to 35.6 years for wives and 37.9 years for husbands in 2000 (Figure F5).

### ***Marriage Dissolution Characteristics***

In 2019, 34.3 percent of marriages ending in divorce or annulment lasted four years or less (Table F7).

There were 5,523 minor children affected as a result of marriage dissolutions in 2019. At least one minor child was reported to be involved in almost half (45.6%) of the marriage dissolutions (Table F8, Figure F6).

# A. VITAL EVENTS

Table A1  
Selected Vital Events and Percent Change  
Kansas, 2019, 2018 and 2000

Vital Event	2019	2018	Percent Change 2018-2019	2000	Percent Change 2000-2019
Live Births	35,395	36,268	-2.4	39,654	-10.7
Births to Unwed Mothers	12,883	13,181	-2.3	11,491	12.1
Stillbirths	192	196	-2.0	177	8.5
Hebdomadal Deaths	101	136	-25.7	146	-30.8
Perinatal Period III Deaths	293	332	-11.7	323	-9.3
Neonatal Deaths	118	162	-27.2	174	-32.2
Infant Deaths	189	231	-18.2	266	-28.9
Maternal Deaths	7	5	40.0	4	75.0
Deaths	27,312	27,213	0.4	24,676	10.7
Marriages	15,403	16,362	-5.9	20,426	-24.6
Marriage Dissolutions	6,398	6,538	-2.1	10,105	-36.7
Abortions	3,543	3,550	-0.2	6,356	-44.3

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

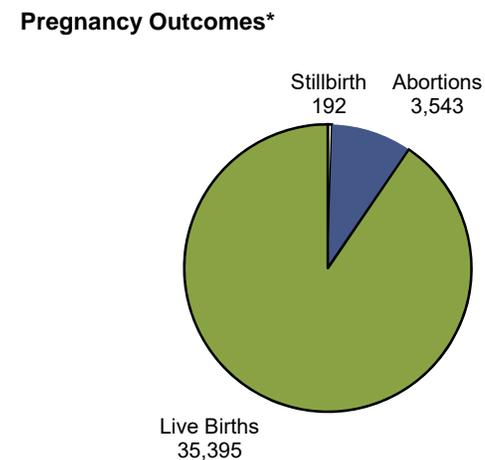
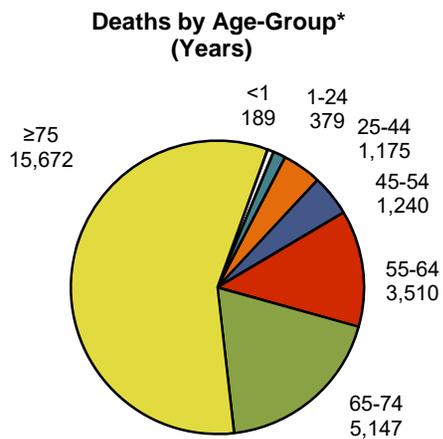
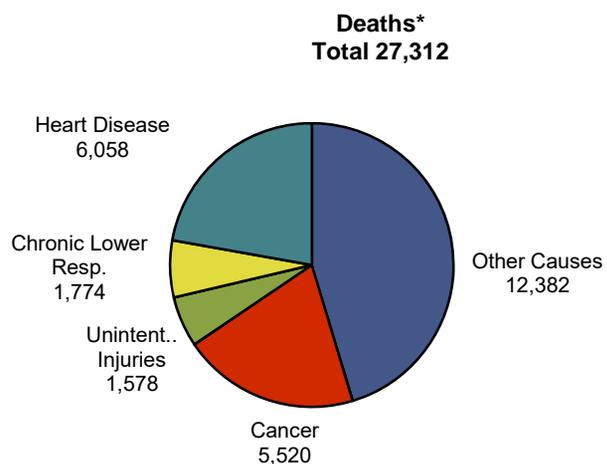
EVERY DAY DURING 2019\*

<b>Each day Kansas residents experienced approximately</b>		
97 Live births		
35 Births to unwed mothers		
6 Live births to teenagers		
7 Low birthweight live births		
<1 Infant death		
75 Deaths		
17 Heart disease		
15 Cancer		
5 Chronic lower respiratory disease		
4 Unintentional injuries		
4 Cerebrovascular disease		
2 Diabetes		
2 Alzheimer's disease		
2 Nephritis, nephrotic syndrome, nephrosis		
1 Suicide		
1 Pneumonia and influenza		
		<b>Each day in Kansas there occurred approximately</b>
		42 Marriages
		18 Marriage dissolutions
		19 Abortions

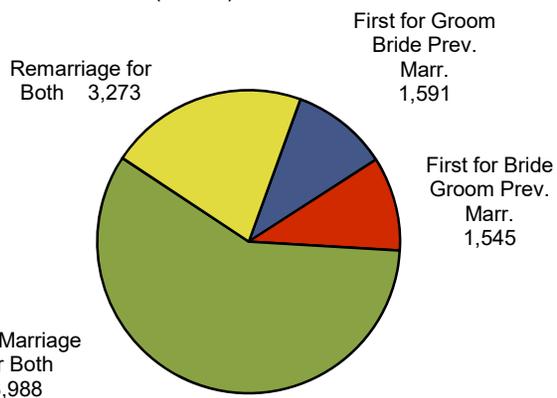
\* based on 365 days in 2019

Figure A1

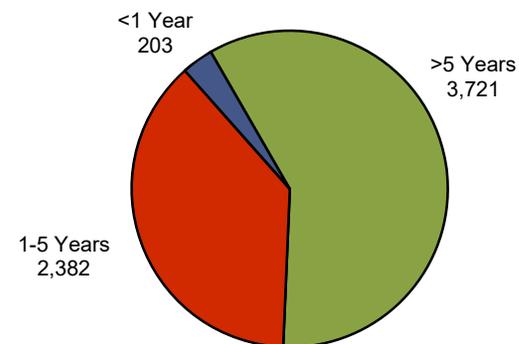
# Kansas Vital Statistics for 2019



**Marriages† by Marriage Order**  
Total 15,403  
(6 N.S.)



**Marriage Dissolutions† By Duration of Marriage**  
Total 6,398  
(92 N.S.)



\* Residence Data  
† Occurrence Data

Figure A2

Table A2  
Selected Vital Event Percents, Rates, and Ratios  
Kansas, 2000-2019

Vital Event	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Live Births																				
Number	39,654	38,832	39,338	39,353	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
Rate*	14.7	14.4	14.5	14.4	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
Out-of-Wedlock Births																				
Number	11,491	11,592	12,129	12,345	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
Percent†	29.0	29.9	30.8	31.4	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
Stillbirths																				
Number	177	209	146	206	186	194	192	186	182	213	168	188	195	173	199	233	252	184	196	192
Rate‡	4.4	5.4	3.7	5.2	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
Hebdomadal Deaths																				
Number	146	148	155	138	144	153	137	163	160	144	143	121	142	140	138	132	119	128	136	101
Rate§	3.7	3.8	3.9	3.5	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
Perinatal Period III Deaths																				
Number	323	357	301	344	330	347	329	349	342	357	311	309	337	313	337	365	371	312	332	293
Rate‡	8.1	9.1	7.6	8.7	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
Neonatal Deaths																				
Number	174	178	192	177	176	196	176	211	193	176	170	157	173	166	175	160	145	154	162	118
Rate§	4.4	4.6	4.9	4.5	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
Infant Deaths																				
Number	266	285	282	262	284	297	293	333	303	290	253	247	254	248	246	230	223	217	231	189
Rate§	6.7	7.3	7.2	6.7	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
Maternal Deaths ¶																				
Number	4	1	2	0	2	6	4	3	7	8	7	4	4	10	5	5	8	8	5	7
Rate#	10.1	2.6	5.1	0.0	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
Deaths																				
Number	24,676	24,590	24,968	24,417	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
Rate**	916.4	910.3	920.3	896.5	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
Marriages																				
Number	20,426	20,457	19,783	18,722	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
Rate*	7.6	7.6	7.3	6.9	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
Marriage Dissolutions																				
Number	10,105	9,885	9,654	8,644	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
Rate*	3.8	3.7	3.6	3.2	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
Abortions																				
Number	6,356	6,419	6,298	6,163	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
Ratio§	160.3	165.3	160.1	156.6	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

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

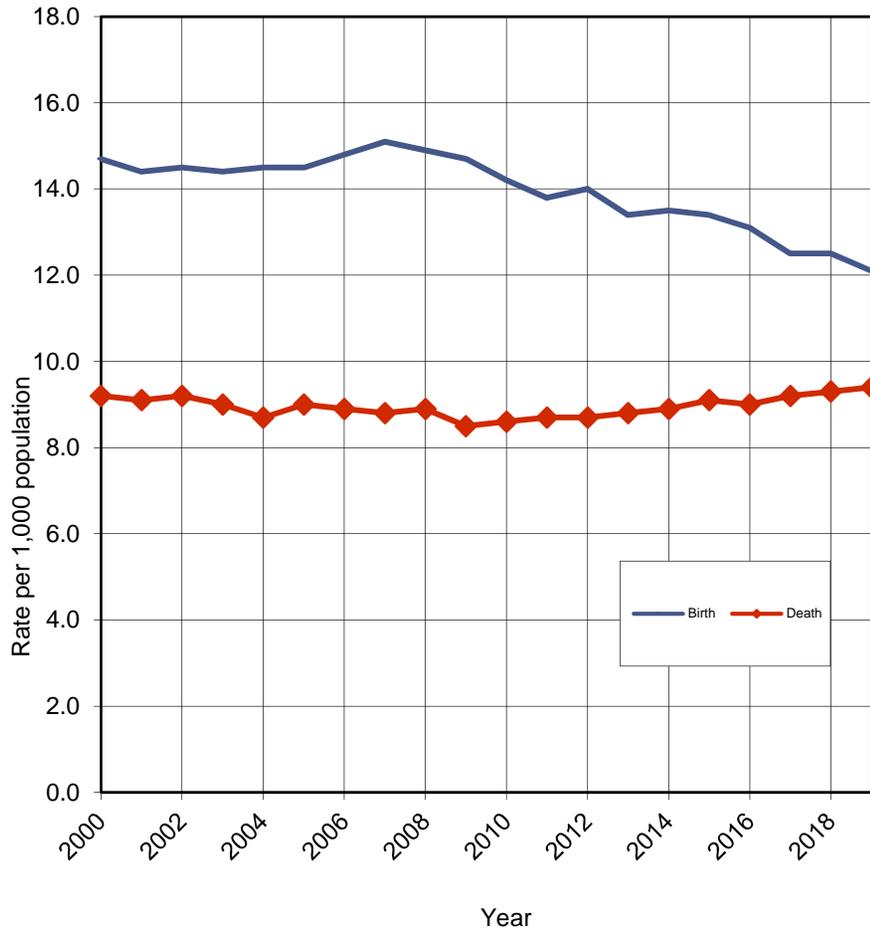
¶ See Technical Notes for Information on updated definition of Maternal Mortality

# Per 100,000 live births

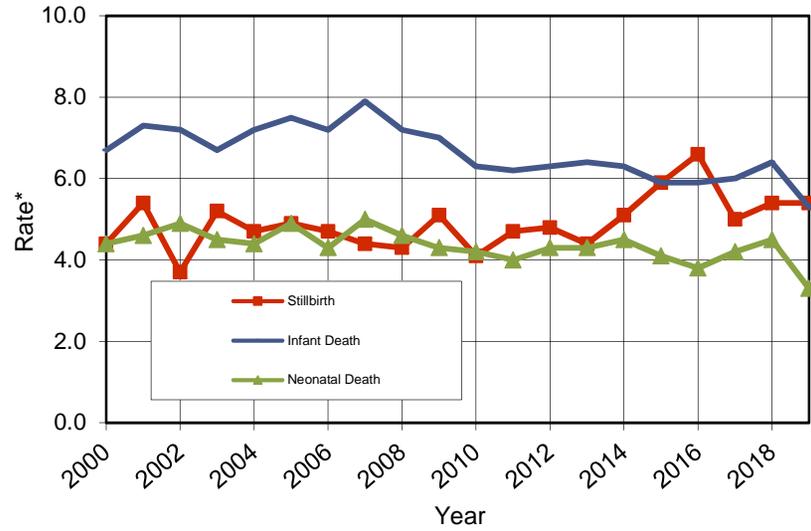
\*\* Per 100,000 population

Selected Vital Event Rates  
Kansas, 2000-2019

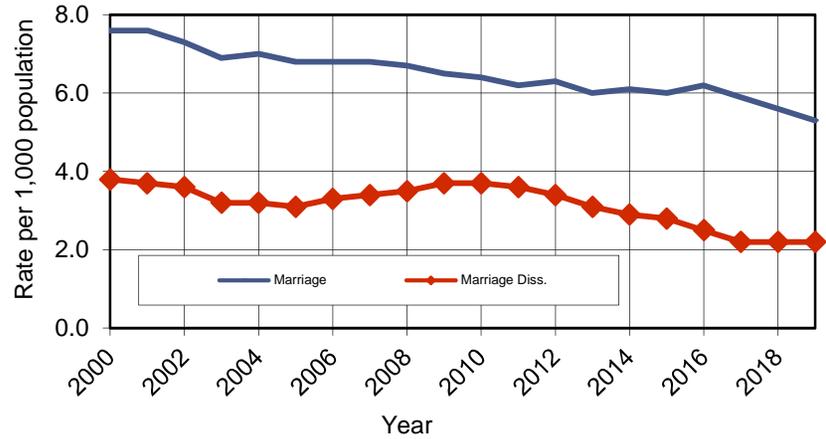
Birth and Death Rates  
Kansas, 2000-2019



Stillbirth\*, Infant, and Neonatal Death Rates  
Kansas, 2000-2019



Marriage and Marriage Dissolution Rates  
Kansas, 2000-2019



\* Stillbirth rates are per 1,000 Livebirths + Stillbirths;  
Infant death and Neonatal death rates are per 1,000 Livebirths.

Figure A3

Table A3  
Selected Vital Events by Population Group  
Kansas, 2019

<b>Births and Birth Rates</b>									
	<u>Total</u>	White <u>Non-Hispanic</u>	Black <u>Non-Hispanic</u>	Native American <u>Non-Hispanic</u>	Asian/Pacific <u>Non-Hispanic</u>	Other <u>Non-Hispanic*</u>	Hispanic <u>Any Race</u>	<u>n.s.</u>	
Births	35,395	24,400	2,419	147	1,225	1,098	6,069	37	
Birth Rates <sup>†</sup>	12.1	11.1	14.5	6.3	13.1	14.4	17.0	n/a	
<b>Maternal Characteristics</b>									
	<u>Total</u>	White <u>Non-Hispanic</u>	Black <u>Non-Hispanic</u>	Native American <u>Non-Hispanic</u>	Asian/Pacific <u>Non-Hispanic</u>	Other <u>Non-Hispanic*</u>	Hispanic <u>Any Race</u>	<u>n.s.</u>	
Births to mother <18 years of age	441	175	68	4	4	25	165	0	
Births to mother <20 years of age	1,876	928	214	15	20	108	590	1	
Births to mother with < HS diploma or GED	4,062	1,580	367	24	126	191	1,772	2	
Births to unwed mothers	12,883	7,171	1,676	90	177	549	3,209	11	
Fourth and higher birth order <sup>#</sup>	5,277	3,198	494	28	112	169	1,269	7	
<b>Birth Outcomes</b>									
	<u>Total</u>	White <u>Non-Hispanic</u>	Black <u>Non-Hispanic</u>	Native American <u>Non-Hispanic</u>	Asian/Pacific <u>Non-Hispanic</u>	Other <u>Non-Hispanic*</u>	Hispanic <u>Any Race</u>	<u>n.s.</u>	
Low birth weight infants (<2500 grams)	2,689	1,672	360	13	92	100	448	4	
Very low birth weight infants (<1500 grams)	492	301	84	3	17	13	74	0	
Births with gestational age < 37 weeks	3,569	2,348	358	17	116	118	606	6	
	<u>Total</u>	White <u>Non-Hispanic</u>	Black <u>Non-Hispanic</u>	Native American <u>Non-Hispanic</u>	Asian/Pacific <u>Non-Hispanic</u>	Other <u>Non-Hispanic*</u>	Hispanic <u>Any Race</u>	<u>n.s.</u>	
Infant deaths <sup>‡</sup>	5.3	4.1	10.7	6.8	0.8	13.7	6.4	n/a	
Neonatal deaths <sup>‡</sup>	3.3	2.7	5.4	0.0	0.8	9.1	3.8	n/a	
Postneonatal deaths <sup>‡</sup>	2.0	1.5	5.4	6.8	0.0	4.6	2.6	n/a	
Stillbirths <sup>§</sup>	5.4	4.4	9.8	0.0	4.9	5.4	7.8	n/a	
Perinatal <sup>§</sup>	8.2	6.5	14.7	0.0	5.7	13.6	11.1	n/a	
<b>Pregnancy Characteristics</b>									
	<u>Total</u>	White <u>Non-Hispanic</u>	Black <u>Non-Hispanic</u>	Native American <u>Non-Hispanic</u>	Asian/Pacific <u>Non-Hispanic</u>	Other <u>Non-Hispanic*</u>	Hispanic <u>Any Race</u>	<u>n.s.</u>	
Births to women with prenatal care in first trimester	28,281	20,522	1,663	88	951	806	4,225	26	
Births to women with late (3rd trimester) or no prenatal care	1,496	715	174	12	65	68	457	5	
Plural births <sup>**</sup>	1,101	761	120	8	36	34	142	0	
<b>Deaths and Death Rates</b>									
	<u>Total</u>	White <u>Non-Hispanic</u>	Black <u>Non-Hispanic</u>	Native American <u>Non-Hispanic</u>	Asian/Pacific <u>Non-Hispanic</u>	Other <u>Non-Hispanic*</u>	Hispanic <u>Any Race</u>	<u>n.s.</u>	
Deaths	27,312	24,133	1,397	180	222	336	982	62	
Death Rates <sup>¶</sup>	937.5	1,098.5	834.9	773.5	237.8	439.7	275.8	n/a	
Age-Adjusted death rates <sup>¶</sup>	755.3	757.2	949.8	1,065.9	362.5	996.0	539.9	n/a	

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

<sup>†</sup> Rate per 1,000 population

<sup>‡</sup> Rate per 1,000 live births

<sup>§</sup> Rate per 1,000 live births + Stillbirths

<sup>¶</sup> Rate per 100,000 standard U.S. 2000 population

<sup>#</sup> Number of infants born to mothers who had at least three prior births.

<sup>\*\*</sup> Number of infants who were twins or higher order multiple.

## B. POPULATION

Table B1  
Population by Year and Sex  
Kansas Residents, 1970-2019

Years	Total	Male	Female
1970	2,248,359	1,102,665	1,145,694
1971	2,246,461	1,102,241	1,144,220
1972	2,255,791	1,107,579	1,148,212
1973	2,264,585	1,111,492	1,153,093
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

\* 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.

Total Population  
Kansas, 2000-2019\* (in Thousands)

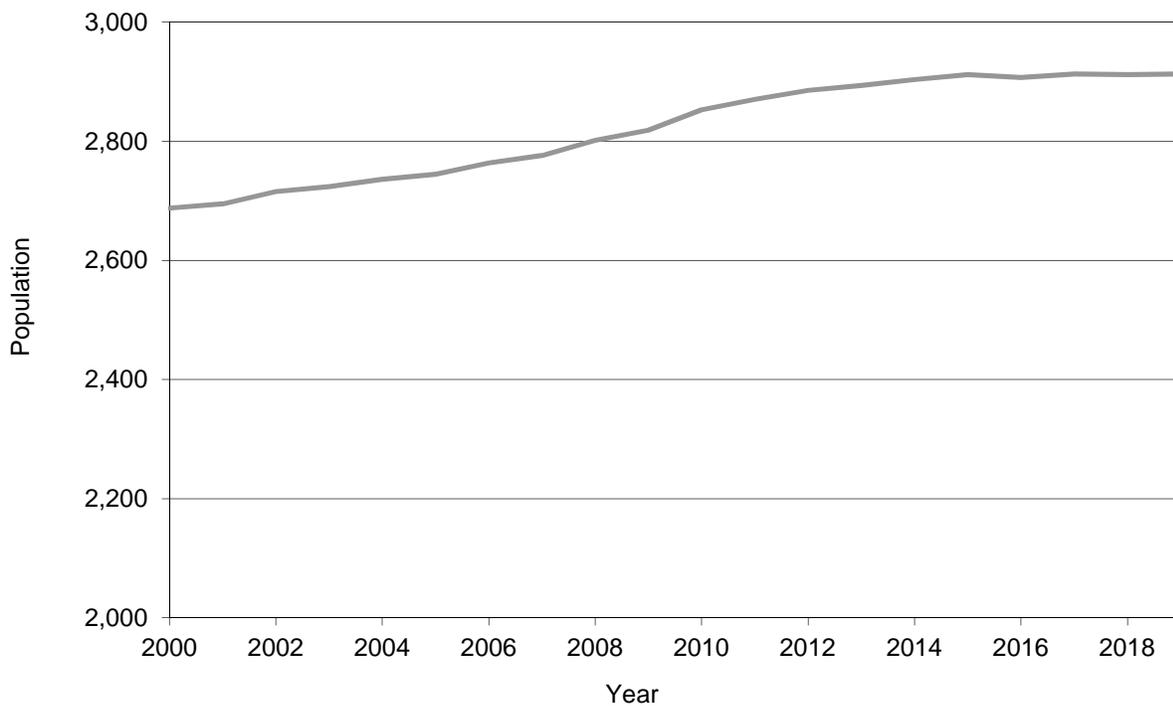


Figure B1

Rate of Natural Increase  
Kansas, 2000-2019

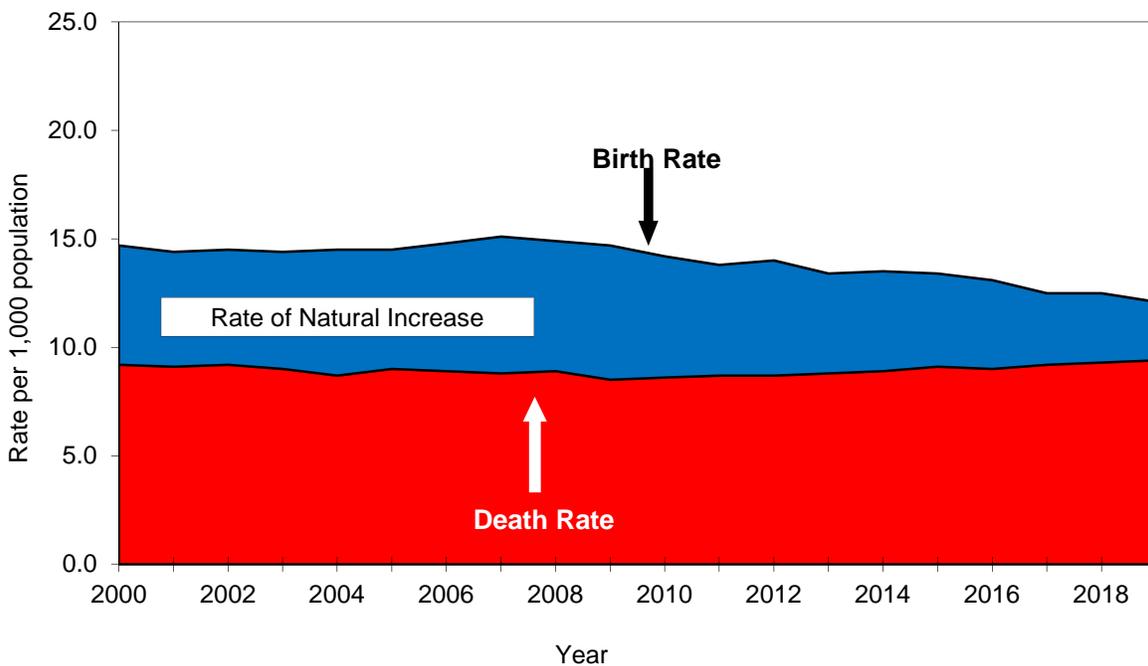


Figure B2

Median Age  
Kansas, 2000-2019

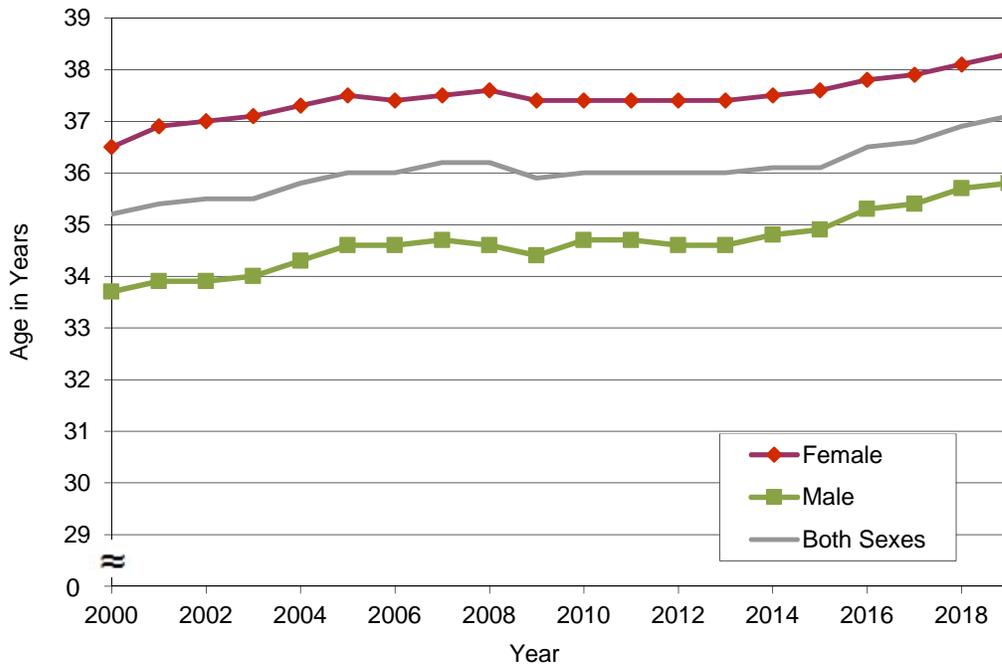
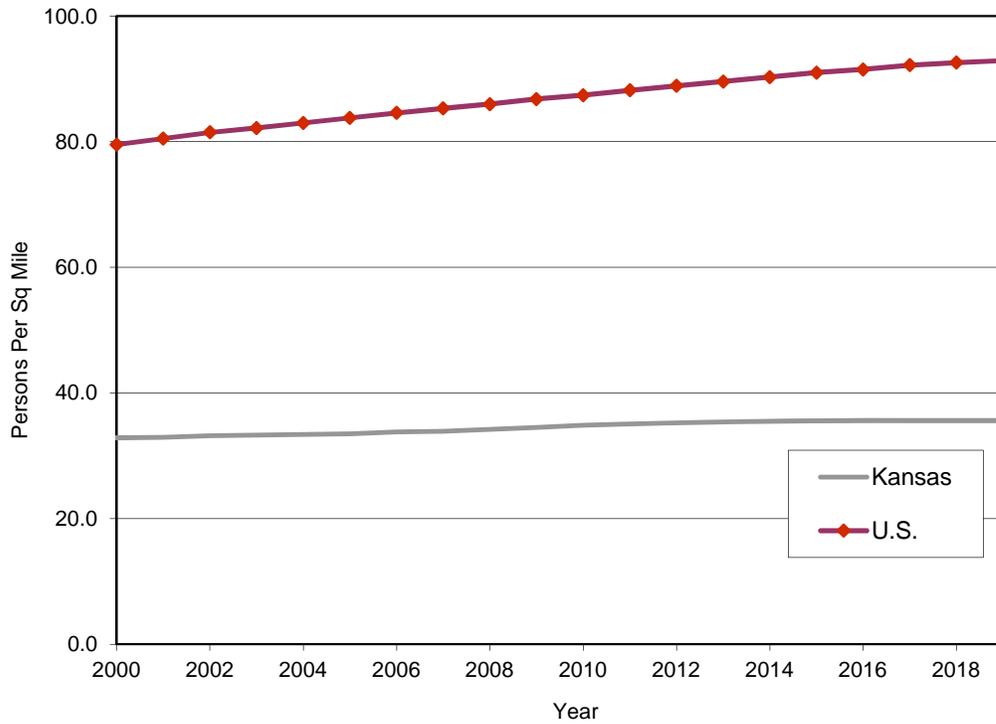


Figure B3

Population Density  
Kansas and the U.S., 2000-2019



Source: Kansas and U.S. Statistical Abstracts and U.S. Census Bureau

Figure B4

Table B2  
Population by Nine Selected Age-Groups and Sex\*  
Kansas, 2000-2019  
(In Thousands)

Age-Group	Year																				Percent Change 2000-2019
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	
<b>Both Sexes</b>																					
0-4	189	189	188	189	189	188	194	196	203	205	205	204	203	200	201	197	194	193	189	185	-2.1
5-14	400	401	386	385	376	367	380	379	380	383	401	401	403	405	404	402	401	400	398	396	-1.0
15-24	400	401	414	417	419	416	415	411	411	424	408	412	415	419	421	424	417	416	413	413	3.3
25-34	349	350	352	352	359	364	355	361	368	369	378	383	387	387	388	387	385	384	383	383	9.7
35-44	420	421	404	393	388	382	375	367	360	349	347	343	343	344	345	346	347	352	356	361	-14.0
45-54	354	355	378	384	392	399	403	406	408	404	406	399	389	376	369	361	354	346	336	328	-7.3
55-64	220	221	239	249	260	271	284	296	306	317	331	346	351	357	362	367	372	374	373	372	69.1
65-74	176	176	171	170	170	170	171	174	180	183	190	195	207	217	226	235	245	255	262	272	54.5
75 and Over	180	181	184	184	184	187	186	186	187	184	186	187	187	189	190	191	192	195	199	203	12.8
Total †	2,688	2,695	2,716	2,724	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	8.4
Median Age	35.2	35.4	35.5	35.5	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	5.4
<b>Males</b>																					
0-4	97	97	97	98	98	98	99	100	103	105	105	104	104	103	103	101	99	98	97	95	-2.1
5-14	205	206	198	197	193	189	195	195	195	196	206	206	206	208	207	206	205	205	204	203	-1.0
15-24	207	207	214	216	216	215	215	213	214	221	211	213	216	219	220	223	217	217	215	215	3.9
25-34	179	179	181	182	185	188	183	186	190	189	192	195	198	199	199	199	197	197	197	198	10.6
35-44	210	211	202	197	195	192	188	185	182	177	175	173	173	174	174	176	176	178	180	183	-12.9
45-54	178	178	189	192	196	199	201	202	203	200	201	198	193	187	183	180	177	173	168	164	-7.9
55-64	107	107	116	122	128	134	140	146	151	156	164	171	173	175	178	180	182	183	182	181	69.2
65-74	80	80	78	78	78	78	79	80	84	85	89	92	98	103	107	112	117	122	126	130	62.5
75 and Over	66	66	68	69	70	72	70	70	71	70	73	74	74	75	76	77	78	79	82	84	27.3
Total†	1,328	1,332	1,344	1,350	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	9.3
Median Age	33.7	33.9	33.9	34.0	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	6.2
<b>Females</b>																					
0-4	92	92	91	91	91	90	95	96	99	101	101	100	99	98	98	96	95	95	93	91	-1.1
5-14	194	195	188	187	183	179	185	185	185	187	196	196	197	198	197	196	196	196	195	194	0.0
15-24	193	194	200	201	202	201	200	198	197	203	197	197	199	200	201	202	200	199	199	198	2.6
25-34	170	171	171	171	173	176	172	176	178	180	185	191	189	189	189	188	188	186	186	185	8.8
35-44	210	211	202	196	193	190	187	183	179	171	172	170	170	170	171	171	173	176	178	178	-15.2
45-54	176	177	188	192	196	200	202	204	205	204	205	201	196	190	185	181	177	173	168	164	-6.8
55-64	113	113	122	127	133	138	144	150	155	160	168	175	178	181	185	188	190	191	191	190	68.1
65-74	96	96	93	92	92	92	92	94	96	98	101	103	109	114	118	123	128	133	137	142	47.9
75 and Over	115	115	116	115	114	115	116	116	116	115	113	113	113	113	114	114	114	115	118	120	4.3
Total†	1,360	1,363	1,372	1,373	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	7.5
Median Age	36.5	36.9	37.0	37.1	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	4.9

\* U.S. Census Bureau estimates for July 1, 2002-2009, and 2011-2019.

U.S. Census Bureau counts for 2000 and 2010 are for April 1.

KDHE estimates for 2001 based on 2000 Census.

† Estimates may not add to totals due to rounding. See Technical Notes.

Table B3  
Population by 11 Selected Age-Groups, by Population Group and Sex\*  
Kansas, 2019

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	2,913,314	1,085,558	1,111,305	86,754	80,571	11,515	11,756	45,782	47,588	37,932	38,480	184,156	171,917
<1	35,325	11,798	11,198	1,128	1,097	153	149	553	523	1,123	1,088	3,335	3,180
1-4	150,006	50,973	48,684	4,924	4,684	515	480	2,238	1,993	3,865	3,860	14,149	13,641
5-14	396,266	133,957	127,970	12,339	12,170	1,427	1,360	6,020	5,243	10,543	10,207	38,389	36,641
15-24	412,813	145,503	135,069	14,676	12,117	2,162	1,909	8,198	8,208	8,767	8,447	35,329	32,428
25-34	382,922	137,359	131,980	15,090	12,155	1,848	1,859	9,894	8,816	4,969	5,164	28,501	25,287
35-44	361,029	134,567	133,122	11,509	9,999	1,525	1,427	6,548	7,823	3,035	3,290	25,393	22,791
45-54	327,961	126,926	127,906	9,727	8,626	1,392	1,542	5,371	6,257	2,071	2,278	18,590	17,275
55-64	371,505	152,951	161,444	9,624	9,659	1,367	1,612	3,588	4,178	1,900	2,121	11,972	11,089
65-74	272,236	115,452	125,286	5,154	5,932	772	950	2,148	2,846	1,054	1,185	5,613	5,844
75-84	137,573	54,633	69,409	1,971	2,909	294	401	970	1,224	448	600	2,190	2,524
85+	65,678	21,439	39,237	612	1,223	60	67	254	477	157	240	695	1,217

\*U.S. Census Bureau estimates for 2019.

Percent Change in Age-Group Population  
Both Sexes, Kansas, 2000-2019

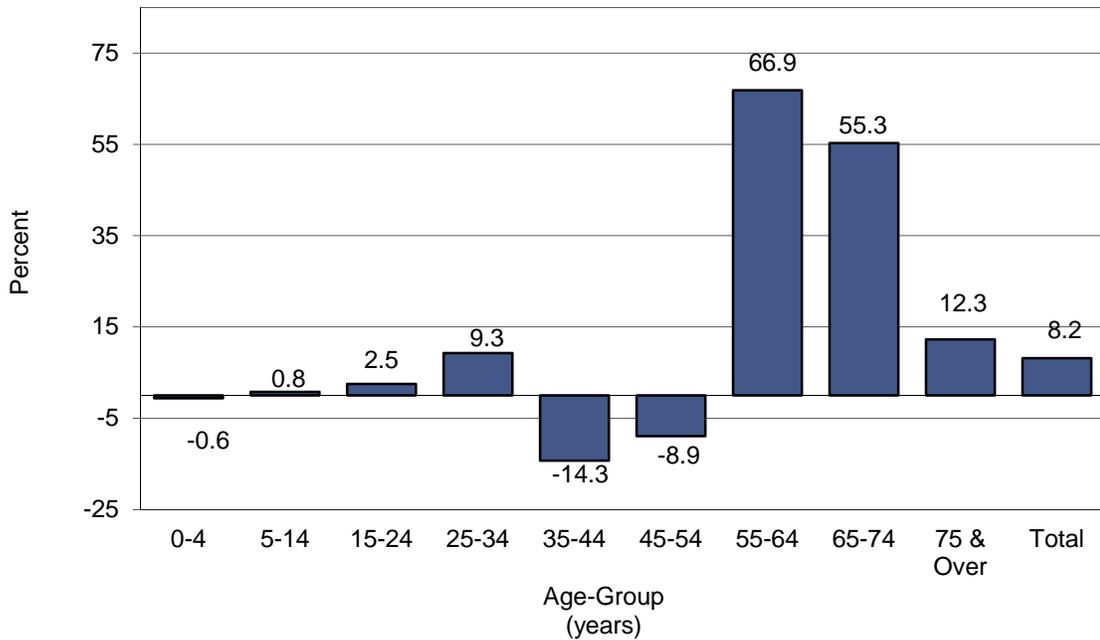


Figure B5

Table B4  
Population by County and Peer Group\*  
Kansas, 2015-2019

County of Residence	Year					Percent Change 2015-2019
	2015	2016	2017	2018	2019	
Kansas	2,911,641	2,907,289	2,913,123	2,911,505	2,913,314	0.1
Allen	12,717	12,714	12,519	12,444	12,369	-2.7
Anderson	7,808	7,827	7,833	7,878	7,858	0.6
Atchison	16,398	16,380	16,332	16,193	16,073	-2.0
Barber	4,823	4,688	4,586	4,472	4,427	-8.2
Barton	27,103	26,775	26,476	26,111	25,779	-4.9
Bourbon	14,712	14,617	14,754	14,653	14,534	-1.2
Brown	9,776	9,684	9,641	9,598	9,564	-2.2
Butler	66,741	67,025	66,878	66,765	66,911	0.3
Chase	2,679	2,669	2,683	2,629	2,648	-1.2
Chautauqua	3,402	3,374	3,363	3,309	3,250	-4.5
Cherokee	20,533	20,246	20,115	20,015	19,939	-2.9
Cheyenne	2,679	2,661	2,683	2,660	2,657	-0.8
Clark	2,096	2,072	2,004	2,005	1,994	-4.9
Clay	8,347	8,143	7,958	7,997	8,002	-4.1
Cloud	9,219	9,150	8,991	8,729	8,786	-4.7
Coffey	8,384	8,433	8,224	8,233	8,179	-2.4
Comanche	1,843	1,862	1,790	1,748	1,700	-7.8
Cowley	35,788	35,753	35,361	35,218	34,908	-2.5
Crawford	39,217	39,164	39,034	39,019	38,818	-1.0
Decatur	2,932	2,832	2,885	2,871	2,827	-3.6
Dickinson	19,303	19,064	18,902	18,717	18,466	-4.3
Doniphan	7,797	7,664	7,727	7,682	7,600	-2.5
Douglas	118,053	119,440	120,793	121,436	122,259	3.6
Edwards	2,968	2,938	2,893	2,849	2,798	-5.7
Elk	2,605	2,547	2,498	2,508	2,530	-2.9
Ellis	29,029	28,893	28,689	28,710	28,553	-1.6
Ellsworth	6,343	6,328	6,330	6,196	6,102	-3.8
Finney	37,118	36,722	37,084	36,611	36,467	-1.8
Ford	34,536	33,971	34,381	33,888	33,619	-2.7
Franklin	25,609	25,560	25,733	25,631	25,544	-0.3
Geary	37,030	35,586	33,855	32,594	31,670	-14.5
Gove	2,640	2,589	2,631	2,612	2,636	-0.2
Graham	2,591	2,564	2,495	2,492	2,482	-4.2
Grant	7,733	7,646	7,526	7,336	7,150	-7.5
Gray	6,133	6,034	5,958	6,033	5,988	-2.4
Greeley	1,330	1,296	1,249	1,227	1,232	-7.4
Greenwood	6,244	6,151	6,123	6,055	5,982	-4.2
Hamilton	2,474	2,536	2,640	2,607	2,539	2.6
Harper	5,817	5,685	5,590	5,506	5,436	-6.5
Harvey	35,073	34,913	34,544	34,210	34,429	-1.8
Haskell	4,064	4,006	4,053	3,997	3,968	-2.4
Hodgeman	1,893	1,870	1,842	1,818	1,794	-5.2
Jackson	13,338	13,291	13,318	13,280	13,171	-1.3
Jefferson	18,930	18,897	18,998	18,975	19,043	0.6
Jewell	2,970	2,901	2,850	2,841	2,879	-3.1
Johnson	580,159	584,451	591,178	597,555	602,401	3.8
Kearny	3,956	3,917	3,960	3,943	3,838	-3.0
Kingman	7,687	7,467	7,360	7,310	7,152	-7.0
Kiowa	2,564	2,483	2,485	2,516	2,475	-3.5
Labette	20,803	20,444	20,145	19,964	19,618	-5.7
Lane	1,670	1,636	1,559	1,560	1,535	-8.1
Leavenworth	79,315	80,204	81,095	81,352	81,758	3.1
Lincoln	3,105	3,073	3,043	3,023	2,962	-4.6
Linn	9,536	9,558	9,726	9,750	9,703	1.8
Logan	2,825	2,831	2,821	2,844	2,794	-1.1

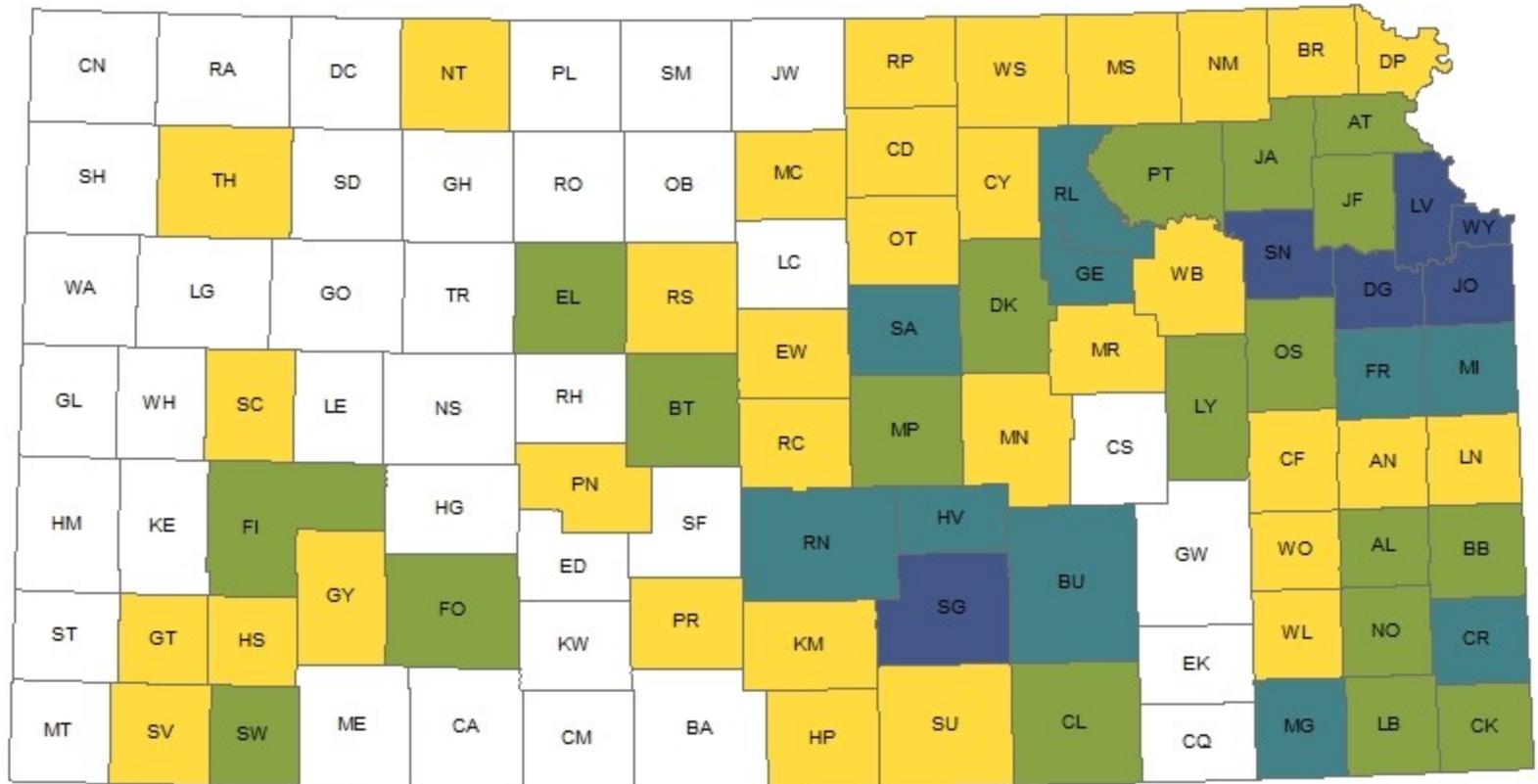
Table B4  
Population by County and Peer Group\*  
Kansas, 2015-2019

County of Residence	Year					Percent Change 2015-2019
	2015	2016	2017	2018	2019	
Lyon	33,339	33,510	33,392	33,406	33,195	-0.4
McPherson	28,941	28,804	28,708	28,537	28,542	-1.4
Marion	12,103	12,112	11,986	11,950	11,884	-1.8
Marshall	9,936	9,836	9,745	9,722	9,707	-2.3
Meade	4,330	4,216	4,303	4,146	4,033	-6.9
Miami	32,553	32,964	33,461	33,680	34,237	5.2
Mitchell	6,282	6,243	6,128	6,150	5,979	-4.8
Montgomery	33,314	32,746	32,556	32,120	31,829	-4.5
Morris	5,645	5,573	5,455	5,521	5,620	-0.4
Morton	3,007	2,848	2,740	2,667	2,587	-14.0
Nemaha	10,227	10,241	10,118	10,155	10,231	0.0
Neosho	16,346	16,146	16,015	15,951	16,007	-2.1
Ness	3,005	2,962	2,869	2,840	2,750	-8.5
Norton	5,550	5,493	5,441	5,430	5,361	-3.4
Osage	15,847	15,843	15,772	15,941	15,949	0.6
Osborne	3,683	3,642	3,610	3,475	3,421	-7.1
Ottawa	5,975	5,920	5,863	5,802	5,704	-4.5
Pawnee	6,838	6,743	6,680	6,562	6,414	-6.2
Phillips	5,428	5,428	5,370	5,317	5,234	-3.6
Pottawatomie	23,298	23,661	23,908	24,277	24,383	4.7
Pratt	9,691	9,584	9,547	9,378	9,164	-5.4
Rawlins	2,506	2,549	2,497	2,508	2,530	1.0
Reno	63,718	63,220	62,510	62,342	61,998	-2.7
Republic	4,725	4,699	4,691	4,664	4,636	-1.9
Rice	9,977	9,831	9,660	9,531	9,537	-4.4
Riley	75,247	73,343	74,172	73,703	74,232	-1.3
Rooks	5,174	5,076	5,043	5,013	4,920	-4.9
Rush	3,130	3,058	3,103	3,093	3,036	-3.0
Russell	7,039	6,988	6,915	6,907	6,856	-2.6
Saline	55,691	55,142	54,734	54,401	54,224	-2.6
Scott	4,964	5,032	4,961	4,897	4,823	-2.8
Sedgwick	511,574	511,995	513,687	513,607	516,042	0.9
Seward	23,152	22,709	22,159	21,780	21,428	-7.4
Shawnee	178,725	178,146	178,187	177,499	176,875	-1.0
Sheridan	2,512	2,509	2,527	2,533	2,521	0.4
Sherman	5,983	5,965	5,930	5,899	5,917	-1.1
Smith	3,704	3,632	3,668	3,603	3,583	-3.3
Stafford	4,236	4,208	4,207	4,178	4,156	-1.9
Stanton	2,072	2,062	2,060	1,987	2,006	-3.2
Stevens	5,806	5,584	5,612	5,559	5,485	-5.5
Sumner	23,535	23,272	23,159	22,996	22,836	-3.0
Thomas	7,904	7,892	7,788	7,711	7,777	-1.6
Trego	2,927	2,872	2,884	2,793	2,803	-4.2
Wabaunsee	6,951	6,891	6,874	6,899	6,931	-0.3
Wallace	1,518	1,497	1,524	1,503	1,518	0.0
Washington	5,598	5,546	5,485	5,420	5,406	-3.4
Wichita	2,157	2,112	2,125	2,105	2,119	-1.8
Wilson	8,856	8,723	8,675	8,665	8,525	-3.7
Woodson	3,115	3,165	3,147	3,183	3,138	0.7
Wyandotte	163,369	163,831	165,288	165,324	165,429	1.3
Peer Group						
Frontier	110,233	108,698	108,173	106,932	105,879	-3.9
Rural	233,457	231,485	229,331	227,986	226,300	-3.1
Densely - Settled Rural	472,563	469,376	467,914	465,349	462,479	-2.1
Semi-Urban	464,193	459,663	457,477	454,465	453,892	-2.2
Urban	1,631,195	1,638,067	1,650,228	1,656,773	1,664,764	2.1

Source: U.S. Bureau of the Census

\* See Technical Notes for Peer Group definition.

# Population Density By County of Residence Kansas, 2019



State Rate: 35.6

## Legend



Figure B6

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Table B5  
Population by County of Residence and Peer Group<sup>†</sup>, by Population Group\*  
Kansas, 2019

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	2,913,314	2,196,863	167,325	23,271	93,370	76,412	356,073
Allen	12,369	11,071	255	108	148	318	469
Anderson	7,858	7,398	46	50	54	147	163
Atchison	16,073	14,176	748	108	114	415	512
Barber	4,427	4,041	39	49	21	71	206
Barton	25,779	20,879	358	130	77	395	3,940
Bourbon	14,534	13,031	438	111	169	375	410
Brown	9,564	7,859	126	763	57	254	505
Butler	66,911	58,998	1,370	557	976	1,567	3,443
Chase	2,648	2,418	33	17	7	46	127
Chautauqua	3,250	2,784	30	150	7	148	131
Cherokee	19,939	17,440	165	831	180	789	534
Cheyenne	2,657	2,396	9	9	34	20	189
Clark	1,994	1,667	8	20	31	48	220
Clay	8,002	7,472	71	40	49	150	220
Cloud	8,786	8,123	79	44	99	144	297
Coffey	8,179	7,605	71	72	80	123	228
Comanche	1,700	1,512	6	7	7	33	135
Cowley	34,908	27,649	904	606	769	1,060	3,920
Crawford	38,818	33,393	870	392	832	957	2,374
Decatur	2,827	2,642	30	13	6	44	92
Dickinson	18,466	16,701	180	118	153	419	895
Doniphan	7,600	6,857	242	92	37	163	209
Douglas	122,259	95,541	5,355	2,665	6,160	4,591	7,947
Edwards	2,798	2,099	24	29	5	50	591
Elk	2,530	2,263	3	41	14	90	119
Ellis	28,553	25,452	342	93	509	462	1,695
Ellsworth	6,102	5,222	328	45	37	85	385
Finney	36,467	14,611	1,347	163	1,439	394	18,513
Ford	33,619	13,068	768	141	484	320	18,838
Franklin	25,544	23,227	348	173	135	578	1,083
Geary	31,670	17,937	5,317	293	1,369	1,606	5,148
Gove	2,636	2,485	11	3	24	31	82
Graham	2,482	2,178	91	13	39	64	97
Grant	7,150	3,501	34	30	37	81	3,467
Gray	5,988	4,877	38	23	30	58	962
Greeley	1,232	968	3	6	5	9	241
Greenwood	5,982	5,454	36	84	24	136	248
Hamilton	2,539	1,518	14	17	9	42	939
Harper	5,436	4,874	32	66	23	105	336
Harvey	34,429	28,375	552	205	375	744	4,178
Haskell	3,968	2,616	11	22	28	47	1,244
Hodgeman	1,794	1,536	24	11	73	27	123
Jackson	13,171	10,985	94	959	68	427	638
Jefferson	19,043	17,767	135	169	74	332	566
Jewell	2,879	2,733	10	16	13	33	74
Johnson	602,401	478,067	28,596	1,676	32,177	14,162	47,723
Kearny	3,838	2,416	28	46	18	78	1,252
Kingman	7,152	6,631	28	62	44	115	272
Kiowa	2,475	2,193	30	17	39	44	152
Labette	19,618	16,681	808	374	99	742	914
Lane	1,535	1,329	15	11	6	37	137
Leavenworth	81,758	64,369	7,140	569	1,351	2,389	5,940
Lincoln	2,962	2,767	16	22	12	35	110
Linn	9,703	9,026	85	71	41	200	280
Logan	2,794	2,506	15	13	25	42	193

Table B5  
Population by County of Residence and Peer Group<sup>†</sup>, by Population Group\*  
Kansas, 2019

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	33,195	23,404	694	216	845	805	7,231
McPherson	28,542	26,043	344	125	278	480	1,272
Marion	11,884	10,935	115	79	60	205	490
Marshall	9,707	9,152	55	49	43	147	261
Meade	4,033	3,115	38	34	35	48	763
Miami	34,237	31,572	444	230	204	614	1,173
Mitchell	5,979	5,641	16	26	62	75	159
Montgomery	31,829	25,048	1,600	981	343	1,570	2,287
Morris	5,620	5,132	29	24	42	97	296
Morton	2,587	1,851	32	36	38	46	584
Nemaha	10,231	9,703	69	50	42	131	236
Neosho	16,007	14,262	191	149	107	361	937
Ness	2,750	2,398	20	13	3	29	287
Norton	5,361	4,736	182	17	39	92	295
Osage	15,949	14,842	102	95	73	286	551
Osborne	3,421	3,217	17	24	41	42	80
Ottawa	5,704	5,359	67	32	22	69	155
Pawnee	6,414	5,399	357	47	34	108	469
Phillips	5,234	4,906	21	25	51	59	172
Pottawatomie	24,383	21,943	261	151	259	520	1,249
Pratt	9,164	8,050	141	45	90	169	669
Rawlins	2,530	2,244	20	9	22	41	194
Reno	61,998	52,016	1,902	375	366	1,301	6,038
Republic	4,636	4,388	29	14	29	63	113
Rice	9,537	7,887	137	67	124	216	1,106
Riley	74,232	56,723	4,807	344	3,746	2,340	6,272
Rooks	4,920	4,631	39	17	44	69	120
Rush	3,036	2,812	15	24	12	46	127
Russell	6,856	6,273	88	63	41	121	270
Saline	54,224	43,172	1,745	260	1,222	1,413	6,412
Scott	4,823	3,772	31	34	57	45	884
Sedgwick	516,042	348,794	45,184	4,168	23,359	16,897	77,640
Seward	21,428	6,196	772	66	617	246	13,531
Shawnee	176,875	130,007	13,700	1,583	2,809	6,105	22,671
Sheridan	2,521	2,324	15	6	9	23	144
Sherman	5,917	4,968	51	20	33	109	736
Smith	3,583	3,376	10	14	15	84	84
Stafford	4,156	3,450	19	34	17	81	555
Stanton	2,006	1,145	13	21	4	61	762
Stevens	5,485	3,250	29	52	33	69	2,052
Sumner	22,836	20,373	267	237	142	536	1,281
Thomas	7,777	6,910	80	34	68	103	582
Trego	2,803	2,644	19	10	16	40	74
Wabaunsee	6,931	6,335	44	54	20	161	317
Wallace	1,518	1,339	8	8	1	24	138
Washington	5,406	5,046	29	10	43	62	216
Wichita	2,119	1,407	25	6	8	23	650
Wilson	8,525	7,801	41	102	49	220	312
Woodson	3,138	2,893	18	39	3	81	104
Wyandotte	165,429	66,595	35,637	737	9,057	4,037	49,366
Peer Group <sup>†</sup>							
Frontier	105,879	90,826	816	870	717	1,894	10,756
Rural	226,300	198,772	2,527	2,151	1,531	3,802	17,517
Densely -Settled Rural	462,479	353,431	9,415	5,042	6,641	9,845	78,105
Semi-Urban	453,892	370,461	18,955	3,810	9,568	12,690	38,408
Urban	1,664,764	1,183,373	135,612	11,398	74,913	48,181	211,287

\* U.S. Census Bureau 2019 population estimates.

† See Technical Notes for Peer Group definition.

Table B6  
City Population\*  
Kansas, 2015-2019

City of Residence	Year					Percent Change 2015-2019
	2015	2016	2017	2018	2019	
Abilene	6,558	6,469	6,380	6,300	6,201	-5.4
Andover	12,745	12,980	13,111	13,278	13,405	5.2
Arkansas City	12,136	12,063	11,866	11,793	11,669	-3.8
Atchison	10,712	10,679	10,636	10,560	10,476	-2.2
Augusta	9,299	9,321	9,389	9,342	9,345	0.5
Baldwin City	4,669	4,677	4,644	4,691	4,700	0.7
Basehor	5,402	5,651	6,015	6,194	6,496	20.3
Baxter Springs	4,028	3,963	3,958	3,944	3,948	-2.0
Bel Aire	7,435	7,661	7,914	8,073	8,300	11.6
Beloit	3,790	3,769	3,710	3,726	3,625	-4.4
Bonner Springs	7,606	7,665	7,784	7,804	7,906	3.9
Burlington	2,615	2,610	2,553	2,558	2,543	-2.8
Chanute	9,252	9,139	9,054	9,018	9,042	-2.3
Clay Center	4,173	4,069	3,980	3,989	3,983	-4.6
Coffeyville	9,669	9,539	9,481	9,366	9,275	-4.1
Colby	5,417	5,419	5,361	5,317	5,370	-0.9
Columbus	3,146	3,104	3,096	3,070	3,052	-3.0
Concordia	5,218	5,179	5,099	4,956	4,987	-4.4
Derby	23,509	23,633	23,673	24,721	24,943	6.1
De Soto	6,074	6,071	6,107	6,443	6,512	7.2
Dodge City	27,912	27,453	27,720	27,329	27,104	-2.9
Edwardsville	4,390	4,390	4,498	4,494	4,495	2.4
El Dorado	12,931	13,141	12,993	12,935	12,954	0.2
Ellsworth	3,057	3,047	3,054	2,999	2,961	-3.1
Emporia	24,649	24,816	24,724	24,765	24,598	-0.2
Eudora	6,378	6,379	6,329	6,384	6,411	0.5
Eureka	2,450	2,410	2,401	2,373	2,346	-4.2
Fairway	3,970	3,972	3,957	3,966	3,960	-0.3
Fort Scott	7,838	7,773	7,813	7,765	7,697	-1.8
Frontenac	3,422	3,414	3,413	3,410	3,388	-1.0
Galena	2,930	2,886	2,900	2,875	2,858	-2.5
Garden City	27,005	26,747	26,895	26,546	26,408	-2.2
Gardner	20,868	21,110	21,583	21,871	22,031	5.6
Garnett	3,258	3,264	3,253	3,262	3,235	-0.7
Girard	2,760	2,748	2,706	2,702	2,671	-3.2
Goddard	4,719	4,710	4,746	4,724	4,796	1.6
Goodland	4,457	4,441	4,411	4,386	4,406	-1.1
Great Bend	15,717	15,535	15,344	15,170	14,974	-4.7
Hays	21,092	21,027	20,845	20,852	20,744	-1.6
Haysville	11,212	11,245	11,278	11,264	11,338	1.1
Herington	2,396	2,362	2,332	2,304	2,268	-5.3
Hesston	3,813	3,803	3,782	3,734	3,742	-1.9
Hiawatha	3,095	3,065	3,147	3,134	3,118	0.7
Hillsboro	2,869	2,887	2,850	2,834	2,816	-1.8
Hoisington	2,623	2,586	2,559	2,510	2,470	-5.8
Holton	3,263	3,285	3,266	3,248	3,208	-1.7
Hugoton	3,964	3,835	3,831	3,794	3,745	-5.5
Hutchinson	41,569	41,310	40,772	40,623	40,383	-2.9
Independence	8,958	8,799	8,729	8,598	8,505	-5.1
Iola	5,470	5,454	5,354	5,312	5,266	-3.7
Junction City	24,621	24,180	22,988	22,120	21,482	-12.7
Kansas City	151,306	151,709	152,938	152,958	152,960	1.1

Table B6  
City Population\*  
Kansas, 2015-2019

City of Residence	Year					Percent Change 2015-2019
	2015	2016	2017	2018	2019	
Kingman	3,086	3,000	2,929	2,906	2,842	-7.9
Lansing	11,767	11,849	11,947	11,964	11,949	1.5
Larned	3,967	3,900	3,855	3,772	3,671	-7.5
Lawrence	93,917	95,358	96,892	97,286	98,193	4.6
Leavenworth	35,980	36,154	36,210	36,062	35,957	-0.1
Leawood	34,579	34,565	34,659	34,689	34,727	0.4
Lenexa	52,490	52,903	53,553	55,294	55,625	6.0
Liberal	20,746	20,350	19,826	19,495	19,174	-7.6
Lindsborg	3,383	3,338	3,268	3,288	3,290	-2.7
Louisburg	4,276	4,382	4,487	4,508	4,562	6.7
Lyons	3,725	3,671	3,565	3,511	3,504	-5.9
McPherson	13,144	13,164	13,201	13,077	13,061	-0.6
Maize	4,362	4,438	4,557	4,662	4,934	13.1
Manhattan	56,308	54,983	54,832	54,959	54,604	-3.0
Marysville	3,323	3,294	3,271	3,268	3,269	-1.6
Merriam	11,288	11,245	11,212	11,178	11,081	-1.8
Mission	9,491	9,443	9,409	9,373	9,911	4.4
Mission Hills	3,601	3,600	3,573	3,576	3,547	-1.5
Mulvane	6,314	6,316	6,359	6,416	6,489	2.8
Newton	19,216	19,105	18,869	18,746	18,861	-1.8
Norton	2,841	2,812	2,775	2,768	2,722	-4.2
Olathe	134,305	135,473	137,472	139,605	140,545	4.6
Osage City	2,844	2,837	2,796	2,821	2,809	-1.2
Osawatomie	4,297	4,308	4,298	4,266	4,284	-0.3
Ottawa	12,387	12,356	12,342	12,267	12,254	-1.1
Overland Park	186,515	188,966	191,278	192,536	195,494	4.8
Paola	5,527	5,568	5,580	5,670	5,719	3.5
Park City	7,618	7,632	7,729	7,730	7,764	1.9
Parsons	10,090	9,906	9,761	9,665	9,477	-6.1
Phillipsburg	2,524	2,543	2,512	2,486	2,445	-3.1
Pittsburg	20,409	20,366	20,216	20,178	20,050	-1.8
Prairie Village	21,877	21,805	22,368	22,389	22,295	1.9
Pratt	6,849	6,771	6,748	6,630	6,496	-5.2
Roeland Park	6,827	6,786	6,772	6,758	6,688	-2.0
Rose Hill	3,995	4,015	3,980	3,965	3,968	-0.7
Russell	4,534	4,500	4,463	4,463	4,423	-2.4
Sabetha	2,585	2,584	2,569	2,568	2,583	-0.1
St Marys	2,662	2,664	2,645	2,636	2,658	-0.2
Salina	47,813	47,336	46,994	46,716	46,550	-2.6
Scott City	3,838	3,890	3,851	3,803	3,748	-2.3
Shawnee	65,046	65,194	65,513	65,845	65,807	1.2
Spring Hill	5,981	6,166	6,618	6,967	7,326	22.5
Tonganoxie	5,248	5,326	5,444	5,524	5,583	6.4
Topeka	127,265	126,808	126,587	125,904	125,310	-1.5
Ulysses	6,097	6,035	5,912	5,756	5,604	-8.1
Valley Center	7,222	7,343	7,300	7,313	7,325	1.4
Warnego	4,627	4,715	4,703	4,762	4,732	2.3
Wellington	7,987	7,889	7,822	7,748	7,662	-4.1
Wichita	389,965	389,902	390,591	389,255	389,938	0.0
Winfield	12,204	12,284	12,104	12,057	11,943	-2.1

\* Includes cities with populations of 2,500 or more as reported by the 2010 U.S. Census.  
Source: U.S. Bureau of the Census.

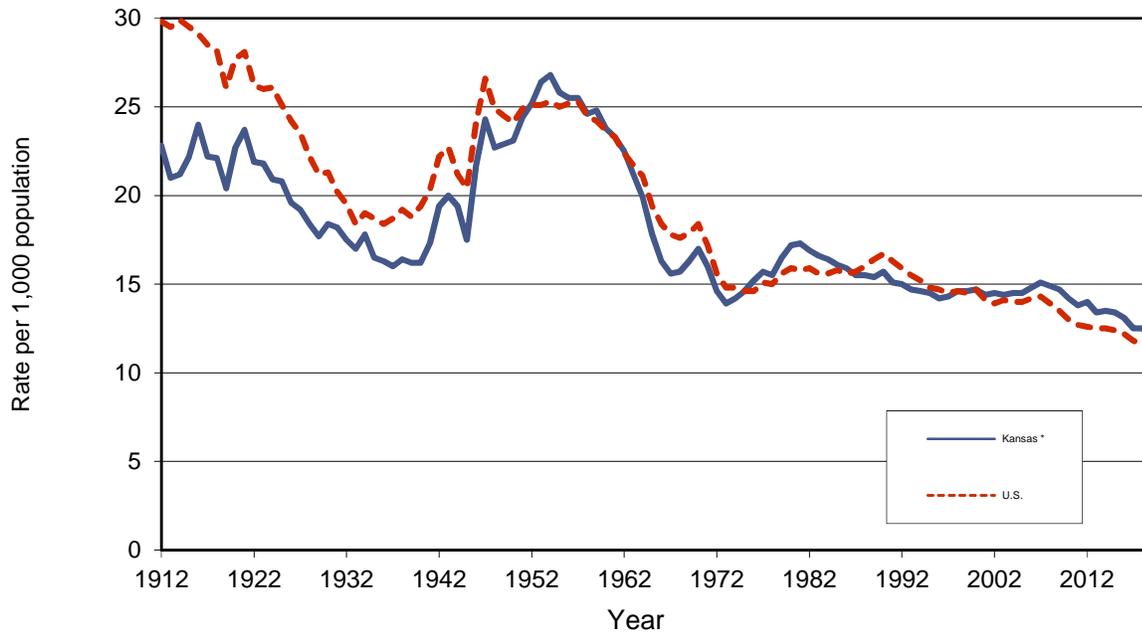
# C. LIVE BIRTHS AND FERTILITY

Table C1  
Birth Rates\*  
Kansas<sup>†</sup> and the U.S., 1912-2019

Year	Birth Rates		Year	Birth Rates		Year	Birth Rates	
	Kansas	U.S.		Kansas	U.S.		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	
1914	21.2	29.9	1967	15.6	17.8			
1915	22.2	29.5	1968	15.7	17.6			
1916	24.0	29.1	1969	16.3	17.9			
1917	22.2	28.5	1970	17.0	18.4			
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  
<sup>†</sup>1912-1933 Occurrence data  
1934-2019 Residence data

### Birth Rates Kansas and the U.S., 1912-2019



\*1912-1934 Occurrence data  
1935-2019 Residence data

Figure C1

### Fertility Rates\* Kansas and the U.S., 2000-2019

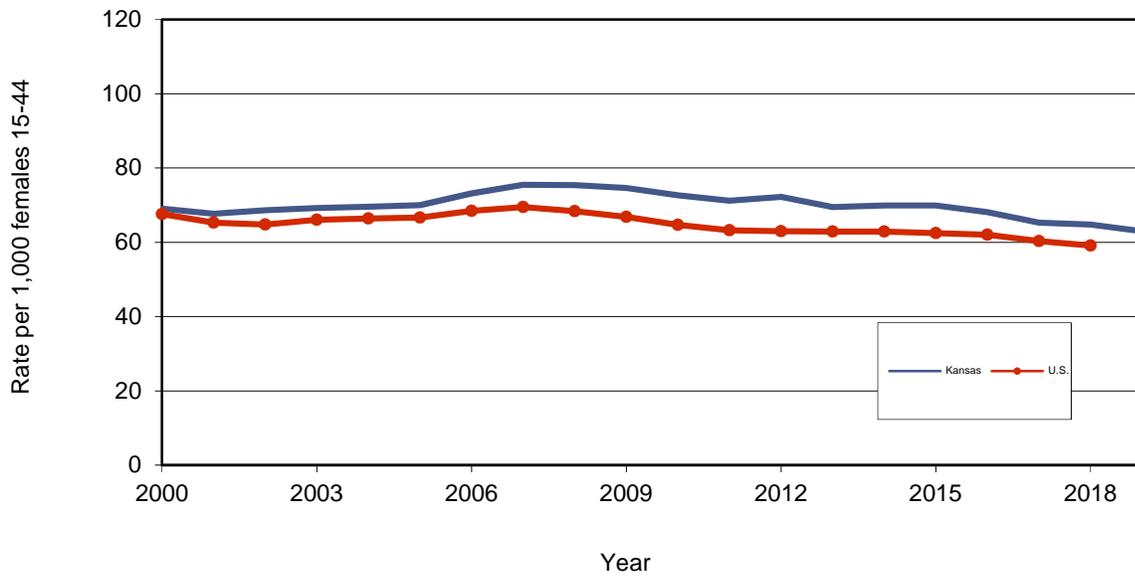


Figure C2

Age-Specific Fertility Rates\* by Year by Age-Group of Mother  
 Kansas, 2015-2019

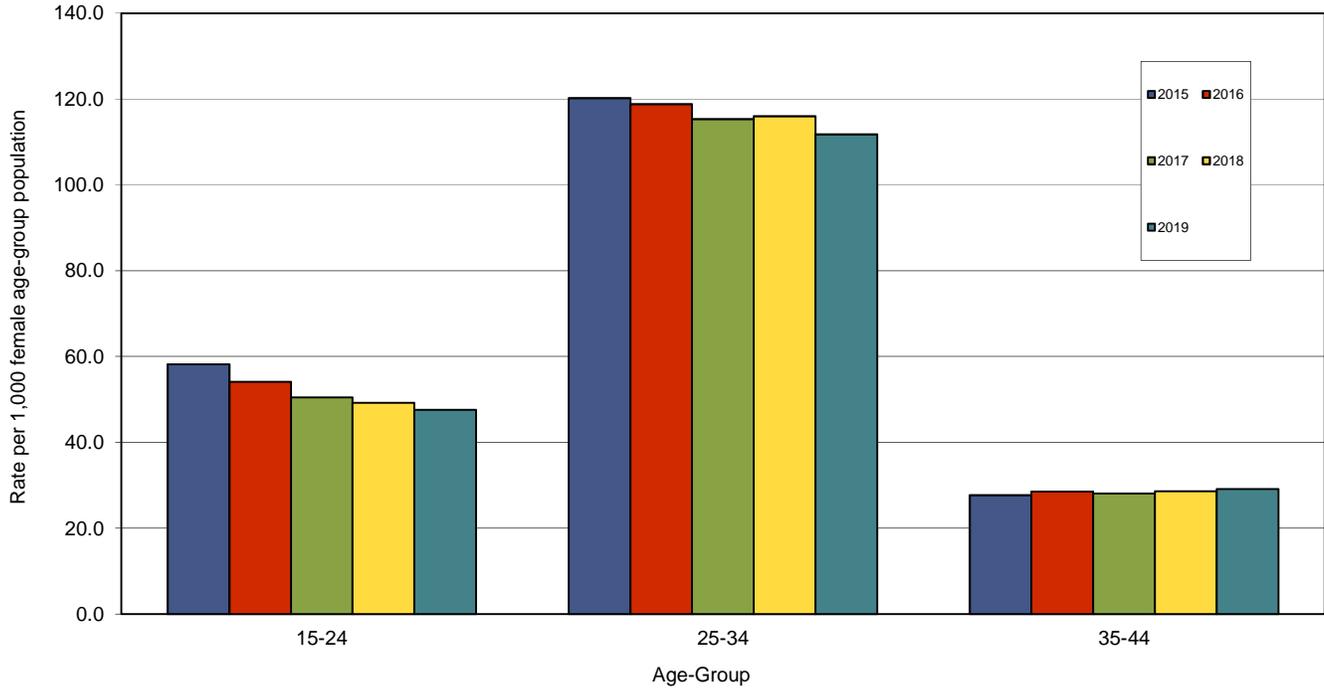


Figure C3

Table C2  
 Age-Specific Fertility Rates\*  
 by Age-Group of Mother  
 Kansas, 2000-2019

Age-Group	Year																				Percent Change 2000-2019
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	
Total	69.1	67.7	68.6	69.2	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	-8.8
15-24	82.5	79.1	77.2	75.2	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	-42.3
25-34	113.3	111.9	114.2	115.5	115.2	112.5	119.8	121.7	121.7	120.4	115.4	115.0	117.5	115.8	119.5	120.2	118.8	115.3	116.0	111.8	-1.3
35-44	20.8	20.2	21.1	22.3	22.8	23.2	24.1	24.9	24.9	24.7	25.2	24.6	26.4	26.1	26.6	27.7	28.5	28.1	28.6	29.1	39.9

\*Rate per 1,000 female age-group population

Table C3  
Live Births by Age-Group of Mother by Sex of Infant  
Kansas, 2019

Age-Group of Mother	Total		Sex *	
	Number	Percent	Male	Female
Total*	35,394	100	18,036	17,358
Under 15	18	0.1	7	11
15-17	423	1.2	213	210
18-19	1,435	4.1	726	709
20-24	7,574	21.4	3,801	3,773
25-29	11,019	31.1	5,621	5,398
30-34	9,693	27.4	4,940	4,753
35-39	4,386	12.4	2,324	2,062
40-44	799	2.3	388	411
45 & Over	46	0.1	16	30
n.s.	2	n/a	.	1

\* One infant of undetermined sex not included in total

Table C4  
Live Births by Age-Group of Father by Age-Group of Mother  
Kansas, 2019

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..	35,395	441	18	1,858	7,574	11,020	9,693	4,386	799	46	1
Under 18.....	157	107	4	145	8	0	0	0	0	0	0
10-14	2	2	0	2	0	0	0	0	0	0	0
15-19	728	211	4	545	169	9	1	0	0	0	0
20-24	4,678	56	0	672	3,261	640	83	19	2	1	0
25-29	8,622	8	0	133	2,313	5,149	878	126	22	1	0
30-34	9,647	2	0	30	560	3,291	4,986	715	63	2	0
35-39	5,731	1	0	7	158	782	2,510	2,108	158	8	0
40-44	1,977	0	0	5	46	195	534	873	315	8	1
45 & Over	800	0	0	1	25	87	192	295	177	23	0
n.s.	3,210	161	14	463	1,042	867	509	250	62	3	0

Table C5  
Live Births by Age-Group of Mother by Birth Weight in Grams  
Kansas, 2019

Age-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	35,395	59	179	254	1.4	518	1,679	7.6	6,219	13,699	9,761	2,635	354	37	1
10-14	18	0	1	0	5.6	0	1	11.1	4	11	1	0	0	0	0
15-19	1,858	4	18	15	2.0	30	124	10.3	407	787	388	77	6	2	0
20-24	7,574	14	38	43	1.3	102	397	7.8	1473	3147	1903	406	44	7	0
25-29	11,020	20	48	66	1.2	144	460	6.7	1856	4357	3126	814	118	11	0
30-34	9,693	15	51	80	1.5	135	400	7.0	1583	3591	2818	902	111	7	0
35-39	4,386	4	17	45	1.5	94	236	9.0	744	1523	1284	374	58	7	0
40-44	799	2	6	5	1.6	13	52	9.8	144	270	231	56	16	3	1
45 & Over	46	0	0	0	0.0	0	9	19.6	8	12	10	6	1	0	0
n.s.	1	0	0	0	n/a	0	0	n/a	0	1	0	0	0	0	0



Table C7  
 Live Births by Population Group of Mother  
 by Trimester Prenatal Care Began  
 Kansas, 2019

Population Group of Mother	Total	Trimester Care Began								n.s.
		1st		2nd		3rd		None		
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	
Total	35,395	28,281	80.9	5,193	14.8	1,172	3.4	324	0.9	425
White Non-Hispanic	24,400	20,522	84.8	2,968	12.3	558	2.3	157	0.6	195
Black Non-Hispanic	2,419	1,663	69.6	554	23.2	121	5.1	53	2.2	28
Native American Non-Hispanic	147	88	61.5	43	30.1	11	7.7	1	0.7	4
Asian/Pacific Islander Non-Hispanic	1,225	951	78.0	203	16.7	41	3.4	24	2.0	6
Other/Multi-Race Non-Hispanic	1,098	806	75.0	200	18.6	59	5.5	9	0.8	24
Hispanic	6,069	4,225	71.6	1,219	20.7	380	6.4	77	1.3	168
n.s.	37	26	70.3	6	16.2	2	5.4	3	8.1	0

Table C8  
Live Births by Population Group of Mother by Birth Weight in Grams  
Kansas, 2019

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	35,395	59	179	254	1.4	518	1,679	7.6	6,219	13,699	9,761	2,635	354	37	1
White Non-Hispanic	24,400	33	98	170	1.2	330	1,041	6.9	3,899	9,247	7,223	2,061	279	19	0
Black Non-Hispanic	2,419	10	42	32	3.5	64	212	14.9	605	947	421	79	7	0	0
Native American Non-Hispanic	147	0	1	2	2.0	4	6	8.8	28	45	46	13	2	0	0
Asian/Pacific Islander Non-Hispanic	1,225	5	6	6	1.4	18	57	7.5	275	552	254	48	4	0	0
Other/Multi-Race Non-Hispanic	1,098	1	3	9	1.2	22	65	9.1	233	442	241	67	12	3	0
Hispanic	6,069	10	29	35	1.2	78	296	7.4	1,170	2,453	1,568	365	50	14	1
n.s.	37	0	0	0	0.0	2	2	10.8	9	13	8	2	0	1	0

Table C9  
Live Births by Population Group of Mother by Final Route of Delivery  
Kansas, 2019

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	35,395	23,922	219	749	70.3	3,470	7,033	1	29.7	33.0	1
White Non-Hispanic	24,400	16,358	167	520	69.9	2,402	4,952	1	30.1	32.7	0
Black Non-Hispanic	2,419	1,608	6	26	67.8	261	518	0	32.2	33.5	0
Native American Non-Hispanic	147	100	1	1	69.4	13	32	0	30.6	28.9	0
Asian/Pacific Islander Non-Hispanic	1,225	786	12	48	69.1	173	206	0	30.9	45.6	0
Other/Multi-Race Non-Hispanic	1,098	752	8	27	71.7	93	217	0	28.3	30.0	1
Hispanic	6,069	4,293	25	125	73.2	524	1,102	0	26.8	32.2	0
n.s.	37	25	0	2	73.0	4	6	0	27.0	40.0	0

Table C10  
Live Births by County of Residence and Peer Group\*  
by Number and Rate<sup>†</sup>  
Kansas, 2015-2019

County of Residence	Year										5-Year Rate
	2015		2016		2017		2018		2019		
	Number	Rate									
Kansas	39,126	13.4	38,048	13.1	36,464	12.5	36,268	12.5	35,395	12.1	12.7
Allen	144	11.3	137	10.8	140	11.2	159	12.8	131	10.6	11.3
Anderson	84	10.8	111	14.2	104	13.3	105	13.3	88	11.2	12.5
Atchison	208	12.7	203	12.4	174	10.7	185	11.4	192	11.9	11.8
Barber	59	12.2	56	11.9	55	12.0	55	12.3	47	10.6	11.8
Barton	362	13.4	331	12.4	284	10.7	321	12.3	307	11.9	12.1
Bourbon	211	14.3	194	13.3	180	12.2	202	13.8	200	13.8	13.5
Brown	133	13.6	112	11.6	130	13.5	130	13.5	113	11.8	12.8
Butler	744	11.1	757	11.3	763	11.4	700	10.5	708	10.6	11.0
Chase	24	9.0	32	12.0	19	7.1	24	9.1	24	9.1	9.2
Chautauqua	42	12.3	28	8.3	30	8.9	35	10.6	34	10.5	10.1
Cherokee	252	12.3	217	10.7	212	10.5	232	11.6	222	11.1	11.3
Cheyenne	39	14.6	39	14.7	30	11.2	21	7.9	31	11.7	12.0
Clark	25	11.9	24	11.6	22	11.0	24	12.0	28	14.0	12.1
Clay	89	10.7	117	14.4	91	11.4	90	11.3	75	9.4	11.4
Cloud	127	13.8	91	9.9	109	12.1	104	11.9	110	12.5	12.1
Coffey	76	9.1	95	11.3	94	11.4	73	8.9	92	11.2	10.4
Comanche	21	11.4	13	7.0	18	10.1	14	8.0	15	8.8	9.1
Cowley	445	12.4	397	11.1	415	11.7	383	10.9	392	11.2	11.5
Crawford	477	12.2	480	12.3	460	11.8	451	11.6	437	11.3	11.8
Decatur	34	11.6	31	10.9	33	11.4	30	10.4	24	8.5	10.6
Dickinson	236	12.2	225	11.8	208	11.0	183	9.8	199	10.8	11.1
Doniphan	97	12.4	74	9.7	69	8.9	90	11.7	72	9.5	10.4
Douglas	1,327	11.2	1,177	9.9	1,134	9.4	1,114	9.2	1,088	8.9	9.7
Edwards	29	9.8	31	10.6	23	8.0	31	10.9	30	10.7	10.0
Elk	21	8.1	35	13.7	24	9.6	24	9.6	19	7.5	9.7
Ellis	364	12.5	357	12.4	299	10.4	314	10.9	283	9.9	11.2
Ellsworth	65	10.2	63	10.0	58	9.2	53	8.6	62	10.2	9.6
Finney	725	19.5	655	17.8	625	16.9	621	17.0	576	15.8	17.4
Ford	649	18.8	646	19.0	589	17.1	576	17.0	628	18.7	18.1
Franklin	320	12.5	298	11.7	305	11.9	302	11.8	261	10.2	11.6
Geary	1,118	30.2	967	27.2	890	26.3	936	28.7	911	28.8	28.2
Gove	37	14.0	40	15.4	31	11.8	38	14.5	37	14.0	14.0
Graham	21	8.1	20	7.8	21	8.4	24	9.6	18	7.3	8.2
Grant	121	15.6	123	16.1	113	15.0	126	17.2	106	14.8	15.8
Gray	81	13.2	86	14.3	88	14.8	78	12.9	81	13.5	13.7
Greeley	16	12.0	15	11.6	25	20.0	14	11.4	18	14.6	13.9
Greenwood	69	11.1	67	10.9	57	9.3	54	8.9	53	8.9	9.8
Hamilton	34	13.7	37	14.6	31	11.7	31	11.9	41	16.1	13.6
Harper	80	13.8	65	11.4	64	11.4	69	12.5	72	13.2	12.5
Harvey	411	11.7	379	10.9	379	11.0	386	11.3	389	11.3	11.2
Haskell	56	13.8	55	13.7	46	11.3	67	16.8	67	16.9	14.5
Hodgeman	14	7.4	23	12.3	17	9.2	14	7.7	15	8.4	9.0
Jackson	172	12.9	169	12.7	180	13.5	169	12.7	166	12.6	12.9
Jefferson	184	9.7	202	10.7	178	9.4	188	9.9	176	9.2	9.8
Jewell	31	10.4	36	12.4	31	10.9	24	8.4	23	8.0	10.0
Johnson	7,528	13.0	7,350	12.6	7,207	12.2	7,133	11.9	6,949	11.5	12.2
Kearny	63	15.9	61	15.6	65	16.4	65	16.5	61	15.9	16.1
Kingman	98	12.7	74	9.9	72	9.8	68	9.3	73	10.2	10.4
Kiowa	37	14.4	37	14.9	32	12.9	42	16.7	13	5.3	12.9
Labette	257	12.4	293	14.3	260	12.9	268	13.4	257	13.1	13.2
Lane	13	7.8	16	9.8	15	9.6	19	12.2	7	4.6	8.8
Leavenworth	1,013	12.8	999	12.5	951	11.7	1,005	12.4	887	10.8	12.0
Lincoln	28	9.0	37	12.0	22	7.2	30	9.9	24	8.1	9.3
Linn	109	11.4	95	9.9	99	10.2	102	10.5	105	10.8	10.6
Logan	43	15.2	54	19.1	39	13.8	47	16.5	31	11.1	15.2

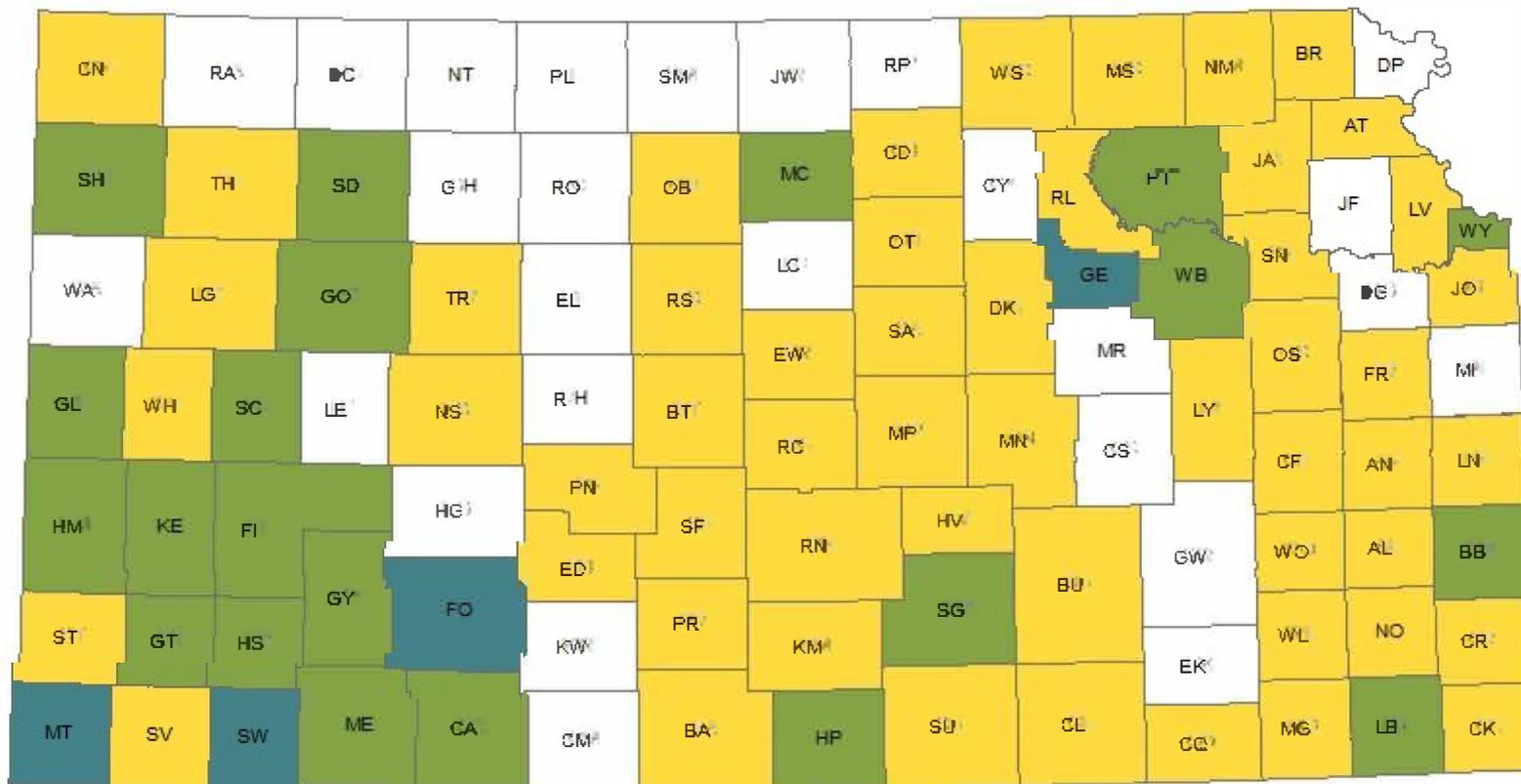
Table C10  
Live Births by County of Residence and Peer Group\*  
by Number and Rate<sup>†</sup>  
Kansas, 2015-2019

County of Residence	Year										5-Year Rate
	2015		2016		2017		2018		2019		
	Number	Rate									
Lyon	416	12.5	417	12.4	393	11.8	406	12.2	362	10.9	12.0
McPherson	336	11.6	308	10.7	324	11.3	302	10.6	290	10.2	10.9
Marion	109	9.0	118	9.7	113	9.4	112	9.4	124	10.4	9.6
Marshall	138	13.9	112	11.4	121	12.4	117	12.0	116	12.0	12.3
Meade	68	15.7	54	12.8	44	10.2	56	13.5	61	15.1	13.5
Miami	354	10.9	345	10.5	387	11.6	371	11.0	325	9.5	10.7
Mitchell	77	12.3	84	13.5	74	12.1	75	12.2	78	13.0	12.6
Montgomery	447	13.4	385	11.8	350	10.8	363	11.3	322	10.1	11.5
Morris	54	9.6	63	11.3	72	13.2	64	11.6	35	6.2	10.4
Morton	24	8.0	25	8.8	45	16.4	27	10.1	53	20.5	12.6
Nemaha	146	14.3	140	13.7	151	14.9	148	14.6	126	12.3	13.9
Neosho	189	11.6	217	13.4	196	12.2	163	10.2	202	12.6	12.0
Ness	33	11.0	37	12.5	15	5.2	35	12.3	28	10.2	10.3
Norton	61	11.0	66	12.0	50	9.2	56	10.3	52	9.7	10.4
Osage	158	10.0	183	11.6	171	10.8	166	10.4	163	10.2	10.6
Osborne	49	13.3	40	11.0	45	12.5	42	12.1	44	12.9	12.3
Ottawa	60	10.0	61	10.3	44	7.5	63	10.9	61	10.7	9.9
Pawnee	67	9.8	64	9.5	81	12.1	52	7.9	65	10.1	9.9
Phillips	50	9.2	68	12.5	49	9.1	62	11.7	47	9.0	10.3
Pottawatomie	362	15.5	394	16.7	355	14.8	383	15.8	338	13.9	15.3
Pratt	142	14.7	126	13.1	104	10.9	116	12.4	99	10.8	12.4
Rawlins	26	10.4	34	13.3	33	13.2	37	14.8	22	8.7	12.1
Reno	683	10.7	683	10.8	693	11.1	642	10.3	630	10.2	10.6
Republic	49	10.4	43	9.2	60	12.8	44	9.4	45	9.7	10.3
Rice	132	13.2	110	11.2	103	10.7	114	12.0	98	10.3	11.5
Riley	1,017	13.5	976	13.3	883	11.9	895	12.1	796	10.7	12.3
Rooks	58	11.2	68	13.4	52	10.3	67	13.4	47	9.6	11.6
Rush	37	11.8	40	13.1	31	10.0	23	7.4	29	9.6	10.4
Russell	74	10.5	81	11.6	73	10.6	84	12.2	69	10.1	11.0
Saline	729	13.1	662	12.0	702	12.8	639	11.7	677	12.5	12.4
Scott	51	10.3	63	12.5	57	11.5	67	13.7	75	15.6	12.7
Sedgwick	7,284	14.2	7,309	14.3	6,907	13.4	6,732	13.1	6,736	13.1	13.6
Seward	428	18.5	429	18.9	419	18.9	381	17.5	387	18.1	18.4
Shawnee	2,269	12.7	2,189	12.3	2,065	11.6	2,122	12.0	2,113	11.9	12.1
Sheridan	28	11.1	33	13.2	29	11.5	24	9.5	35	13.9	11.8
Sherman	84	14.0	73	12.2	73	12.3	65	11.0	80	13.5	12.6
Smith	50	13.5	40	11.0	43	11.7	30	8.3	35	9.8	10.9
Stafford	55	13.0	53	12.6	54	12.8	44	10.5	51	12.3	12.2
Stanton	39	18.8	25	12.1	28	13.6	21	10.6	23	11.5	13.4
Stevens	77	13.3	74	13.3	69	12.3	72	13.0	59	10.8	12.5
Sumner	290	12.3	255	11.0	262	11.3	258	11.2	263	11.5	11.5
Thomas	107	13.5	119	15.1	120	15.4	99	12.8	97	12.5	13.9
Trego	46	15.7	28	9.7	27	9.4	31	11.1	29	10.3	11.3
Wabaunsee	90	12.9	67	9.7	77	11.2	72	10.4	92	13.3	11.5
Wallace	20	13.2	23	15.4	18	11.8	34	22.6	14	9.2	14.4
Washington	86	15.4	67	12.1	76	13.9	77	14.2	67	12.4	13.6
Wichita	20	9.3	21	9.9	30	14.1	22	10.5	27	12.7	11.3
Wilson	98	11.1	114	13.1	113	13.0	102	11.8	92	10.8	11.9
Woodson	31	10.0	38	12.0	34	10.8	24	7.5	34	10.8	10.2
Wyandotte	2,763	16.9	2,694	16.4	2,539	15.4	2,620	15.8	2,612	15.8	16.1
n.s.	2	N/A	4	N/A	0	N/A	4	N/A	2	N/A	N/A
Peer Group											
Frontier	1,337	12.1	1,326	12.2	1,207	11.2	1,218	11.4	1,171	11.1	11.6
Rural	2,818	12.1	2,765	11.9	2,709	11.8	2,685	11.8	2,575	11.4	11.8
Densely -Settled Rural	6,485	13.7	6,303	13.4	5,933	12.7	5,950	12.8	5,806	12.6	13.0
Semi-Urban	6,300	13.6	5,932	12.9	5,812	12.7	5,685	12.5	5,456	12.0	12.7
Urban	22,184	13.6	21,718	13.3	20,803	12.6	20,726	12.5	20,385	12.2	12.8

\* See Technical Notes for Peer Group definition.

<sup>†</sup> Rate per 1,000 population.

# Birth Rate By County of Residence Kansas, 2019



Live Births per 1,000 population

State Rate 12.1

### Legend



Figure C5

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Table C11  
 Live Births by County of Residence and Peer Group\*  
 by Age-Group of Mother  
 Kansas, 2019

County of Residence	Age-Group of Mother									n.s.
	Total	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	
Kansas	35,395	18	1,858	7,574	11,020	9,693	4,386	799	46	1
Allen	131	0	9	32	53	23	12	2	0	0
Anderson	88	0	1	24	38	20	5	0	0	0
Atchison	192	0	12	52	66	35	23	4	0	0
Barber	47	0	1	11	15	10	10	0	0	0
Barton	307	0	24	77	100	73	24	7	2	0
Bourbon	200	0	11	72	59	38	17	3	0	0
Brown	113	0	10	26	42	27	5	3	0	0
Butler	708	0	39	142	217	209	82	18	1	0
Chase	24	0	0	4	10	7	3	0	0	0
Chautauqua	34	0	5	8	10	9	2	0	0	0
Cherokee	222	0	14	70	70	48	12	7	1	0
Cheyenne	31	0	1	5	15	5	5	0	0	0
Clark	28	0	3	3	13	6	3	0	0	0
Clay	75	0	0	17	30	18	9	1	0	0
Cloud	110	0	8	31	34	30	7	0	0	0
Coffey	92	0	4	26	33	21	8	0	0	0
Comanche	15	0	0	1	9	4	1	0	0	0
Cowley	392	0	30	113	124	88	25	12	0	0
Crawford.	437	0	24	124	150	94	40	5	0	0
Decatur	24	0	0	6	11	5	1	1	0	0
Dickinson	199	0	7	53	62	46	27	3	1	0
Doniphan	72	0	5	15	29	17	6	0	0	0
Douglas	1,088	1	33	180	314	369	161	26	4	0
Edwards	30	0	1	4	13	8	4	0	0	0
Elk	19	0	0	5	5	9	0	0	0	0
Ellis	283	0	8	50	88	93	38	6	0	0
Ellsworth	62	0	1	20	18	17	5	1	0	0
Finney	576	1	46	165	168	120	62	12	2	0
Ford	628	0	68	166	184	131	59	20	0	0
Franklin	261	0	19	64	97	59	18	4	0	0
Geary	911	0	44	346	295	177	39	10	0	0
Gove	37	0	0	7	17	8	4	1	0	0
Graham	18	0	1	3	8	6	0	0	0	0
Grant	106	0	10	30	33	23	10	0	0	0
Gray	81	0	5	18	26	23	6	3	0	0
Greeley	18	0	0	2	9	4	3	0	0	0
Greenwood	53	0	5	15	16	12	3	2	0	0
Hamilton	41	0	4	13	7	14	3	0	0	0
Harper	72	0	1	19	22	25	5	0	0	0
Harvey	389	1	28	75	138	102	40	5	0	0
Haskell	67	0	2	21	14	24	4	2	0	0
Hodgeman	15	0	0	2	3	8	2	0	0	0
Jackson	166	0	12	35	49	46	20	3	1	0
Jefferson	176	0	8	31	68	46	17	6	0	0
Jewell	23	0	1	7	10	3	2	0	0	0
Johnson	6,949	1	127	654	1,800	2,724	1,429	207	7	0
Kearny	61	0	3	16	22	13	6	1	0	0
Kingman	73	0	3	18	25	17	8	2	0	0
Kiowa	13	0	1	2	3	5	2	0	0	0
Labette	257	0	11	82	85	51	25	3	0	0
Lane	7	0	1	3	1	1	1	0	0	0
Leavenworth	887	0	31	199	254	267	114	20	2	0
Lincoln	24	0	0	6	10	4	4	0	0	0
Linn	105	0	9	23	32	28	12	1	0	0
Logan	31	0	3	4	16	6	2	0	0	0

Table C11  
Live Births by County of Residence and Peer Group\*  
by Age-Group of Mother  
Kansas, 2019

County of Residence	Age-Group of Mother									n.s.
	Total	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	
Lyon	362	0	22	98	116	85	36	4	1	0
McPherson	290	0	15	53	97	96	25	4	0	0
Marion	124	0	6	20	50	31	15	2	0	0
Marshall	116	0	4	16	43	36	13	4	0	0
Meade	61	0	2	15	25	12	5	2	0	0
Miami	325	0	15	61	115	91	33	9	1	0
Mitchell	78	0	6	15	19	32	4	2	0	0
Montgomery	322	1	27	94	102	63	30	4	1	0
Morris	35	0	0	6	15	7	5	2	0	0
Morton	53	0	8	15	12	11	6	1	0	0
Nemaha	126	0	3	27	49	37	10	0	0	0
Neosho	202	0	20	63	62	41	15	1	0	0
Ness	28	0	2	3	14	8	1	0	0	0
Norton	52	0	2	14	16	13	7	0	0	0
Osage	163	0	8	52	50	32	18	3	0	0
Osborne	44	0	1	10	20	10	3	0	0	0
Ottawa	61	0	1	13	25	18	4	0	0	0
Pawnee	65	0	4	20	14	18	8	1	0	0
Phillips	47	0	2	11	15	13	6	0	0	0
Pottawatomie	338	0	9	41	113	107	51	16	1	0
Pratt	99	0	7	22	35	24	9	2	0	0
Rawlins	22	0	1	7	5	3	5	1	0	0
Reno	630	0	38	153	223	134	65	16	1	0
Republic	45	0	0	7	21	11	6	0	0	0
Rice	98	0	3	30	29	25	8	3	0	0
Riley	796	0	22	201	253	227	76	16	0	1
Rooks	47	0	2	12	18	10	5	0	0	0
Rush	29	0	1	3	11	12	2	0	0	0
Russell	69	0	4	15	26	10	13	1	0	0
Saline	677	0	38	179	221	163	70	5	1	0
Scott	75	0	4	19	26	15	10	1	0	0
Sedgwick	6,736	10	432	1,545	2,181	1,644	761	152	11	0
Seward	387	0	47	103	123	70	34	10	0	0
Shawnee	2,113	2	164	504	662	499	239	42	1	0
Sheridan	35	0	0	8	15	10	1	1	0	0
Sherman	80	0	1	13	31	23	12	0	0	0
Smith	35	0	4	4	13	7	4	3	0	0
Stafford	51	0	3	12	19	12	4	1	0	0
Stanton	23	0	1	4	12	3	3	0	0	0
Stevens	59	0	3	15	20	13	4	4	0	0
Sumner	263	0	13	82	90	55	18	5	0	0
Thomas	97	0	2	30	30	31	4	0	0	0
Trego	29	0	0	4	11	10	3	1	0	0
Wabaunsee	92	0	5	22	23	25	15	2	0	0
Wallace	14	0	0	2	7	1	4	0	0	0
Washington	67	0	1	13	31	17	3	2	0	0
Wichita	27	0	1	3	14	7	2	0	0	0
Wilson.	92	0	9	25	33	21	3	1	0	0
Woodson	34	0	3	12	8	7	3	1	0	0
Wyandotte	2,612	1	198	679	817	567	270	73	7	0
n.s.	2	0	0	2	0	0	0	0	0	0
Peer Group										
Frontier	1,171	0	57	242	450	286	121	15	0	0
Rural	2,575	0	123	625	875	677	234	41	0	0
Densely -Settled										
Rural	5,806	1	399	1,505	1,856	1,341	564	131	9	0
Semi-Urban	5,456	2	294	1,439	1,811	1,319	493	92	5	1
Urban	20,385	15	985	3,761	6,028	6,070	2,974	520	32	0

\* See Technical Notes for Peer Group definition.

Table C12  
Live Births by County of Residence and Peer Group\*  
By Weeks Gestation  
Kansas, 2019

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	35,395	11	39	202	303	1,555	1,459	9,608	14,612	7,509	75	22	10.1
Allen	131	0	0	1	0	8	6	35	53	27	1	0	11.5
Anderson	88	0	0	0	0	4	3	21	42	18	0	0	8.0
Atchison	192	0	0	2	2	4	6	47	92	39	0	0	7.3
Barber	47	0	0	0	1	0	0	7	28	11	0	0	2.1
Barton	307	0	0	2	1	11	29	87	133	44	0	0	14.0
Bourbon	200	0	1	1	2	6	8	55	100	24	0	3	9.1
Brown	113	0	0	0	0	3	1	33	45	30	1	0	3.5
Butler	708	0	1	3	3	36	37	206	287	134	0	1	11.3
Chase	24	0	0	0	0	1	1	8	11	3	0	0	8.3
Chautauqua	34	0	0	0	3	1	2	4	16	8	0	0	17.6
Cherokee	222	0	1	3	0	16	12	74	77	38	1	0	14.4
Cheyenne	31	0	0	0	0	3	1	12	12	3	0	0	12.9
Clark	28	0	0	0	0	2	0	7	12	7	0	0	7.1
Clay	75	0	0	0	1	5	2	18	26	23	0	0	10.7
Cloud	110	0	0	0	1	3	3	33	48	22	0	0	6.4
Coffey	92	0	0	1	2	3	3	14	48	21	0	0	9.8
Comanche	15	0	0	0	0	1	1	3	6	4	0	0	13.3
Cowley	392	0	1	2	6	16	16	147	124	77	2	1	10.5
Crawford	437	0	0	2	4	24	22	141	175	68	1	0	11.9
Decatur	24	0	0	0	0	0	1	6	13	4	0	0	4.2
Dickinson	199	0	1	1	2	9	6	51	100	29	0	0	9.5
Doniphan	72	0	0	2	0	5	3	11	28	23	0	0	13.9
Douglas	1,088	0	0	2	6	45	41	291	454	243	6	0	8.6
Edwards	30	0	0	0	0	1	0	5	13	11	0	0	3.3
Elk	19	0	0	0	0	0	1	9	8	1	0	0	5.3
Ellis	283	0	0	2	0	15	5	67	127	67	0	0	7.8
Ellsworth	62	0	0	1	0	4	2	13	29	13	0	0	11.3
Finney	576	0	1	2	6	39	38	157	232	97	3	1	15.0
Ford	628	0	1	4	6	25	23	146	251	168	3	1	9.4
Franklin	261	0	0	2	5	11	12	66	120	45	0	0	11.5
Geary	911	0	1	3	4	27	38	263	367	206	1	1	8.0
Gove	37	0	0	0	1	3	0	11	17	5	0	0	10.8
Graham	18	0	0	1	0	1	1	5	5	5	0	0	16.7
Grant	106	0	0	2	1	9	6	30	47	11	0	0	17.0
Gray	81	0	0	0	2	2	1	24	38	14	0	0	6.2
Greeley	18	0	0	0	0	1	0	4	9	4	0	0	5.6
Greenwood	53	0	1	0	2	1	4	12	19	13	1	0	15.1
Hamilton	41	0	0	1	0	2	1	9	17	11	0	0	9.8
Harper	72	0	0	0	0	2	3	19	37	10	1	0	6.9
Harvey	389	1	0	1	8	21	16	108	172	62	0	0	12.1
Haskell	67	0	0	0	0	1	3	16	30	17	0	0	6.0
Hodgeman	15	0	0	0	0	0	1	3	9	2	0	0	6.7
Jackson	166	0	0	0	1	5	13	47	68	31	0	1	11.5
Jefferson	176	0	0	0	4	6	5	50	69	42	0	0	8.5
Jewell	23	0	0	0	0	0	0	8	9	6	0	0	0.0
Johnson	6,949	0	7	38	57	271	273	1,779	2,867	1,644	11	2	9.3
Kearny	61	0	0	0	0	1	2	21	29	8	0	0	4.9
Kingman	73	0	0	0	1	2	2	16	39	13	0	0	6.8
Kiowa	13	0	0	0	0	0	1	2	9	1	0	0	7.7
Labette	257	0	0	0	2	10	7	74	102	59	2	1	7.4
Lane	7	0	0	0	0	0	0	2	3	2	0	0	0.0
Leavenworth	887	0	2	6	7	36	47	240	346	202	1	0	11.0
Lincoln	24	0	0	0	0	1	4	6	10	3	0	0	20.8
Linn	105	0	0	0	1	4	2	35	46	16	1	0	6.7
Logan	31	0	0	0	0	0	0	9	15	7	0	0	0.0

Table C12  
Live Births by County of Residence and Peer Group\*  
By Weeks Gestation  
Kansas, 2019

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.	
Lyon	362	1	0	1	6	17	12	94	165	66	0	0	10.2
McPherson	290	0	0	3	1	8	9	86	112	71	0	0	7.2
Marion	124	0	2	0	2	5	7	39	43	26	0	0	12.9
Marshall	116	0	0	0	0	9	4	24	54	25	0	0	11.2
Meade	61	0	0	1	0	2	4	14	26	13	1	0	11.5
Miami	325	1	0	1	2	12	18	81	135	75	0	0	10.5
Mitchell	78	0	0	0	0	4	6	23	28	17	0	0	12.8
Montgomery	322	0	0	2	3	10	18	80	165	43	0	1	10.3
Morris	35	0	0	0	2	0	2	9	16	6	0	0	11.4
Morton	53	0	0	0	2	3	4	11	20	13	0	0	17.0
Nemaha	126	0	0	1	0	2	5	26	68	24	0	0	6.3
Neosho	202	0	1	2	0	10	6	60	80	43	0	0	9.4
Ness	28	0	0	0	0	2	1	4	15	6	0	0	10.7
Norton	52	0	0	0	2	2	4	12	18	14	0	0	15.4
Osage	163	0	0	0	1	18	5	46	62	31	0	0	14.7
Osborne	44	0	0	0	0	2	4	13	19	6	0	0	13.6
Ottawa	61	0	0	1	0	1	4	19	30	6	0	0	9.8
Pawnee	65	0	0	0	0	3	1	21	29	11	0	0	6.2
Phillips	47	0	0	0	1	4	2	9	17	13	1	0	14.9
Pottawatomie	338	0	0	1	2	7	8	91	133	90	6	0	5.3
Pratt	99	0	1	0	0	3	6	17	36	35	1	0	10.1
Rawlins	22	0	0	0	0	3	0	6	9	4	0	0	13.6
Reno	630	0	1	3	15	37	21	154	279	120	0	0	12.2
Republic	45	0	0	0	1	3	1	13	17	10	0	0	11.1
Rice	98	0	0	0	3	3	3	31	40	18	0	0	9.2
Riley	796	1	1	6	6	26	24	195	307	226	3	1	8.1
Rooks	47	0	0	0	0	4	2	15	15	10	1	0	12.8
Rush	29	0	0	0	0	1	2	5	14	7	0	0	10.3
Russell	69	0	0	0	1	1	1	19	28	19	0	0	4.3
Saline	677	0	0	5	5	27	28	180	323	106	3	0	9.6
Scott	75	0	0	1	0	6	4	21	27	16	0	0	14.7
Sedgwick	6,736	2	7	42	62	362	266	1,908	2,657	1,419	11	0	11.0
Seward	387	0	1	0	1	10	18	95	162	94	2	4	7.8
Shawnee	2,113	0	2	18	11	83	84	587	960	362	4	2	9.4
Sheridan	35	0	0	0	0	1	3	9	17	5	0	0	11.4
Sherman	80	0	0	0	0	2	6	27	27	18	0	0	10.0
Smith	35	0	0	0	0	1	1	19	11	3	0	0	5.7
Stafford	51	0	0	0	1	3	3	13	19	12	0	0	13.7
Stanton	23	0	0	1	1	1	2	5	6	7	0	0	21.7
Stevens	59	0	1	0	0	2	0	14	30	12	0	0	5.1
Sumner	263	1	0	1	4	7	11	74	115	50	0	0	9.1
Thomas	97	0	0	2	1	4	2	19	51	18	0	0	9.3
Trego	29	0	0	0	2	1	1	4	17	4	0	0	13.8
Wabaunsee	92	0	1	0	0	3	4	20	47	16	1	0	8.7
Wallace	14	0	0	0	0	1	0	3	10	0	0	0	7.1
Washington	67	0	0	0	0	1	3	13	31	19	0	0	6.0
Wichita	27	0	0	1	0	3	2	5	11	5	0	0	22.2
Wilson	92	0	0	3	2	3	5	36	31	11	0	1	14.3
Woodson	34	0	0	0	3	0	3	10	15	3	0	0	17.6
Wyandotte	2,612	4	3	21	18	125	114	762	974	585	5	1	10.9
n.s.	2	0	0	0	0	0	0	0	2	0	0	0	n/a
Peer Group													
Frontier	1,171	0	1	5	13	49	56	306	506	232	3	0	10.6
Rural	2,575	0	5	12	27	101	98	667	1,131	527	6	1	9.4
Densely -Settled													
Rural	5,806	2	8	30	47	252	246	1,594	2,385	1,210	20	12	10.1
Semi-Urban	5,456	3	4	28	55	231	234	1,474	2,330	1,085	8	4	10.2
Urban	20,385	6	21	127	161	922	825	5,567	8,258	4,455	38	5	10.1

\* See Technical Notes for Peer Group definition.

Table C13  
Live Births by County of Residence and Peer Group\*  
by Month Prenatal Care Began  
Kansas, 2019

County of Residence	Total	Month Care Began											
		1st	2nd	3rd	% Care in 1st Trimester	4th	5th	6th	7th	8th	9th or Later	None	n.s.
Kansas	35,395	867	12,973	14,441	80.9	3,044	1,382	767	548	406	218	324	425
Allen	131	3	42	58	80.5	10	4	4	3	2	2	0	3
Anderson	88	2	35	29	75.9	10	4	2	1	1	3	0	1
Atchison	192	3	47	88	73.8	20	14	8	2	3	0	2	5
Barber	47	0	18	16	72.3	8	2	1	0	1	0	1	0
Barton	307	3	91	160	83.3	29	8	8	3	1	0	2	2
Bourbon	200	7	74	61	73.6	14	14	7	6	4	3	3	7
Brown	113	0	16	55	63.4	24	7	3	2	3	1	1	1
Butler	708	18	304	262	82.6	66	28	15	5	3	1	5	1
Chase	24	0	11	9	87.0	1	1	0	1	0	0	0	1
Chautauqua	34	2	18	9	85.3	2	2	0	0	1	0	0	0
Cherokee	222	3	68	97	78.1	26	5	8	4	4	0	0	7
Cheyenne	31	1	12	11	88.9	3	0	0	0	0	0	0	4
Clark	28	2	9	10	77.8	4	1	0	0	0	0	1	1
Clay	75	2	16	49	89.3	2	3	1	1	1	0	0	0
Cloud	110	1	37	50	80.7	9	4	3	2	1	2	0	1
Coffey	92	4	23	42	75.8	10	7	5	0	0	0	0	1
Comanche	15	1	0	11	80.0	2	0	1	0	0	0	0	0
Cowley	392	10	148	128	73.5	42	16	10	11	13	5	6	3
Crawford	437	18	163	158	78.1	40	17	13	15	5	2	3	3
Decatur	24	1	7	6	58.3	3	4	3	0	0	0	0	0
Dickinson	199	4	71	93	85.3	13	7	1	2	2	2	2	2
Doniphan	72	3	30	26	83.1	5	3	2	1	1	0	0	1
Douglas	1,088	10	466	412	81.8	83	45	24	20	13	6	6	3
Edwards	30	0	5	18	82.1	1	3	0	0	0	0	1	2
Elk	19	0	7	7	73.7	2	2	0	0	0	1	0	0
Ellis	283	2	39	219	91.9	13	2	2	1	2	3	0	0
Ellsworth	62	2	23	23	80.0	6	2	3	1	0	0	0	2
Finney	576	20	134	219	66.6	73	43	27	19	11	5	9	16
Ford	628	67	189	144	68.6	65	43	27	9	14	5	20	45
Franklin	261	16	95	103	82.6	23	3	7	4	3	4	1	2
Geary	911	35	228	439	78.1	69	37	28	25	25	7	6	12
Gove	37	0	13	16	78.4	3	1	1	2	1	0	0	0
Graham	18	0	4	13	94.4	1	0	0	0	0	0	0	0
Grant	106	3	37	32	69.2	10	7	2	3	8	2	0	2
Gray	81	7	27	26	76.9	11	5	0	1	0	1	0	3
Greeley	18	1	5	9	83.3	0	0	1	2	0	0	0	0
Greenwood	53	2	14	23	75.0	8	3	0	0	2	0	0	1
Hamilton	41	0	15	15	73.2	5	1	0	2	1	0	2	0
Harper	72	1	30	25	77.8	9	1	2	0	1	3	0	0
Harvey	389	4	133	203	87.6	23	12	3	4	2	3	1	1
Haskell	67	4	18	24	70.8	6	6	4	0	2	1	0	2
Hodgeman	15	0	9	4	86.7	2	0	0	0	0	0	0	0
Jackson	166	3	20	99	73.5	15	11	7	4	2	1	4	0
Jefferson	176	1	43	90	77.5	19	7	7	1	5	0	0	3
Jewell	23	0	9	10	82.6	3	0	0	0	0	1	0	0
Johnson	6,949	230	3,123	2,686	88.0	443	160	81	58	29	16	33	90
Kearny	61	5	21	23	80.3	9	0	0	1	1	1	0	0
Kingman	73	1	28	33	84.9	6	4	0	1	0	0	0	0
Kiowa	13	0	0	9	69.2	4	0	0	0	0	0	0	0
Labette	257	7	104	65	69.3	20	16	17	11	6	6	2	3
Lane	7	0	3	3	100.0	0	0	0	0	0	0	0	1
Leavenworth	887	17	361	393	87.4	47	28	15	8	9	0	4	5
Lincoln	24	1	6	11	85.7	3	0	0	0	0	0	0	3
Linn	105	5	36	36	75.5	10	4	3	3	3	1	1	3
Logan	31	0	10	14	77.4	4	2	0	0	0	1	0	0

Table C13  
Live Births by County of Residence and Peer Group\*  
by Month Prenatal Care Began  
Kansas, 2019

County of Residence	Total	Month Care Began											
		1st	2nd	3rd	% Care in 1st Trimester	4th	5th	6th	7th	8th	9th or Later	None	n.s.
Lyon	362	12	180	113	85.2	27	10	8	3	1	2	2	4
McPherson	290	8	117	128	87.5	20	8	3	3	1	1	0	1
Marion	124	1	40	64	84.7	16	1	0	1	0	1	0	0
Marshall	116	1	18	75	82.5	13	3	1	1	1	1	0	2
Meade	61	2	25	14	68.3	11	3	0	3	1	1	0	1
Miami	325	16	135	127	87.7	21	7	5	3	1	1	1	8
Mitchell	78	1	27	43	93.4	3	1	0	0	1	0	0	2
Montgomery	322	25	133	75	73.7	35	12	11	15	2	4	4	6
Morris	35	1	9	15	71.4	7	1	2	0	0	0	0	0
Morton	53	2	20	13	66.0	8	3	2	1	3	0	1	0
Nemaha	126	1	28	75	82.5	13	2	2	5	0	0	0	0
Neosho	202	3	74	86	80.7	10	9	7	12	0	0	1	0
Ness	28	0	1	22	85.2	2	1	1	0	0	0	0	1
Norton	52	2	7	28	71.2	5	3	1	2	1	1	2	0
Osage	163	2	22	100	77.0	17	7	1	3	5	4	0	2
Osborne	44	1	15	19	81.4	4	2	1	1	0	0	0	1
Ottawa	61	0	26	27	89.8	2	3	0	0	0	1	0	2
Pawnee	65	1	20	34	84.6	5	3	1	1	0	0	0	0
Phillips	47	1	13	26	85.1	3	2	1	0	0	1	0	0
Pottawatomie	338	11	45	207	78.3	38	16	11	3	1	1	3	2
Pratt	99	1	16	64	82.7	11	5	0	1	0	0	0	1
Rawlins	22	0	7	12	90.5	0	2	0	0	0	0	0	1
Reno	630	14	285	209	80.8	47	25	17	13	6	3	10	1
Republic	45	1	17	21	88.6	3	1	1	0	0	0	0	1
Rice	98	4	44	34	84.5	5	5	1	0	4	0	0	1
Riley	796	20	184	427	79.7	80	24	25	13	10	7	2	4
Rooks	47	0	7	37	93.6	1	1	0	0	0	1	0	0
Rush	29	0	4	21	86.2	1	1	1	0	1	0	0	0
Russell	69	0	16	43	85.5	5	1	1	1	1	0	1	0
Saline	677	12	294	254	84.6	43	24	11	10	4	5	5	15
Scott	75	2	30	29	82.4	4	3	0	2	1	2	1	1
Sedgwick	6,736	62	3,165	2,342	82.9	478	264	119	87	76	37	85	21
Seward	387	4	123	116	63.4	50	26	24	12	14	6	8	4
Shawnee	2,113	19	204	1,290	72.0	302	103	54	46	36	24	23	12
Sheridan	35	0	12	20	91.4	1	2	0	0	0	0	0	0
Sherman	80	5	29	18	69.3	13	2	2	1	3	2	0	5
Smith	35	0	11	21	91.4	2	1	0	0	0	0	0	0
Stafford	51	1	19	28	94.1	0	1	2	0	0	0	0	0
Stanton	23	0	6	11	77.3	2	3	0	0	0	0	0	1
Stevens	59	2	20	21	74.1	8	4	0	2	0	1	0	1
Sumner	263	4	132	86	84.7	15	7	6	4	3	1	4	1
Thomas	97	2	36	36	76.3	10	8	2	1	1	0	1	0
Trego	29	0	7	15	75.9	4	1	1	1	0	0	0	0
Wabaunsee	92	0	8	58	72.5	14	5	3	1	1	1	0	1
Wallace	14	1	3	6	71.4	3	0	0	1	0	0	0	0
Washington	67	4	11	43	86.6	7	1	1	0	0	0	0	0
Wichita	27	0	14	10	88.9	1	0	0	1	1	0	0	0
Wilson	92	0	42	38	87.0	7	1	1	1	0	0	2	0
Woodson	34	2	15	12	85.3	2	1	0	1	1	0	0	0
Wyandotte	2,612	84	762	953	71.0	326	163	81	53	39	20	52	79
n.s.	2	0	0	1	n/a	0	1	0	0	0	0	0	0
Peer Group													
Frontier	1,171	28	376	514	80.0	121	45	17	17	16	8	6	23
Rural	2,575	59	769	1,210	80.0	256	108	46	35	32	23	9	28
Densely -Settled Rural	5,806	180	1,793	2,383	76.5	541	276	195	117	95	47	68	111
Semi-Urban	5,456	178	1,954	2,257	81.2	447	189	135	107	61	37	38	53
Urban	20,385	422	8,081	8,076	82.2	1,679	763	374	272	202	103	203	210

\* 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<sup>†</sup>  
 Kansas, 2019

County of Residence	Live Births	APNCU Category <sup>‡</sup>								n.s.
		Adequate Plus		Adequate		Intermediate		Inadequate		
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	
Kansas	35,395	10,607	30.4	18,675	53.5	1,723	4.9	3,930	11.2	460
Allen	131	39	30.2	65	50.4	6	4.7	19	14.7	2
Anderson	88	27	31.0	46	52.9	3	3.4	11	12.6	1
Atchison	192	38	20.3	110	58.8	10	5.3	29	15.5	5
Barber	47	4	8.5	37	78.7	1	2.1	5	10.6	0
Barton	307	155	50.7	116	37.9	12	3.9	23	7.5	1
Bourbon	200	53	27.2	82	42.1	14	7.2	46	23.6	5
Brown	113	42	37.8	48	43.2	4	3.6	17	15.3	2
Butler	708	167	23.6	450	63.6	23	3.3	67	9.5	1
Chase	24	16	69.6	5	21.7	0	0.0	2	8.7	1
Chautauqua	34	13	38.2	13	38.2	5	14.7	3	8.8	0
Cherokee	222	86	38.9	96	43.4	10	4.5	29	13.1	1
Cheyenne	31	11	40.7	11	40.7	5	18.5	0	0.0	4
Clark	28	6	22.2	17	63.0	2	7.4	2	7.4	1
Clay	75	22	29.3	40	53.3	7	9.3	6	8.0	0
Cloud	110	25	22.9	65	59.6	7	6.4	12	11.0	1
Coffey	92	32	35.2	38	41.8	8	8.8	13	14.3	1
Comanche	15	5	33.3	9	60.0	0	0.0	1	6.7	0
Cowley	392	163	42.2	147	38.1	12	3.1	64	16.6	6
Crawford	437	141	32.5	196	45.2	37	8.5	60	13.8	3
Decatur	24	3	12.5	11	45.8	3	12.5	7	29.2	0
Dickinson	199	53	27.0	116	59.2	9	4.6	18	9.2	3
Doniphan	72	24	33.3	36	50.0	4	5.6	8	11.1	0
Douglas	1,088	439	40.5	508	46.8	21	1.9	117	10.8	3
Edwards	30	4	14.3	18	64.3	2	7.1	4	14.3	2
Elk	19	6	31.6	9	47.4	0	0.0	4	21.1	0
Ellis	283	49	17.3	207	73.1	16	5.7	11	3.9	0
Ellsworth	62	8	13.3	37	61.7	7	11.7	8	13.3	2
Finney	576	191	34.2	229	41.0	22	3.9	116	20.8	18
Ford	628	119	20.4	259	44.4	77	13.2	128	22.0	45
Franklin	261	102	39.8	128	50.0	6	2.3	20	7.8	5
Geary	911	261	29.1	397	44.2	104	11.6	136	15.1	13
Gove	37	3	8.1	24	64.9	4	10.8	6	16.2	0
Graham	18	3	16.7	12	66.7	3	16.7	0	0.0	0
Grant	106	36	34.6	41	39.4	5	4.8	22	21.2	2
Gray	81	24	30.8	38	48.7	9	11.5	7	9.0	3
Greeley	18	2	11.1	10	55.6	3	16.7	3	16.7	0
Greenwood	53	23	44.2	19	36.5	5	9.6	5	9.6	1
Hamilton	41	7	17.1	22	53.7	6	14.6	6	14.6	0
Harper	72	14	19.4	47	65.3	4	5.6	7	9.7	0
Harvey	389	175	45.1	171	44.1	15	3.9	27	7.0	1
Haskell	67	16	24.6	28	43.1	8	12.3	13	20.0	2
Hodgeman	15	5	33.3	8	53.3	2	13.3	0	0.0	0
Jackson	166	57	35.0	70	42.9	8	4.9	28	17.2	3
Jefferson	176	60	34.9	86	50.0	6	3.5	20	11.6	4
Jewell	23	7	31.8	8	36.4	5	22.7	2	9.1	1
Johnson	6,949	2,550	37.2	3,735	54.5	172	2.5	398	5.8	94
Kearny	61	26	42.6	31	50.8	1	1.6	3	4.9	0
Kingman	73	16	21.9	51	69.9	0	0.0	6	8.2	0
Kiowa	13	4	30.8	9	69.2	0	0.0	0	0.0	0
Labette	257	66	25.9	104	40.8	22	8.6	63	24.7	2
Lane	7	1	16.7	4	66.7	1	16.7	0	0.0	1
Leavenworth	887	208	23.6	573	65.0	34	3.9	67	7.6	5
Lincoln	24	5	23.8	14	66.7	2	9.5	0	0.0	3
Linn	105	44	44.9	35	35.7	5	5.1	14	14.3	7
Logan	31	10	32.3	15	48.4	2	6.5	4	12.9	0

Table C14  
Live Births by County of Residence and Peer Group\*  
by Adequacy of Prenatal Care Utilization (APNCU) Index†  
Kansas, 2019

County of Residence	Live Births	APNCU Category‡								n.s.
		Adequate Plus		Adequate		Intermediate		Inadequate		
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	
Lyon	362	203	56.9	123	34.5	6	1.7	25	7.0	5
McPherson	290	102	35.3	164	56.7	6	2.1	17	5.9	1
Marion	124	52	41.9	62	50.0	5	4.0	5	4.0	0
Marshall	116	33	28.9	70	61.4	3	2.6	8	7.0	2
Meade	61	16	26.7	30	50.0	6	10.0	8	13.3	1
Miami	325	123	38.9	165	52.2	9	2.8	19	6.0	9
Mitchell	78	14	18.4	53	69.7	7	9.2	2	2.6	2
Montgomery	322	87	27.4	138	43.5	31	9.8	61	19.2	5
Morris	35	13	37.1	19	54.3	0	0.0	3	8.6	0
Morton	53	12	22.6	24	45.3	7	13.2	10	18.9	0
Nemaha	126	34	27.0	76	60.3	7	5.6	9	7.1	0
Neosho	202	71	35.1	90	44.6	8	4.0	33	16.3	0
Ness	28	5	18.5	20	74.1	0	0.0	2	7.4	1
Norton	52	10	19.2	21	40.4	11	21.2	10	19.2	0
Osage	163	65	40.6	68	42.5	5	3.1	22	13.8	3
Osborne	44	16	37.2	18	41.9	4	9.3	5	11.6	1
Ottawa	61	17	29.3	33	56.9	3	5.2	5	8.6	3
Pawnee	65	25	38.5	29	44.6	6	9.2	5	7.7	0
Phillips	47	12	25.5	26	55.3	5	10.6	4	8.5	0
Pottawatomie	338	104	31.0	179	53.3	16	4.8	37	11.0	2
Pratt	99	18	18.4	72	73.5	2	2.0	6	6.1	1
Rawlins	22	6	28.6	6	28.6	7	33.3	2	9.5	1
Reno	630	252	40.1	266	42.3	31	4.9	80	12.7	1
Republic	45	14	31.8	24	54.5	4	9.1	2	4.5	1
Rice	98	25	25.8	54	55.7	8	8.2	10	10.3	1
Riley	796	238	30.1	406	51.3	62	7.8	85	10.7	5
Rooks	47	5	10.6	38	80.9	2	4.3	2	4.3	0
Rush	29	7	24.1	17	58.6	1	3.4	4	13.8	0
Russell	69	12	17.4	47	68.1	5	7.2	5	7.2	0
Saline	677	155	23.5	399	60.5	44	6.7	62	9.4	17
Scott	75	27	36.5	31	41.9	5	6.8	11	14.9	1
Sedgwick	6,736	1,255	18.7	4,463	66.5	274	4.1	721	10.7	23
Seward	387	104	27.4	154	40.6	28	7.4	93	24.5	8
Shawnee	2,113	786	37.6	930	44.4	71	3.4	306	14.6	20
Sheridan	35	8	22.9	22	62.9	3	8.6	2	5.7	0
Sherman	80	21	28.0	32	42.7	10	13.3	12	16.0	5
Smith	35	21	60.0	10	28.6	1	2.9	3	8.6	0
Stafford	51	16	31.4	31	60.8	1	2.0	3	5.9	0
Stanton	23	7	31.8	11	50.0	1	4.5	3	13.6	1
Stevens	59	12	21.4	32	57.1	5	8.9	7	12.5	3
Sumner	263	53	20.2	171	65.3	10	3.8	28	10.7	1
Thomas	97	23	23.7	50	51.5	10	10.3	14	14.4	0
Trego	29	5	17.2	17	58.6	2	6.9	5	17.2	0
Wabaunsee	92	24	26.7	52	57.8	4	4.4	10	11.1	2
Wallace	14	3	21.4	8	57.1	2	14.3	1	7.1	0
Washington	67	15	22.4	46	68.7	4	6.0	2	3.0	0
Wichita	27	9	33.3	13	48.1	2	7.4	3	11.1	0
Wilson	92	45	48.9	39	42.4	2	2.2	6	6.5	0
Woodson	34	8	23.5	18	52.9	4	11.8	4	11.8	0
Wyandotte	2,612	753	29.7	1,106	43.7	214	8.4	460	18.2	79
n.s.	2	0	n/a	1	n/a	0	n/a	1	n/a	0
Peer Group										
Frontier	1,171	321	28.0	603	52.6	101	8.8	122	10.6	24
Rural	2,575	739	29.1	1,368	53.9	167	6.6	264	10.4	37
Densely -Settled										
Rural	5,806	1,855	32.6	2,672	47.0	307	5.4	857	15.1	115
Semi-Urban	5,456	1,701	31.5	2,716	50.3	362	6.7	617	11.4	60
Urban	20,385	5,991	29.7	11,315	56.1	786	3.9	2,069	10.3	224

\* 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, 2019

County of Residence	Birth Weight in Grams														
	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	35,395	59	179	254	1.4	518	1,679	7.6	6,219	13,699	9,761	2,635	354	37	1
Allen	131	0	0	1	0.8	2	12	11.5	20	49	32	13	1	1	0
Anderson	88	0	0	0	0.0	0	2	2.3	16	36	26	8	0	0	0
Atchison	192	0	1	1	1.0	4	6	6.3	29	79	55	16	1	0	0
Barber	47	0	0	1	2.1	0	0	2.1	0	20	22	4	0	0	0
Barton	307	0	2	1	1.0	2	19	7.8	47	134	73	24	4	1	0
Bourbon	200	1	1	1	1.5	2	6	5.5	40	79	59	9	2	0	0
Brown	113	0	0	0	0.0	1	6	6.2	15	38	42	11	0	0	0
Butler	708	1	3	3	1.0	9	32	6.8	129	261	200	67	3	0	0
Chase	24	0	0	0	0.0	1	1	8.3	6	4	10	2	0	0	0
Chautauqua	34	0	0	0	0.0	2	2	11.8	4	12	11	3	0	0	0
Cherokee	222	1	1	3	2.3	4	15	10.8	40	86	54	14	4	0	0
Cheyenne	31	0	0	0	0.0	2	0	6.5	12	12	5	0	0	0	0
Clark	28	0	0	0	0.0	0	2	7.1	3	11	12	0	0	0	0
Clay	75	0	0	2	2.7	0	5	9.3	10	27	26	4	1	0	0
Cloud	110	0	0	0	0.0	1	4	4.5	24	46	26	9	0	0	0
Coffey	92	0	2	1	3.3	0	2	5.4	13	40	30	3	1	0	0
Comanche	15	0	0	0	0.0	0	0	0.0	2	6	6	1	0	0	0
Cowley	392	2	0	2	1.0	8	21	8.4	82	168	82	27	0	0	0
Crawford	437	1	1	3	1.1	7	14	5.9	84	162	123	37	4	1	0
Decatur	24	0	0	0	0.0	0	0	0.0	5	8	10	1	0	0	0
Dickinson	199	1	0	1	1.0	4	11	8.5	33	84	54	11	0	0	0
Doniphan	72	0	1	1	2.8	2	5	12.5	11	23	23	5	1	0	0
Douglas	1,088	0	4	4	0.7	14	50	6.6	205	396	302	98	14	1	0
Edwards	30	0	0	0	0.0	0	1	3.3	3	16	7	2	1	0	0
Elk	19	0	0	0	0.0	0	0	0.0	1	12	5	1	0	0	0
Ellis	283	0	2	0	0.7	2	17	7.4	42	104	92	23	1	0	0
Ellsworth	62	0	1	0	1.6	0	5	9.7	12	20	17	6	1	0	0
Finney	576	1	2	9	2.1	9	51	12.5	130	238	107	23	5	0	1
Ford	628	2	3	5	1.6	6	24	6.4	122	275	144	37	9	1	0
Franklin	261	0	1	3	1.5	7	9	7.7	54	95	66	24	1	1	0
Geary	911	0	4	6	1.1	14	40	7.0	172	360	253	56	6	0	0
Gove	37	0	0	0	0.0	1	2	8.1	4	15	13	2	0	0	0
Graham	18	1	0	0	5.6	0	2	16.7	5	3	5	2	0	0	0
Grant	106	1	1	0	1.9	2	8	11.3	14	49	19	11	0	1	0
Gray	81	0	0	0	0.0	3	2	6.2	13	30	29	4	0	0	0
Greeley	18	0	0	0	0.0	0	1	5.6	4	8	4	1	0	0	0
Greenwood	53	0	2	1	5.7	0	3	11.3	6	23	14	4	0	0	0
Hamilton	41	0	1	0	2.4	2	2	12.2	7	18	10	1	0	0	0
Harper	72	0	0	0	0.0	1	4	6.9	15	31	18	3	0	0	0
Harvey	389	2	0	5	1.8	7	26	10.3	67	144	106	27	4	1	0
Haskell	67	0	0	0	0.0	1	2	4.5	13	26	21	4	0	0	0
Hodgeman	15	0	0	0	0.0	1	0	6.7	2	9	3	0	0	0	0
Jackson	166	0	0	1	0.6	1	7	5.4	28	61	50	15	3	0	0
Jefferson	176	0	1	3	2.3	1	6	6.3	35	58	53	18	1	0	0
Jewell	23	0	0	0	0.0	0	2	8.7	1	7	10	3	0	0	0
Johnson	6,949	8	35	50	1.3	91	297	6.9	1,106	2,598	2,125	561	75	3	0
Kearny	61	0	0	0	0.0	1	0	1.6	17	24	16	2	1	0	0
Kingman	73	0	0	1	1.4	2	1	5.5	8	33	24	4	0	0	0
Kiowa	13	0	0	0	0.0	0	0	0.0	3	4	5	1	0	0	0
Labette	257	0	0	1	0.4	5	7	5.1	56	89	79	18	1	1	0
Lane	7	0	0	0	0.0	0	0	0.0	2	3	1	1	0	0	0
Leavenworth	887	2	2	6	1.1	14	47	8.0	151	352	239	64	7	3	0
Lincoln	24	0	0	0	0.0	1	3	16.7	4	6	7	2	1	0	0
Linn	105	0	0	0	0.0	1	5	5.7	18	39	32	9	1	0	0
Logan	31	0	0	0	0.0	0	1	3.2	5	12	11	2	0	0	0

Table C15  
Live Births by County of Residence and Peer Group\*  
by Birth Weight in Grams  
Kansas, 2019

County of Residence	Birth Weight in Grams														
	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	362	1	1	2	1.1	6	12	6.1	58	156	92	29	3	2	0
McPherson	290	0	3	1	1.4	1	7	4.1	46	124	75	24	8	1	0
Marion	124	2	0	2	3.2	1	9	11.3	18	51	27	14	0	0	0
Marshall	116	0	0	0	0.0	3	7	8.6	17	39	41	9	0	0	0
Meade	61	0	0	1	1.6	1	6	13.1	7	24	12	8	2	0	0
Miami	325	1	1	0	0.6	2	20	7.4	44	115	104	34	4	0	0
Mitchell	78	0	0	0	0.0	1	4	6.4	14	34	21	4	0	0	0
Montgomery	322	0	1	1	0.6	8	14	7.5	52	132	85	22	7	0	0
Morris	35	0	0	1	2.9	1	1	8.6	2	13	15	2	0	0	0
Morton	53	0	0	2	3.8	0	4	11.3	9	20	15	3	0	0	0
Nemaha	126	0	0	1	0.8	1	2	3.2	23	49	41	8	1	0	0
Neosho	202	1	1	1	1.5	3	8	6.9	41	80	52	12	3	0	0
Ness	28	0	0	0	0.0	2	0	7.1	5	12	7	2	0	0	0
Norton	52	0	0	2	3.8	2	4	15.4	7	19	15	2	1	0	0
Osage	163	0	0	0	0.0	7	10	10.4	23	62	49	9	3	0	0
Osborne	44	0	0	0	0.0	1	3	9.1	8	16	12	4	0	0	0
Ottawa	61	0	1	0	1.6	2	2	8.2	6	26	21	2	1	0	0
Pawnee	65	0	0	0	0.0	0	3	4.6	9	29	19	5	0	0	0
Phillips	47	0	0	1	2.1	1	4	12.8	4	14	19	4	0	0	0
Pottawatomie	338	0	2	1	0.9	2	10	4.4	49	120	105	40	8	1	0
Pratt	99	1	0	1	2.0	0	5	7.1	15	50	21	6	0	0	0
Rawlins	22	0	0	0	0.0	1	1	9.1	4	11	4	1	0	0	0
Reno	630	0	5	12	2.7	14	22	8.4	92	236	184	57	8	0	0
Republic	45	0	0	2	4.4	0	0	4.4	4	24	13	2	0	0	0
Rice	98	1	0	2	3.1	0	5	8.2	16	41	23	8	2	0	0
Riley	796	3	7	2	1.5	14	31	7.2	134	298	222	75	10	0	0
Rooks	47	0	0	0	0.0	2	1	6.4	12	19	7	5	1	0	0
Rush	29	0	0	0	0.0	0	1	3.4	7	12	4	4	1	0	0
Russell	69	0	1	0	1.4	0	0	1.4	13	26	21	5	2	1	0
Saline	677	1	3	3	1.0	12	17	5.3	116	283	194	44	4	0	0
Scott	75	1	0	0	1.3	2	5	10.7	15	26	23	3	0	0	0
Sedgwick	6,736	9	45	57	1.6	107	356	8.5	1,229	2,632	1,759	464	70	8	0
Seward	387	1	0	0	0.3	2	23	6.7	63	156	117	23	2	0	0
Shawnee	2,113	2	16	9	1.3	30	84	6.7	376	823	561	172	32	8	0
Sheridan	35	0	0	0	0.0	0	0	0.0	7	18	9	1	0	0	0
Sherman	80	0	0	1	1.3	0	3	5.0	23	37	13	3	0	0	0
Smith	35	0	0	0	0.0	0	1	2.9	6	12	14	2	0	0	0
Stafford	51	0	0	1	2.0	0	2	5.9	12	19	13	3	1	0	0
Stanton	23	0	1	1	8.7	0	1	13.0	5	5	8	2	0	0	0
Stevens	59	0	1	0	1.7	0	3	6.8	12	19	17	5	2	0	0
Sumner	263	1	0	4	1.9	3	9	6.5	38	102	78	27	1	0	0
Thomas	97	1	1	1	3.1	0	4	7.2	19	37	28	5	1	0	0
Trego	29	0	0	2	6.9	0	1	10.3	2	14	10	0	0	0	0
Wabaunsee	92	1	0	0	1.1	2	2	5.4	14	32	31	10	0	0	0
Wallace	14	0	0	0	0.0	0	3	21.4	2	2	7	0	0	0	0
Washington	67	0	0	0	0.0	1	2	4.5	6	27	22	8	1	0	0
Wichita	27	0	0	1	3.7	1	1	11.1	9	8	6	1	0	0	0
Wilson	92	0	1	2	3.3	1	4	8.7	27	36	16	5	0	0	0
Woodson	34	0	1	1	5.9	2	1	14.7	6	15	6	2	0	0	0
Wyandotte	2,612	8	16	20	1.7	41	171	9.8	543	999	635	157	21	1	0
n.s.	2	0	0	0	n/a	0	0	n/a	0	2	0	0	0	0	0
Peer Group															
Frontier	1,171	1	4	11	1.4	19	50	7.3	214	462	328	74	8	0	0
Rural	2,575	8	10	20	1.5	32	113	7.1	418	1,022	750	185	15	2	0
Densely -Settled Rural	5,806	12	21	39	1.2	76	286	7.5	1,033	2,327	1,525	417	61	8	1
Semi-Urban	5,456	9	26	38	1.3	94	225	7.2	944	2,086	1,537	443	51	3	0
Urban	20,385	29	118	146	1.4	297	1,005	7.8	3,610	7,800	5,621	1,516	219	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, 2019

County of Residence	Live Births	Initiated Breastfeeding		Did Not Initiate Breastfeeding		n.s.‡
		Number	Percent	Number	Percent	
Kansas	35,395	31,339	88.9	3,895	11.1	161
Allen	131	95	73.1	35	26.9	1
Anderson	88	86	97.7	2	2.3	0
Atchison	192	150	78.5	41	21.5	1
Barber	47	43	91.5	4	8.5	0
Barton	307	273	89.2	33	10.8	1
Bourbon	200	152	76.8	46	23.2	2
Brown	113	90	81.1	21	18.9	2
Butler	708	641	91.1	63	8.9	4
Chase	24	22	91.7	2	8.3	0
Chautauqua	34	27	79.4	7	20.6	0
Cherokee	222	178	82.0	39	18.0	5
Cheyenne	31	25	80.6	6	19.4	0
Clark	28	25	89.3	3	10.7	0
Clay	75	68	90.7	7	9.3	0
Cloud	110	98	89.1	12	10.9	0
Coffey	92	75	83.3	15	16.7	2
Comanche	15	12	80.0	3	20.0	0
Cowley	392	311	79.7	79	20.3	2
Crawford	437	334	76.6	102	23.4	1
Decatur	24	20	83.3	4	16.7	0
Dickinson	199	171	86.4	27	13.6	1
Doniphan	72	59	83.1	12	16.9	1
Douglas	1,088	991	91.3	95	8.7	2
Edwards	30	27	90.0	3	10.0	0
Elk	19	16	84.2	3	15.8	0
Ellis	283	259	91.5	24	8.5	0
Ellsworth	62	50	80.6	12	19.4	0
Finney	576	498	87.2	73	12.8	5
Ford	628	500	80.0	125	20.0	3
Franklin	261	232	88.9	29	11.1	0
Geary	911	819	90.2	89	9.8	3
Gove	37	35	94.6	2	5.4	0
Graham	18	17	94.4	1	5.6	0
Grant	106	89	84.8	16	15.2	1
Gray	81	73	90.1	8	9.9	0
Greeley	18	16	88.9	2	11.1	0
Greenwood	53	49	92.5	4	7.5	0
Hamilton	41	36	87.8	5	12.2	0
Harper	72	65	90.3	7	9.7	0
Harvey	389	361	93.3	26	6.7	2
Haskell	67	61	91.0	6	9.0	0
Hodgeman	15	12	80.0	3	20.0	0
Jackson	166	139	84.2	26	15.8	1
Jefferson	176	158	90.3	17	9.7	1
Jewell	23	20	87.0	3	13.0	0
Johnson	6,949	6,620	95.8	293	4.2	36
Kearny	61	55	90.2	6	9.8	0
Kingman	73	72	98.6	1	1.4	0
Kiowa	13	11	84.6	2	15.4	0
Labette	257	185	72.5	70	27.5	2
Lane	7	7	100.0	0	0.0	0
Leavenworth	887	822	93.2	60	6.8	5
Lincoln	24	21	87.5	3	12.5	0
Linn	105	91	86.7	14	13.3	0
Logan	31	23	74.2	8	25.8	0

Table C16  
Live Births by County of Residence and Peer Group\*  
by Initiation of Breastfeeding†  
Kansas, 2019

County of Residence	Live Births	Initiated Breastfeeding		Did Not Initiate Breastfeeding		n.s.‡
		Number	Percent	Number	Percent	
Lyon	362	291	80.8	69	19.2	2
McPherson	290	267	92.1	23	7.9	0
Marion	124	116	95.1	6	4.9	2
Marshall	116	100	88.5	13	11.5	3
Meade	61	53	88.3	7	11.7	1
Miami	325	299	92.6	24	7.4	2
Mitchell	78	70	89.7	8	10.3	0
Montgomery	322	220	69.2	98	30.8	4
Morris	35	33	94.3	2	5.7	0
Morton	53	45	84.9	8	15.1	0
Nemaha	126	111	88.1	15	11.9	0
Neosho	202	159	79.1	42	20.9	1
Ness	28	24	85.7	4	14.3	0
Norton	52	43	82.7	9	17.3	0
Osage	163	133	82.1	29	17.9	1
Osborne	44	37	84.1	7	15.9	0
Ottawa	61	49	83.1	10	16.9	2
Pawnee	65	53	81.5	12	18.5	0
Phillips	47	46	97.9	1	2.1	0
Pottawatomie	338	319	94.9	17	5.1	2
Pratt	99	89	90.8	9	9.2	1
Rawlins	22	20	90.9	2	9.1	0
Reno	630	537	85.6	90	14.4	3
Republic	45	38	88.4	5	11.6	2
Rice	98	89	90.8	9	9.2	0
Riley	796	710	89.4	84	10.6	2
Rooks	47	42	89.4	5	10.6	0
Rush	29	24	82.8	5	17.2	0
Russell	69	63	91.3	6	8.7	0
Saline	677	584	86.4	92	13.6	1
Scott	75	69	92.0	6	8.0	0
Sedgwick	6,736	6,039	89.9	679	10.1	18
Seward	387	284	73.6	102	26.4	1
Shawnee	2,113	1,793	85.3	308	14.7	12
Sheridan	35	29	87.9	4	12.1	2
Sherman	80	67	83.8	13	16.3	0
Smith	35	35	100.0	0	0.0	0
Stafford	51	44	88.0	6	12.0	1
Stanton	23	17	73.9	6	26.1	0
Stevens	59	47	81.0	11	19.0	1
Sumner	263	226	86.3	36	13.7	1
Thomas	97	71	73.2	26	26.8	0
Trego	29	26	89.7	3	10.3	0
Wabaunsee	92	79	86.8	12	13.2	1
Wallace	14	12	85.7	2	14.3	0
Washington	67	61	91.0	6	9.0	0
Wichita	27	27	100.0	0	0.0	0
Wilson	92	63	68.5	29	31.5	0
Woodson	34	21	61.8	13	38.2	0
Wyandotte	2,612	2,278	87.6	323	12.4	11
n.s.	2	2	n/a	0	n/a	0
Peer Group						
Frontier	1,171	1,021	87.5	146	12.5	4
Rural	2,575	2,229	87.1	329	12.9	17
Densely -Settled Rural	5,806	4,807	83.3	965	16.7	34
Semi-Urban	5,456	4,737	87.2	697	12.8	22
Urban	20,385	18,543	91.3	1,758	8.7	84

\* 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, 2019

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		n.s.
						Number	Percent	
Kansas	35,395	3,607	2,944	2,618	2,514	2,994	8.5	115
Allen	131	36	33	28	27	33	25.6	2
Anderson	88	13	9	9	9	10	11.5	1
Atchison	192	29	22	23	24	24	12.7	3
Barber	47	8	7	7	7	7	14.9	0
Barton	307	49	36	25	26	37	12.1	1
Bourbon	200	42	37	31	28	37	18.6	1
Brown	113	24	20	18	18	23	20.4	0
Butler	708	88	82	70	67	82	11.6	1
Chase	24	7	7	7	7	7	29.2	0
Chautauqua	34	8	6	5	5	6	17.6	0
Cherokee	222	52	37	34	33	38	17.4	4
Cheyenne	31	3	1	1	1	1	3.3	1
Clark	28	2	2	2	2	2	7.4	1
Clay	75	8	8	5	5	8	10.7	0
Cloud	110	20	18	16	14	18	16.5	1
Coffey	92	17	12	10	8	12	13.2	1
Comanche	15	0	0	0	0	0	0.0	0
Cowley	392	60	50	46	45	52	13.3	0
Crawford	437	72	60	57	53	60	13.9	5
Decatur	24	3	3	3	3	4	16.7	0
Dickinson	199	47	31	22	23	32	16.1	0
Doniphan	72	8	5	4	5	6	8.5	1
Douglas	1,088	91	76	58	54	79	7.3	3
Edwards	30	2	1	1	1	1	3.3	0
Elk	19	2	2	1	2	2	10.5	0
Ellis	283	42	31	27	27	33	11.7	0
Ellsworth	62	20	18	15	12	18	29.5	1
Finney	576	39	28	21	21	28	4.9	3
Ford	628	17	12	11	9	12	1.9	3
Franklin	261	40	31	27	27	32	12.4	2
Geary	911	135	77	63	60	78	8.6	1
Gove	37	3	1	1	0	1	2.8	1
Graham	18	5	5	3	3	5	27.8	0
Grant	106	2	1	1	1	1	0.9	0
Gray	81	7	5	4	4	5	6.2	0
Greeley	18	0	0	0	0	0	0.0	0
Greenwood	53	12	10	9	9	10	18.9	0
Hamilton	41	2	1	1	1	1	2.6	2
Harper	72	9	9	8	8	9	12.5	0
Harvey	389	56	37	36	37	38	9.8	1
Haskell	67	6	4	4	4	4	6.0	0
Hodgeman	15	1	0	0	0	0	0.0	0
Jackson	166	26	19	18	15	19	11.5	1
Jefferson	176	20	12	11	12	12	6.9	1
Jewell	23	5	5	5	4	5	22.7	1
Johnson	6,949	199	162	128	118	163	2.4	16
Kearny	61	0	0	0	0	0	0.0	1
Kingman	73	7	6	5	4	6	8.2	0
Kiowa	13	1	1	0	0	1	7.7	0
Labette	257	52	42	40	37	43	16.8	1
Lane	7	0	0	0	0	0	0.0	0
Leavenworth	887	75	61	55	51	62	7.0	2
Lincoln	24	3	3	2	2	3	12.5	0
Linn	105	18	14	13	12	14	13.3	0
Logan	31	8	4	3	3	4	12.9	0

Table C17  
Live Births by County of Residence and Peer Group\*  
by Mother's Reported Cigarette Use  
Kansas, 2019

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		n.s.
						Number	Percent	
Lyon	362	37	25	24	24	27	7.5	1
McPherson	290	32	21	16	16	21	7.3	1
Marion	124	22	14	13	13	14	11.3	0
Marshall	116	11	8	8	8	8	6.9	0
Meade	61	3	3	3	2	3	4.9	0
Miami	325	33	28	25	24	28	8.6	1
Mitchell	78	16	12	12	11	12	15.4	0
Montgomery	322	63	50	45	45	53	16.7	5
Morris	35	5	4	3	3	4	11.4	0
Morton	53	6	5	5	5	5	9.4	0
Nemaha	126	13	9	8	7	10	7.9	0
Neosho	202	34	29	27	25	29	14.4	1
Ness	28	5	5	3	3	5	17.9	0
Norton	52	13	10	9	9	10	19.6	1
Osage	163	22	15	13	12	16	9.9	2
Osborne	44	7	5	5	5	5	11.4	0
Ottawa	61	9	8	7	7	8	13.1	0
Pawnee	65	19	12	11	11	12	18.5	0
Phillips	47	4	3	3	3	3	6.4	0
Pottawatomie	338	28	20	16	15	20	5.9	0
Pratt	99	20	19	15	13	19	19.2	0
Rawlins	22	1	1	1	1	1	4.8	1
Reno	630	109	89	75	67	89	14.1	1
Republic	45	6	5	4	4	5	11.1	0
Rice	98	7	4	4	4	4	4.1	0
Riley	796	76	45	36	34	47	5.9	3
Rooks	47	13	7	5	5	7	15.2	1
Rush	29	3	3	2	2	3	10.3	0
Russell	69	14	11	10	10	11	15.9	0
Saline	677	122	96	89	79	99	14.7	3
Scott	75	13	10	9	9	10	13.3	0
Sedgwick	6,736	624	621	608	602	623	9.3	13
Seward	387	23	18	16	14	18	4.7	3
Shawnee	2,113	341	270	224	216	275	13.0	3
Sheridan	35	2	1	1	1	1	2.9	0
Sherman	80	17	16	11	12	17	21.3	0
Smith	35	7	4	3	3	4	11.4	0
Stafford	51	8	4	3	3	4	7.8	0
Stanton	23	1	1	1	1	1	4.3	0
Stevens	59	6	3	3	2	4	6.9	1
Sumner	263	38	37	36	36	37	14.1	0
Thomas	97	10	8	7	5	8	8.2	0
Trego	29	1	1	0	0	1	3.4	0
Wabaunsee	92	13	10	7	6	10	10.9	0
Wallace	14	1	0	0	0	0	0.0	0
Washington	67	6	6	5	5	6	9.0	0
Wichita	27	2	2	2	2	2	8.0	2
Wilson	92	33	31	29	28	31	33.7	0
Woodson	34	8	8	8	7	8	23.5	0
Wyandotte	2,612	197	161	152	145	166	6.4	9
n.s.	2	2	2	2	2	2	n/a	0
Peer Group								
Frontier	1,171	152	117	96	95	119	10.3	11
Rural	2,575	399	319	283	264	325	12.7	6
Densely -Settled Rural	5,806	733	560	489	474	574	9.9	29
Semi-Urban	5,456	794	595	523	493	606	11.2	23
Urban	20,385	1,527	1,351	1,225	1,186	1,368	6.7	46

\* See Technical Notes for Peer Group definition.



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Table C18  
Live Births by County of Residence and Peer Group\*  
by Birth Weight Category for Gestational Age<sup>†</sup>  
Kansas, 2019

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	35,395	31,874	90.1	3,498	9.9	23
Allen	131	112	85.5	19	14.5	0
Anderson	88	80	90.9	8	9.1	0
Atchison	192	174	90.6	18	9.4	0
Barber	47	47	100.0	0	0.0	0
Barton	307	285	92.8	22	7.2	0
Bourbon	200	179	90.9	18	9.1	3
Brown	113	99	87.6	14	12.4	0
Butler	708	643	90.9	64	9.1	1
Chase	24	21	87.5	3	12.5	0
Chautauqua	34	34	100.0	0	0.0	0
Cherokee	222	203	91.4	19	8.6	0
Cheyenne	31	27	87.1	4	12.9	0
Clark	28	26	92.9	2	7.1	0
Clay	75	70	93.3	5	6.7	0
Cloud	110	98	89.1	12	10.9	0
Coffey	92	85	92.4	7	7.6	0
Comanche	15	15	100.0	0	0.0	0
Cowley	392	345	88.2	46	11.8	1
Crawford	437	398	91.1	39	8.9	0
Decatur	24	22	91.7	2	8.3	0
Dickinson	199	178	89.4	21	10.6	0
Doniphan	72	65	90.3	7	9.7	0
Douglas	1,088	963	88.5	125	11.5	0
Edwards	30	27	90.0	3	10.0	0
Elk	19	19	100.0	0	0.0	0
Ellis	283	261	92.2	22	7.8	0
Ellsworth	62	56	90.3	6	9.7	0
Finney	576	484	84.3	90	15.7	2
Ford	628	551	87.9	76	12.1	1
Franklin	261	237	90.8	24	9.2	0
Geary	911	803	88.2	107	11.8	1
Gove	37	35	94.6	2	5.4	0
Graham	18	14	77.8	4	22.2	0
Grant	106	99	93.4	7	6.6	0
Gray	81	75	92.6	6	7.4	0
Greeley	18	16	88.9	2	11.1	0
Greenwood	53	49	92.5	4	7.5	0
Hamilton	41	38	92.7	3	7.3	0
Harper	72	59	81.9	13	18.1	0
Harvey	389	352	90.5	37	9.5	0
Haskell	67	59	88.1	8	11.9	0
Hodgeman	15	13	86.7	2	13.3	0
Jackson	166	151	91.5	14	8.5	1
Jefferson	176	153	86.9	23	13.1	0
Jewell	23	21	91.3	2	8.7	0
Johnson	6,949	6,316	90.9	631	9.1	2
Kearny	61	52	85.2	9	14.8	0
Kingman	73	68	93.2	5	6.8	0
Kiowa	13	11	84.6	2	15.4	0
Labette	257	233	91.0	23	9.0	1
Lane	7	6	85.7	1	14.3	0
Leavenworth	887	800	90.2	87	9.8	0
Lincoln	24	21	87.5	3	12.5	0
Linn	105	102	97.1	3	2.9	0
Logan	31	28	90.3	3	9.7	0

Table C18  
Live Births by County of Residence and Peer Group\*  
by Birth Weight Category for Gestational Age†  
Kansas, 2019

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	362	333	92.0	29	8.0	0
McPherson	290	273	94.1	17	5.9	0
Marion	124	115	92.7	9	7.3	0
Marshall	116	106	91.4	10	8.6	0
Meade	61	52	85.2	9	14.8	0
Miami	325	292	89.8	33	10.2	0
Mitchell	78	71	91.0	7	9.0	0
Montgomery	322	286	89.1	35	10.9	1
Morris	35	34	97.1	1	2.9	0
Morton	53	50	94.3	3	5.7	0
Nemaha	126	109	86.5	17	13.5	0
Neosho	202	182	90.1	20	9.9	0
Ness	28	25	89.3	3	10.7	0
Norton	52	46	88.5	6	11.5	0
Osage	163	150	92.0	13	8.0	0
Osborne	44	39	88.6	5	11.4	0
Ottawa	61	55	90.2	6	9.8	0
Pawnee	65	61	93.8	4	6.2	0
Phillips	47	43	91.5	4	8.5	0
Pottawatomie	338	309	91.4	29	8.6	0
Pratt	99	87	87.9	12	12.1	0
Rawlins	22	20	90.9	2	9.1	0
Reno	630	573	91.0	57	9.0	0
Republic	45	44	97.8	1	2.2	0
Rice	98	86	87.8	12	12.2	0
Riley	796	707	88.9	88	11.1	1
Rooks	47	42	89.4	5	10.6	0
Rush	29	27	93.1	2	6.9	0
Russell	69	61	88.4	8	11.6	0
Saline	677	634	93.6	43	6.4	0
Scott	75	66	88.0	9	12.0	0
Sedgwick	6,736	6,068	90.1	668	9.9	0
Seward	387	331	86.4	52	13.6	4
Shawnee	2,113	1,935	91.7	176	8.3	2
Sheridan	35	32	91.4	3	8.6	0
Sherman	80	67	83.8	13	16.3	0
Smith	35	33	94.3	2	5.7	0
Stafford	51	45	88.2	6	11.8	0
Stanton	23	20	87.0	3	13.0	0
Stevens	59	52	88.1	7	11.9	0
Sumner	263	241	91.6	22	8.4	0
Thomas	97	87	89.7	10	10.3	0
Trego	29	28	96.6	1	3.4	0
Wabaunsee	92	84	91.3	8	8.7	0
Wallace	14	10	71.4	4	28.6	0
Washington	67	61	91.0	6	9.0	0
Wichita	27	24	88.9	3	11.1	0
Wilson	92	80	87.9	11	12.1	1
Woodson	34	31	91.2	3	8.8	0
Wyandotte	2,612	2,287	87.6	324	12.4	1
n.s.	2	2	n/a	0	n/a	0
Peer Group						
Frontier	1,171	1,056	90.2	115	9.8	0
Rural	2,575	2,329	90.5	245	9.5	1
Densely -Settled Rural	5,806	5,193	89.6	600	10.4	13
Semi-Urban	5,456	4,925	90.3	527	9.7	4
Urban	20,385	18,369	90.1	2,011	9.9	5

\* See Technical Notes for Peer Group definition.

† See technical notes

Table C19  
 Mother's Weight Gain in Pregnancy for Singleton Births  
 by County of Residence and Peer Group\*  
 Kansas, 2019

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	34,292	7,380	21.7	10,575	31.1	16,027	47.2	310
Allen	125	29	23.6	32	26.0	62	50.4	2
Anderson	88	25	28.7	25	28.7	37	42.5	1
Atchison	186	40	21.7	55	29.9	89	48.4	2
Barber	47	7	15.2	20	43.5	19	41.3	1
Barton	297	66	22.4	76	25.9	152	51.7	3
Bourbon	197	62	32.0	46	23.7	86	44.3	3
Brown	113	27	24.3	30	27.0	54	48.6	2
Butler	680	129	19.1	209	31.0	336	49.9	6
Chase	24	9	37.5	3	12.5	12	50.0	0
Chautauqua	32	6	18.8	11	34.4	15	46.9	0
Cherokee	214	49	23.3	64	30.5	97	46.2	4
Cheyenne	31	9	30.0	10	33.3	11	36.7	1
Clark	28	6	21.4	10	35.7	12	42.9	0
Clay	73	16	21.9	25	34.2	32	43.8	0
Cloud	110	27	24.8	36	33.0	46	42.2	1
Coffey	90	13	14.8	22	25.0	53	60.2	2
Comanche	15	2	13.3	5	33.3	8	53.3	0
Cowley	385	97	25.3	132	34.5	154	40.2	2
Crawford	431	101	23.7	146	34.2	180	42.2	4
Decatur	24	7	29.2	7	29.2	10	41.7	0
Dickinson	191	42	22.3	52	27.7	94	50.0	3
Doniphan	68	9	13.2	22	32.4	37	54.4	0
Douglas	1,057	236	22.6	317	30.4	491	47.0	13
Edwards	30	13	43.3	8	26.7	9	30.0	0
Elk	19	6	31.6	6	31.6	7	36.8	0
Ellis	273	46	16.8	97	35.5	130	47.6	0
Ellsworth	60	12	20.0	18	30.0	30	50.0	0
Finney	554	190	34.6	176	32.1	183	33.3	5
Ford	605	233	38.6	157	26.0	213	35.3	2
Franklin	245	65	26.5	77	31.4	103	42.0	0
Geary	885	202	23.1	263	30.0	411	46.9	9
Gove	35	8	22.9	9	25.7	18	51.4	0
Graham	18	6	33.3	6	33.3	6	33.3	0
Grant	104	34	32.7	27	26.0	43	41.3	0
Gray	81	21	25.9	23	28.4	37	45.7	0
Greeley	18	3	17.6	8	47.1	6	35.3	1
Greenwood	49	16	32.7	11	22.4	22	44.9	0
Hamilton	39	11	28.2	12	30.8	16	41.0	0
Harper	72	18	25.0	20	27.8	34	47.2	0
Harvey	373	85	22.8	107	28.8	180	48.4	1
Haskell	65	21	32.3	16	24.6	28	43.1	0
Hodgeman	15	3	20.0	4	26.7	8	53.3	0
Jackson	162	26	16.1	49	30.4	86	53.4	1
Jefferson	162	33	20.5	49	30.4	79	49.1	1
Jewell	21	5	23.8	7	33.3	9	42.9	0
Johnson	6,729	1,287	19.3	2,316	34.8	3,057	45.9	69
Kearny	59	13	22.0	22	37.3	24	40.7	0
Kingman	73	16	21.9	21	28.8	36	49.3	0
Kiowa	13	1	7.7	4	30.8	8	61.5	0
Labelle	251	67	26.9	78	31.3	104	41.8	2
Lane	7	2	28.6	0	0.0	5	71.4	0
Leavenworth	861	141	16.5	256	29.9	458	53.6	6
Lincoln	22	3	13.6	4	18.2	15	68.2	0
Linn	99	17	18.1	33	35.1	44	46.8	5
Logan	31	8	25.8	7	22.6	16	51.6	0

Table C19  
 Mother's Weight Gain in Pregnancy for Singleton Births  
 by County of Residence and Peer Group\*  
 Kansas, 2019

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	354	78	22.3	98	28.0	174	49.7	4
McPherson	280	68	24.5	76	27.3	134	48.2	2
Marion	110	25	22.9	37	33.9	47	43.1	1
Marshall	108	20	18.5	31	28.7	57	52.8	0
Meade	57	11	19.3	18	31.6	28	49.1	0
Miami	319	55	17.6	114	36.5	143	45.8	7
Mitchell	73	21	29.2	22	30.6	29	40.3	1
Montgomery	314	90	28.9	74	23.8	147	47.3	3
Morris	33	8	25.0	9	28.1	15	46.9	1
Morton	49	17	34.7	8	16.3	24	49.0	0
Nemaha	124	20	16.3	45	36.6	58	47.2	1
Neosho	200	69	34.5	65	32.5	66	33.0	0
Ness	26	7	26.9	7	26.9	12	46.2	0
Norton	48	16	33.3	13	27.1	19	39.6	0
Osage	157	29	19.0	49	32.0	75	49.0	4
Osborne	42	8	19.0	8	19.0	26	61.9	0
Ottawa	58	7	12.1	21	36.2	30	51.7	0
Pawnee	65	9	13.8	24	36.9	32	49.2	0
Phillips	47	9	19.1	17	36.2	21	44.7	0
Pottawatomie	328	63	19.3	106	32.5	157	48.2	2
Pratt	95	16	16.8	32	33.7	47	49.5	0
Rawlins	22	1	4.5	11	50.0	10	45.5	0
Reno	615	155	25.3	170	27.7	288	47.0	2
Republic	43	10	23.3	14	32.6	19	44.2	0
Rice	96	20	20.8	25	26.0	51	53.1	0
Riley	776	157	20.3	226	29.3	389	50.4	4
Rooks	45	12	26.7	11	24.4	22	48.9	0
Rush	29	4	13.8	13	44.8	12	41.4	0
Russell	69	21	30.9	16	23.5	31	45.6	1
Saline	663	151	22.9	214	32.5	294	44.6	4
Scott	74	22	30.1	19	26.0	32	43.8	1
Sedgwick	6,510	1,183	18.3	2,016	31.2	3,269	50.5	42
Seward	383	120	32.2	105	28.2	148	39.7	10
Shawnee	2,051	431	21.2	549	27.0	1,056	51.9	15
Sheridan	35	1	2.9	10	28.6	24	68.6	0
Sherman	80	15	19.7	30	39.5	31	40.8	4
Smith	35	7	20.0	9	25.7	19	54.3	0
Stafford	51	8	15.7	17	33.3	26	51.0	0
Stanton	22	10	45.5	8	36.4	4	18.2	0
Stevens	59	16	27.6	15	25.9	27	46.6	1
Sumner	253	41	16.3	83	32.9	128	50.8	1
Thomas	97	26	27.1	25	26.0	45	46.9	1
Trego	27	9	33.3	10	37.0	8	29.6	0
Wabaunsee	90	11	12.6	24	27.6	52	59.8	3
Wallace	12	4	40.0	4	40.0	2	20.0	2
Washington	64	9	14.1	23	35.9	32	50.0	0
Wichita	25	8	32.0	2	8.0	15	60.0	0
Wilson	90	23	25.8	26	29.2	40	44.9	1
Woodson	32	5	16.1	13	41.9	13	41.9	1
Wyandotte	2,519	627	25.3	767	30.9	1,086	43.8	39
n.s.	2	1	n/a	0	n/a	1	n/a	0
Peer Group								
Frontier	1,134	266	23.6	340	30.2	519	46.1	9
Rural	2,503	561	22.6	747	30.1	1,171	47.2	24
Densely -Settled Rural	5,625	1,457	26.1	1,667	29.9	2,448	43.9	53
Semi-Urban	5,301	1,190	22.6	1,600	30.4	2,471	47.0	40
Urban	19,727	3,905	20.0	6,221	31.8	9,417	48.2	184

\* See Technical Notes for Peer Group definition.

†includes births where height, pre-pregnancy weight or weight at delivery are unknown  
 Weight gain based on pre-pregnancy BMI category

Table C20  
Live Births by County of Residence and Peer Group\*  
by Population Group of Mother  
Kansas, 2019

County of Residence	Total	Population Group							n.s.
		White Non-Hispanic	Black Non-Hispanic	Native American Non-Hispanic	Asian/Pacific Islander Non-Hispanic	Other Non-Hispanic†	Hispanic Any Race		
Kansas	35,395	24,400	2,419	147	1,225	1,098	6,069	37	
Allen	131	124	0	0	1	3	3	0	
Anderson	88	85	0	0	0	1	2	0	
Atchison	192	169	5	1	1	7	8	1	
Barber	47	42	0	0	0	2	3	0	
Barton	307	213	3	0	3	7	81	0	
Bourbon	200	178	6	1	2	10	3	0	
Brown	113	79	1	20	1	4	8	0	
Butler	708	632	12	0	12	22	29	1	
Chase	24	23	0	0	0	1	0	0	
Chautauqua	34	29	0	1	1	2	1	0	
Cherokee	222	190	1	7	1	16	7	0	
Cheyenne	31	29	0	0	0	0	2	0	
Clark	28	23	0	0	0	0	5	0	
Clay	75	71	0	0	0	0	4	0	
Cloud	110	104	0	0	0	2	4	0	
Coffey	92	87	0	0	1	2	2	0	
Comanche	15	14	0	0	0	0	1	0	
Cowley	392	288	4	5	10	9	76	0	
Crawford	437	367	9	2	7	7	45	0	
Decatur	24	24	0	0	0	0	0	0	
Dickinson	199	179	0	0	1	4	15	0	
Doniphan	72	67	0	0	0	1	4	0	
Douglas	1,088	828	48	20	66	39	85	2	
Edwards	30	19	0	0	0	0	11	0	
Elk	19	18	0	0	0	1	0	0	
Ellis	283	256	3	0	2	5	17	0	
Ellsworth	62	55	0	0	1	1	5	0	
Finney	576	174	34	1	22	19	326	0	
Ford	628	140	20	2	6	6	453	1	
Franklin	261	241	1	1	0	3	15	0	
Geary	911	496	157	3	35	47	171	2	
Gove	37	33	0	0	1	0	3	0	
Graham	18	15	0	0	1	0	2	0	
Grant	106	36	2	0	0	0	68	0	
Gray	81	64	1	0	1	1	14	0	
Greeley	18	15	0	0	1	0	1	1	
Greenwood	53	49	0	0	0	2	2	0	
Hamilton	41	20	0	0	0	0	21	0	
Harper	72	62	0	0	0	0	10	0	
Harvey	389	318	6	1	2	12	50	0	
Haskell	67	46	0	0	0	0	21	0	
Hodgeman	15	13	1	0	0	0	1	0	
Jackson	166	124	0	13	0	9	20	0	
Jefferson	176	163	1	0	2	7	3	0	
Jewell	23	22	0	0	0	0	1	0	
Johnson	6,949	5,249	358	9	442	190	691	10	
Kearny	61	32	1	0	0	0	28	0	
Kingman	73	67	0	0	0	0	6	0	
Kiowa	13	12	0	0	0	1	0	0	
Labette	257	217	9	3	0	5	23	0	
Lane	7	3	0	0	0	0	4	0	
Leavenworth	887	698	63	1	14	32	78	1	
Lincoln	24	23	0	0	0	0	1	0	
Linn	105	95	0	0	2	5	3	0	
Logan	31	27	0	0	0	0	4	0	

Table C20  
Live Births by County of Residence and Peer Group\*  
by Population Group of Mother  
Kansas, 2019

County of Residence	Total	Population Group							n.s.
		White Non-Hispanic	Black Non-Hispanic	Native American Non-Hispanic	Asian/Pacific Islander Non-Hispanic	Other Non-Hispanic†	Hispanic Any Race		
Lyon	362	243	8	1	5	5	99	1	
McPherson	290	262	1	1	1	5	20	0	
Marion	124	117	0	0	0	1	6	0	
Marshall	116	106	1	1	0	2	6	0	
Meade	61	45	0	0	0	0	16	0	
Miami	325	301	2	0	2	4	15	1	
Mitchell	78	73	0	0	0	1	4	0	
Montgomery	322	237	18	9	2	18	38	0	
Morris	35	33	0	0	1	0	1	0	
Morton	53	36	0	0	1	3	13	0	
Nemaha	126	115	1	0	0	5	5	0	
Neosho	202	191	2	0	1	1	7	0	
Ness	28	20	0	0	1	0	7	0	
Norton	52	46	0	0	1	0	5	0	
Osage	163	147	0	0	2	4	10	0	
Osborne	44	42	0	0	0	1	1	0	
Ottawa	61	56	1	0	0	3	1	0	
Pawnee	65	53	2	0	1	0	8	1	
Phillips	47	43	0	0	0	0	4	0	
Pottawatomie	338	316	2	0	3	5	12	0	
Pratt	99	89	1	1	0	1	7	0	
Rawlins	22	20	1	0	0	1	0	0	
Reno	630	519	13	1	4	17	76	0	
Republic	45	42	0	0	1	2	0	0	
Rice	98	76	0	0	0	2	19	1	
Riley	796	529	73	0	44	43	105	2	
Rooks	47	40	0	0	0	1	5	1	
Rush	29	28	0	0	0	0	1	0	
Russell	69	66	0	0	0	2	1	0	
Saline	677	502	15	0	14	23	123	0	
Scott	75	57	0	0	1	1	15	1	
Sedgwick	6,736	4,167	767	13	291	228	1,267	3	
Seward	387	69	7	2	8	5	296	0	
Shawnee	2,113	1,335	206	19	43	112	395	3	
Sheridan	35	29	0	0	1	0	5	0	
Sherman	80	73	1	0	0	0	5	1	
Smith	35	31	1	0	0	2	1	0	
Stafford	51	41	0	0	0	0	10	0	
Stanton	23	11	0	0	0	0	12	0	
Stevens	59	25	0	1	0	0	33	0	
Sumner	263	248	2	0	1	1	11	0	
Thomas	97	80	1	0	1	0	15	0	
Trego	29	28	0	0	0	0	1	0	
Wabaunsee	92	86	1	1	0	0	4	0	
Wallace	14	14	0	0	0	0	0	0	
Washington	67	63	0	0	1	0	3	0	
Wichita	27	15	0	0	0	0	12	0	
Wilson	92	87	0	1	0	1	3	0	
Woodson	34	30	0	1	0	0	3	0	
Wyandotte	2,612	869	546	4	155	113	922	3	
n.s.	2	2	0	0	0	0	0	0	
Peer Group									
Frontier	1,171	958	5	1	7	17	180	3	
Rural	2,575	2,194	12	26	13	37	290	3	
Densely -Settled Rural	5,806	3,958	108	37	72	134	1,494	3	
Semi-Urban	5,456	4,142	306	17	122	196	667	6	
Urban	20,385	13,146	1,988	66	1,011	714	3,438	22	

\* 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, 2015-2019

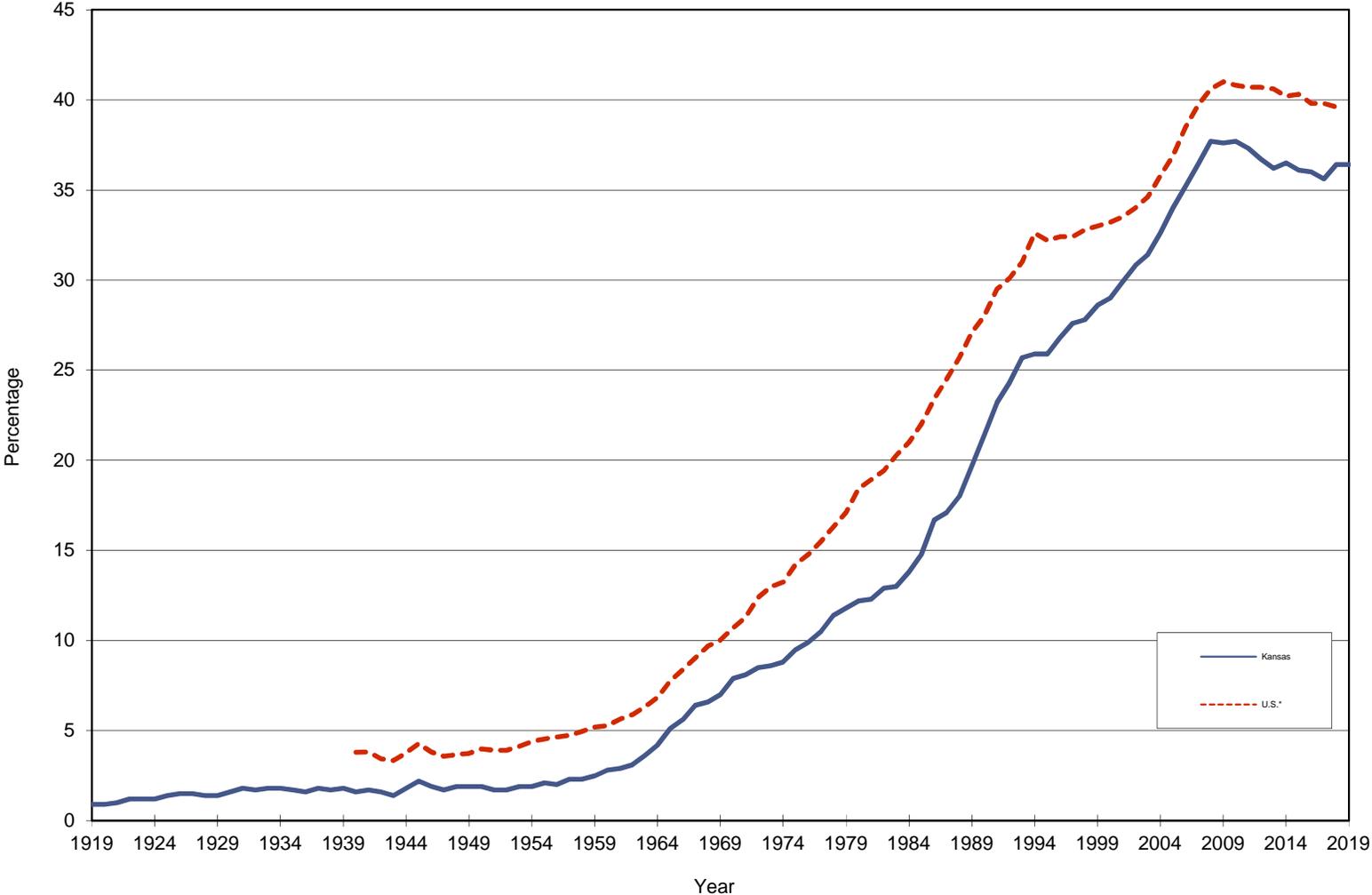
City of Residence	Year										5-Year Rate
	2015		2016		2017		2018		2019		
	Number	Rate									
Abilene	89	13.6	92	14.2	62	9.7	66	10.5	77	12.4	12.1
Andover	164	12.9	181	13.9	191	14.6	166	12.5	175	13.1	13.4
Arkansas City	191	15.7	184	15.3	181	15.3	182	15.4	187	16.0	15.5
Atchison	157	14.7	153	14.3	132	12.4	139	13.2	145	13.8	13.7
Augusta	127	13.7	122	13.1	137	14.6	103	11.0	111	11.9	12.8
Baldwin City	46	9.9	44	9.4	36	7.8	49	10.4	47	10.0	9.5
Basehor	61	11.3	81	14.3	84	14.0	103	16.6	77	11.9	13.6
Baxter Springs	57	14.2	52	13.1	50	12.6	48	12.2	46	11.7	12.8
Bel Aire	96	12.9	78	10.2	102	12.9	72	8.9	80	9.6	10.9
Beloit	50	13.2	51	13.5	39	10.5	54	14.5	40	11.0	12.6
Bonner Springs	103	13.5	107	14.0	100	12.8	98	12.6	113	14.3	13.4
Burlington	27	10.3	32	12.3	33	12.9	29	11.3	22	8.7	11.1
Chanute	116	12.5	122	13.3	124	13.7	93	10.3	123	13.6	12.7
Clay Center	52	12.5	68	16.7	44	11.1	57	14.3	47	11.8	13.3
Coffeyville	137	14.2	118	12.4	121	12.8	115	12.3	116	12.5	12.8
Colby	80	14.8	82	15.1	87	16.2	71	13.4	71	13.2	14.5
Columbus	52	16.5	35	11.3	32	10.3	46	15.0	40	13.1	13.3
Concordia	74	14.2	62	12.0	67	13.1	65	13.1	49	9.8	12.5
Derby	301	12.8	346	14.6	282	11.9	323	13.1	284	11.4	12.7
De Soto	70	11.5	74	12.2	77	12.6	71	11.0	84	12.9	12.0
Dodge City	580	20.8	585	21.3	515	18.6	504	18.4	582	21.5	20.1
Edwardsville	47	10.7	46	10.5	56	12.4	47	10.5	56	12.5	11.3
El Dorado	188	14.5	167	12.7	175	13.5	158	12.2	155	12.0	13.0
Ellsworth	29	9.5	22	7.2	23	7.5	22	7.3	28	9.5	8.2
Emporia	336	13.6	343	13.8	307	12.4	327	13.2	294	12.0	13.0
Eudora	93	14.6	83	13.0	65	10.3	75	11.7	70	10.9	12.1
Eureka	34	13.9	22	9.1	20	8.3	22	9.3	19	8.1	9.8
Fairway	72	18.1	49	12.3	59	14.9	54	13.6	69	17.4	15.3
Fort Scott	118	15.1	117	15.1	111	14.2	113	14.6	109	14.2	14.6
Frontenac	44	12.9	38	11.1	33	9.7	24	7.0	40	11.8	10.5
Galena	50	17.1	51	17.7	37	12.8	36	12.5	34	11.9	14.4
Garden City	597	22.1	537	20.1	532	19.8	518	19.5	486	18.4	20.0
Gardner	367	17.6	376	17.8	344	15.9	338	15.5	292	13.3	16.0
Garnett	42	12.9	42	12.9	49	15.1	48	14.7	40	12.4	13.6
Girard	31	11.2	36	13.1	37	13.7	28	10.4	31	11.6	12.0
Goddard	100	21.2	85	18.0	101	21.3	73	15.5	60	12.5	17.7
Goodland	67	15.0	56	12.6	57	12.9	48	10.9	70	15.9	13.5
Great Bend	251	16.0	223	14.4	193	12.6	195	12.9	201	13.4	13.9
Hays	273	12.9	278	13.2	215	10.3	235	11.3	208	10.0	11.6
Haysville	187	16.7	180	16.0	140	12.4	157	13.9	151	13.3	14.5
Herington	27	11.3	32	13.5	28	12.0	33	14.3	29	12.8	12.8
Hesston	38	10.0	37	9.7	34	9.0	35	9.4	40	10.7	9.7
Hiawatha	39	12.6	36	11.7	43	13.7	48	15.3	40	12.8	13.2
Hillsboro	25	8.7	27	9.4	29	10.2	24	8.5	24	8.5	9.0
Hoisington	35	13.3	23	8.9	27	10.6	32	12.7	35	14.2	11.9
Holton	51	15.6	44	13.4	56	17.1	50	15.4	49	15.3	15.4
Hugoton	59	14.9	56	14.6	53	13.8	48	12.7	46	12.3	13.7
Hutchinson	481	11.6	462	11.2	479	11.7	440	10.8	432	10.7	11.2
Independence	171	19.1	132	15.0	110	12.6	113	13.1	84	9.9	14.0
Iola	74	13.5	61	11.2	74	13.8	88	16.6	73	13.9	13.8
Junction City	651	26.4	554	22.9	504	21.9	541	24.5	460	21.4	23.5
Kansas City	2,598	17.2	2,524	16.6	2,369	15.5	2,468	16.1	2,436	15.9	16.3

Table C21  
Live Births by Selected City of Residence  
by Number and Rate\*  
Kansas, 2015-2019

City of Residence	Year										5-Year Rate
	2015		2016		2017		2018		2019		
	Number	Rate									
Kingman	41	13.3	35	11.7	39	13.3	39	13.4	37	13.0	12.9
Lansing	100	8.5	95	8.0	81	6.8	94	7.9	93	7.8	7.8
Larned	50	12.6	48	12.3	59	15.3	44	11.7	53	14.4	13.3
Lawrence	1,107	11.8	969	10.2	950	9.8	905	9.3	899	9.2	10.0
Leavenworth	463	12.9	425	11.8	418	11.5	419	11.6	381	10.6	11.7
Leawood	271	7.8	268	7.8	249	7.2	282	8.1	275	7.9	7.8
Lenexa	652	12.4	608	11.5	630	11.8	623	11.3	626	11.3	11.6
Liberal	407	19.6	403	19.8	395	19.9	360	18.5	367	19.1	19.4
Lindsborg	24	7.1	27	8.1	30	9.2	22	6.7	26	7.9	7.8
Louisburg	66	15.4	59	13.5	69	15.4	77	17.1	58	12.7	14.8
Lyons	61	16.4	53	14.4	43	12.1	52	14.8	44	12.6	14.1
McPherson	174	13.2	154	11.7	183	13.9	144	11.0	135	10.3	12.0
Maize	69	15.8	76	17.1	70	15.4	77	16.5	76	15.4	16.0
Manhattan	692	12.3	680	12.4	660	12.0	642	11.7	577	10.6	11.8
Marysville	52	15.6	41	12.4	48	14.7	33	10.1	34	10.4	12.7
Merriam	145	12.8	120	10.7	137	12.2	149	13.3	146	13.2	12.4
Mission	175	18.4	154	16.3	140	14.9	165	17.6	144	14.5	16.3
Mission Hills	29	8.1	42	11.7	36	10.1	34	9.5	36	10.1	9.9
Mulvane	75	11.9	67	10.6	71	11.2	88	13.7	76	11.7	11.8
Newton	255	13.3	235	12.3	239	12.7	231	12.3	221	11.7	12.5
Norton	36	12.7	48	17.1	30	10.8	35	12.6	39	14.3	13.5
Olathe	1,901	14.2	1,889	13.9	1,874	13.6	1,836	13.2	1,780	12.7	13.5
Osage City	36	12.7	40	14.1	36	12.9	29	10.3	26	9.3	11.8
Osawatomie	58	13.5	48	11.1	65	15.1	61	14.3	48	11.2	13.1
Ottawa	185	14.9	173	14.0	171	13.9	168	13.7	148	12.1	13.7
Overland Park	2,260	12.1	2,187	11.6	2,169	11.3	2,131	11.1	2,092	10.7	11.4
Paola	74	13.4	72	12.9	99	17.7	69	12.2	80	14.0	14.0
Park City	116	15.2	114	14.9	131	16.9	118	15.3	132	17.0	15.9
Parsons	141	14.0	162	16.4	135	13.8	133	13.8	133	14.0	14.4
Phillipsburg	30	11.9	35	13.8	33	13.1	32	12.9	23	9.4	12.2
Pittsburg	278	13.6	285	14.0	270	13.4	262	13.0	243	12.1	13.2
Prairie Village	345	15.8	322	14.8	335	15.0	322	14.4	301	13.5	14.7
Pratt	108	15.8	91	13.4	80	11.9	86	13.0	78	12.0	13.2
Roeland Park	125	18.3	122	18.0	90	13.3	101	14.9	100	15.0	15.9
Rose Hill	58	14.5	57	14.2	55	13.8	64	16.1	49	12.3	14.2
Russell	55	12.1	51	11.3	47	10.5	64	14.3	46	10.4	11.7
Sabetha	46	17.8	38	14.7	44	17.1	39	15.2	38	14.7	15.9
St Marys	71	26.7	87	32.7	73	27.6	73	27.7	69	26.0	28.1
Salina	669	14.0	592	12.5	651	13.9	567	12.1	619	13.3	13.2
Scott City	45	11.7	51	13.1	46	11.9	51	13.4	64	17.1	13.4
Shawnee	858	13.2	863	13.2	814	12.4	773	11.7	767	11.7	12.4
Spring Hill	102	17.1	99	16.1	101	15.3	114	16.4	93	12.7	15.4
Tonganoxie	96	18.3	98	18.4	73	13.4	99	17.9	58	10.4	15.6
Topeka	1,894	14.9	1,832	14.4	1,721	13.6	1,774	14.1	1,758	14.0	14.2
Ulysses	96	15.7	111	18.4	88	14.9	104	18.1	97	17.3	16.9
Valley Center	107	14.8	110	15.0	93	12.7	89	12.2	84	11.5	13.2
Wamego	78	16.9	84	17.8	62	13.2	89	18.7	74	15.6	16.4
Wellington	114	14.3	92	11.7	110	14.1	98	12.6	97	12.7	13.1
Wichita	5,946	15.2	5,927	15.2	5,628	14.4	5,444	14.0	5,504	14.1	14.6
Winfield	151	12.4	131	10.7	150	12.4	115	9.5	108	9.0	10.8

\*Rate per 1,000 population

Percent of Births to Unmarried Mothers,  
Kansas and the U.S., 1919-2019



\*1919-1939, not available; 2019 not available

Figure C7

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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, 2019

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.
Kansas	12,883	18	1,674	4,639	3,621	1,878	856	188	9	0	7,171	1,676	90	177	549	3,209	11
Allen	74	0	9	25	22	9	7	2	0	0	71	0	0	0	2	1	0
Anderson	31	0	1	13	14	3	0	0	0	0	28	0	0	0	1	2	0
Atchison	74	0	10	32	23	6	3	0	0	0	61	4	0	0	4	5	0
Barber	17	0	1	8	2	3	3	0	0	0	15	0	0	0	0	2	0
Barton	133	0	22	59	32	12	8	0	0	0	82	2	0	2	4	43	0
Bourbon	92	0	10	36	28	14	3	1	0	0	77	5	1	0	7	2	0
Brown	43	0	8	15	12	7	0	1	0	0	20	0	17	0	3	3	0
Butler	220	0	36	92	48	33	9	1	1	0	186	9	0	3	11	11	0
Chase	9	0	0	2	3	3	1	0	0	0	8	0	0	0	1	0	0
Chautauqua	14	0	3	6	4	1	0	0	0	0	13	0	0	0	0	1	0
Cherokee	101	0	14	44	20	16	4	3	0	0	91	1	1	0	7	1	0
Cheyenne	2	0	1	0	1	0	0	0	0	0	2	0	0	0	0	0	0
Clark	8	0	2	2	2	1	1	0	0	0	6	0	0	0	0	2	0
Clay	21	0	0	6	8	3	4	0	0	0	18	0	0	0	0	3	0
Cloud	57	0	8	24	17	6	2	0	0	0	53	0	0	0	1	3	0
Coffey	24	0	4	12	5	2	1	0	0	0	24	0	0	0	0	0	0
Comanche	3	0	0	0	2	0	1	0	0	0	2	0	0	0	0	1	0
Cowley	200	0	27	80	49	29	10	5	0	0	138	3	4	4	8	43	0
Crawford	198	0	23	86	48	27	12	2	0	0	159	8	0	2	5	24	0
Decatur	6	0	0	3	3	0	0	0	0	0	6	0	0	0	0	0	0
Dickinson	57	0	6	24	18	7	1	1	0	0	49	0	0	0	3	5	0
Doniphan	25	0	4	10	5	6	0	0	0	0	24	0	0	0	0	1	0
Douglas	360	1	32	119	108	62	30	7	1	0	238	35	17	6	18	45	1
Edwards	8	0	1	2	2	2	1	0	0	0	5	0	0	0	0	3	0
Elk	3	0	0	2	0	1	0	0	0	0	3	0	0	0	0	0	0
Ellis	77	0	8	31	18	10	9	1	0	0	65	1	0	0	3	8	0
Ellsworth	25	0	1	13	4	5	2	0	0	0	21	0	0	0	1	3	0
Finney	291	1	39	106	81	37	23	4	0	0	54	15	1	4	5	212	0
Ford	313	0	54	106	85	42	21	5	0	0	54	5	1	2	1	250	0
Franklin	112	0	17	40	33	16	6	0	0	0	101	0	0	0	3	8	0
Geary	187	0	21	68	58	35	2	3	0	0	76	46	0	6	15	44	0
Gove	4	0	0	1	2	1	0	0	0	0	4	0	0	0	0	0	0
Graham	8	0	1	3	2	2	0	0	0	0	8	0	0	0	0	0	0
Grant	44	0	10	16	13	3	2	0	0	0	11	0	0	0	0	33	0
Gray	15	0	4	3	5	2	1	0	0	0	10	1	0	0	0	4	0
Greeley	2	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0
Greenwood	23	0	4	9	5	4	1	0	0	0	21	0	0	0	1	1	0
Hamilton	21	0	4	8	4	4	1	0	0	0	9	0	0	0	0	12	0
Harper	25	0	1	12	6	6	0	0	0	0	21	0	0	0	0	4	0
Harvey	146	1	26	49	45	21	4	0	0	0	104	4	0	0	4	34	0
Haskell	13	0	1	6	3	2	1	0	0	0	3	0	0	0	0	10	0
Hodgeman	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jackson	60	0	12	15	15	13	5	0	0	0	29	0	10	0	5	16	0
Jefferson	50	0	7	15	15	7	4	2	0	0	45	0	0	0	2	3	0
Jewell	8	0	1	4	3	0	0	0	0	0	8	0	0	0	0	0	0
Johnson	1,315	1	116	397	390	233	151	27	0	0	739	178	4	19	57	316	2
Kearny	18	0	1	10	3	3	1	0	0	0	5	0	0	0	0	13	0
Kingman	20	0	2	9	4	4	1	0	0	0	14	0	0	0	0	6	0
Kiowa	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Labette	121	0	9	55	35	14	8	0	0	0	94	7	1	0	4	15	0
Lane	2	0	1	1	0	0	0	0	0	0	2	0	0	0	0	0	0
Leavenworth	263	0	27	112	67	35	19	3	0	0	174	44	1	0	16	28	0
Lincoln	6	0	0	2	1	1	2	0	0	0	6	0	0	0	0	0	0
Linn	38	0	8	14	9	5	2	0	0	0	34	0	0	0	3	1	0
Logan	9	0	2	2	4	0	1	0	0	0	7	0	0	0	0	2	0

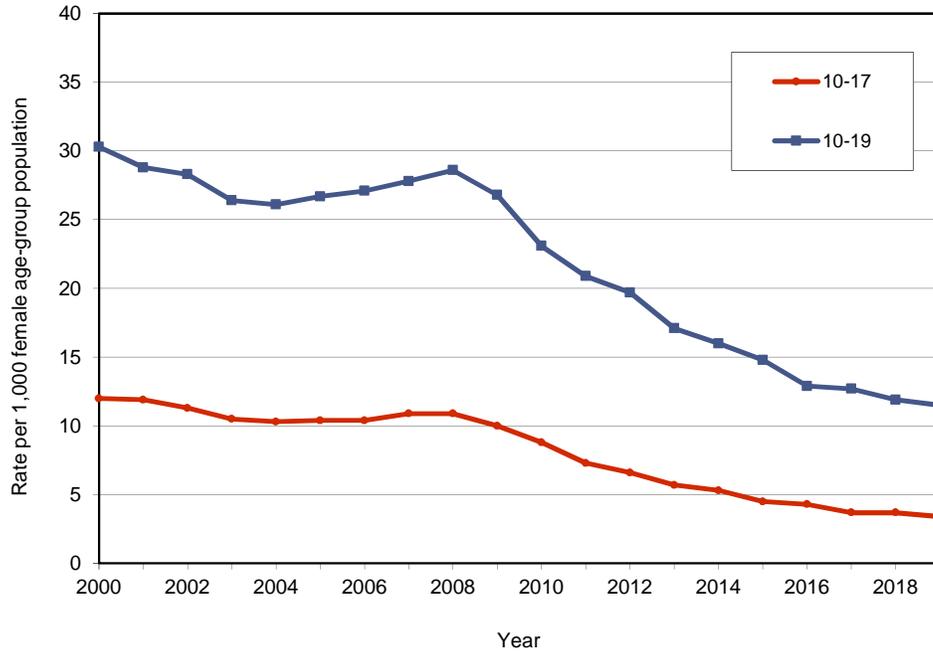
Table C22  
 Births to Unmarried Mothers by County of Residence and Peer Group\*  
 by Age-Group and Population Group of Mother  
 Kansas, 2019

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	151	0	22	68	32	15	11	2	1	0	96	5	1	0	2	46	1
McPherson	74	0	13	23	19	13	6	0	0	0	59	1	1	0	3	10	0
Marion	35	0	5	10	8	8	3	1	0	0	30	0	0	0	5	0	0
Marshall	19	0	3	8	5	2	0	1	0	0	14	1	0	0	2	2	0
Meade	13	0	1	8	2	0	1	1	0	0	8	0	0	0	5	0	0
Miami	94	0	14	36	26	10	6	2	0	0	84	0	0	0	7	1	0
Mitchell	26	0	6	11	4	4	1	0	0	0	24	0	0	0	2	0	0
Montgomery	169	1	24	62	54	14	14	0	0	0	115	16	4	0	22	0	0
Morris	12	0	0	3	4	2	2	1	0	0	11	0	0	0	1	0	0
Morton	21	0	8	7	3	3	0	0	0	0	17	0	0	0	3	0	0
Nemaha	33	0	3	15	10	3	2	0	0	0	26	1	0	0	4	0	0
Neosho	87	0	16	40	15	13	2	1	0	0	80	2	0	0	4	0	0
Ness	9	0	2	2	4	1	0	0	0	0	4	0	0	0	5	0	0
Norton	22	0	2	8	4	7	1	0	0	0	20	0	0	0	2	0	0
Osage	58	0	8	32	14	2	1	1	0	0	50	0	0	0	5	0	0
Osborne	14	0	1	2	10	0	1	0	0	0	12	0	0	0	1	0	0
Ottawa	19	0	1	8	4	4	2	0	0	0	16	0	0	0	3	0	0
Pawnee	35	0	4	13	6	10	2	0	0	0	29	1	0	0	5	0	0
Phillips	10	0	1	5	3	1	0	0	0	0	8	0	0	0	2	0	0
Pottawatomie	51	0	6	14	17	11	2	1	0	0	47	0	0	0	2	0	0
Pratt	33	0	5	14	9	2	1	2	0	0	25	1	1	0	6	0	0
Rawlins	8	0	1	5	1	1	0	0	0	0	7	0	0	0	0	0	0
Reno	246	0	31	88	68	38	16	4	1	0	176	10	1	1	45	0	0
Republic	10	0	0	4	3	2	1	0	0	0	8	0	0	0	0	0	0
Rice	33	0	3	14	11	3	1	1	0	0	25	0	0	0	8	0	0
Riley	170	0	14	76	45	26	7	2	0	0	109	21	0	4	26	0	0
Rooks	12	0	2	6	3	0	1	0	0	0	9	0	0	0	2	0	0
Rush	8	0	1	2	2	2	1	0	0	0	8	0	0	0	0	0	0
Russell	19	0	3	6	7	0	3	0	0	0	18	0	0	0	1	0	0
Saline	316	0	35	118	99	44	17	2	1	0	228	10	0	3	57	0	0
Scott	23	0	3	8	6	5	0	1	0	0	16	0	0	0	6	1	0
Sedgewick	2,944	10	408	1,044	843	415	184	38	2	0	1,444	615	12	69	667	2	0
Seward	217	0	42	68	59	28	13	7	0	0	28	4	1	3	180	0	0
Shawnee	1,025	2	159	359	286	148	58	13	0	0	532	169	7	5	228	1	0
Sheridan	7	0	0	4	2	1	0	0	0	0	4	0	0	0	3	0	0
Sherman	22	0	1	9	8	2	2	0	0	0	20	0	0	0	2	0	0
Smith	11	0	4	2	2	2	0	1	0	0	8	1	0	0	1	0	0
Stafford	15	0	2	4	6	1	2	0	0	0	9	0	0	0	6	0	0
Stanton	8	0	1	2	4	0	1	0	0	0	3	0	0	0	5	0	0
Stevens	26	0	1	9	7	6	2	1	0	0	5	0	0	0	21	0	0
Sumner	97	0	11	40	29	8	8	1	0	0	89	1	0	1	6	0	0
Thomas	31	0	2	19	6	4	0	0	0	0	22	0	0	0	9	0	0
Trego	7	0	0	3	3	1	0	0	0	0	6	0	0	0	1	0	0
Wabaunsee	29	0	4	10	6	4	5	0	0	0	27	0	0	0	2	0	0
Wallace	2	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0
Washington	9	0	1	5	3	0	0	0	0	0	7	0	0	0	2	0	0
Wichita	9	0	1	2	2	3	1	0	0	0	2	0	0	0	7	0	0
Wilson	47	0	7	17	13	8	1	1	0	0	43	0	1	0	2	0	0
Woodson	20	0	3	6	6	2	3	0	0	0	18	0	0	0	2	0	0
Wyandotte	1,528	1	189	507	450	241	103	35	2	0	420	449	3	45	558	2	0
n.s.	2	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0
Peer Group																	
Frontier	338	0	48	125	97	43	23	2	0	0	252	1	0	7	78	0	0
Rural	847	0	105	336	225	125	46	10	0	0	649	5	19	20	153	1	0
Densely -Settled Rural	2,403	1	349	923	631	312	149	37	1	0	1,383	56	22	69	858	1	0
Semi-Urban	1,858	2	241	715	524	264	93	16	3	0	1,338	124	5	93	278	1	0
Urban	7,435	15	931	2,538	2,144	1,134	545	123	5	0	3,547	1,490	44	144	1,842	8	0

\* See Technical Notes for Peer Group definition.

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

**Teenage Pregnancy Rates\***  
by Age-Group,  
Kansas 2000-2019



Residence Data

Figure C8

**Table C23**  
**Teenage Pregnancy Numbers and Rates\***  
by Year by Selected Age-Groups  
Kansas, 2000-2019

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
2000	6,090	94	1,819	4,177	5,996	30.3	0.9	30.1	12.0	58.7
2001	5,818	79	1,819	3,920	5,739	28.8	0.8	30.2	11.9	56.0
2002	5,586	86	1,684	3,816	5,500	28.3	0.9	28.3	11.3	54.7
2003	5,174	73	1,559	3,542	5,101	26.4	0.8	26.6	10.5	51.3
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

\*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

Teen and Non-Teen Live Births:  
Percent Distribution by Month Prenatal Care Began  
Kansas, 2019

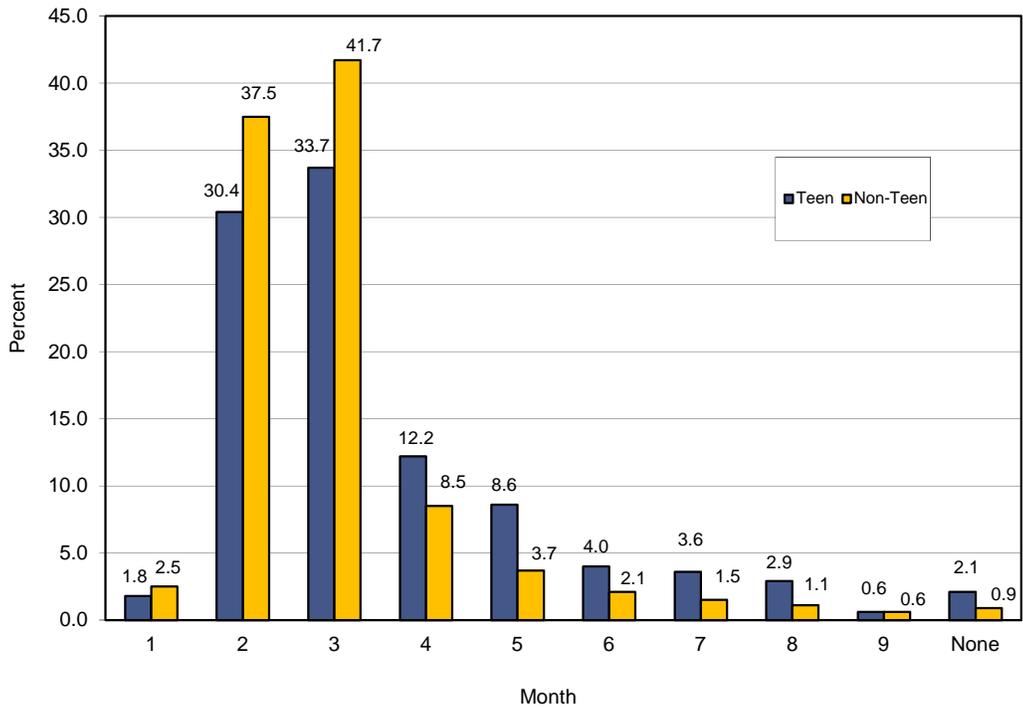


Figure C9

Teenage Live Births by Population Group  
Kansas, 2019

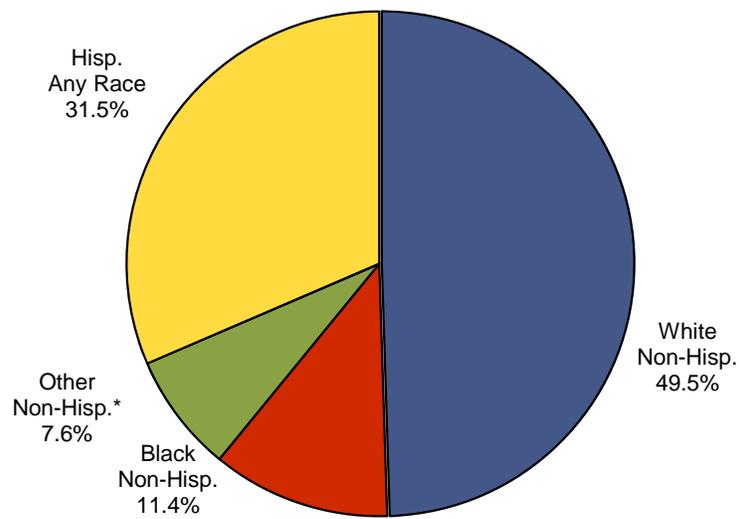


Figure C10

\*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, 2015-2019

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
2015	9	0.1	317	2.9	1,577	22.7	1,586	11.6	5	0.6	87	6.8	297	38.1	302	19.0	5	0.3	241	9.0	779	50.5	784	24.0
2016	12	0.2	317	2.9	1,366	19.8	1,378	10.1	6	0.7	85	6.7	260	33.8	266	16.9	8	0.5	236	8.6	713	45.1	721	21.6
2017	11	0.2	266	2.5	1,326	19.5	1,337	9.9	2	0.2	79	6.3	282	36.8	284	17.9	8	0.4	185	6.6	667	41.3	675	19.8
2018	6	0.1	251	2.3	1,196	17.6	1,202	8.9	4	0.5	86	6.8	294	38.1	298	18.8	5	0.3	200	7.0	659	39.9	664	19.0
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

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

†This table includes mutually exclusive race/ethnicity groups and is not comparable to tables in Annual Summaries prior to 2006.

See Technical Notes.

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Table C25  
 Teenage Pregnancies by County of Residence and Peer Group\*  
 by Age-Group and Component  
 Kansas, 2019

County of Residence	Live Births		Stillbirths		Abortions		Total Pregnancies			Teenage <sup>f</sup> 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
Kansas	18	1,858	0	8	6	346	24	2,212	2,236	11.5
Allen	0	9	0	0	0	0	0	9	9	10.8
Anderson	0	1	0	0	0	2	0	3	3	5.8
Atchison	0	12	0	0	0	0	0	12	12	9.3
Barber	0	1	0	0	0	0	0	1	1	3.9
Barton	0	24	0	0	0	4	0	28	28	16.4
Bourbon	0	11	0	0	0	1	0	12	12	11.4
Brown	0	10	0	0	0	0	0	10	10	16.0
Butler	0	39	0	0	0	3	0	42	42	8.5
Chase	0	0	0	0	0	0	0	0	0	0.0
Chautauqua	0	5	0	0	0	0	0	5	5	30.3
Cherokee	0	14	0	0	0	0	0	14	14	10.9
Cheyenne	0	1	0	0	0	0	0	1	1	7.7
Clark	0	3	0	0	0	0	0	3	3	20.8
Clay	0	0	0	0	0	1	0	1	1	2.1
Cloud	0	8	0	0	0	2	0	10	10	17.4
Coffey	0	4	0	0	0	0	0	4	4	8.0
Comanche	0	0	0	0	0	0	0	0	0	0.0
Cowley	0	30	0	0	0	1	0	31	31	12.8
Crawford	0	24	0	0	0	4	0	28	28	10.6
Decatur	0	0	0	0	0	0	0	0	0	0.0
Dickinson	0	7	0	0	0	1	0	8	8	6.6
Doniphan	0	5	0	0	0	2	0	7	7	12.7
Douglas	1	33	0	0	0	19	1	52	53	6.3
Edwards	0	1	0	0	0	0	0	1	1	5.4
Elk	0	0	0	0	0	0	0	0	0	0.0
Ellis	0	8	0	0	0	4	0	12	12	6.4
Ellsworth	0	1	0	0	0	0	0	1	1	3.6
Finney	1	46	0	0	0	3	1	49	50	17.7
Ford	0	68	0	0	1	13	1	81	82	32.9
Franklin	0	19	0	0	0	2	0	21	21	12.5
Geary	0	44	0	0	0	11	0	55	55	32.2
Gove	0	0	0	0	0	0	0	0	0	0.0
Graham	0	1	0	0	0	1	0	2	2	15.5
Grant	0	10	0	0	0	0	0	10	10	16.5
Gray	0	5	0	0	0	0	0	5	5	10.9
Greeley	0	0	0	0	0	0	0	0	0	0.0
Greenwood	0	5	0	0	0	0	0	5	5	14.3
Hamilton	0	4	0	0	0	1	0	5	5	29.9
Harper	0	1	0	0	0	1	0	2	2	6.0
Harvey	1	28	0	0	0	5	1	33	34	14.0
Haskell	0	2	0	0	0	0	0	2	2	6.7
Hodgeman	0	0	0	0	0	0	0	0	0	0.0
Jackson	0	12	0	0	0	0	0	12	12	13.8
Jefferson	0	8	0	0	0	3	0	11	11	8.9
Jewell	0	1	0	0	0	0	0	1	1	7.5
Johnson	1	127	0	2	2	63	3	192	195	5.0
Kearny	0	3	0	0	0	0	0	3	3	11.7
Kingman	0	3	0	0	0	0	0	3	3	6.5
Kiowa	0	1	0	0	0	0	0	1	1	5.2
Labette	0	11	0	0	0	0	0	11	11	8.9
Lane	0	1	0	0	0	0	0	1	1	10.6
Leavenworth	0	31	0	0	0	4	0	35	35	7.2
Lincoln	0	0	0	0	0	0	0	0	0	0.0
Linn	0	9	0	0	0	1	0	10	10	15.8
Logan	0	3	0	0	0	0	0	3	3	19.2

Table C25  
 Teenage Pregnancies by County of Residence and Peer Group\*  
 by Age-Group and Component  
 Kansas, 2019

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	3	0	25	25	10.0
McPherson	0	15	0	1	0	0	0	16	16	8.3
Marion	0	6	0	0	0	0	0	6	6	7.8
Marshall	0	4	0	0	0	1	0	5	5	8.0
Meade	0	2	0	0	0	0	0	2	2	7.7
Miami	0	15	0	0	0	2	0	17	17	7.3
Mitchell	0	6	0	0	0	0	0	6	6	16.7
Montgomery	1	27	0	1	0	1	1	29	30	14.0
Morris	0	0	0	0	0	0	0	0	0	0.0
Morton	0	8	0	0	0	0	0	8	8	45.5
Nemaha	0	3	0	0	0	0	0	3	3	4.5
Neosho	0	20	0	0	0	4	0	24	24	22.0
Ness	0	2	0	0	0	0	0	2	2	11.5
Norton	0	2	0	0	0	0	0	2	2	7.5
Osage	0	8	0	0	0	2	0	10	10	9.5
Osborne	0	1	0	0	0	0	0	1	1	5.5
Ottawa	0	1	0	0	0	0	0	1	1	3.0
Pawnee	0	4	0	0	0	0	0	4	4	18.2
Phillips	0	2	0	0	0	0	0	2	2	6.2
Pottawatomie	0	9	0	0	0	0	0	9	9	5.0
Pratt	0	7	0	0	0	0	0	7	7	12.3
Rawlins	0	1	0	0	0	0	0	1	1	7.6
Reno	0	38	0	0	1	6	1	44	45	11.2
Republic	0	0	0	0	0	0	0	0	0	0.0
Rice	0	3	0	0	0	0	0	3	3	4.7
Riley	0	22	0	0	0	4	0	26	26	5.1
Rooks	0	2	0	0	0	0	0	2	2	6.4
Rush	0	1	0	0	0	0	0	1	1	5.6
Russell	0	4	0	0	0	0	0	4	4	10.6
Saline	0	38	0	0	0	3	0	41	41	12.2
Scott	0	4	0	0	0	0	0	4	4	11.6
Sedgwick	10	432	0	0	1	98	11	530	541	15.3
Seward	0	47	0	0	0	3	0	50	50	27.5
Shawnee	2	164	0	0	0	24	2	188	190	16.9
Sheridan	0	0	0	0	0	0	0	0	0	0.0
Sherman	0	1	0	0	0	0	0	1	1	2.5
Smith	0	4	0	0	0	0	0	4	4	20.0
Stafford	0	3	0	0	0	2	0	5	5	21.2
Stanton	0	1	0	0	0	0	0	1	1	6.1
Stevens	0	3	0	0	0	1	0	4	4	8.0
Sumner	0	13	0	0	0	1	0	14	14	9.2
Thomas	0	2	0	0	0	0	0	2	2	3.6
Trego	0	0	0	0	0	0	0	0	0	0.0
Wabaunsee	0	5	0	0	0	0	0	5	5	11.6
Wallace	0	0	0	0	0	0	0	0	0	0.0
Washington	0	1	0	0	0	0	0	1	1	3.3
Wichita	0	1	0	0	0	0	0	1	1	6.0
Wilson	0	9	0	0	0	0	0	9	9	16.2
Woodson	0	3	0	0	0	0	0	3	3	15.3
Wyandotte	1	198	0	4	1	39	2	241	243	21.1
n.s.	0	0	0	0	0	0	0	0	0	n/a
Peer Group										
Frontier	0	57	0	0	0	4	0	61	61	9.5
Rural	0	134	0	1	0	8	0	143	143	9.1
Densely -Settled Rural	1	388	0	0	1	46	2	434	436	13.9
Semi-Urban	2	294	0	1	1	41	3	336	339	11.2
Urban	15	985	0	6	4	247	19	1,238	1,257	11.4

\* See Technical Notes for Peer Group definition.

† Rate per 1,000 female age-group population

Table C26  
 Teenage Pregnancies for 10-17 Year Olds  
 by County of Residence and Peer Group\*, by Component  
 Kansas, 2019

County of Residence	Live Births	Stillbirths	Abortions	Total Pregnancies	Pregnancy Rate <sup>†</sup>
Kansas	441	1	83	525	3.4
Allen	1	0	0	1	1.6
Anderson	0	0	1	1	2.2
Atchison	3	0	0	3	3.5
Barber	0	0	0	0	0.0
Barton	5	0	0	5	3.6
Bourbon	1	0	0	1	1.1
Brown	2	0	0	2	3.8
Butler	5	0	1	6	1.5
Chase	0	0	0	0	0.0
Chautauqua	1	0	0	1	7.1
Cherokee	4	0	0	4	3.7
Cheyenne	1	0	0	1	8.9
Clark	0	0	0	0	0.0
Clay	0	0	0	0	0.0
Cloud	0	0	0	0	0.0
Coffey	0	0	0	0	0.0
Comanche	0	0	0	0	0.0
Cowley	5	0	0	5	2.7
Crawford	4	0	1	5	2.8
Decatur	0	0	0	0	0.0
Dickinson	1	0	1	2	2.0
Doniphan	1	0	0	1	2.5
Douglas	6	0	5	11	2.3
Edwards	0	0	0	0	0.0
Elk	0	0	0	0	0.0
Ellis	1	0	0	1	0.8
Ellsworth	0	0	0	0	0.0
Finney	16	0	0	16	7.0
Ford	19	0	3	22	10.9
Franklin	6	0	0	6	4.4
Geary	8	0	0	8	5.6
Gove	0	0	0	0	0.0
Graham	0	0	0	0	0.0
Grant	2	0	0	2	3.9
Gray	0	0	0	0	0.0
Greeley	0	0	0	0	0.0
Greenwood	1	0	0	1	3.3
Hamilton	0	0	0	0	0.0
Harper	0	0	1	1	3.5
Harvey	10	0	2	12	6.2
Haskell	0	0	0	0	0.0
Hodgeman	0	0	0	0	0.0
Jackson	2	0	0	2	2.7
Jefferson	2	0	1	3	2.9
Jewell	0	0	0	0	0.0
Johnson	23	1	18	42	1.3
Kearny	1	0	0	1	4.6
Kingman	1	0	0	1	2.6
Kiowa	0	0	0	0	0.0
Labelle	1	0	0	1	1.0
Lane	0	0	0	0	0.0
Leavenworth	9	0	0	9	2.2
Lincoln	0	0	0	0	0.0
Linn	1	0	0	1	1.8
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, 2019

County of Residence	Live Births	Stillbirths	Abortions	Total Pregnancies	Pregnancy Rate†
Lyon	2	0	1	3	1.8
McPherson	6	0	0	6	3.9
Marion	1	0	0	1	1.7
Marshall	0	0	0	0	0.0
Meade	0	0	0	0	0.0
Miami	3	0	1	4	2.0
Mitchell	3	0	0	3	9.8
Montgomery	8	0	0	8	4.7
Morris	0	0	0	0	0.0
Morton	3	0	0	3	21.3
Nemaha	0	0	0	0	0.0
Neosho	2	0	2	4	4.5
Ness	0	0	0	0	0.0
Norton	1	0	0	1	4.3
Osage	3	0	0	3	3.3
Osborne	0	0	0	0	0.0
Ottawa	0	0	0	0	0.0
Pawnee	2	0	0	2	11.0
Phillips	0	0	0	0	0.0
Pottawatomie	0	0	0	0	0.0
Pratt	1	0	0	1	2.3
Rawlins	1	0	0	1	8.8
Reno	12	0	2	14	4.3
Republic	0	0	0	0	0.0
Rice	2	0	0	2	4.4
Riley	1	0	1	2	0.9
Rooks	1	0	0	1	3.7
Rush	0	0	0	0	0.0
Russell	2	0	0	2	6.3
Saline	11	0	1	12	4.3
Scott	0	0	0	0	0.0
Sedgwick	122	0	19	141	4.8
Seward	14	0	1	15	10.2
Shawnee	42	0	5	47	5.1
Sheridan	0	0	0	0	0.0
Sherman	0	0	0	0	0.0
Smith	0	0	0	0	0.0
Stafford	0	0	1	1	5.2
Stanton	0	0	0	0	0.0
Stevens	0	0	0	0	0.0
Sumner	1	0	0	1	0.8
Thomas	0	0	0	0	0.0
Trego	0	0	0	0	0.0
Wabaunsee	2	0	0	2	5.6
Wallace	0	0	0	0	0.0
Washington	1	0	0	1	3.9
Wichita	0	0	0	0	0.0
Wilson	0	0	0	0	0.0
Woodson	1	0	0	1	6.1
Wyandotte	50	0	15	65	6.7
n.s.	0	0	0	0	n/a
Peer Group					
Frontier	9	0	1	10	1.8
Rural	28	0	2	30	2.3
Densely -Settled Rural	84	0	9	93	3.8
Semi-Urban	68	0	9	77	3.4
Urban	252	1	62	315	3.5

\* 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, 2005-2019\*

	White NH		Black NH		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

\* 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, 2005-2019\*

Year	White NH		Black NH		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

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

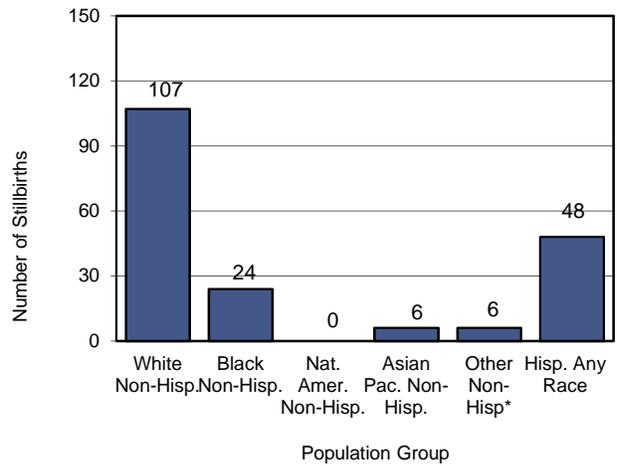
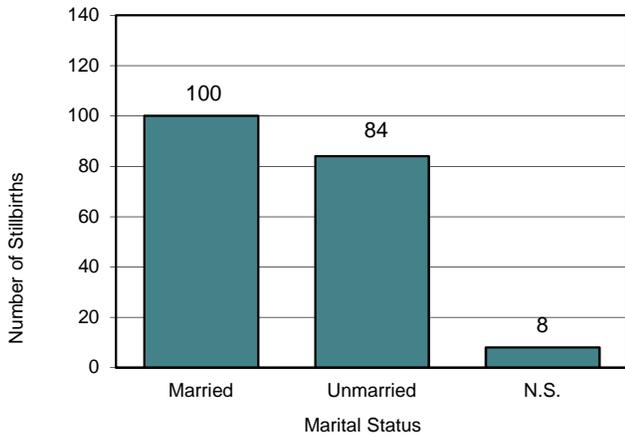
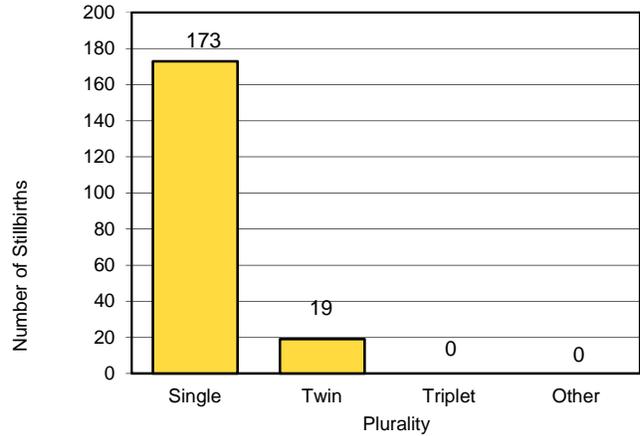
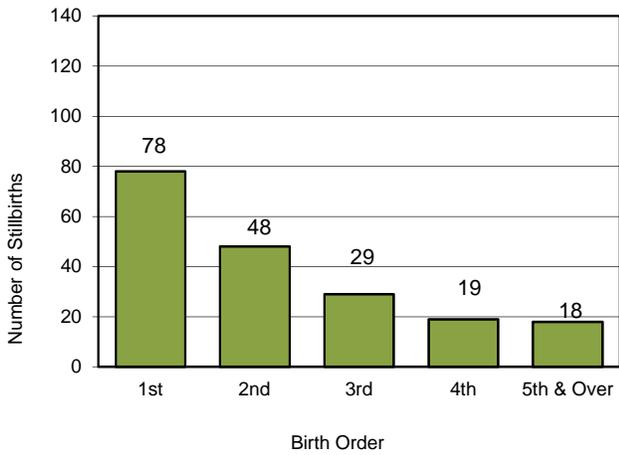
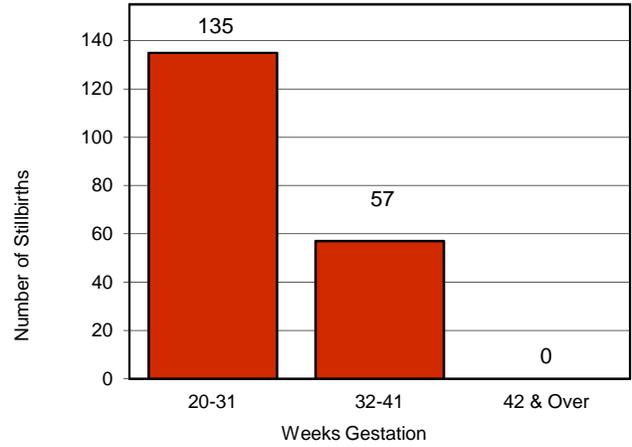
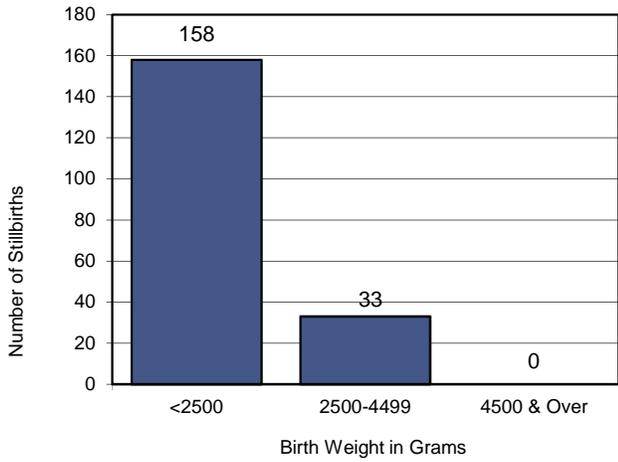
# D. FETAL AND INFANT MORTALITY

Table D1  
Number of Stillbirths by Cause of Death and Weeks Gestation  
Kansas, 2019

Cause of Death*	Total Stillbirths	Weeks Gestation			
		20-31	32-41	42 & Over	n.s.
All Causes	192	135	57	0	0
Certain Conditions Originating in the Perinatal Period	169	114	55	0	0
-Fetus Affected by Maternal Conditions	26	14	12	0	0
-Fetus Affected by Maternal Complications of Pregnancy	24	23	1	0	0
-Fetus Affected by Complications of Placenta, Cord & Membrane	48	29	19	0	0
-Fetus Affected by Complications of Labor & Delivery	2	2	0	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	0	0	0	0	0
-Unspecified Cause	53	38	15	0	0
-Other Perinatal Conditions	16	8	8	0	0
Congenital Anomalies	14	12	2	0	0
All other Causes	9	9	0	0	0

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

Number of Stillbirths  
By Selected Characteristics  
Kansas, 2019



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

Figure D1

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Table D2  
Stillbirths by County of Residence and Peer Group\*  
by Age-Group of Mother  
Kansas, 2019

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	3	0	0	1	2	0	0	0	0	0
McPherson	2	0	1	0	0	0	0	1	0	0
Marion	0	0	0	0	0	0	0	0	0	0
Marshall	0	0	0	0	0	0	0	0	0	0
Meade	0	0	0	0	0	0	0	0	0	0
Miami	2	0	0	1	0	1	0	0	0	0
Mitchell	0	0	0	0	0	0	0	0	0	0
Montgomery	3	0	1	1	0	0	1	0	0	0
Morris	1	0	0	1	0	0	0	0	0	0
Morton	0	0	0	0	0	0	0	0	0	0
Nemaha	3	0	0	0	1	1	1	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	2	0	0	0	2	0	0	0	0	0
Osage	1	0	0	0	1	0	0	0	0	0
Osborne	0	0	0	0	0	0	0	0	0	0
Ottawa	1	0	0	0	1	0	0	0	0	0
Pawnee	0	0	0	0	0	0	0	0	0	0
Phillips	0	0	0	0	0	0	0	0	0	0
Pottawatomie	2	0	0	0	0	1	1	0	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	4	0	0	2	0	0	1	1	0	0
Republic	0	0	0	0	0	0	0	0	0	0
Rice	1	0	0	0	1	0	0	0	0	0
Riley	4	0	0	1	1	0	2	0	0	0
Rooks	0	0	0	0	0	0	0	0	0	0
Rush	0	0	0	0	0	0	0	0	0	0
Russell	1	0	0	1	0	0	0	0	0	0
Saline	3	0	0	0	2	1	0	0	0	0
Scott	0	0	0	0	0	0	0	0	0	0
Sedgwick	33	0	0	3	6	18	4	2	0	0
Seward	6	0	0	0	3	2	1	0	0	0
Shawnee	17	0	0	3	3	4	5	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	3	0	0	1	0	1	1	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	0	0	0	0	0	0	0	0	0	0
Wallace	0	0	0	0	0	0	0	0	0	0
Washington	0	0	0	0	0	0	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	18	0	4	3	3	4	2	1	0	1
n.s.	0	0	0	0	0	0	0	0	0	0
Peer Group										
Frontier	1	0	0	0	1	0	0	0	0	0
Rural	15	0	1	3	6	2	1	2	0	0
Densely -Settled Rural	42	0	0	15	11	10	5	0	0	1
Semi-Urban	35	0	1	13	7	8	5	1	0	0
Urban	99	0	6	15	18	34	17	6	0	3

\* See Technical Notes for Peer Group definition.

Table D3  
Total Reported Abortions and Ratios of Abortions to Live Births\*  
Kansas, 1972-2019

Year	Total*	Out of State Residents	Kansas		n.s.
			Residents	Ratio†	
1972	12,248	7,736	4,512	136.0	0
1973	12,612	7,695	4,917	153.8	0
1974	10,171	4,503	5,657	172.9	11
1975	9,160	3,565	5,581	165.6	14
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

\* 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.

Ratios of Abortions to Live Births by Year  
Kansas, 1973-2019

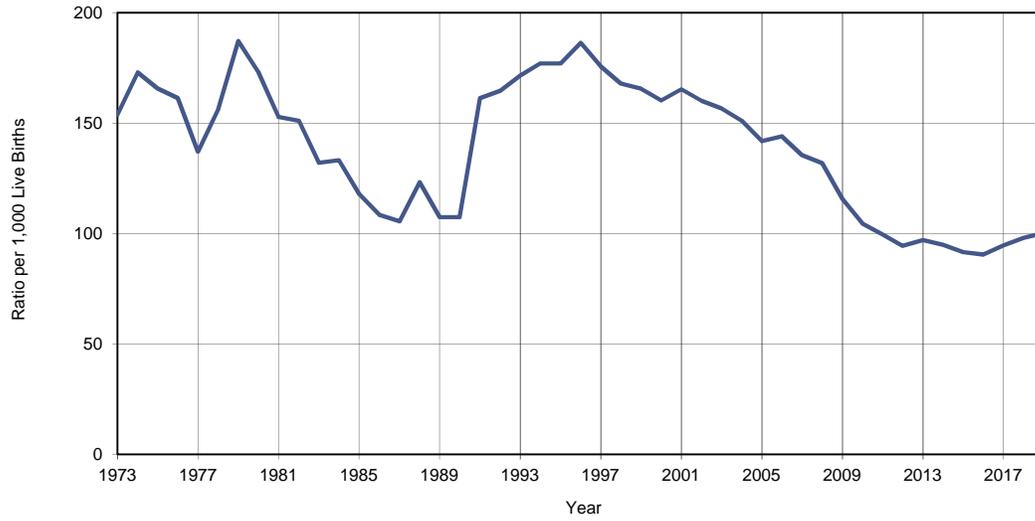
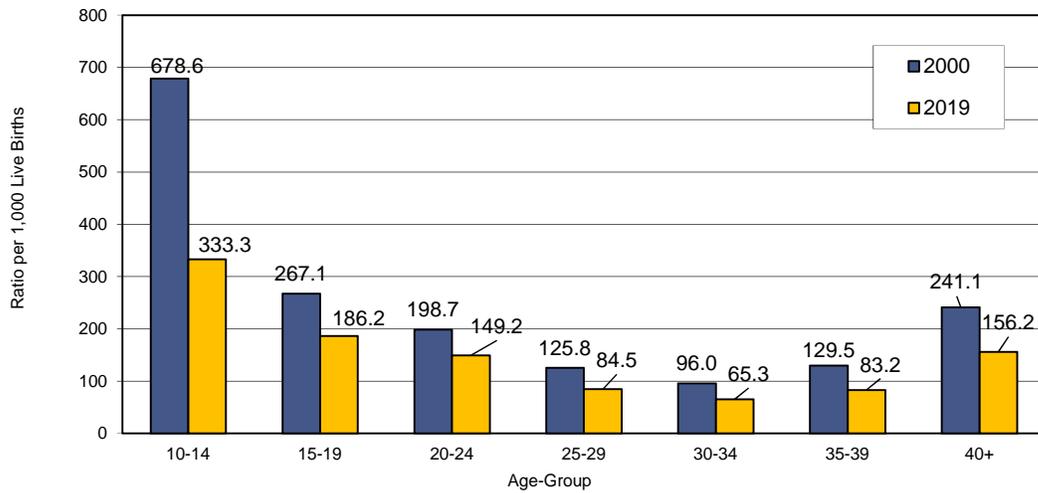


Figure D2

Ratios of Abortions to Live Births by Age-Group of Patient  
Kansas, 2000 and 2019



Residence Data

Figure D3

Table D4  
Total Reported Abortions by Selected Characteristics  
by Age-Group of Patient  
Kansas, 2019

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	6,916	12	633	2,156	1,937	1,243	693	229	13	0
Residency										
Kansans in State	3,521	6	345	1,122	926	629	364	122	7	0
Kansans out-of-state	22	0	1	8	5	4	1	3	0	0
Non-residents in KS	3,373	6	287	1,026	1,006	610	328	104	6	0
n.s.	0	0	0	0	0	0	0	0	0	0
Population Group	6,916	12	633	2,156	1,937	1,243	693	229	13	0
White Non-Hispanic	3,729	2	351	1,145	984	683	422	134	8	0
Black Non-Hispanic	1,633	3	129	489	533	313	121	45	0	0
Native American Non-Hispanic	66	0	7	17	19	10	10	3	0	0
Asian/Pacific Non-Hispanic	261	0	8	61	75	56	43	18	0	0
Other Non-Hispanic <sup>†</sup>	207	2	23	76	55	33	14	3	1	0
Hispanic Any Race	1,013	5	115	367	269	144	83	26	4	0
n.s.	7	0	0	1	2	4	0	0	0	0
Marital Status of Patient	6,916	12	633	2,156	1,937	1,243	693	229	13	0
Married	1,063	0	12	141	286	293	238	86	7	0
Not Married	5,811	12	617	2,003	1,638	943	452	140	6	0
n.s.	42	0	4	12	13	7	3	3	0	0
Weeks Gestation	6,916	12	633	2,156	1,937	1,243	693	229	13	0
Under 9	4,865	7	418	1,510	1,356	898	497	168	11	0
9-12	1,417	3	150	454	425	230	122	31	2	0
13-16	393	0	38	125	101	64	48	17	0	0
17-21	241	2	27	67	55	51	26	13	0	0
22 & Over	0	0	0	0	0	0	0	0	0	0
n.s.	0	0	0	0	0	0	0	0	0	0
Procedure	6,916	12	633	2,156	1,937	1,243	693	229	13	0
Suction Curettage	2,047	6	174	568	577	382	250	87	3	0
Sharp Curettage	6	0	1	3	2	0	0	0	0	0
Dilation & Evac	408	1	41	123	102	79	42	20	0	0
Med Proc. 1 <sup>‡</sup>	4,446	5	417	1,461	1,252	781	399	121	10	0
Med Proc. 2 <sup>§</sup>	0	0	0	0	0	0	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	5	0	0	0	2	1	1	1	0	0
"Partial Birth" Procedure	0	0	0	0	0	0	0	0	0	0
Other <sup>¶</sup>	4	0	0	1	2	0	1	0	0	0
n.s.	0	0	0	0	0	0	0	0	0	0
Previous Pregnancies	6,916	12	633	2,156	1,937	1,243	693	229	13	0
None	2,044	12	513	951	359	140	55	14	0	0
1	1,410	0	94	594	434	165	102	20	1	0
2	1,235	0	23	333	410	286	137	45	1	0
3	895	0	2	171	308	232	131	47	4	0
4	582	0	0	69	217	163	93	39	1	0
5 & Over	747	0	1	38	209	255	175	63	6	0
n.s.	3	0	0	0	0	2	0	1	0	0

Table D4  
Total Reported Abortions by Selected Characteristics  
by Age-Group of Patient  
Kansas, 2019

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	6,916	12	633	2,156	1,937	1,243	693	229	13	0
None	4,663	12	593	1,674	1,164	716	370	129	5	0
1	1,471	0	38	385	498	301	193	51	5	0
2	501	0	1	75	187	125	87	25	1	0
3	171	0	0	16	53	55	30	17	0	0
4	66	0	0	5	26	22	5	7	1	0
5 & Over	44	0	1	1	9	24	8	0	1	0
n.s.	0	0	0	0	0	0	0	0	0	0
Number of Living Children	6,916	12	633	2,156	1,937	1,243	693	229	13	0
None	2,811	12	551	1,244	624	250	108	22	0	0
1	1,698	0	79	591	530	290	158	47	3	0
2	1,339	0	2	238	454	366	205	70	4	0
3	675	0	1	65	236	192	127	54	0	0
4	260	0	0	15	63	100	57	22	3	0
5 & Over	132	0	0	3	30	44	38	14	3	0
n.s.	1	0	0	0	0	1	0	0	0	0
Children Born Alive Now Dead	6,916	12	633	2,156	1,937	1,243	693	229	13	0
None	6,857	12	632	2,145	1,921	1,226	683	225	13	0
1	44	0	1	10	15	10	5	3	0	0
2	5	0	0	1	1	1	2	0	0	0
3	4	0	0	0	0	3	1	0	0	0
4	3	0	0	0	0	1	2	0	0	0
5 & Over	0	0	0	0	0	0	0	0	0	0
n.s.	3	0	0	0	0	2	0	1	0	0
Spontaneous Terminations	6,916	12	633	2,156	1,937	1,243	693	229	13	0
None	5,629	12	616	1,907	1,553	893	493	148	7	0
1	979	0	15	210	291	264	136	58	5	0
2	208	0	2	29	67	61	34	14	1	0
3	59	0	0	5	16	15	18	5	0	0
4	21	0	0	2	7	4	8	0	0	0
5 & Over	20	0	0	3	3	6	4	4	0	0
n.s.	0	0	0	0	0	0	0	0	0	0

\* Totals are larger than reported in the preliminary report due to induced termination of pregnancy reports received from other states after the Kansas reporting deadline. 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

<sup>1</sup> Other procedures included: unknown, Suction Aspiration, Medical Pill, Dilation and Curettage and Cytotec



Table D5  
 Kansas Resident Abortions by Selected Characteristics  
 by Age-Group of Patient  
 Kansas, 2019

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	3,543	6	346	1,130	931	633	365	125	7	0
None	1,415	6	293	641	297	116	52	10	0	0
1	875	0	51	320	247	154	80	21	2	0
2	679	0	2	121	226	177	105	45	3	0
3	354	0	0	37	117	100	68	32	0	0
4	144	0	0	8	28	64	34	10	0	0
5 & Over	75	0	0	3	16	21	26	7	2	0
n.s.	1	0	0	0	0	1	0	0	0	0
Children Born Alive Now Dead	3,543	6	346	1,130	931	633	365	125	7	0
None	3,503	6	345	1,121	922	624	357	121	7	0
1	27	0	1	8	8	3	4	3	0	0
2	4	0	0	1	1	1	1	0	0	0
3	3	0	0	0	0	2	1	0	0	0
4	3	0	0	0	0	1	2	0	0	0
5 & Over	0	0	0	0	0	0	0	0	0	0
n.s.	3	0	0	0	0	2	0	1	0	0
Spontaneous Terminations	3,543	6	346	1,130	931	633	365	125	7	0
None	2,929	6	338	1,005	758	472	264	81	5	0
1	466	0	7	108	129	123	69	28	2	0
2	94	0	1	14	29	27	14	9	0	0
3	36	0	0	2	11	9	11	3	0	0
4	8	0	0	0	2	1	5	0	0	0
5 & Over	10	0	0	1	2	1	2	4	0	0
n.s.	0	0	0	0	0	0	0	0	0	0

\* Totals are larger than reported in the preliminary report due to induced termination of pregnancy reports received from other states after the Kansas reporting deadline. Not stated (n.s.) represent patients who refused to provide information or information not collected by other states.

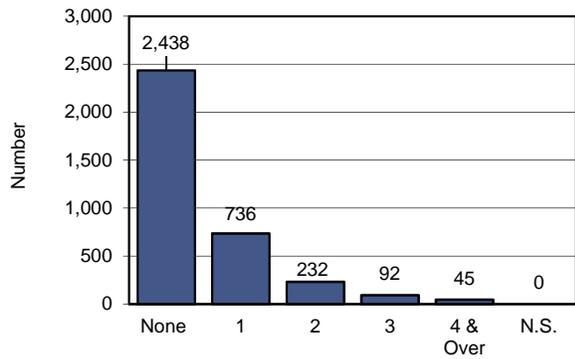
† Includes selection of two or more races or other non-specified race

‡ Refers to drug mifepristone

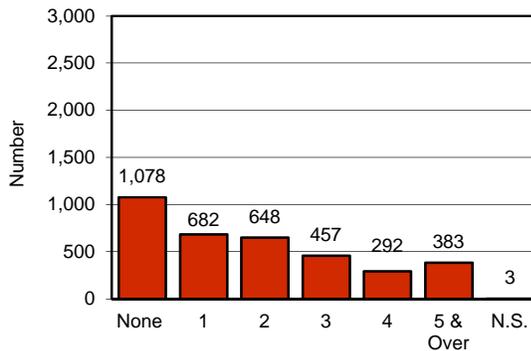
§ Refers to drug methotrexate

¶ Other procedures included: unknown, Suction Aspiration, Medical Pill, Hern Procedure, Dilatation and Curettage and Cytotec

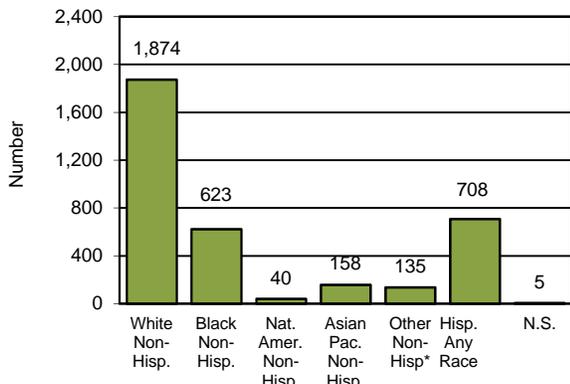
## Reported Abortions By Selected Characteristics Kansas, 2019



Resident Data  
Previous Induced Abortions

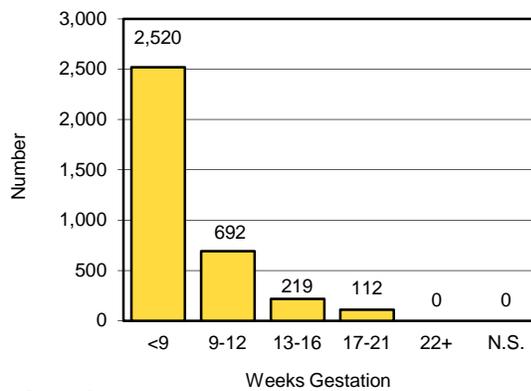


Resident Data  
Previous Pregnancies



Resident Data

Population Group\*



Resident Data

Weeks Gestation

Total 3543

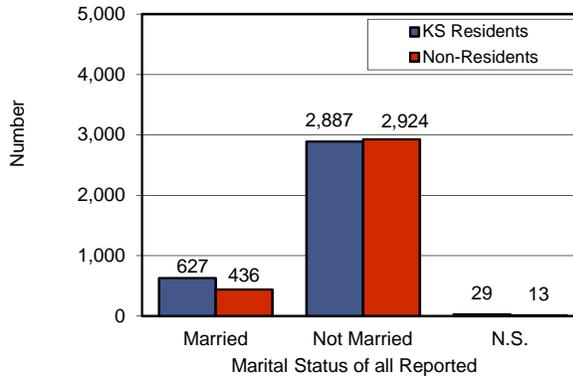
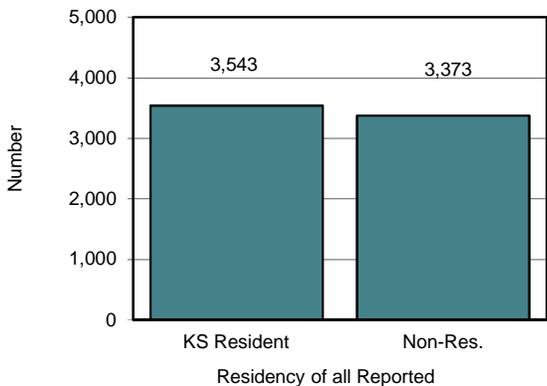


Figure D4

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

Table D6  
Total Reported Abortions by Population Group  
by Marital Status  
Kansas, 2019

Population Group	Total		Marital Status				n.s. <sup>†</sup>
			Married		Unmarried		
	Number	Percent	Number	Percent	Number	Percent	
Total	6,916	100	1,063	15.5	5,811	84.5	42
White Non-Hispanic	3,729	100	603	16.2	3,108	83.8	18
Black Non-Hispanic	1,633	100	146	9.0	1,479	91.0	8
Native American							
Non-Hispanic	66	100	5	7.6	61	92.4	0
Asian/Pacific							
Non-Hispanic	261	100	134	51.7	125	48.3	2
Other Non-Hispanic*	207	100	22	10.6	185	89.4	0
Hispanic Any Race	1,013	100	149	14.9	850	85.1	14
n.s. <sup>†</sup>	7	100	4	57.1	3	42.9	0

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

<sup>†</sup> The not stated (n.s.) represent patients who refused to provide information or information not collected by other states.

<sup>‡</sup>n/a not applicable

Table D7  
Total Reported Abortions by Population Group  
by Weeks Gestation  
Kansas, 2019

Population Group	Total		Weeks Gestation										n.s. <sup>†</sup>
			Under 9		9-12		13-16		17-21		22 & Over		
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
Total	6,916	100	4,865	70.3	1,417	20.5	393	5.7	241	3.5	0	0.0	0
White Non-Hispanic	3,729	100	2,692	72.2	708	19.0	211	5.7	118	3.2	0	0.0	0
Black Non-Hispanic	1,633	100	1,057	64.7	410	25.1	97	5.9	69	4.2	0	0.0	0
Native American Non-Hispanic	66	100	47	71.2	8	12.1	7	10.6	4	6.1	0	0.0	0
Asian/Pacific Non-Hispanic	261	100	206	78.9	33	12.6	9	3.4	13	5.0	0	0.0	0
Other Non-Hispanic*	207	100	139	67.1	45	21.7	16	7.7	7	3.4	0	0.0	0
Hispanic Any Race	1,013	100	720	71.1	211	20.8	52	5.1	30	3.0	0	0.0	0
n.s. <sup>†</sup>	7	100	4	57.1	2	28.6	1	14.3	0	n/a <sup>‡</sup>	0	n/a <sup>‡</sup>	0

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

<sup>†</sup> The not stated (n.s.) represent patients who refused to provide information or information not collected by other states.

<sup>‡</sup>n/a not applicable

Total Reported Abortions: Percent  
Distribution by Weeks Gestation  
Kansas, 2019

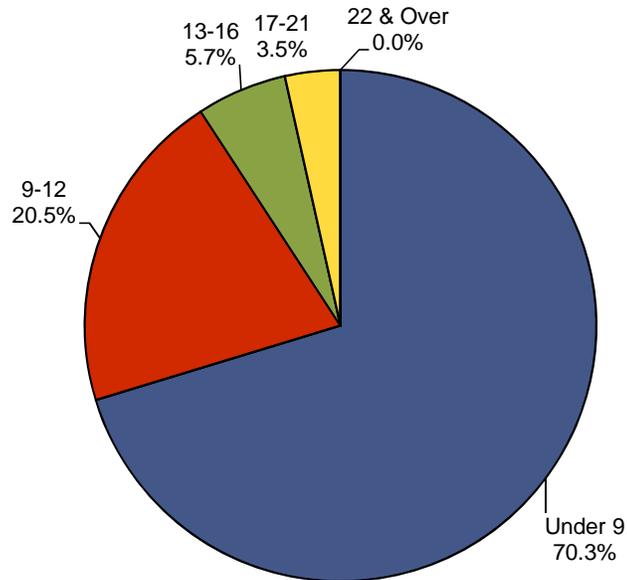


Figure D5

Table D8  
Total Reported Abortions by Termination Procedure  
by Weeks Gestation  
Kansas, 2019

Termination Procedure	Total	Weeks Gestation					
		Under 9	9-12	13-16	17-21	22 & Over	n.s.*
Total	6,916	4865	1417	393	241	0	0
Suction Curettage	2,047	934	895	156	62	0	0
Sharp Curettage	6	6	0	0	0	0	0
Dilation & Evacuation	408	2	1	233	172	0	0
Medical Procedure I <sup>†</sup>	4,446	3922	521	2	1	0	0
Medical Procedure II <sup>‡</sup>	0	0	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	5	0	0	1	4	0	0
"Partial Birth" Procedure	0	0	0	0	0	0	0
Other <sup>¶</sup>	4	1	0	1	2	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.

<sup>†</sup> Refers to drug mifepristone

<sup>‡</sup> Refers to drug methotrexate

<sup>¶</sup> Other procedures included: Suction Aspiration, Medical Pill, Dilation and Curettage and Cytotec

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Table D9  
 Abortions by County of Residence and Peer Group\*  
 by Age-Group of Patient  
 Kansas, 2019

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	24	0	3	8	8	2	2	1	0	0
Mcpherson	19	0	0	4	5	3	7	0	0	0
Marion	3	0	0	1	1	1	0	0	0	0
Marshall	4	0	1	3	0	0	0	0	0	0
Meade	0	0	0	0	0	0	0	0	0	0
Miami	38	0	2	12	8	8	7	1	0	0
Mitchell	1	0	0	0	0	0	0	1	0	0
Montgomery	8	0	1	1	3	2	1	0	0	0
Morris	3	0	0	0	1	0	2	0	0	0
Morton	0	0	0	0	0	0	0	0	0	0
Nemaha	3	0	0	1	2	0	0	0	0	0
Neosho	13	0	4	3	4	1	1	0	0	0
Ness	1	0	0	0	0	1	0	0	0	0
Norton	2	0	0	1	0	1	0	0	0	0
Osage	11	0	2	2	1	2	2	2	0	0
Osborne	3	0	0	0	1	2	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	0	0	0	0	0	0	0	0	0	0
Pottawatomie	11	0	0	4	3	4	0	0	0	0
Pratt	2	0	0	1	0	0	1	0	0	0
Rawlins	1	0	0	1	0	0	0	0	0	0
Reno	43	1	6	15	11	4	4	2	0	0
Republic	1	0	0	0	1	0	0	0	0	0
Rice	4	0	0	2	1	1	0	0	0	0
Riley	98	0	4	49	20	16	7	1	1	0
Rooks	1	0	0	0	1	0	0	0	0	0
Rush	3	0	0	0	1	1	1	0	0	0
Russell	10	0	0	1	4	3	2	0	0	0
Saline	39	0	3	17	7	5	5	2	0	0
Scott	1	0	0	0	0	1	0	0	0	0
Sedgwick	934	1	98	320	257	149	78	28	3	0
Seward	31	0	3	10	9	8	0	1	0	0
Shawnee	222	0	24	67	55	42	26	7	1	0
Sheridan	0	0	0	0	0	0	0	0	0	0
Sherman	2	0	0	1	0	0	1	0	0	0
Smith	1	0	0	0	1	0	0	0	0	0
Stafford	5	0	2	0	3	0	0	0	0	0
Stanton	1	0	0	1	0	0	0	0	0	0
Stevens	3	0	1	1	1	0	0	0	0	0
Sumner	13	0	1	7	5	0	0	0	0	0
Thomas	1	0	0	1	0	0	0	0	0	0
Trego	0	0	0	0	0	0	0	0	0	0
Wabaunsee	2	0	0	1	0	0	1	0	0	0
Wallace	0	0	0	0	0	0	0	0	0	0
Washington	0	0	0	0	0	0	0	0	0	0
Wichita	0	0	0	0	0	0	0	0	0	0
Wilson	4	0	0	3	1	0	0	0	0	0
Woodson	1	0	0	1	0	0	0	0	0	0
Wyandotte	391	1	39	132	119	59	34	6	1	0
n.s.†	2	0	0	0	0	1	0	1	0	0
Peer Group										
Frontier	35	0	4	7	8	10	6	0	0	0
Rural	102	0	8	28	25	20	19	2	0	0
Densely -Settled Rural	361	1	46	124	90	60	27	13	0	0
Semi-Urban	426	1	41	162	99	75	35	12	1	0
Urban	2,617	4	247	809	709	467	278	97	6	0

\* See Technical Notes for Peer Group definition

† County information not collected by other states.

Table D10  
Perinatal Period III Deaths by Component  
Kansas, 2000-2019

Year	Stillbirths	Hebdomadal Deaths	Perinatal Period III Deaths	
			Number	Rate*
2000	177	146	323	8.1
2001	209	148	357	9.1
2002	146	155	301	7.6
2003	206	138	344	8.7
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

\*Rate per 1,000 live births + stillbirths

Table D11  
 Perinatal Period III Deaths by County of Residence  
 by Component  
 Kansas, 2019

County of Residence	Perinatal Period III Deaths			County of Residence	Perinatal Period III Deaths		
	Total	Stillbirths	Hebdomadal Deaths		Total	Stillbirths	Hebdomadal Deaths
Kansas	293	192	101				
Allen	1	0	1	Lyon	4	3	1
Anderson	1	1	0	McPherson	2	2	0
Atchison	4	3	1	Marion	2	0	2
Barber	0	0	0	Marshall	0	0	0
Barton	2	2	0	Meade	0	0	0
Bourbon	3	2	1	Miami	3	2	1
Brown	0	0	0	Mitchell	0	0	0
Butler	7	6	1	Montgomery	4	3	1
Chase	0	0	0	Morris	1	1	0
Chautauqua	0	0	0	Morton	0	0	0
Cherokee	3	2	1	Nemaha	3	3	0
Cheyenne	0	0	0	Neosho	2	1	1
Clark	0	0	0	Ness	0	0	0
Clay	0	0	0	Norton	2	2	0
Cloud	0	0	0	Osage	1	1	0
Coffey	0	0	0	Osborne	0	0	0
Comanche	0	0	0	Ottawa	2	1	1
Cowley	6	4	2	Pawnee	0	0	0
Crawford	4	3	1	Phillips	0	0	0
Decatur	0	0	0	Pottawatomie	2	2	0
Dickinson	1	0	1	Pratt	1	0	1
Doniphan	1	0	1	Rawlins	0	0	0
Douglas	6	4	2	Reno	6	4	2
Edwards	0	0	0	Republic	1	0	1
Elk	0	0	0	Rice	1	1	0
Ellis	2	2	0	Riley	7	4	3
Ellsworth	0	0	0	Rooks	0	0	0
Finney	9	6	3	Rush	0	0	0
Ford	5	2	3	Russell	1	1	0
Franklin	3	3	0	Saline	4	3	1
Geary	5	3	2	Scott	0	0	0
Gove	0	0	0	Sedgwick	51	33	18
Graham	0	0	0	Seward	8	6	2
Grant	2	1	1	Shawnee	22	17	5
Gray	1	0	1	Sheridan	0	0	0
Greeley	0	0	0	Sherman	0	0	0
Greenwood	1	0	1	Smith	0	0	0
Hamilton	0	0	0	Stafford	1	0	1
Harper	0	0	0	Stanton	1	1	0
Harvey	5	4	1	Stevens	1	0	1
Haskell	0	0	0	Sumner	5	3	2
Hodgeman	0	0	0	Thomas	0	0	0
Jackson	0	0	0	Trego	0	0	0
Jefferson	1	1	0	Wabaunsee	2	0	2
Jewell	0	0	0	Wallace	0	0	0
Johnson	41	25	16	Washington	0	0	0
Kearny	0	0	0	Wichita	0	0	0
Kingman	2	2	0	Wilson	0	0	0
Kiowa	0	0	0	Woodson	0	0	0
Labette	2	2	0	Wyandotte	28	18	10
Lane	0	0	0	n.s.	0	0	0
Leavenworth	7	2	5				
Lincoln	0	0	0				
Linn	0	0	0				
Logan	0	0	0				

Table D12  
 Infant Mortality Rates\*  
 by Population Group  
 Kansas, 2000-2019

Year	White Non-Hispanic <sup>†</sup>			Black Non-Hispanic <sup>†</sup>			Hispanic Any Race			Total Infant Death Rate: All Races*
	Live Births	Infant Deaths	Rate	Live Births	Infant Deaths	Rate	Live Births	Infant Deaths	Rate	
2000	30,538	192	6.3	2,822	33	11.7	4,742	32	6.7	6.7
2001	29,703	190	6.4	2,745	54	19.7	4,875	36	7.4	7.3
2002	29,811	187	6.3	2,845	44	15.5	5,006	40	8.0	7.2
2003	29,482	172	5.8	2,730	40	14.7	5,417	45	8.3	6.7
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

\*Rate per 1,000 live births

<sup>†</sup>Due to changes in the collection of the race item on certificates, use caution when comparing 2005-2019 data to prior years. See Technical Notes.

<sup>‡</sup>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.

Infant Mortality Rates  
 by Population Group  
 Kansas, Five Year Rolling Averages, 1995-2019

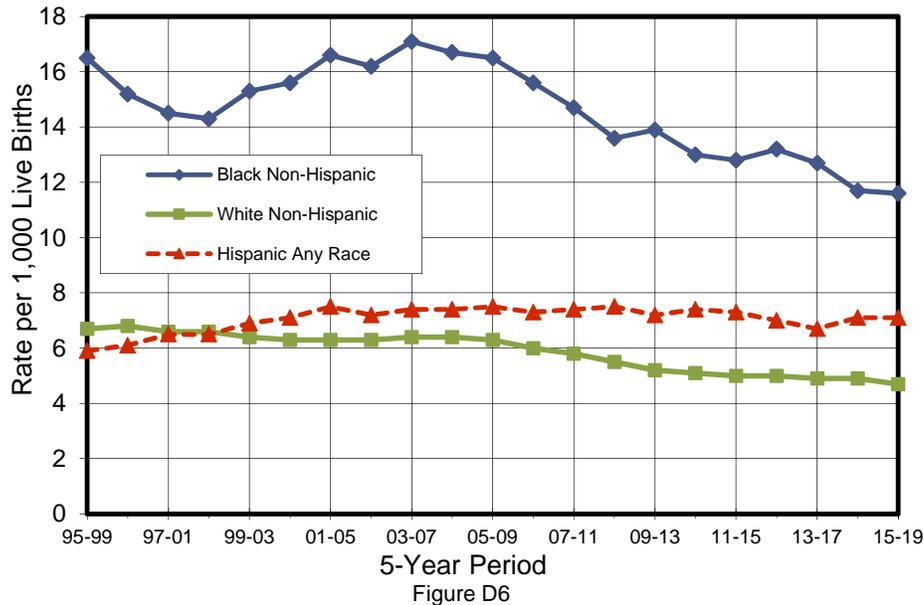


Figure D6

Table D13  
 Infant Deaths by Cause of Death by Age-Group of Infant  
 Kansas, 2019

Cause of Death <sup>†</sup>	Age-Group of Infant						
	Under 1 Day	1-6 Days	Under 7 Days <sup>†</sup>	7-27 Days	Under 28 Days <sup>§</sup>	28-364 Days	Under 1 Year
All Causes	78	23	101	17	118	71	189
Infectious and Parasitic Diseases	0	0	0	0	0	2	2
Other Diseases and Disorders	1	2	3	2	5	11	16
Certain Conditions Originating in the Perinatal Period	65	6	71	5	76	4	80
-Maternal Factors and Compl. Of Pregnancy, Labor and Delivery	26	0	26	0	26	0	26
-Disorders Relating to Short Gestation and Low Birth Weight	32	0	32	0	32	0	32
-Birth Trauma	0	0	0	0	0	0	0
-Hypoxia and Birth Asphyxia	0	0	0	1	1	0	1
-Respiratory Distress of Newborn	0	0	0	0	0	0	0
-Congenital Pneumonia	0	1	1	1	2	0	2
-Other Respiratory Conditions of Newborn	2	1	3	0	3	2	5
-Bacterial Sepsis of Newborn	0	0	0	0	0	0	0
-Omphalitis of Newborn w/wo Mild Hemorrhage	0	0	0	0	0	0	0
-Hemorrhagic and Hematolog. Disorders of Fetus and Newborn	0	1	1	0	1	0	1
-Other Perinatal Conditions	5	3	8	3	11	2	13
Congenital Anomalies	11	14	25	10	35	12	47
Symptoms and Abnormal Findings	1	0	1	0	1	23	24
-Sudden Infant Death Syndrome	1	0	1	0	1	5	6
-Other	0	0	0	0	0	18	18
External Causes of Mortality	0	1	1	0	1	19	20

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

<sup>†</sup> Hebdomadal Deaths

<sup>§</sup> Neonatal Deaths

Infant Deaths for Three Age Groups  
Kansas, 2000-2019

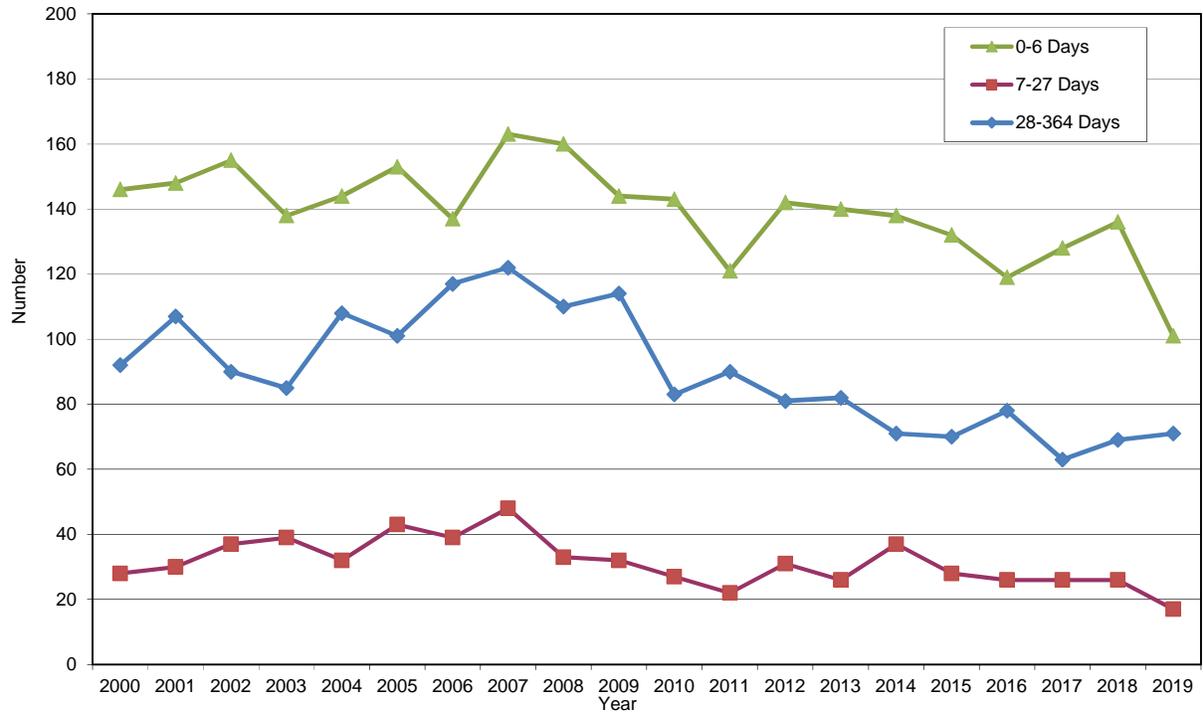


Figure D7

Maternal Deaths\*  
Kansas, 2015-2019

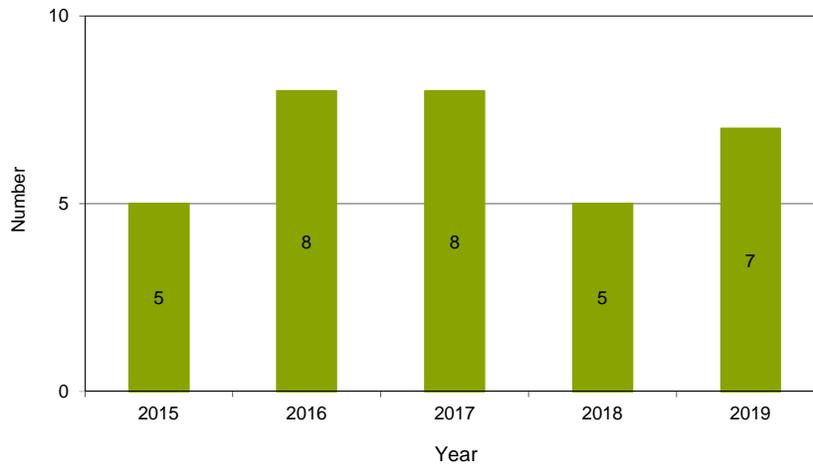


Figure D8

\*See Technical Notes for Maternal Mortality definitions

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Table D14  
 Infant Deaths by County of Residence and Peer Group\*  
 by Year of Death  
 Kansas, 2015-2019

County of Residence	Year					Total Infant Deaths 2015-2019	Infant Death Rate <sup>†</sup> 2015-2019
	2015	2016	2017	2018	2019		
Kansas	230	223	217	231	189	1,090	5.9
Allen	1	0	0	4	1	6	8.4
Anderson	1	0	1	1	0	3	6.1
Atchison	2	1	0	0	2	5	5.2
Barber	0	0	2	1	0	3	11.0
Barton	3	0	0	1	1	5	3.1
Bourbon	2	1	2	0	2	7	7.1
Brown	0	1	4	0	0	5	8.1
Butler	8	3	6	5	2	24	6.5
Chase	0	0	0	0	0	0	0.0
Chautauqua	0	0	0	0	0	0	0.0
Cherokee	0	0	0	2	1	3	2.6
Cheyenne	0	0	0	0	0	0	0.0
Clark	0	0	0	1	0	1	8.1
Clay	3	2	0	0	0	5	10.8
Cloud	0	1	3	1	1	6	11.1
Coffey	0	0	0	0	0	0	0.0
Comanche	1	1	0	0	0	2	24.7
Cowley	2	0	5	2	2	11	5.4
Crawford	1	4	4	1	3	13	5.6
Decatur	0	0	0	0	0	0	0.0
Dickinson	1	2	3	1	2	9	8.6
Doniphan	1	0	1	1	1	4	10.0
Douglas	6	8	11	6	3	34	5.8
Edwards	0	0	0	1	0	1	6.9
Elk	0	2	0	0	0	2	16.3
Ellis	4	3	1	1	1	10	6.2
Ellsworth	0	0	0	0	1	1	3.3
Finney	7	2	3	4	5	21	6.6
Ford	9	3	1	5	3	21	6.8
Franklin	2	2	1	0	2	7	4.7
Geary	8	3	5	6	3	25	5.2
Gove	0	1	0	0	0	1	5.5
Graham	0	0	1	0	0	1	9.6
Grant	1	0	0	2	1	4	6.8
Gray	1	0	0	0	1	2	4.8
Greeley	0	0	0	0	0	0	0.0
Greenwood	1	0	1	1	2	5	16.7
Hamilton	0	1	1	0	0	2	11.5
Harper	0	0	1	1	0	2	5.7
Harvey	3	4	3	5	3	18	9.3
Haskell	0	1	1	0	0	2	6.9
Hodgeman	1	1	0	0	0	2	24.1
Jackson	3	3	1	1	0	8	9.3
Jefferson	3	0	2	0	0	5	5.4
Jewell	0	1	0	0	0	1	6.9
Johnson	35	26	25	27	31	144	4.0
Kearny	1	0	0	1	0	2	6.3
Kingman	0	0	1	0	0	1	2.6
Kiowa	0	0	0	0	0	0	0.0
Labette	2	4	1	0	0	7	5.2
Lane	0	0	0	0	0	0	0.0
Leavenworth	5	6	11	6	7	35	7.2
Lincoln	1	0	0	0	0	1	7.1
Linn	2	1	0	1	0	4	7.8
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, 2015-2019

Lyon	2	2	2	6	2	14	7.0
McPherson	2	1	1	1	0	5	3.2
Marion	1	1	0	0	3	5	8.7
Marshall	0	1	1	1	0	3	5.0
Meade	0	1	0	1	0	2	7.1
Miami	0	2	1	1	2	6	3.4
Mitchell	0	0	1	0	0	1	2.6
Montgomery	4	4	3	0	2	13	7.0
Morris	0	0	0	0	0	0	0.0
Morton	0	0	0	2	0	2	11.5
Nemaha	1	1	0	1	1	4	5.6
Neosho	0	0	1	3	2	6	6.2
Ness	0	0	1	0	0	1	6.8
Norton	0	1	0	1	0	2	7.0
Osage	1	2	3	0	0	6	7.1
Osborne	0	0	0	0	0	0	0.0
Ottawa	0	0	0	0	2	2	6.9
Pawnee	2	0	0	1	0	3	9.1
Phillips	0	0	0	0	0	0	0.0
Pottawatomie	1	1	2	0	1	5	2.7
Pratt	0	0	0	4	1	5	8.5
Rawlins	0	0	0	0	0	0	0.0
Reno	4	4	5	2	2	17	5.1
Republic	0	1	0	0	2	3	12.4
Rice	0	0	2	0	0	2	3.6
Riley	3	5	3	10	4	25	5.5
Rooks	0	0	0	0	0	0	0.0
Rush	0	1	0	0	0	1	6.3
Russell	0	0	0	0	0	0	0.0
Saline	1	4	7	6	2	20	5.9
Scott	0	0	0	0	0	0	0.0
Sedgwick	41	60	44	57	36	238	6.8
Seward	3	2	1	2	3	11	5.4
Shawnee	18	21	22	16	12	89	8.3
Sheridan	0	0	0	0	0	0	0.0
Sherman	0	0	0	0	0	0	0.0
Smith	0	0	0	1	0	1	5.1
Stafford	0	0	0	0	1	1	3.9
Stanton	0	0	0	0	0	0	0.0
Stevens	0	0	0	0	1	1	2.8
Sumner	2	0	1	3	4	10	7.5
Thomas	1	2	0	0	1	4	7.4
Trego	0	0	0	0	0	0	0.0
Wabaunsee	0	0	0	0	2	2	5.0
Wallace	0	0	0	0	1	1	9.2
Washington	1	1	1	0	0	3	8.0
Wichita	0	0	0	0	0	0	0.0
Wilson	0	0	0	0	1	1	1.9
Woodson	0	0	0	0	0	0	0.0
Wyandotte	21	17	13	23	20	94	7.1
Peer Group							
Frontier	5	9	6	9	4	36	5.8
Rural	14	14	16	14	18	84	6.2
Densely -Settled Rural	51	27	31	37	33	187	6.1
Semi-Urban	34	35	38	36	25	189	6.5
Urban	126	138	126	135	109	651	6.2

\* 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, 2019

County of Residence	Hebdomadal Deaths	Post-Hebdomadal Deaths	Neonatal Deaths	Post-Neonatal Deaths	Total Infant Deaths
	Under 7 Days	7-27 Days	Under 28 Days	28-364 Days	Under 1 Year
Kansas	101	17	118	71	189
Allen	1	0	1	0	1
Anderson	0	0	0	0	0
Atchison	1	0	1	1	2
Barber	0	0	0	0	0
Barton	0	0	0	1	1
Bourbon	1	1	2	0	2
Brown	0	0	0	0	0
Butler	1	0	1	1	2
Chase	0	0	0	0	0
Chautauqua	0	0	0	0	0
Cherokee	1	0	1	0	1
Cheyenne	0	0	0	0	0
Clark	0	0	0	0	0
Clay	0	0	0	0	0
Cloud	0	1	1	0	1
Coffey	0	0	0	0	0
Comanche	0	0	0	0	0
Cowley	2	0	2	0	2
Crawford	1	0	1	2	3
Decatur	0	0	0	0	0
Dickinson	1	0	1	1	2
Doniphan	1	0	1	0	1
Douglas	2	0	2	1	3
Edwards	0	0	0	0	0
Elk	0	0	0	0	0
Ellis	0	1	1	0	1
Ellsworth	0	0	0	1	1
Finney	3	0	3	2	5
Ford	3	0	3	0	3
Franklin	0	0	0	2	2
Geary	2	0	2	1	3
Gove	0	0	0	0	0
Graham	0	0	0	0	0
Grant	1	0	1	0	1
Gray	1	0	1	0	1
Greeley	0	0	0	0	0
Greenwood	1	0	1	1	2
Hamilton	0	0	0	0	0
Harper	0	0	0	0	0
Harvey	1	0	1	2	3
Haskell	0	0	0	0	0
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	16	2	18	13	31
Kearny	0	0	0	0	0
Kingman	0	0	0	0	0
Kiowa	0	0	0	0	0
Labette	0	0	0	0	0
Lane	0	0	0	0	0
Leavenworth	5	1	6	1	7
Lincoln	0	0	0	0	0
Linn	0	0	0	0	0
Logan	0	0	0	0	0

Table D15  
 Infant Deaths by County of Residence and Peer Group\*  
 by Component, Kansas, 2019

Lyon	1	0	1	1	2
McPherson	0	0	0	0	0
Marion	2	0	2	1	3
Marshall	0	0	0	0	0
Meade	0	0	0	0	0
Miami	1	0	1	1	2
Mitchell	0	0	0	0	0
Montgomery	1	0	1	1	2
Morris	0	0	0	0	0
Morton	0	0	0	0	0
Nemaha	0	0	0	1	1
Neosho	1	0	1	1	2
Ness	0	0	0	0	0
Norton	0	0	0	0	0
Osage	0	0	0	0	0
Osborne	0	0	0	0	0
Ottawa	1	0	1	1	2
Pawnee	0	0	0	0	0
Phillips	0	0	0	0	0
Pottawatomie	0	1	1	0	1
Pratt	1	0	1	0	1
Rawlins	0	0	0	0	0
Reno	2	0	2	0	2
Republic	1	0	1	1	2
Rice	0	0	0	0	0
Riley	3	1	4	0	4
Rooks	0	0	0	0	0
Rush	0	0	0	0	0
Russell	0	0	0	0	0
Saline	1	0	1	1	2
Scott	0	0	0	0	0
Sedgwick	18	5	23	13	36
Seward	2	0	2	1	3
Shawnee	5	0	5	7	12
Sheridan	0	0	0	0	0
Sherman	0	0	0	0	0
Smith	0	0	0	0	0
Stafford	1	0	1	0	1
Stanton	0	0	0	0	0
Stevens	1	0	1	0	1
Sumner	2	2	4	0	4
Thomas	0	0	0	1	1
Trego	0	0	0	0	0
Wabaunsee	2	0	2	0	2
Wallace	0	0	0	1	1
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	10	2	12	8	20
n.s.	0	0	0	0	0
Peer Group					
Frontier	0	0	0	1	1
Rural	12	1	13	8	21
Densely-Settled Rural	19	5	24	7	31
Semi-Urban	19	2	21	13	34
Urban	51	9	60	42	102

\* See Technical Notes for Peer Group definition.

# E. GENERAL MORTALITY

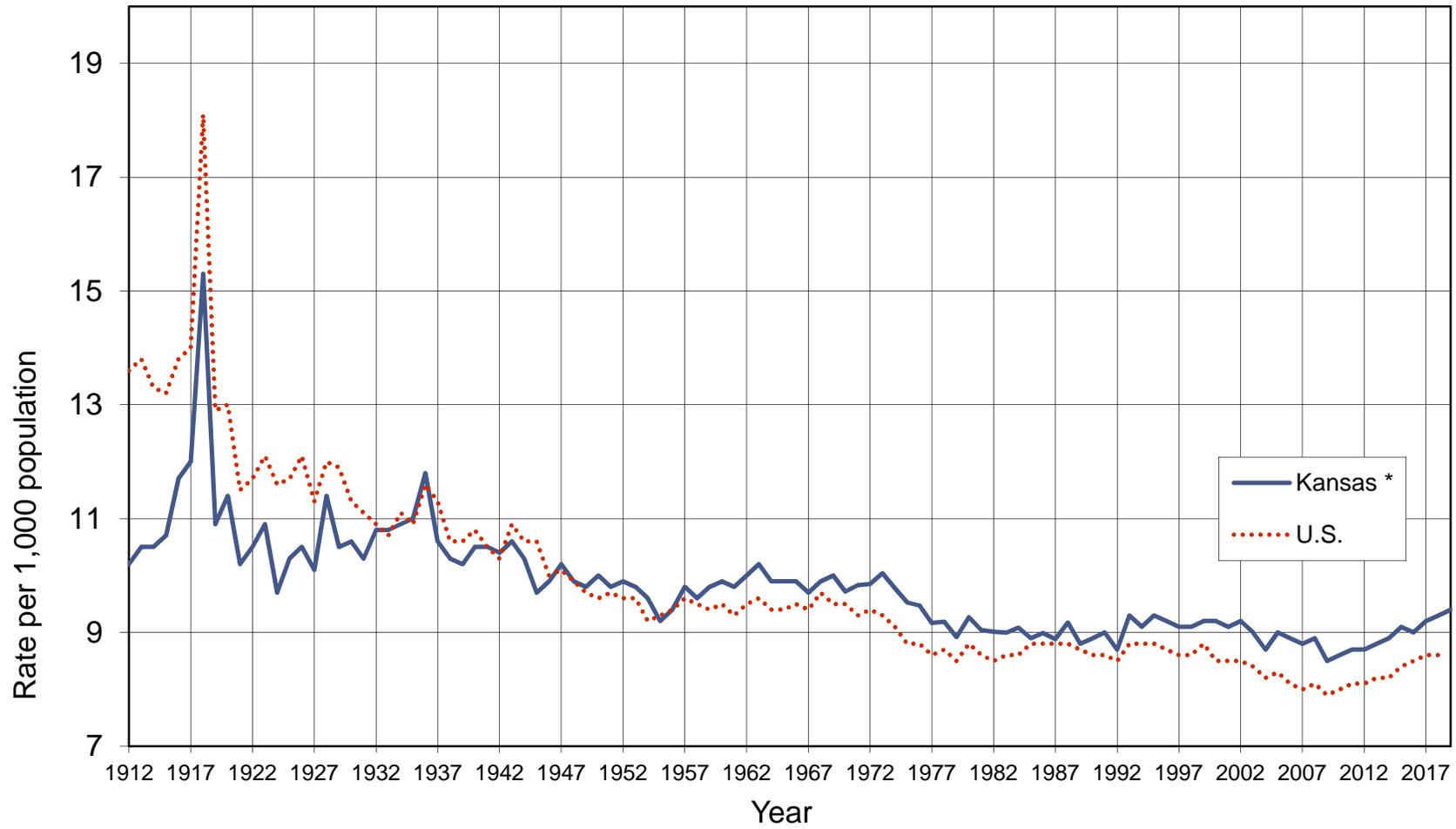
Table E1  
Resident Deaths by Year and by Population Group,  
By Number, Crude and Age-Adjusted Rates  
Kansas, 2015-2019

Year and Population Group	Number	Crude Rate	Age-Adjusted Rate
2015	26,611	914.0	772.5
White Non-Hispanic	23,706	1,066.1	773.7
Black Non-Hispanic	1,357	789.7	973.8
Native American Non-Hispanic	211	895.0	1,237.5
Asian/Pacific Islander Non-Hispanic	191	225.5	395.3
Other Non-Hispanic	301	422.3	1,031.8
Hispanic	808	240.1	522.8
Not Stated	37	n/a	n/a
2016	26,129	898.7	753.5
White Non-Hispanic	23,217	1,046.9	754.8
Black Non-Hispanic	1,366	810.6	956.6
Native American Non-Hispanic	171	730.7	982.0
Asian/Pacific Islander Non-Hispanic	202	233.4	407.0
Other Non-Hispanic	316	434.5	1,115.3
Hispanic	799	236.1	501.1
Not Stated	58	n/a	n/a
2017	26,725	917.4	761.3
White Non-Hispanic	23,557	1,066.0	757.6
Black Non-Hispanic	1,421	843.6	992.5
Native American Non-Hispanic	194	836.4	1,109.5
Asian/Pacific Islander Non-Hispanic	232	257.3	395.5
Other Non-Hispanic	340	458.7	1,089.6
Hispanic	918	264.2	547.2
Not Stated	63	n/a	n/a
2018	27,213	934.7	762.1
White Non-Hispanic	24,033	1,090.9	762.1
Black Non-Hispanic	1,442	861.7	1,005.5
Native American Non-Hispanic	177	765.6	958.6
Asian/Pacific Islander Non-Hispanic	204	222.8	358.9
Other Non-Hispanic	385	511.0	1,232.3
Hispanic	916	260.8	526.7
Not Stated	56	n/a	n/a
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

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

# Crude Death Rates

Kansas and the U.S., 1912-2019



\*1912-1936 Occurrence data  
1937-2019 Residence data  
2019 US Data not yet available

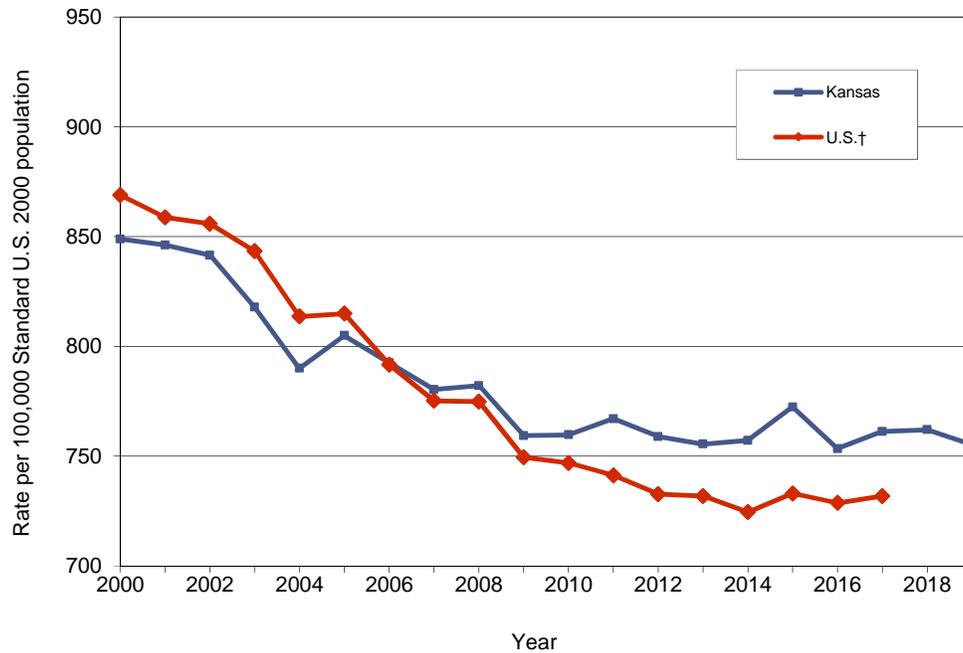
Figure E1

Table E2  
Age-Specific Death Rates\* by Sex  
Kansas, 2000-2019

Age-Group and Sex	Year																			
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Both Sexes																				
Total	9.2	9.1	9.2	9.0	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
Under 1	7.0	7.5	7.4	6.8	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
1-4	0.4	0.4	0.4	0.4	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
5-14	0.2	0.2	0.2	0.2	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
15-24	0.8	0.9	0.9	0.7	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
25-34	0.9	0.9	0.8	0.8	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
35-44	1.7	1.8	2.0	1.8	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
45-54	3.6	3.9	4.0	4.0	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
55-64	9.3	9.6	9.1	9.0	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
65-74	23.1	22.9	22.4	21.6	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
75-84	55.9	55.7	55.7	54.6	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
85 and over	160.5	154.5	154.6	149.7	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
Male	8.8	8.8	8.8	8.5	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
Under 1	7.5	8.4	7.6	8.0	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
1-4	0.5	0.5	0.5	0.4	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
5-14	0.2	0.2	0.2	0.2	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
15-24	1.2	1.3	1.2	1.0	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
25-34	1.3	1.3	1.2	1.1	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
35-44	2.1	2.2	2.5	2.3	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
45-54	4.5	4.9	4.9	4.8	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
55-64	11.1	11.9	11.1	11.1	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
65-74	27.8	28.1	27.6	26.4	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
75-84	70.3	69.2	67.3	65.3	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
85 and over	187.4	179.6	174.5	163.6	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
Female	9.5	9.4	9.6	9.4	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
Under 1	6.4	6.5	7.1	5.6	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
1-4	0.4	0.3	0.4	0.4	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
5-14	0.2	0.2	0.1	0.1	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
15-24	0.4	0.4	0.5	0.4	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
25-34	0.5	0.6	0.5	0.5	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
35-44	1.3	1.4	1.5	1.4	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
45-54	2.7	3.0	3.0	3.1	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
55-64	7.6	7.5	7.3	7.0	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
65-74	19.2	18.6	18.1	17.6	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
75-84	46.4	46.9	47.8	47.2	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
85 and over	150.0	144.7	146.5	143.9	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

\*Rate per 1,000 age-group population

Age-Adjusted Death Rates\*  
Kansas and the U.S., 2000-2019



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

† 2018 and 2019 Rates Not Available

Figure E2

Table E3  
Age-Adjusted Death Rates\* by Sex  
Kansas and the U.S., 2000-2019

Year	Kansas			U.S.		
	Total	Male	Female	Total	Male	Female
2000	849.0	1,033.1	717.6	869.0	1,053.8	731.4
2001	846.2	1,031.2	711.4	858.8	1,035.4	725.6
2002	841.6	1,006.6	717.2	855.9	1,030.6	723.6
2003	817.9	965.6	702.7	843.5	1,010.3	715.2
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	n/a	n/a	n/a
2019	755.3	884.3	645.9	n/a	n/a	n/a

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

Table E4  
Deaths by Population Group and Sex, by Age-Group and Average Age at Death  
Kansas, 2019

Population Group	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 Races	27,312	189	34	60	285	491	684	1,240	3,510	5,147	6,498	9,174	0	74.5
Male	13,828	101	24	33	212	346	429	736	2,048	2,981	3,354	3,564	0	71.5
Female	13,484	88	10	27	73	145	255	504	1,462	2,166	3,144	5,610	0	77.5
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
White Non-Hispanic	24,133	101	20	35	176	339	514	991	2,916	4,539	5,906	8,596	0	75.8
Male	12,080	64	14	19	130	236	316	588	1,681	2,636	3,046	3,350	0	73.0
Female	12,053	37	6	16	46	103	198	403	1,235	1,903	2,860	5,246	0	78.7
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Black Non-Hispanic	1,397	26	3	11	31	66	75	98	298	290	251	248	0	65.2
Male	742	15	2	5	25	45	51	54	175	172	126	72	0	61.3
Female	655	11	1	6	6	21	24	44	123	118	125	176	0	69.7
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Native American Non-Hispanic	180	1	1	0	4	1	6	16	37	39	42	33	0	69.0
Male	102	0	1	0	4	1	3	10	21	23	23	16	0	67.6
Female	78	1	0	0	0	0	3	6	16	16	19	17	0	71.0
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Asian/Pacific Non-Hispanic	222	1	0	0	3	4	13	13	33	44	60	51	0	71.1
Male	110	0	0	0	2	4	10	10	21	20	25	18	0	66.4
Female	112	1	0	0	1	0	3	3	12	24	35	33	0	75.7
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Other Non-Hispanic*	336	15	2	3	20	14	8	25	49	64	64	72	0	63.6
Male	182	2	2	2	13	9	8	10	30	33	36	37	0	63.9
Female	154	13	0	1	7	5	0	15	19	31	28	35	0	63.3
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Hispanic Any Race	982	39	8	11	51	66	67	92	162	151	168	167	0	60.2
Male	561	19	5	7	38	50	41	61	105	78	91	66	0	56.9
Female	421	20	3	4	13	16	26	31	57	73	77	101	0	64.6
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Not Stated	62	6	0	0	0	1	1	5	15	20	7	7	0	60.9
Male	51	1	0	0	0	1	0	3	15	19	7	5	0	66.6
Female	11	5	0	0	0	0	1	2	0	1	0	2	0	34.7
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, 2019

Population Group	Total	Causes of Death										
		Heart Disease	Malignant Neoplasms	Chronic Lower Respiratory Diseases	Unintentional Injuries	Cerebro-vascular Disease	<i>Diabetes Mellitus</i>	Alzheimer's Disease	Nephritis, Nephrotic Syndrome, Nephrosis	Suicide	Pneumonia and Influenza	All Other Causes
Total	27,312	6,058	5,520	1,774	1,578	1,283	879	828	554	521	514	7,803
White Non-Hispanic	24,133	5,418	4,910	1,661	1,316	1,118	724	779	465	432	477	6,833
Black Non-Hispanic	1,397	328	275	46	88	83	66	15	49	23	13	411
Native American Non-Hispanic	180	45	33	18	10	9	4	5	6	1	2	47
Asian/Pacific Non-Hispanic	222	37	50	6	18	13	12	5	8	3	4	66
Other Non-Hispanic*	336	71	59	25	31	9	13	8	1	14	5	100
Hispanic Any Race	982	143	185	14	111	49	57	16	24	47	13	323
n.s.	62	16	8	4	4	2	3	.	1	1	.	23
Male	13,828	3,255	2,890	818	963	564	476	245	276	414	238	3,689
White Non-Hispanic	12,080	2,884	2,589	768	773	484	391	228	235	344	218	3,166
Black Non-Hispanic	742	176	133	21	67	37	36	6	23	19	8	216
Native American Non-Hispanic	102	28	19	8	9	4	2	2	3	1	1	25
Asian/Pacific Non-Hispanic	110	24	22	3	12	8	7	1	5	2	.	26
Other Non-Hispanic*	182	40	32	9	21	4	9	1	1	12	3	50
Hispanic Any Race	561	87	89	6	77	25	28	7	8	36	8	190
n.s.	51	16	6	3	4	2	3	.	1	.	.	16
Female	13,484	2,803	2,630	956	615	719	403	583	278	107	276	4,114
White Non-Hispanic	12,053	2,534	2,321	893	543	634	333	551	230	88	259	3,667
Black Non-Hispanic	655	152	142	25	21	46	30	9	26	4	5	195
Native American Non-Hispanic	78	17	14	10	1	5	2	3	3	.	1	22
Asian/Pacific Non-Hispanic	112	13	28	3	6	5	5	4	3	1	4	40
Other Non-Hispanic*	154	31	27	16	10	5	4	7	.	2	2	50
Hispanic Any Race	421	56	96	8	34	24	29	9	16	11	5	133
n.s.	11	.	2	1	.	.	.	.	.	1	.	7
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, 2019

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	27,312	189	34	60	285	491	684	1,240	3,510	5,147	6,498	9,174	0	74.5
Selected Causes	20,485	74	22	44	249	405	563	1,007	2,867	4,124	4,810	6,320	0	n.a.
Tuberculosis	4	0	0	0	0	0	0	0	1	1	2	0	0	73.0
HIV/AIDS	22	0	0	0	0	1	2	9	5	3	1	1	0	56.0
Malignant Neoplasms	5,520	2	3	3	8	27	96	265	1,107	1,545	1,399	1,065	0	72.4
Diabetes mellitus	879	0	0	0	0	7	16	50	159	216	231	200	0	73.2
Alzheimer's Disease	828	0	0	0	0	0	0	1	8	55	224	540	0	86.6
Heart Disease	6,058	3	0	3	5	27	93	239	649	1,079	1,499	2,461	0	78.5
Prim. Hypertension/Hypertensive Renal Dis. And Sec. Hypertension	275	0	0	0	0	2	7	5	33	36	59	133	0	80.5
Cerebrovascular Disease	1,283	0	0	1	0	6	12	42	108	182	311	621	0	80.4
Atherosclerosis	53	0	0	0	0	0	0	2	4	16	9	22	0	79.5
Pneumonia and Influenza	514	2	2	2	1	5	6	17	47	82	102	248	0	79.3
Chronic Lower Respiratory Diseases	1,774	0	0	2	1	3	5	34	246	453	544	486	0	76.5
Peptic Ulcer	49	0	0	0	0	0	0	3	11	5	9	21	0	77.4
Chronic Liver Disease and Cirrhosis	343	0	0	0	2	11	31	66	111	76	35	11	0	59.7
Nephritis, Nephrotic Syndrome and Nephrosis	554	0	0	0	0	1	6	27	64	124	137	195	0	77.0
Congenital Anomalies	94	47	3	5	5	0	3	4	13	9	2	3	0	24.4
Unintentional Injuries	1,578	19	11	15	112	175	159	163	222	185	223	294	0	58.7
Suicide	521	0	0	6	83	104	106	66	66	48	23	19	0	43.9
Homicide	136	1	3	7	32	36	21	14	13	9	0	0	0	34.4

\* 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, 2019

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	27,312	13,828	13,484	0	937.5	952.5	922.5	74.5	71.5	77.5
Heart Disease	6,058	3,255	2,803	0	207.9	224.2	191.8	78.5	75.6	81.8
Malignant Neoplasms	5,520	2,890	2,630	0	189.5	199.1	179.9	72.4	72.3	72.4
Chronic Lower Respiratory Diseases	1,774	818	956	0	60.9	56.3	65.4	76.5	76.0	76.9
Unintentional Injuries	1,578	963	615	0	54.2	66.3	42.1	58.7	54.4	65.6
Cerebrovascular Disease	1,283	564	719	0	44.0	38.9	49.2	80.4	78.1	82.3
Diabetes mellitus	879	476	403	0	30.2	32.8	27.6	73.2	71.8	74.9
Alzheimer's Disease	828	245	583	0	28.4	16.9	39.9	86.6	84.3	87.6
Nephritis, Nephrotic Syndrome and Nephrosis	554	276	278	0	19.0	19.0	19.0	77.0	75.5	78.6
Suicide	521	414	107	0	17.9	28.5	7.3	43.9	44.5	41.8
Pneumonia and Influenza	514	238	276	0	17.6	16.4	18.9	79.3	76.2	82.0

\*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 2019.

Table E8  
 Death Rates, Age-Adjusted Death Rates and 95% Confidence Intervals  
 for Selected Leading Causes of Death  
 Kansas, 2018-2019

Cause of Death §	2018					2019				
	Number	Death Rate*	Age-Adjusted Death Rate†	CI (95%)‡		Number	Death Rate*	Age-Adjusted Death Rate†	CI (95%)‡	
				Lower	Upper				Lower	Upper
All Causes	27,213	934.7	762.1	752.8	771.4	27,312	937.5	755.3	746.1	764.5
Heart Disease	5,744	197.3	156.7	152.6	160.8	6,058	207.9	163.8	159.5	168.0
Malignant Neoplasms	5,513	189.4	153.8	149.7	157.9	5,520	189.5	151.0	146.9	155.1
Chronic Lower Respiratory Diseases	1,826	62.7	50.1	47.8	52.4	1,774	60.9	47.8	45.5	50.1
Unintentional Injuries	1,512	51.9	47.8	45.3	50.3	1,578	54.2	49.4	46.9	51.9
Cerebrovascular Disease	1,277	43.9	35.3	33.3	37.3	1,283	44.0	34.3	32.4	36.2
Diabetes mellitus	796	27.3	22.4	20.8	24.0	879	30.2	24.2	22.6	25.8
Alzheimer's Disease	887	30.5	23.2	21.7	24.7	828	28.4	21.6	20.1	23.1
Nephritis, Nephrotic Syndrome and Nephrosis	547	18.8	15.2	13.9	16.5	554	19.0	15.0	13.7	16.3
Suicide	555	19.1	19.2	17.6	20.8	521	17.9	18.1	16.5	19.7
Pneumonia and Influenza	626	21.5	17.0	15.6	18.4	514	17.6	13.7	12.5	14.9
Chronic Liver Disease and Cirrhosis	352	12.1	10.6	9.5	11.7	343	11.8	10.4	9.3	11.5
Prim. Hypertension/Hypertensive Renal Disease and Sec. Hypertension	275	9.4	7.5	6.6	8.4	275	9.4	7.3	6.4	8.2
Homicide	159	5.5	5.9	5.0	6.8	136	4.7	4.8	4.0	5.6
Congenital Anomalies	101	3.5	3.7	3.0	4.7	94	3.2	3.3	2.6	4.0
Certain Conditions Originating in the Perinatal Period	102	3.5	3.9	3.1	4.7	81	2.8	3.2	2.5	3.9

\* 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.

Death Rates for Selected  
Leading Causes of Death  
Kansas, 2000-2019

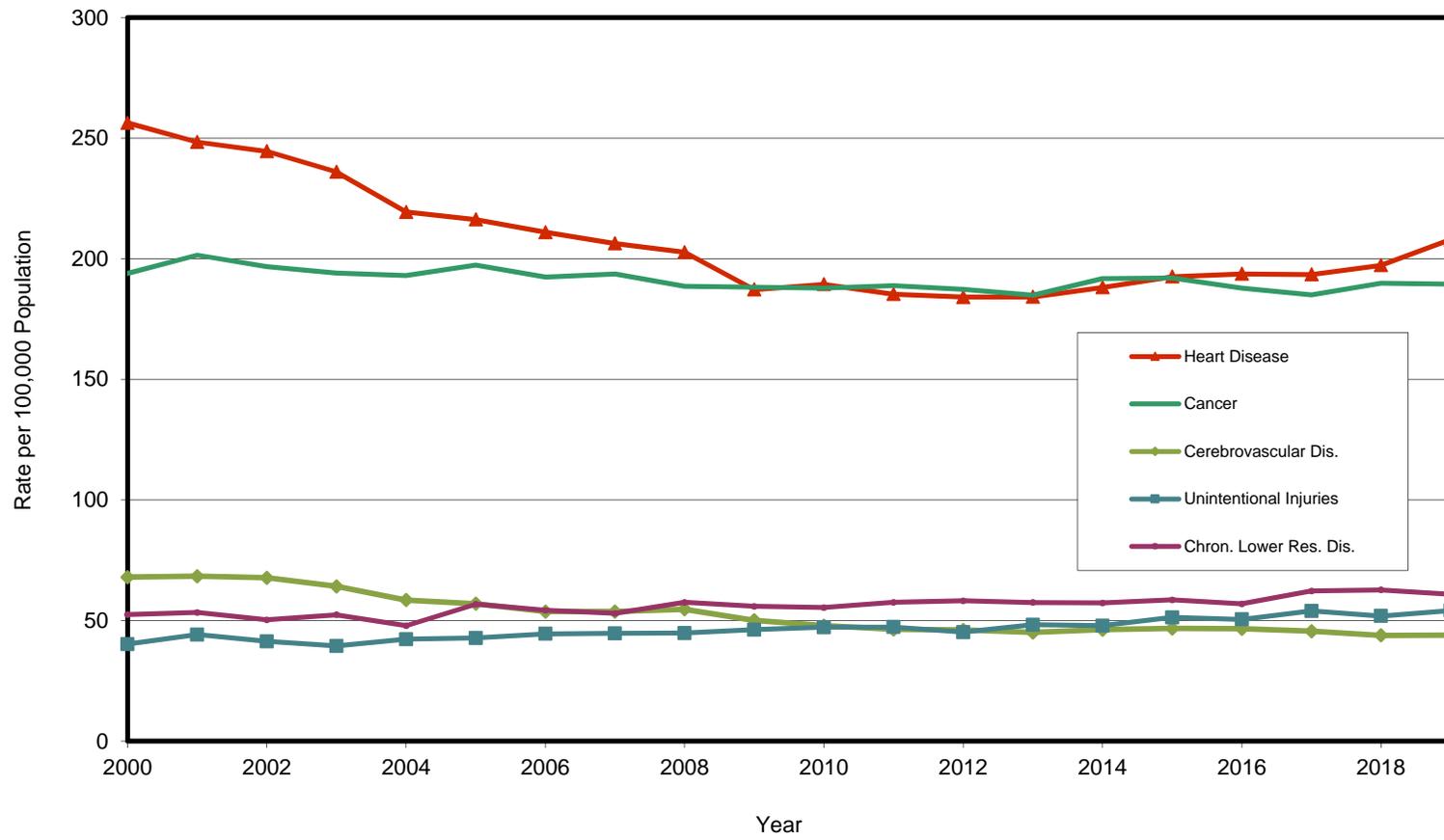


Figure E3

Leading Causes of Death by Age-Group  
Kansas, 2019

**ALL AGES**

CAUSE	NUMBER
HEART DISEASE	6,058
CANCER	5,520
CHRON. LOWER RESP. DIS.	1,774
UNINTENTIONAL INJURIES	1,578
CEREBROVASC. DIS.	1,283
OTHER CAUSES	11,099
<b>TOTAL</b>	<b>27,312</b>

**UNDER 1 YEAR**

CAUSE	NUMBER
CONGENITAL ANOMALIES	47
LENGTH GEST./FETAL GROWTH	32
MATERNAL FACTORS & COMPL.	26
UNINTENTIONAL INJURIES	19
SIDS	6
OTHER CAUSES	59
<b>TOTAL</b>	<b>189</b>

**1-4 YEARS**

CAUSE	NUMBER
UNINTENTIONAL INJURIES	11
CANCER	3
CONGENITAL ANOMALIES	3
HOMICIDE	3
OTHER CAUSES	14
<b>TOTAL</b>	<b>34</b>

**5-14 YEARS**

CAUSE	NUMBER
UNINTENTIONAL INJURIES	15
CANCER	12
HOMICIDE	7
SUICIDE	6
CONGENITAL ANOMALIES	5
OTHER CAUSES	15
<b>TOTAL</b>	<b>60</b>

**15-24 YEARS**

CAUSE	NUMBER
UNINTENTIONAL INJURIES	112
SUICIDE	83
HOMICIDE	32
CANCER	8
HEART DISEASE	5
CONGENITAL ANOMALIES	5
OTHER CAUSES	40
<b>TOTAL</b>	<b>285</b>

**25-44 YEARS**

CAUSE	NUMBER
UNINTENTIONAL INJURIES	334
SUICIDE	210
CANCER	123
HEART DISEASE	120
HOMICIDE	57
OTHER CAUSES	331
<b>TOTAL</b>	<b>1,175</b>

**45-64 YEARS**

CAUSE	NUMBER
CANCER	1,372
HEART DISEASE	888
UNINTENTIONAL INJURIES	385
CHRON. LOWER RESP. DIS.	280
DIABETES MELLITUS	209
OTHER CAUSES	1,616
<b>TOTAL</b>	<b>4,750</b>

**65-84 YEARS**

CAUSE	NUMBER
CANCER	2,944
HEART DISEASE	2,578
CHRON. LOWER RESP. DIS.	997
CEREBROVASC. DIS.	493
DIABETES MELLITUS	447
UNINTENTIONAL INJURIES	408
OTHER CAUSES	3,778
<b>TOTAL</b>	<b>11,645</b>

**85 YEARS AND OVER**

CAUSE	NUMBER
HEART DISEASE	2,461
CANCER	1,065
CEREBROVASC. DIS.	621
ALZHEIMER'S DISEASE	540
CHRON. LOWER RESP. DIS.	486
OTHER CAUSES	4,001
<b>TOTAL</b>	<b>9,174</b>

Figure E4

Table E9  
Pneumonia and Influenza Mortality  
Number and Age-Adjusted Rates  
Kansas Residents, 2000-2019

Year	Number of Deaths	Age-Adjusted Rate
2000	740	24.1
2001	557	18.3
2002	690	22.1
2003	686	21.6
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

Pneumonia and Influenza Deaths  
by Month and by Five-Year Median for Month  
Kansas Residents, 2019

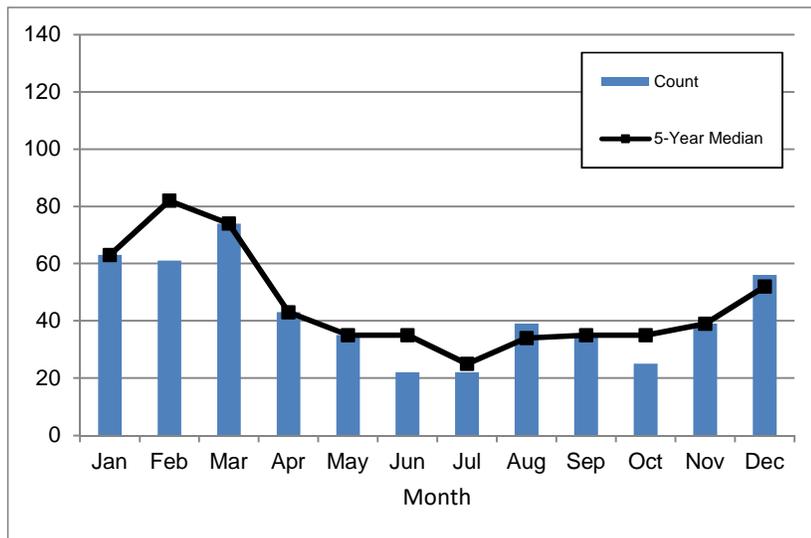


Figure E5

Table E10  
Heart Disease Deaths by Component and Sex of Decedent, by Age-Group of Decedent  
Kansas, 2019

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	6,058	3	0	3	5	27	93	239	649	1,079	1,499	2,461	0
Male	3,255	1	0	0	4	15	63	165	445	707	829	1,026	0
Female	2,803	2	0	3	1	12	30	74	204	372	670	1,435	0
Acute Rheumatic Fever and Chronic Rheumatic Heart Disease	29	0	0	0	0	0	0	5	0	4	8	12	0
Male	15	0	0	0	0	0	0	4	0	1	6	4	0
Female	14	0	0	0	0	0	0	1	0	3	2	8	0
Hypertensive Heart Disease with or without Renal Disease	495	0	0	0	0	4	8	22	52	65	113	231	0
Male	226	0	0	0	0	1	6	16	34	37	50	82	0
Female	269	0	0	0	0	3	2	6	18	28	63	149	0
Ischemic Heart Disease	3,603	0	0	0	2	8	52	150	449	747	946	1,249	0
Male	2,177	0	0	0	2	5	34	107	323	516	571	619	0
Female	1,426	0	0	0	0	3	18	43	126	231	375	630	0
Pulmonary Heart Disease and Diseases of Pulmonary Circulation	167	0	0	0	1	2	8	17	22	32	38	47	0
Male	72	0	0	0	0	0	4	11	9	13	17	18	0
Female	95	0	0	0	1	2	4	6	13	19	21	29	0
Other Forms of Heart Disease	1,764	3	0	3	2	13	25	45	126	231	394	922	0
Male	765	1	0	0	2	9	19	27	79	140	185	303	0
Female	999	2	0	3	0	4	6	18	47	91	209	619	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, 2019

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)	5,520	2	3	3	8	27	96	265	1,107	1,545	1,399	1,065
Male	2,890	0	2	1	3	14	36	129	570	868	754	513
Female	2,630	2	1	2	5	13	60	136	537	677	645	552
Lip, Oral Cavity and Pharynx	84	0	0	1	0	0	0	6	16	26	21	14
Male	48	0	0	0	0	0	0	3	10	20	11	4
Female	36	0	0	1	0	0	0	3	6	6	10	10
Digestive Organs	1,417	0	0	0	2	6	25	93	313	412	329	237
Male	834	0	0	0	1	2	13	57	201	258	201	101
Female	583	0	0	0	1	4	12	36	112	154	128	136
Respiratory and Intrathoracic Organs	1,435	0	0	0	0	1	11	45	320	469	400	189
Male	761	0	0	0	0	1	4	25	175	262	219	75
Female	674	0	0	0	0	0	7	20	145	207	181	114
Bone and Articular Cartilage	15	0	0	0	1	1	0	2	2	4	3	2
Male	9	0	0	0	1	1	0	2	1	2	1	1
Female	6	0	0	0	0	0	0	0	1	2	2	1
Skin	127	0	0	0	0	1	6	4	26	35	23	32
Male	78	0	0	0	0	0	1	1	17	25	13	21
Female	49	0	0	0	0	1	5	3	9	10	10	11
Mesothelial and Soft Tissue	79	1	0	0	1	0	1	9	18	13	25	11
Male	36	0	0	0	0	0	1	6	7	6	13	3
Female	43	1	0	0	1	0	0	3	11	7	12	8
Breast	413	0	0	0	0	4	16	24	106	93	86	84
Male	3	0	0	0	0	0	0	0	1	1	1	0
Female	410	0	0	0	0	4	16	24	105	92	85	84
Genital Organs	546	0	0	0	0	1	11	20	88	131	134	161
Male	285	0	0	0	0	1	0	1	25	61	80	117
Female	261	0	0	0	0	0	11	19	63	70	54	44
Urinary Tract	286	0	0	0	0	2	2	11	37	80	78	76
Male	195	0	0	0	0	1	1	10	26	55	50	52
Female	91	0	0	0	0	1	1	1	11	25	28	24
Eye and Adnexa	8	0	0	0	0	0	0	2	0	4	1	1
Male	6	0	0	0	0	0	0	1	0	4	0	1
Female	2	0	0	0	0	0	0	1	0	0	1	0
Meninges, Brain and Other Parts of Central Nervous System	173	0	2	0	3	5	10	20	40	48	28	17
Male	104	0	2	0	1	4	9	11	25	26	14	12
Female	69	0	0	0	2	1	1	9	15	22	14	5
Thyroid and Other Endocrine Glands	35	0	0	0	0	0	0	1	9	10	13	2
Male	20	0	0	0	0	0	0	0	7	5	8	0
Female	15	0	0	0	0	0	0	1	2	5	5	2
Other and Unspecified Sites	351	1	0	0	0	1	5	13	64	102	88	77
Male	200	0	0	0	0	0	3	6	41	60	49	41
Female	151	1	0	0	0	1	2	7	23	42	39	36
Leukemia	221	0	1	2	1	3	5	7	23	49	68	62
Male	128	0	0	1	0	2	2	2	11	35	36	39
Female	93	0	1	1	1	1	3	5	12	14	32	23
Other Lymphoid, Hematopoietic and Related Tissue	330	0	0	0	0	2	4	8	45	69	102	100
Male	183	0	0	0	0	2	2	4	23	48	58	46
Female	147	0	0	0	0	0	2	4	22	21	44	54

\* 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, 2019

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	1,283	0	0	1	0	6	12	42	108	182	311	621
Male	564	0	0	0	0	3	8	21	56	97	157	222
Female	719	0	0	1	0	3	4	21	52	85	154	399
Subarachnoid Hemorrhage	51	0	0	1	0	1	6	9	10	9	8	7
Male	18	0	0	0	0	1	3	6	2	1	4	1
Female	33	0	0	1	0	0	3	3	8	8	4	6
Intracerebral and Other Intercranial Hemorrhage	256	0	0	0	0	4	3	15	38	38	73	85
Male	123	0	0	0	0	2	3	9	17	21	41	30
Female	133	0	0	0	0	2	0	6	21	17	32	55
Cerebral Infarction	121	0	0	0	0	0	1	4	11	18	27	60
Male	53	0	0	0	0	0	1	3	7	11	12	19
Female	68	0	0	0	0	0	0	1	4	7	15	41
Stroke, Not Specified as Hemorrhage or Infarction	625	0	0	0	0	1	2	10	39	85	160	328
Male	278	0	0	0	0	0	1	3	24	48	79	123
Female	347	0	0	0	0	1	1	7	15	37	81	205
Other Cerebrovascular Diseases	230	0	0	0	0	0	0	4	10	32	43	141
Male	92	0	0	0	0	0	0	0	6	16	21	49
Female	138	0	0	0	0	0	0	4	4	16	22	92

\* 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, 2019

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	1,578	19	11	15	112	175	159	163	222	185	223	294
Male	963	14	8	9	81	128	114	108	152	110	114	125
Female	615	5	3	6	31	47	45	55	70	75	109	169
Motor-Vehicle	398	3	3	10	71	59	56	44	56	52	28	16
Male	281	3	2	6	49	42	43	34	42	35	15	10
Female	117	0	1	4	22	17	13	10	14	17	13	6
<i>Traffic</i>	377	3	1	9	69	56	53	40	55	49	27	15
Male	264	3	1	6	48	40	40	30	41	32	14	9
Female	113	0	0	3	21	16	13	10	14	17	13	6
<i>Non-Traffic</i>	21	0	2	1	2	3	3	4	1	3	1	1
Male	17	0	1	0	1	2	3	4	1	3	1	1
Female	4	0	1	1	1	1	0	0	0	0	0	0
Water Transport	1	0	0	0	0	1	0	0	0	0	0	0
Male	1	0	0	0	0	1	0	0	0	0	0	0
Female	0	0	0	0	0	0	0	0	0	0	0	0
Air and Space Transport	5	0	0	0	0	1	0	0	1	3	0	0
Male	4	0	0	0	0	1	0	0	0	3	0	0
Female	1	0	0	0	0	0	0	0	1	0	0	0
Falls	424	0	0	0	1	2	3	16	35	57	108	202
Male	198	0	0	0	1	2	3	12	20	33	50	77
Female	226	0	0	0	0	0	0	4	15	24	58	125
Inanimate Mechanical Forces	32	0	0	1	3	5	4	7	6	1	5	0
Male	28	0	0	1	2	5	4	7	5	0	4	0
Female	4	0	0	0	1	0	0	0	1	1	1	0
Drowning and Submersion	29	0	2	0	5	8	1	1	3	5	4	0
Male	26	0	2	0	4	7	1	1	3	5	3	0
Female	3	0	0	0	1	1	0	0	0	0	1	0
Other Accidental Threats to Breathing	80	14	3	0	0	2	3	5	12	11	16	14
Male	50	11	2	0	0	1	2	2	10	5	6	11
Female	30	3	1	0	0	1	1	3	2	6	10	3

Table E13  
Unintentional Injury Deaths by Component and Sex of Decedent, by Age-Group of Decedent  
Kansas, 2019

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	5	0	0	0	0	1	1	3	0	0	0	0
Male	5	0	0	0	0	1	1	3	0	0	0	0
Female	0	0	0	0	0	0	0	0	0	0	0	0
Smoke, Fire and Flames	36	0	1	2	0	3	0	5	7	9	8	1
Male	23	0	0	0	0	1	0	4	6	4	7	1
Female	13	0	1	2	0	2	0	1	1	5	1	0
Forces of Nature	15	1	1	1	0	1	1	1	2	3	2	2
Male	10	0	1	1	0	1	1	0	2	2	1	1
Female	5	1	0	0	0	0	0	1	0	1	1	1
Poisonings	369	0	0	0	30	86	81	69	76	19	5	3
Male	238	0	0	0	23	61	54	36	48	9	4	3
Female	131	0	0	0	7	25	27	33	28	10	1	0
Other Unintentional Injuries	109	1	1	1	2	5	3	9	15	8	27	37
Male	59	0	1	1	2	4	2	7	11	4	15	12
Female	50	1	0	0	0	1	1	2	4	4	12	25
Complications of Medical and Surgical Care	75	0	0	0	0	1	6	3	9	17	20	19
Male	40	0	0	0	0	1	3	2	5	10	9	10
Female	35	0	0	0	0	0	3	1	4	7	11	9

\* 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, 2019\*

Cause Group †	Total	Unintentional	Suicide	Homicide	Undetermined	Legal/War
Total	2,193	1,503	521	136	27	6
Cut/Pierce	23	1	8	13	1	0
Drowning	33	29	2	1	1	0
Falls	429	424	5	0	0	0
Fire/flame	38	36	1	0	1	0
Hot Object/Scalding	1	1	0	0	0	0
Firearm	401	5	290	98	2	6
Machinery	11	11	0	0	0	0
Motor Vehicle Traffic	377	377	0	0	0	0
Other Pedal Cyclist	5	5	0	0	0	0
Other Pedestrian	14	14	0	0	0	0
Other Land Transport	21	17	4	0	0	0
Other Transport	6	6	0	0	0	0
Natural/Environmental	16	16	0	0	0	0
Overexertion	0	0	0	0	0	0
Poisoning	447	369	60	0	18	0
Struck By/Against	13	12	0	1	0	0
Suffocation	226	80	143	2	1	0
Other Specified	27	16	6	5	0	0
NEC §	14	7	1	5	1	0
Not Specified	91	77	1	11	2	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, 2010-2019

Type of Industry	Total	Year									
		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Total	574	74	59	49	59	58	50	55	49	48	73
Agriculture, Forestry, Fishing and Hunting	90	15	10	11	9	13	7	3	6	6	10
Mining	23	2	0	2	5	3	2	3	1	3	2
Utilities	11	1	1	0	1	0	2	3	2	0	1
Construction	106	18	15	9	13	5	7	6	10	12	11
Manufacturing	61	6	5	4	5	13	4	10	3	3	8
Wholesale Trade	29	1	8	4	1	3	4	2	3	1	2
Retail Trade	29	9	2	5	1	0	0	3	2	0	7
Transportation and Warehousing	63	6	5	3	12	6	6	7	7	7	4
Information	1	0	0	0	0	1	0	0	0	0	0
Finance and Insurance	1	0	0	0	0	0	1	0	0	0	0
Real Estate, and Rental, and Leasing	2	0	0	0	0	0	0	1	0	1	0
Professional, Scientific and Technical Services	8	1	0	1	0	2	0	0	2	1	1
Management of Companies and Enterprises	1	0	0	0	0	0	0	0	0	0	1
Admin. and Support & Waste Management Services	17	1	2	1	0	3	3	0	0	1	6
Educational Services	8	1	1	1	0	1	0	3	0	0	1
Health Care and Social Assistance	18	1	0	1	1	2	0	2	4	2	5
Arts, Entertainment, and Recreation	7	1	0	0	0	1	0	1	0	2	2
Accommodation and Food Services	5	0	1	0	2	0	0	0	0	1	1
Other Services (except Public Admin.)	19	2	2	1	1	1	5	1	3	1	2
Public Admin. and Active Duty Military	36	4	2	4	1	3	1	6	4	5	6
Housewives, Students, Children, Volunteers and None <sup>§</sup>	14	3	3	0	3	0	3	2	0	0	0
n.s.	25	2	2	2	4	1	5	2	2	2	3

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

<sup>§</sup>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, 2019

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
Total	3,927	0	0	2	3	24	65	187	628	926	1,024	1,068
Male	1,947	0	0	1	2	17	37	104	356	497	505	428
Female	1,980	0	0	1	1	7	28	83	272	429	519	640
Diabetes mellitus	879	0	0	0	0	7	16	50	159	216	231	200
Male	476	0	0	0	0	5	8	30	98	122	121	92
Female	403	0	0	0	0	2	8	20	61	94	110	108
Primary Hypertension/Hypertensive Renal Dis. And Secondary Hypertension	275	0	0	0	0	2	7	5	33	36	59	133
Male	113	0	0	0	0	1	6	1	18	19	34	34
Female	162	0	0	0	0	1	1	4	15	17	25	99
Atherosclerosis	53	0	0	0	0	0	0	2	4	16	9	22
Male	24	0	0	0	0	0	0	2	2	7	3	10
Female	29	0	0	0	0	0	0	0	2	9	6	12
Chronic Lower Respiratory Diseases	1,774	0	0	2	1	3	5	34	246	453	544	486
Male	818	0	0	1	0	1	1	12	113	234	262	194
Female	956	0	0	1	1	2	4	22	133	219	282	292
Peptic Ulcer	49	0	0	0	0	0	0	3	11	5	9	21
Male	23	0	0	0	0	0	0	3	7	3	3	7
Female	26	0	0	0	0	0	0	0	4	2	6	14
Chronic Liver Disease and Cirrhosis	343	0	0	0	2	11	31	66	111	76	35	11
Male	217	0	0	0	2	9	17	41	79	49	18	2
Female	126	0	0	0	0	2	14	25	32	27	17	9
Nephritis, Nephrotic Syndrome, and Nephrosis	554	0	0	0	0	1	6	27	64	124	137	195
Male	276	0	0	0	0	1	5	15	39	63	64	89
Female	278	0	0	0	0	0	1	12	25	61	73	106

\* 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, 2019

Underlying Cause of Death	Number of Deaths with Underlying Cause	Number of Deaths in which Diabetes was Contributing Cause
HIV (AIDS)	22	1
Cancer	5,520	248
<i>Diabetes mellitus</i>	879	876
Alzheimer's Disease	828	60
Heart Disease	6,058	568
Primary Hypertension/Hypertensive Renal Disease/Secondary Hypertension	275	29
Cerebrovascular Disease	1,283	81
Atherosclerosis	53	2
Influenza and Pneumonia	514	20
Chronic Lower Respiratory Disease	1,774	119
Chronic Liver Disease and Cirrhosis	343	16
Nephritis, Nephrotic Syndrome, Nephrosis	554	2
Accidents/Adverse Effects	1,578	64
Suicide	521	7
Total for These Causes	20,202	2,093

Table E18  
Deaths by Occupation of Decedent\* by  
Selected Causes of Death  
Kansas, 2019

Occupation of Decedent	Total	Selected Causes of Death †											
		Heart Disease	Malignant Neoplasms	Cerebrovascular Disease	Unintentional Injuries	Chronic Lower Respiratory Diseases	Suicide	Atherosclerosis	Chronic Liver Disease and Cirrhosis	Homicide	Peptic Ulcer	Hypertension	All Other Causes
Total	27,312	6,058	5,520	1,283	1,578	1,774	521	53	343	136	49	275	9,722
Management	2,077	472	520	76	101	107	33	6	25	4	5	17	711
Business and Financial Operations	709	142	169	42	31	48	11	1	5	1	0	10	249
Computer and Mathematical	172	29	38	9	12	11	6	0	5	0	0	3	59
Architecture and Engineering	529	137	105	29	19	24	10	0	8	3	1	4	189
Life, Physical, and Social Services	173	46	48	4	6	6	5	0	6	0	0	0	52
Community and Social Services	344	83	78	11	21	18	1	0	2	1	0	2	127
Legal	134	30	26	4	11	9	5	1	2	0	1	0	45
Education, Training, and Library	1,321	281	271	84	67	55	5	2	8	1	3	4	540
Arts, Design, Entertainment, Sports, and Media	329	74	73	18	18	23	7	0	7	2	1	6	100
Healthcare Practitioners and Technical	970	206	200	46	43	59	21	1	19	1	0	12	362
Healthcare Support	709	141	142	31	47	64	12	4	9	3	1	15	240
Protective Service	302	65	83	11	4	18	9	2	4	2	0	3	101
Food Preparation and Serving Related	676	149	119	23	53	53	13	1	17	8	0	3	237
Building and Grounds Cleaning and Maintenance	747	160	167	35	43	52	20	0	10	6	1	10	243
Personal Care and Service	528	108	105	28	31	33	5	1	9	4	2	4	198
Sales and Related	1,957	424	415	86	119	128	38	1	16	6	10	19	695
Office and Admin. Support	2,541	576	503	128	110	153	19	6	22	4	4	32	984
Farming, Forestry, and Fishing	1,273	338	228	58	60	79	15	5	6	4	1	18	461
Construction and Extraction	1,582	360	355	45	157	141	52	2	43	9	4	8	406
Installation, Repair, and Maintenance	911	206	212	48	62	49	33	2	11	2	0	6	280
Production	1,896	436	388	88	103	149	48	4	24	9	6	21	620
Transportation and Material Moving	1,775	409	412	71	121	144	46	2	32	17	2	13	506
Housewives, Students, Children, Volunteers, and None <sup>§</sup>	4,114	859	581	232	215	252	66	9	34	28	4	50	1,784
n.s.	1,543	327	282	76	124	99	41	3	19	21	3	15	533

\*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, 2019

Type of Industry	Total	Selected Causes of Death †											
		Heart Disease	Malignant Neoplasms	Cerebrovascular Disease	Unintentional Injuries	Chronic Lower Respiratory Diseases	Suicide	Atherosclerosis	Chronic Liver Disease and Cirrhosis	Homicide	Peptic Ulcer	Hyper-tension	All Other Causes
Total	27,312	6,058	5,520	1,283	1,578	1,774	521	53	343	136	49	275	9,722
Agriculture, Forestry, Fishing and Hunting	1,375	361	260	59	68	87	16	5	8	6	1	18	486
Mining	231	51	54	7	20	12	6	1	2	0	0	2	76
Utilities	365	92	91	19	15	19	7	1	10	1	0	2	108
Construction	1,657	371	384	51	155	132	58	2	47	11	6	12	428
Manufacturing	2,992	697	648	125	143	216	64	4	49	13	8	27	998
Wholesale Trade	238	60	52	10	18	16	6	0	1	0	1	1	73
Retail Trade	2,161	475	453	96	118	140	46	5	18	8	9	21	772
Transportation and Warehousing	1,515	343	368	84	83	97	31	1	18	13	2	11	464
Information	527	129	106	28	26	29	5	0	7	0	2	4	191
Finance and Insurance	799	160	171	37	40	48	9	3	7	0	0	15	309
Real Estate, and Rental, and Leasing	238	57	51	7	11	15	5	0	4	0	0	1	87
Professional, Scientific and Technical Services	821	184	174	33	51	44	18	2	11	0	2	10	292
Management of Companies and Enterprises	71	17	20	5	3	4	0	0	0	0	0	0	22
Admin. and Support & Waste Management Services	514	101	108	33	39	27	21	1	8	7	1	7	161
Educational Services	1,964	412	402	109	92	99	10	3	13	3	3	8	810
Health Care and Social Assistance	2,523	532	543	108	133	174	44	8	34	4	2	41	900
Arts, Entertainment, and Recreation	193	42	46	11	13	20	4	0	2	2	1	2	50
Accommodation and Food Services	778	164	143	30	54	64	17	0	17	9	0	5	275
Other Services (except Public Admin.)	1,583	349	317	78	108	109	39	1	20	8	5	20	529
Public Admin. and Active Duty Military	1,678	394	370	74	82	104	43	6	16	8	1	11	569
Housewives, Students, Children, Volunteers and None <sup>§</sup>	4,055	852	577	231	207	251	52	9	32	24	4	48	1,768
n.s.	1,034	215	182	48	99	67	20	1	19	19	1	9	354

\*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.

<sup>§</sup>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, 2019

CAUSE OF DEATH *	Number of Deaths	Total Years Life Lost <sup>§</sup>	Percent Years Lost By Cause	Rate <sup>†</sup> Years Lost By Cause
Total Deaths	27,312	192,077	100.0	65.9
Heart Disease	6,058	26,307	13.7	9.0
Cancer	5,520	36,473	19.0	12.5
Chronic Lower Respiratory Dis.	1,774	7,127	3.7	2.4
Unintentional Injuries	1,578	31,385	16.3	10.8
Cerebrovascular Disease	1,283	4,293	2.2	1.5
Alzheimer's Disease	879	5,626	2.9	1.9
<i>Diabetes mellitus</i>	828	326	0.2	0.1
Nephritis and Nephrotic Syndrome	554	2,510	1.3	0.9
Suicide	521	16,522	8.6	5.7
Pneumonia and Influenza	510	2,447	1.3	0.8
Chronic Liver Disease and Cirrhosis	343	5,537	2.9	1.9
Homicide	136	5,522	2.9	1.9
Atherosclerosis	53	186	0.1	0.1
All Other Causes	7,275	47,816	24.9	16.4
Male Deaths	13,828	118,490	100.0	81.6
Heart Disease	3,255	17,640	14.9	12.2
Cancer	2,890	18,324	15.5	12.6
Unintentional Injuries	963	22,246	18.8	15.3
Chronic Lower Respiratory Dis.	818	3,202	2.7	2.2
Cerebrovascular Disease	564	2,269	1.9	1.6
<i>Diabetes mellitus</i>	476	3,351	2.8	2.3
Suicide	414	12,965	10.9	8.9
Nephritis and Nephrotic Syndrome	276	1,480	1.2	1.0
Alzheimer's Disease	245	168	0.1	0.1
Pneumonia and Influenza	235	1,378	1.2	0.9
Chronic Liver Disease and Cirrhosis	217	3,698	3.1	2.5
Homicide	108	4,411	3.7	3.0
Atherosclerosis	24	120	0.1	0.1
All Other Causes	3,343	27,238	23.0	18.8
Female Deaths	13,484	73,587	100.0	50.3
Heart Disease	2,803	8,667	11.8	5.9
Cancer	2,630	18,149	24.7	12.4
Chronic Lower Respiratory Dis.	956	3,925	5.3	2.7
Cerebrovascular Disease	719	2,024	2.8	1.4
Unintentional Injuries	615	9,139	12.4	6.3
Alzheimer's Disease	583	158	0.2	0.1
<i>Diabetes mellitus</i>	403	2,275	3.1	1.6
Nephritis and Nephrotic Syndrome	278	1,030	1.4	0.7
Pneumonia and Influenza	275	1,069	1.5	0.7
Chronic Liver Disease and Cirrhosis	126	1,839	2.5	1.3
Suicide	107	3,557	4.8	2.4
Atherosclerosis	29	66	0.1	0.0
Homicide	28	1,111	1.5	0.8
All Other Causes	3,932	20,578	28.0	14.1

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

† Rate per 1,000 population.

§ Total Deaths section includes data for five decedents of unstated sex.

Selected Causes of Death by Percent of Total Years of Potential Life Lost, Kansas 2019

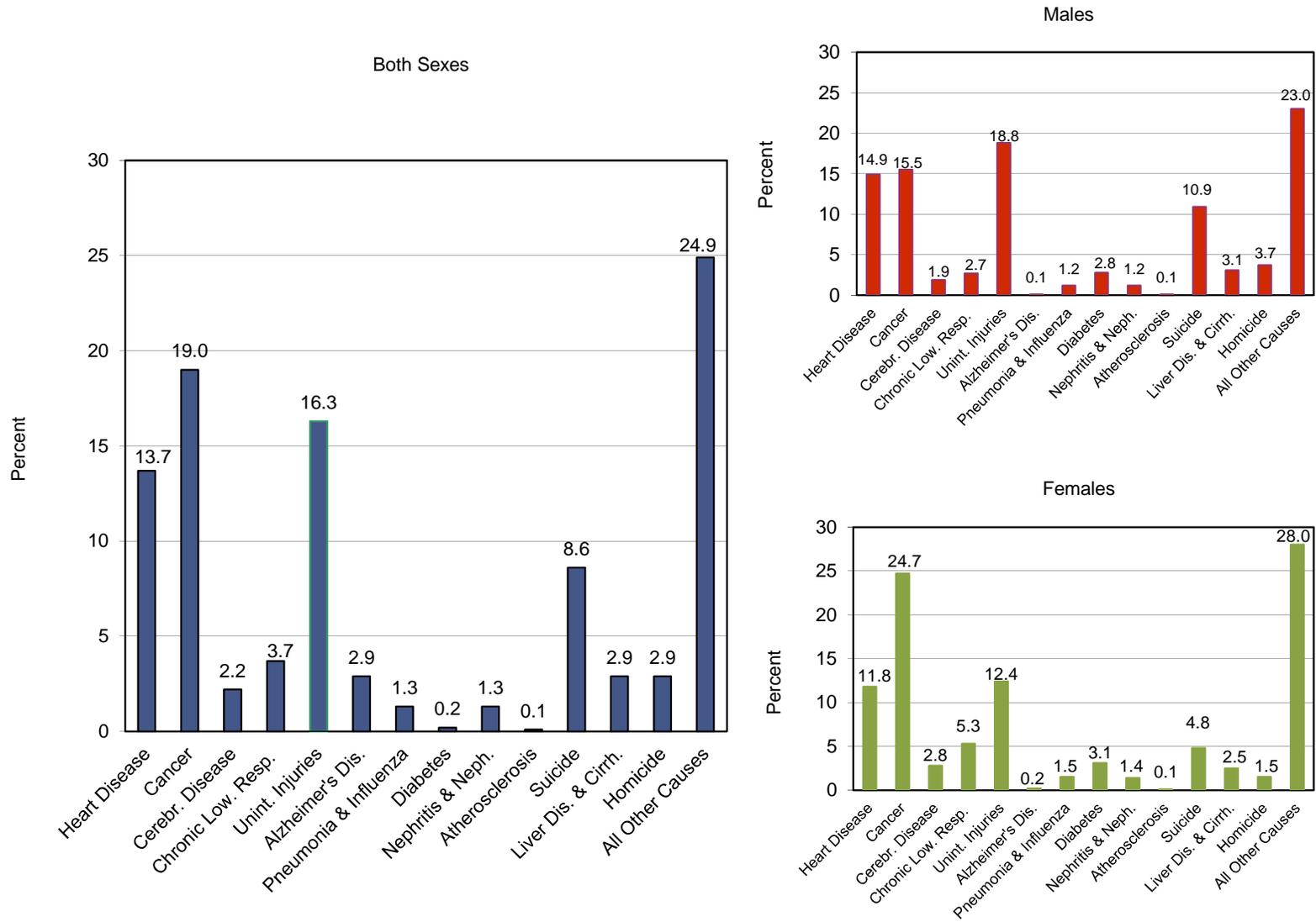


Figure E6

Table E21  
Deaths from 39 Selected Causes by Number and Percent and Sex of Decedent  
Related to Tobacco  
Kansas, 2019

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	27,312	3,085	1,708	25.1	14,273	19,066	8,246
Male	13,828	1,783	1,059	30.5	6,485	9,327	4,501
Female	13,484	1,302	649	20.0	7,788	9,739	3,745
Tuberculosis	4	0	0	0.0	3	3	1
Male	1	0	0	0.0	1	1	0
Female	3	0	0	0.0	2	2	1
Syphilis	2	0	0	0.0	1	1	1
Male	1	0	0	0.0	0	0	1
Female	1	0	0	0.0	1	1	0
HIV/AIDS	22	2	1	30.0	7	10	12
Male	17	2	1	30.0	7	10	7
Female	5	0	0	0.0	0	0	5
Cancer of Stomach	83	4	7	19.0	47	58	25
Male	48	1	5	17.1	29	35	13
Female	35	3	2	21.7	18	23	12
Cancer of Colon, Rectum & Anus	455	18	24	13.1	279	321	134
Male	243	8	19	15.8	144	171	72
Female	212	10	5	10.0	135	150	62
Cancer of Pancreas	411	16	17	11.5	255	288	123
Male	232	11	9	13.1	133	153	79
Female	179	5	8	9.6	122	135	44
Cancer of Trachea, Bronchus & Lung	1,392	682	226	86.6	140	1,048	344
Male	725	383	124	90.4	54	561	164
Female	667	299	102	82.3	86	487	180
Cancer of Breast	413	9	12	6.6	296	317	96
Male	3	1	1	100.0	0	2	1
Female	410	8	11	6.0	296	315	95
Cancer of Cervix, Corpus & Ovary	240	3	7	5.3	180	190	50
Male	0	0	0	0.0	0	0	0
Female	240	3	7	5.3	180	190	50

Table E21  
Deaths from 39 Selected Causes by Number and Percent and Sex of Decedent  
Related to Tobacco  
Kansas, 2019

Cause of Death * and Sex of Decedent	Total	Did Tobacco Use Contribute to This Death?					Total Known	Unknown
		Yes	Probably	Yes + Probably as % of Known	No			
Cancer of Prostate	282	9	7	7.9	187	203	79	
Male	282	9	7	7.9	187	203	79	
Female	0	0	0	0.0	0	0	0	
Cancer of Urinary Tract	286	32	47	40.3	117	196	90	
Male	195	22	39	48.4	65	126	69	
Female	91	10	8	25.7	52	70	21	
Non-Hodgkin's Lymphoma	206	10	3	8.4	141	154	52	
Male	110	5	2	9.2	69	76	34	
Female	96	5	1	7.7	72	78	18	
Leukemia	221	10	8	10.4	155	173	48	
Male	128	3	7	9.6	94	104	24	
Female	93	7	1	11.6	61	69	24	
Other Malignant Neoplasms	1,531	136	128	24.1	831	1,095	436	
Male	924	101	93	30.2	449	643	281	
Female	607	35	35	15.5	382	452	155	
Diabetes mellitus	879	120	62	28.9	448	630	249	
Male	476	71	35	32.8	217	323	153	
Female	403	49	27	24.8	231	307	96	
Alzheimer's Disease	828	9	14	3.5	629	652	176	
Male	245	8	8	8.9	164	180	65	
Female	583	1	6	1.5	465	472	111	
Hypertensive Heart Disease	495	43	32	24.8	228	303	192	
Male	226	27	21	36.6	83	131	95	
Female	269	16	11	15.7	145	172	97	
Ischemic Heart Disease	3,603	489	273	35.2	1,401	2,163	1,440	
Male	2,177	334	211	43.9	696	1,241	936	
Female	1,426	155	62	23.5	705	922	504	
Other Heart Disease	1,960	96	84	14.5	1,058	1,238	722	
Male	852	58	50	22.6	369	477	375	
Female	1,108	38	34	9.5	689	761	347	

Table E21  
Deaths from 39 Selected Causes by Number and Percent and Sex of Decedent  
Related to Tobacco  
Kansas, 2019

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	275	22	14	19.4	150	186	89
Male	113	14	8	31.4	48	70	43
Female	162	8	6	12.1	102	116	46
Cerebrovascular Disease	1,283	80	80	19.5	662	822	461
Male	564	49	48	28.0	249	346	218
Female	719	31	32	13.2	413	476	243
Atherosclerosis	53	6	2	25.8	23	31	22
Male	24	2	2	36.4	7	11	13
Female	29	4	0	20.0	16	20	9
Other Disease of Circulatory System	203	32	28	46.9	68	128	75
Male	103	14	17	49.2	32	63	40
Female	100	18	11	44.6	36	65	35
Pneumonia & Influenza	514	26	27	16.4	270	323	191
Male	238	16	15	22.8	105	136	102
Female	276	10	12	11.8	165	187	89
Chronic Lower Respiratory Disease	1,774	879	295	83.7	229	1,403	371
Male	818	435	138	86.6	89	662	156
Female	956	444	157	81.1	140	741	215
Peptic Ulcer	49	3	2	12.2	36	41	8
Male	23	3	2	27.8	13	18	5
Female	26	0	0	0.0	23	23	3
Chronic Liver Disease & Cirrhosis	343	22	29	21.0	192	243	100
Male	217	15	24	25.0	117	156	61
Female	126	7	5	13.8	75	87	39
Nephritis, Nephrotic Syndrome & Nephrosis	554	22	15	10.3	323	360	194
Male	276	12	11	13.4	149	172	104
Female	278	10	4	7.4	174	188	90
Pregnancy, Childbirth, & the Puerperium	13	2	0	20.0	8	10	3
Male	0	0	0	0.0	0	0	0
Female	13	2	0	20.0	8	10	3

Table E21  
Deaths from 39 Selected Causes by Number and Percent and Sex of Decedent  
Related to Tobacco  
Kansas, 2019

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	81	2	1	3.8	75	78	3
Male	41	1	1	5.3	36	38	3
Female	40	1	0	2.5	39	40	0
Congenital Anomalies	94	3	0	3.4	86	89	5
Male	46	1	0	2.2	44	45	1
Female	48	2	0	4.5	42	44	4
Sudden Infant Death Syndrome	6	0	0	0.0	6	6	0
Male	3	0	0	0.0	3	3	0
Female	3	0	0	0.0	3	3	0
Symptoms and Abnormal Findings	491	8	6	4.4	306	320	171
Male	232	6	5	8.9	113	124	108
Female	259	2	1	1.5	193	196	63
All Other Diseases	5,998	250	230	11.2	3,792	4,272	1,726
Male	2,740	146	141	15.2	1,599	1,886	854
Female	3,258	104	89	8.1	2,193	2,386	872
Motor Vehicle Accidents	398	1	1	0.6	319	321	77
Male	281	0	1	0.4	233	234	47
Female	117	1	0	1.1	86	87	30
All Other Accidents and Adverse Effects	1,180	35	23	7.3	733	791	389
Male	682	22	12	7.5	417	451	231
Female	498	13	11	7.1	316	340	158
Suicide	521	4	2	1.3	444	450	71
Male	414	3	2	1.4	353	358	56
Female	107	1	0	1.1	91	92	15
Homicide	136	0	0	0.0	128	128	8
Male	108	0	0	0.0	102	102	6
Female	28	0	0	0.0	26	26	2
All Other External Causes	33	0	1	4.8	20	21	12
Male	20	0	0	0.0	15	15	5
Female	13	0	1	16.7	5	6	7

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



Table E22  
Deaths from 39 Selected Causes  
by Sex by Age-Group of Decedent  
Kansas, 2019

Cause of Death * and Sex of Decedent	Total	Age-Group											n.s.
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	
Cancer of Urinary Tract	286	0	0	0	0	2	2	11	37	80	78	76	0
Male	195	0	0	0	0	1	1	10	26	55	50	52	0
Female	91	0	0	0	0	1	1	1	11	25	28	24	0
Non-Hodgkin's Lymphoma	206	0	0	0	0	1	4	4	27	42	61	67	0
Male	110	0	0	0	0	1	2	2	12	33	33	27	0
Female	96	0	0	0	0	0	2	2	15	9	28	40	0
Leukemia	221	0	1	2	1	3	5	7	23	49	68	62	0
Male	128	0	0	1	0	2	2	2	11	35	36	39	0
Female	93	0	1	1	1	1	3	5	12	14	32	23	0
Other Malignant Neoplasms	1,531	2	2	1	7	14	30	84	327	448	355	261	0
Male	924	0	2	0	3	9	18	47	208	290	202	145	0
Female	607	2	0	1	4	5	12	37	119	158	153	116	0
Diabetes mellitus	879	0	0	0	0	7	16	50	159	216	231	200	0
Male	476	0	0	0	0	5	8	30	98	122	121	92	0
Female	403	0	0	0	0	2	8	20	61	94	110	108	0
Alzheimer's Disease	828	0	0	0	0	0	0	1	8	55	224	540	0
Male	245	0	0	0	0	0	0	0	4	32	69	140	0
Female	583	0	0	0	0	0	0	1	4	23	155	400	0
Hypertensive Heart Disease	495	0	0	0	0	4	8	22	52	65	113	231	0
Male	226	0	0	0	0	1	6	16	34	37	50	82	0
Female	269	0	0	0	0	3	2	6	18	28	63	149	0
Ischemic Heart Disease	3,603	0	0	0	2	8	52	150	449	747	946	1,249	0
Male	2,177	0	0	0	2	5	34	107	323	516	571	619	0
Female	1,426	0	0	0	0	3	18	43	126	231	375	630	0
Other Heart Disease	1,960	3	0	3	3	15	33	67	148	267	440	981	0
Male	852	1	0	0	2	9	23	42	88	154	208	325	0
Female	1,108	2	0	3	1	6	10	25	60	113	232	656	0
Prim. Hypertension/ Hypertensive Renal Dis. & Sec. Hypertension	275	0	0	0	0	2	7	5	33	36	59	133	0
Male	113	0	0	0	0	1	6	1	18	19	34	34	0
Female	162	0	0	0	0	1	1	4	15	17	25	99	0



Table E22  
Deaths from 39 Selected Causes  
by Sex by Age-Group of Decedent  
Kansas, 2019

Cause of Death * and Sex of Decedent	Total	Age-Group											n.s.
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	
Congenital Anomalies	94	47	3	5	5	0	3	4	13	9	2	3	0
Male	46	24	1	3	4	0	1	1	5	5	1	1	0
Female	48	23	2	2	1	0	2	3	8	4	1	2	0
Sudden Infant Death Syndrome	6	6	0	0	0	0	0	0	0	0	0	0	0
Male	3	3	0	0	0	0	0	0	0	0	0	0	0
Female	3	3	0	0	0	0	0	0	0	0	0	0	0
Symptoms and Abnormal Findings	491	18	4	1	5	21	17	17	41	44	55	268	0
Male	232	10	3	1	5	15	11	14	28	25	31	89	0
Female	259	8	1	0	0	6	6	3	13	19	24	179	0
All Other Diseases	5,998	11	7	12	25	51	96	199	568	924	1,584	2,521	0
Male	2,740	7	5	6	15	34	53	112	323	504	792	889	0
Female	3,258	4	2	6	10	17	43	87	245	420	792	1,632	0
Motor Vehicle Accidents	398	3	3	10	71	59	56	44	56	52	28	16	0
Male	281	3	2	6	49	42	43	34	42	35	15	10	0
Female	117	0	1	4	22	17	13	10	14	17	13	6	0
All Other Accidents and Adverse Effects	1,180	16	8	5	41	116	103	119	166	133	195	278	0
Male	682	11	6	3	32	86	71	74	110	75	99	115	0
Female	498	5	2	2	9	30	32	45	56	58	96	163	0
Suicide	521	0	0	6	83	104	106	66	66	48	23	19	0
Male	414	0	0	3	66	84	86	45	50	41	20	19	0
Female	107	0	0	3	17	20	20	21	16	7	3	0	0
Homicide	136	1	3	7	32	36	21	14	13	9	0	0	0
Male	108	0	3	5	29	28	14	10	12	7	0	0	0
Female	28	1	0	2	3	8	7	4	1	2	0	0	0
All Other External Causes	33	0	1	2	2	6	2	8	7	4	0	1	0
Male	20	0	1	2	2	4	1	4	4	2	0	0	0
Female	13	0	0	0	0	2	1	4	3	2	0	1	0

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

Table E23  
Deaths by County of Residence and Peer Group\*  
by Number, Crude<sup>†</sup> and Age-Adjusted Rate<sup>‡</sup>  
Kansas, 2015-2019

County of Residence	Year															5-Year	
	2015			2016			2017			2018			2019				
	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	26,611	914.0	772.5	26,129	898.7	753.5	26,725	917.4	761.3	27,213	934.7	762.1	27,312	937.5	755.3	920.4	760.9
Allen	174	1,368.2	877.7	155	1,219.1	801.5	164	1,310.0	855.7	155	1,245.6	870.6	176	1,422.9	904.6	1,312.9	861.2
Anderson	95	1,216.7	766.0	111	1,418.2	844.4	115	1,468.1	918.3	98	1,244.0	789.8	99	1,259.9	791.8	1,321.3	823.2
Atchison	197	1,201.4	936.3	191	1,166.1	936.3	161	985.8	759.5	182	1,123.9	853.7	167	1,039.0	781.1	1,103.5	852.8
Barber	70	1,451.4	929.2	51	1,087.9	674.6	70	1,526.4	1,007.5	54	1,207.5	807.9	58	1,310.1	798.5	1,317.6	845.9
Barton	298	1,099.5	788.5	294	1,098.0	772.4	293	1,106.7	742.0	312	1,194.9	789.0	296	1,148.2	769.2	1,129.0	772.7
Bourbon	210	1,427.4	987.9	190	1,299.9	877.0	218	1,477.6	1,031.1	186	1,269.4	878.4	170	1,169.7	788.8	1,329.3	914.3
Brown	97	992.2	663.5	111	1,146.2	770.5	139	1,441.8	966.4	157	1,635.8	1,076.8	145	1,516.1	1,002.9	1,344.7	895.4
Butler	642	961.9	833.4	639	953.4	818.5	635	949.5	817.5	683	1,023.0	867.4	671	1,002.8	829.2	978.1	833.6
Chase	28	1,045.2	602.8	44	1,648.6	944.6	29	1,080.9	626.0	44	1,673.6	989.4	25	944.1	488.7	1,277.4	724.1
Chautauqua	55	1,616.7	945.0	59	1,748.7	1,102.6	50	1,486.8	804.9	55	1,662.1	912.4	48	1,476.9	736.8	1,599.0	898.0
Cherokee	244	1,188.3	900.3	248	1,224.9	919.5	274	1,362.2	998.6	271	1,354.0	992.4	308	1,544.7	1,104.7	1,333.7	983.3
Cheyenne	37	1,381.1	633.9	37	1,390.5	607.6	31	1,155.4	579.2	41	1,541.4	681.4	41	1,543.1	834.4	1,401.8	665.5
Clark	37	1,765.3	987.6	29	1,399.6	886.9	31	1,546.9	1,008.6	26	1,296.8	623.9	29	1,454.4	889.6	1,494.4	879.3
Clay	112	1,341.8	780.1	103	1,264.9	744.3	85	1,068.1	583.9	110	1,375.5	792.5	93	1,162.2	659.7	1,243.6	715.0
Cloud	150	1,627.1	920.0	145	1,584.7	897.0	132	1,468.1	878.3	146	1,672.6	985.3	134	1,525.2	898.6	1,575.5	916.6
Coffey	105	1,252.4	845.4	96	1,138.4	743.5	93	1,130.8	762.9	101	1,226.8	793.1	113	1,381.6	915.1	1,225.5	810.4
Comanche	36	1,953.3	1,194.4	28	1,503.8	941.6	29	1,620.1	977.0	27	1,544.6	896.9	31	1,823.5	1,056.1	1,688.5	1,009.2
Cowley	464	1,296.5	956.1	434	1,213.9	907.7	405	1,145.3	858.9	446	1,266.4	943.5	487	1,395.1	990.3	1,263.1	932.3
Crawford	437	1,114.3	916.4	427	1,090.3	920.3	421	1,078.5	912.4	405	1,038.0	858.0	413	1,063.9	888.1	1,077.1	899.0
Decatur	41	1,398.4	577.9	46	1,624.3	723.3	49	1,698.4	804.0	45	1,567.4	811.4	54	1,910.2	728.8	1,638.0	725.8
Dickinson	259	1,341.8	863.6	241	1,264.2	798.0	235	1,243.3	789.1	224	1,196.8	746.1	237	1,283.4	809.1	1,266.3	801.8
Doniphan	87	1,115.8	758.2	78	1,017.7	713.1	101	1,307.1	896.9	97	1,262.7	852.8	86	1,131.6	796.5	1,167.1	803.3
Douglas	723	612.4	692.6	650	544.2	619.6	792	655.7	728.3	804	662.1	707.3	704	575.8	603.0	610.0	670.1
Edwards	37	1,246.6	780.8	28	953.0	631.7	34	1,175.3	738.3	30	1,053.0	744.8	38	1,358.1	890.3	1,156.0	756.8
Elk	45	1,727.4	916.7	38	1,492.0	911.5	46	1,841.5	975.9	42	1,674.6	977.3	32	1,264.8	656.4	1,599.9	893.9
Ellis	259	892.2	734.2	258	892.9	774.2	254	885.4	759.7	232	808.1	678.3	220	770.5	600.3	850.0	708.8
Ellsworth	102	1,608.1	1,038.9	86	1,359.0	859.9	97	1,532.4	951.8	80	1,291.2	768.6	59	966.9	592.6	1,354.7	844.3
Finney	229	617.0	731.6	210	571.9	667.3	218	587.9	666.5	227	620.0	679.3	255	699.3	776.4	619.0	704.6
Ford	241	697.8	710.5	241	709.4	742.5	259	753.3	775.1	239	705.3	711.9	267	794.2	825.4	731.8	752.9
Franklin	267	1,042.6	855.4	296	1,158.1	953.7	269	1,045.4	849.3	256	998.8	801.4	286	1,119.6	915.6	1,072.8	875.0
Geary	218	588.7	900.1	230	646.3	936.8	205	605.5	893.2	198	607.5	866.1	219	691.5	1,012.6	626.7	919.6
Gove	37	1,401.5	768.7	38	1,467.7	787.2	29	1,102.2	544.1	24	918.8	455.7	41	1,555.4	722.2	1,289.3	653.6
Graham	35	1,350.8	693.1	32	1,248.0	664.9	47	1,883.8	968.4	39	1,565.0	831.4	28	1,128.1	537.3	1,433.8	739.8
Grant	53	685.4	726.5	51	667.0	719.1	62	823.8	816.2	60	817.9	774.1	63	881.1	815.0	772.9	772.0
Gray	55	896.8	781.9	68	1,126.9	942.1	39	654.6	529.9	53	878.5	711.0	62	1,035.4	792.6	918.9	752.1
Greeley	25	1,879.7	1,063.2	15	1,157.4	710.1	15	1,201.0	575.0	13	1,059.5	457.6	19	1,542.2	1,018.7	1,373.5	774.7
Greenwood	104	1,665.6	947.8	109	1,772.1	1,047.9	116	1,894.5	1,150.3	85	1,403.8	794.0	97	1,621.5	938.2	1,672.4	976.7
Hamilton	31	1,253.0	1,297.7	19	749.2	822.6	25	947.0	958.4	19	728.8	785.1	24	945.3	911.5	922.2	961.2
Harper	103	1,770.7	1,059.1	83	1,460.0	886.4	90	1,610.0	977.5	90	1,634.6	968.3	96	1,766.0	1,035.5	1,648.0	983.7
Harvey	399	1,137.6	732.5	408	1,168.6	753.1	396	1,146.4	744.1	438	1,280.3	819.9	414	1,202.5	744.1	1,186.7	759.0
Haskell	30	738.2	723.9	29	723.9	742.9	30	740.2	652.6	33	825.6	763.4	28	705.6	673.4	746.7	706.5
Hodgeman	22	1,162.2	808.5	22	1,176.5	594.7	21	1,140.1	648.9	26	1,430.1	808.4	32	1,783.7	1,148.5	1,334.5	794.9
Jackson	158	1,184.6	883.9	129	970.6	767.5	162	1,216.4	928.8	139	1,046.7	775.0	128	971.8	709.4	1,078.3	812.5
Jefferson	201	1,061.8	797.9	178	941.9	692.8	213	1,121.2	840.0	168	885.4	660.3	192	1,008.2	705.0	1,003.8	738.6
Jewell	36	1,212.1	636.0	35	1,206.5	565.0	31	1,087.7	482.7	50	1,759.9	939.2	34	1,181.0	493.8	1,288.0	626.7
Johnson	3,858	665.0	620.4	3,735	639.1	586.0	3,980	673.2	618.5	4,104	686.8	614.6	4,252	705.8	620.2	674.2	611.7
Kearny	35	884.7	789.9	35	893.5	803.0	25	631.3	531.9	33	836.9	703.1	39	1,016.2	814.0	851.4	726.0
Kingman	95	1,235.9	785.6	102	1,366.0	806.9	91	1,236.4	699.4	105	1,436.4	894.5	89	1,244.4	766.7	1,303.5	788.2
Kiowa	17	663.0	404.2	20	805.5	487.0	26	1,046.3	700.3	24	953.9	546.1	23	929.3	595.3	878.4	546.8
Labette	254	1,221.0	866.6	285	1,394.1	979.1	258	1,280.7	903.3	254	1,272.3	873.0	292	1,488.4	1,034.9	1,330.0	932.9
Lane	30	1,796.4	1,068.1	32	1,956.0	1,112.6	30	1,924.3	1,010.7	28	1,794.9	959.5	27	1,759.0	1,159.6	1,846.7	1,062.5
Leavenworth	612	771.6	753.9	655	816.7	785.9	609	751.0	718.6	646	794.1	732.9	686	839.1	754.9	794.6	749.2
Lincoln	37	1,191.6	741.8	37	1,204.0	709.1	32	1,051.6	529.8	33	1,091.6	587.5	38	1,282.9	622.3	1,164.0	642.1
Linn	104	1,090.6	772.6	119	1,245.0	844.4	107	1,100.1	761.7	119	1,220.5	786.3	115	1,185.2	756.7	1,168.4	783.3
Logan	34	1,203.5	662.1	22	777.1	420.4	36	1,276.1	689.6	37	1,301.0	741.9	27	966.4	680.1	1,105.2	630.9

Table E23  
Deaths by County of Residence and Peer Group\*  
by Number, Crude<sup>†</sup> and Age-Adjusted Rate<sup>‡</sup>  
Kansas, 2015-2019

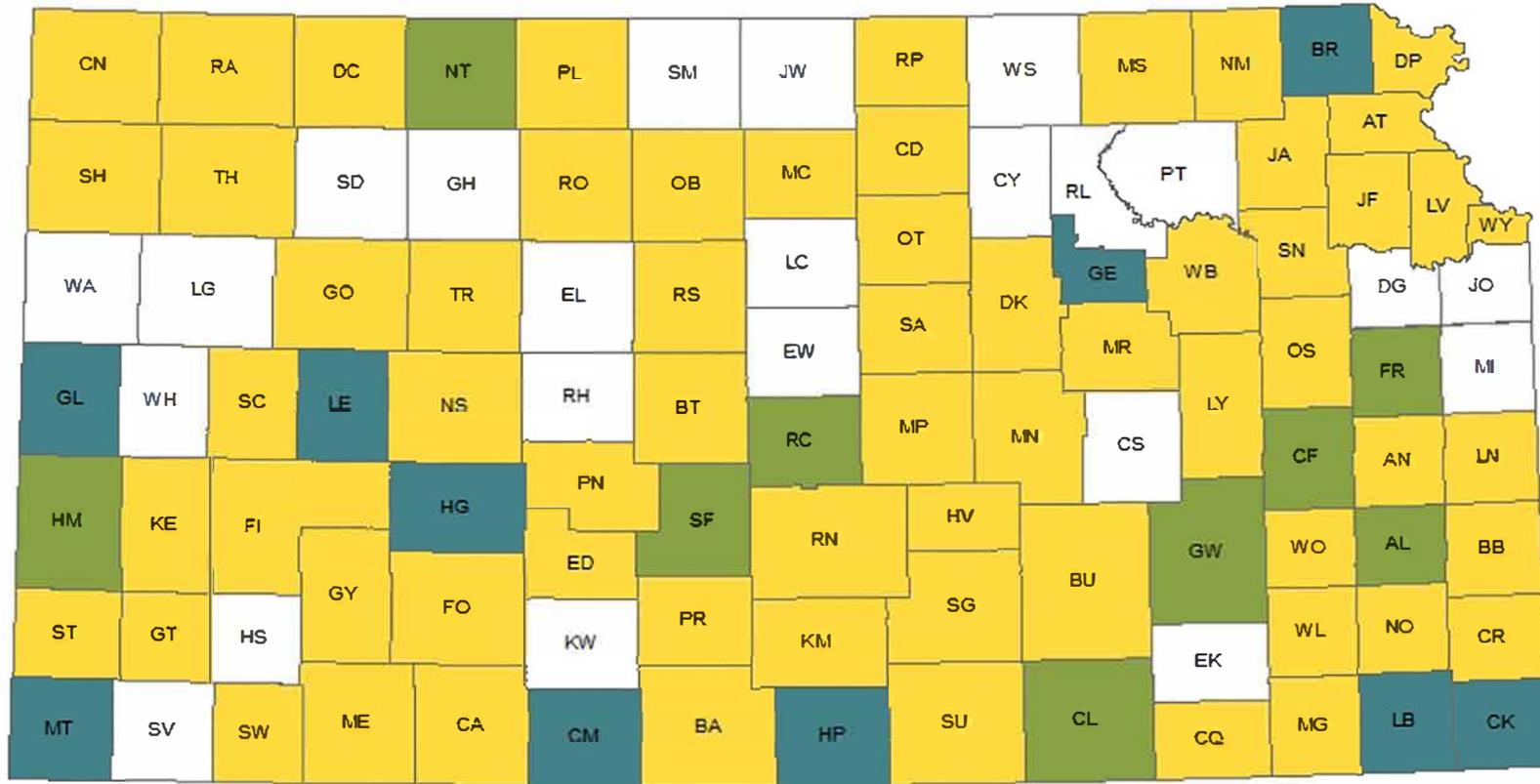
County of Residence	Year															5-Year	
	2015			2016			2017			2018			2019			Crude Rate	Age-Adjusted Rate
	Number	Crude Rate	Age Adj. Rate	Number	Crude Rate	Age Adj. Rate	Number	Crude Rate	Age Adj. Rate	Number	Crude Rate	Age Adj. Rate	Number	Crude Rate	Age Adj. Rate		
Lyon	300	899.8	789.6	252	752.0	646.9	300	898.4	758.2	309	925.0	777.5	302	909.8	763.1	876.9	746.7
McPherson	380	1,313.0	787.3	351	1,218.6	729.9	389	1,355.0	848.6	363	1,272.0	757.1	374	1,310.3	784.4	1,293.8	780.2
Marion	184	1,520.3	811.9	166	1,370.5	769.1	161	1,343.2	764.4	152	1,272.0	688.4	182	1,531.5	824.2	1,407.5	771.9
Marshall	120	1,207.7	636.0	128	1,301.3	705.9	139	1,426.4	825.0	144	1,481.2	862.1	144	1,483.5	796.0	1,379.1	763.3
Meade	48	1,108.5	709.3	52	1,233.4	856.8	60	1,394.4	912.8	55	1,326.6	861.0	42	1,041.4	755.2	1,222.2	818.4
Miami	321	986.1	815.3	303	919.2	755.9	335	1,001.2	776.1	276	819.5	635.5	300	876.2	672.3	919.7	728.4
Mitchell	83	1,321.2	693.1	67	1,073.2	546.1	94	1,533.9	852.2	94	1,528.5	783.3	96	1,605.6	853.4	1,409.9	744.0
Montgomery	458	1,374.8	974.5	459	1,401.7	994.2	459	1,409.9	966.7	463	1,441.5	977.9	407	1,278.7	884.5	1,381.0	959.5
Morris	89	1,576.6	852.5	81	1,453.4	717.3	75	1,374.9	685.0	75	1,358.4	727.5	77	1,370.1	736.4	1,427.3	742.4
Morton	40	1,330.2	931.5	31	1,088.5	738.4	32	1,167.9	664.5	38	1,424.8	998.6	52	2,010.1	1,257.1	1,393.6	912.1
Nemaha	117	1,144.0	578.7	120	1,171.8	676.9	138	1,363.9	777.6	139	1,368.8	718.2	145	1,417.3	732.4	1,292.9	695.5
Neosho	190	1,162.4	803.6	202	1,251.1	826.5	194	1,211.4	810.3	225	1,410.6	949.9	199	1,243.2	822.8	1,255.2	841.3
Ness	47	1,564.1	802.7	43	1,451.7	721.3	58	2,021.6	1,081.2	43	1,514.1	718.3	48	1,745.5	809.9	1,656.7	821.8
Norton	62	1,117.1	649.1	81	1,474.6	947.3	59	1,084.4	678.2	58	1,068.1	632.6	85	1,585.5	984.2	1,264.9	778.0
Osage	226	1,426.1	999.0	187	1,180.3	844.4	191	1,211.0	854.2	174	1,091.5	735.7	197	1,235.2	808.5	1,228.7	846.3
Osborne	79	2,145.0	1,082.9	66	1,812.2	916.1	63	1,745.2	1,019.1	51	1,467.6	641.1	50	1,461.6	728.3	1,732.9	879.6
Ottawa	77	1,288.7	896.8	85	1,435.8	1,028.9	81	1,381.5	978.7	50	861.8	610.0	73	1,279.8	869.4	1,250.7	869.7
Pawnee	77	1,126.1	773.9	81	1,201.2	757.4	95	1,422.2	868.9	94	1,432.5	913.3	81	1,262.9	743.8	1,287.7	812.3
Phillips	70	1,289.6	723.8	64	1,179.1	672.6	74	1,378.0	777.3	73	1,373.0	801.6	78	1,490.3	839.8	1,340.7	759.6
Pottawatomie	194	832.7	791.1	164	693.1	641.4	178	744.5	679.7	177	729.1	643.7	174	713.6	634.7	742.1	678.0
Pratt	119	1,227.9	821.5	126	1,314.7	887.2	105	1,099.8	712.1	132	1,407.5	908.0	116	1,265.8	783.5	1,262.6	822.1
Rawlins	43	1,715.9	887.3	41	1,608.5	701.8	37	1,481.8	799.5	43	1,714.5	773.1	42	1,660.1	795.2	1,636.2	789.1
Reno	743	1,166.1	807.3	722	1,142.0	786.1	769	1,230.2	828.7	706	1,132.5	743.3	746	1,203.3	785.5	1,174.7	789.8
Republic	88	1,862.4	832.1	81	1,723.8	772.1	96	2,046.5	1,066.8	77	1,650.9	717.3	81	1,747.2	872.8	1,806.5	857.5
Rice	122	1,222.8	890.0	114	1,159.6	844.6	131	1,356.1	919.7	123	1,290.5	838.4	127	1,331.7	922.7	1,271.2	884.5
Riley	339	450.5	622.4	378	515.4	701.7	370	498.8	652.6	415	563.1	705.1	374	503.8	646.4	506.1	665.3
Rooks	63	1,217.6	785.3	66	1,300.2	740.3	67	1,328.6	800.1	73	1,456.2	857.1	74	1,504.1	774.4	1,359.7	794.0
Rush	55	1,757.2	887.0	65	2,125.6	1,124.3	39	1,256.8	581.0	56	1,810.5	832.3	47	1,548.1	695.1	1,699.1	821.2
Russell	85	1,207.6	709.4	81	1,159.1	653.8	95	1,373.8	792.3	106	1,534.7	924.5	100	1,458.6	785.5	1,345.6	770.8
Saline	536	962.5	739.0	518	939.4	727.9	612	1,118.1	823.7	558	1,025.7	744.5	593	1,093.6	800.1	1,027.4	767.5
Scott	40	805.8	547.5	55	1,093.0	721.5	51	1,028.0	697.5	52	1,061.9	686.3	59	1,223.3	801.8	1,041.5	691.6
Sedgwick	4,421	864.2	819.0	4,513	881.5	825.8	4,439	864.1	793.8	4565	888.8	801.3	4617	894.7	798.9	878.7	807.4
Seward	128	552.9	677.0	136	598.9	735.3	114	514.5	634.8	135	619.8	737.9	133	620.7	737.6	580.8	705.4
Shawnee	1,879	1,051.3	823.1	1,870	1,049.7	807.0	1,880	1,055.1	808.1	2,047	1,153.2	861.4	1,908	1,078.7	791.7	1,077.5	818.0
Sheridan	32	1,273.9	612.8	30	1,195.7	575.5	23	910.2	519.8	31	1,223.8	556.8	31	1,229.7	651.7	1,166.5	581.4
Sherman	83	1,387.3	931.6	66	1,106.5	779.3	65	1,096.1	754.5	70	1,186.6	822.0	69	1,166.1	795.3	1,188.8	815.8
Smith	52	1,403.9	716.8	70	1,927.3	851.5	56	1,526.7	655.3	54	1,498.8	646.5	57	1,590.8	677.7	1,588.8	718.8
Stafford	66	1,558.1	924.8	40	950.6	609.1	68	1,616.4	1,034.2	58	1,388.2	739.5	66	1,588.1	916.9	1,420.1	846.4
Stanton	17	820.5	543.6	22	1,066.9	743.9	21	1,019.4	766.9	24	1,207.9	830.8	20	997.0	780.6	1,020.9	730.9
Stevens	53	912.8	780.6	45	805.9	695.4	52	926.6	729.5	43	773.5	620.3	47	856.9	675.4	855.7	698.9
Sumner	264	1,121.7	831.3	246	1,057.1	766.3	268	1,157.2	806.5	294	1,278.5	905.2	273	1,195.5	856.1	1,161.5	833.0
Thomas	87	1,100.7	821.4	69	874.3	624.3	67	860.3	609.4	88	1,141.2	868.8	94	1,208.7	882.2	1,036.5	760.3
Trego	50	1,708.2	888.1	55	1,915.0	989.3	42	1,456.3	835.5	41	1,468.0	742.5	38	1,355.7	710.4	1,582.7	832.4
Wabaunsee	68	978.3	746.8	68	986.8	720.6	50	727.4	512.6	79	1,145.1	791.6	70	1,010.0	714.1	969.7	697.1
Wallace	22	1,449.3	625.3	16	1,068.8	487.0	13	853.0	517.7	17	1,131.1	613.6	13	856.4	599.1	1,071.4	562.2
Washington	79	1,411.2	737.3	75	1,352.3	720.8	70	1,276.2	629.9	79	1,457.6	767.3	64	1,183.9	612.0	1,336.7	693.8
Wichita	25	1,159.0	691.4	22	1,041.7	668.5	23	1,082.4	705.8	26	1,235.2	773.9	17	802.3	520.2	1,064.2	671.2
Wilson	116	1,309.8	905.4	102	1,169.3	769.3	117	1,348.7	946.1	119	1,373.3	907.1	113	1,325.5	883.5	1,305.1	882.0
Woodson	53	1,701.4	975.5	52	1,643.0	976.2	42	1,334.6	711.4	53	1,665.1	959.1	43	1,370.3	845.7	1,543.1	890.0
Wyandotte	1,358	831.2	886.0	1,348	822.8	875.4	1,362	824.0	850.4	1,401	847.4	865.6	1,363	823.9	838.6	829.9	863.1
n.s.	2	n/a	n/a	4	n/a	n/a	n/a	n/a									
Peer Group																	
Frontier	1,551	1,407.0	806.6	1,461	1,344.1	775.8	1,469	1,358.0	788.3	1,455	1,360.7	761.5	1,451	1,370.4	770.4	1,368.2	781.3
Rural	2,890	1,237.9	786.6	2,845	1,229.0	775.5	2,872	1,252.3	786.4	2,982	1,308.0	815.1	2,971	1,312.9	807.2	1,267.7	794.0
Densely -Settled Rural	4,957	1,049.0	828.7	4,670	994.9	783.4	4,849	1,036.3	809.7	4,809	1,033.4	795.4	4,933	1,066.6	811.8	1,036.0	806.0
Semi-Urban	4,360	939.3	804.0	4,380	952.9	808.9	4,471	977.3	812.5	4,398	967.7	791.2	4,423	974.5	791.9	962.2	801.6
Urban	12,851	787.8	741.9	12,771	779.6	725.1	13,062	791.5	727.7	13,567	818.9	736.6	13,530	812.7	755.1	798.2	730.0

\* 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)

# Age-Adjusted Death Rates By County of Residence Kansas, 2019



Deaths per 100,00 Population, Age Adjusted

State Rate 755.3

## Legend



Figure E7

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Table E24  
Deaths by County of Residence and Peer Group\*  
by Age-Group and Average Age at Death  
Kansas, 2019

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	27,312	189	34	60	285	491	684	1,240	3,510	5,147	6,498	9,174	0	74.5
Allen	176	1	0	0	3	1	3	4	19	43	46	56	0	75.6
Anderson	99	0	0	0	1	3	1	4	7	22	27	34	0	76.7
Atchison	167	2	0	1	3	2	5	5	11	29	41	68	0	76.0
Barber	58	0	0	0	1	0	1	0	10	11	20	15	0	75.0
Barton	296	1	0	0	2	5	6	15	40	53	78	96	0	74.9
Bourbon	170	2	0	0	0	2	2	5	22	46	45	46	0	75.0
Brown	145	0	0	0	1	1	1	9	20	30	36	47	0	75.3
Butler	671	2	0	1	6	6	20	25	89	131	168	223	0	75.1
Chase	25	0	0	0	0	0	1	0	2	5	5	12	0	79.9
Chautauqua	48	0	0	0	0	0	0	3	5	8	16	16	0	78.4
Cherokee	308	1	0	0	1	5	6	18	42	63	67	105	0	74.9
Cheyenne	41	0	0	0	0	0	3	1	5	6	11	15	0	76.8
Clark	29	0	0	0	0	1	1	2	3	5	4	13	0	76.0
Clay	93	0	0	0	3	0	1	3	9	20	20	37	0	76.7
Cloud	134	1	0	2	0	1	1	4	10	22	40	53	0	78.5
Coffey	113	0	0	2	1	3	2	6	11	24	24	40	0	74.7
Comanche	31	0	0	1	0	0	1	1	5	9	5	9	0	72.4
Cowley	487	2	0	1	6	8	10	20	56	107	123	154	0	74.8
Crawford	413	3	0	0	5	5	15	19	60	86	102	118	0	73.5
Decatur	54	0	0	0	0	0	0	1	5	5	13	30	0	83.1
Dickinson	237	2	0	0	1	5	5	5	33	39	66	81	0	75.6
Doniphan	86	1	0	1	0	1	4	2	13	20	20	24	0	73.5
Douglas	704	3	3	1	9	18	15	26	92	124	183	230	0	74.4
Edwards	38	0	0	0	0	1	0	2	6	6	11	12	0	75.8
Elk	32	0	0	2	0	0	0	1	6	7	8	8	0	70.2
Ellis	220	1	0	0	1	5	4	6	29	35	42	97	0	77.1
Ellsworth	59	1	0	0	0	0	1	1	6	13	14	23	0	78.0
Finney	255	5	1	0	3	9	9	19	32	48	65	64	0	69.9
Ford	267	3	1	1	6	2	8	10	37	61	59	79	0	72.4
Franklin	286	2	0	0	3	5	8	12	43	46	71	96	0	74.8
Geary	219	3	1	1	3	8	2	21	33	37	54	56	0	70.4
Gove	41	0	0	0	1	0	0	0	3	8	9	20	0	79.9
Graham	28	0	0	0	0	0	0	1	5	7	8	7	0	75.5
Grant	63	1	1	0	1	0	0	1	12	7	22	18	0	74.4
Gray	62	1	0	0	2	1	0	1	9	13	9	26	0	76.1
Greeley	19	0	0	0	1	0	0	0	3	3	8	4	0	75.6
Greenwood	97	2	1	0	1	1	2	1	13	21	24	31	0	74.1
Hamilton	24	0	0	0	2	1	0	0	6	6	3	6	0	67.3
Harper	96	0	0	0	0	1	2	5	12	17	25	34	0	76.9
Harvey	414	3	0	1	3	4	6	12	37	60	106	182	0	78.5
Haskell	28	0	0	0	0	0	3	3	2	5	5	10	0	72.0
Hodgeman	32	0	0	0	0	1	3	1	2	2	13	10	0	76.0
Jackson	128	0	0	0	2	1	2	7	11	32	34	39	0	75.5
Jefferson	192	0	0	0	2	3	0	5	34	39	59	50	0	74.9
Jewell	34	0	0	0	0	0	0	0	5	9	10	10	0	77.1
Johnson	4,254	31	6	8	36	71	86	167	402	737	989	1,721	0	76.7
Kearny	39	0	0	0	0	1	1	1	6	4	11	15	0	77.0
Kingman	89	0	0	0	1	1	0	6	7	16	29	29	0	77.1
Kiowa	23	0	0	0	0	0	1	1	0	4	9	8	0	80.4
Labette	292	0	0	1	2	7	9	11	37	69	75	81	0	74.0
Lane	27	0	0	0	0	0	2	1	3	6	8	7	0	74.8
Leavenworth	686	7	1	2	8	13	21	36	100	158	175	165	0	71.6
Lincoln	38	0	0	0	0	0	0	2	3	9	7	17	0	80.0
Linn	115	0	0	0	0	3	2	6	21	23	32	28	0	73.0
Logan	27	0	0	0	1	0	1	3	5	3	5	9	0	72.4

Table E24  
Deaths by County of Residence and Peer Group\*  
by Age-Group and Average Age at Death  
Kansas, 2019

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	302	2	0	1	4	6	4	18	43	41	85	98	0	74.2
McPherson	374	0	0	0	1	7	4	15	36	54	80	177	0	79.3
Marion	182	3	0	0	3	0	2	5	15	32	47	75	0	77.8
Marshall	144	0	0	0	0	1	2	3	16	23	30	69	0	80.1
Meade	42	0	0	0	0	1	4	2	4	7	10	14	0	74.6
Miami	300	2	0	0	2	5	6	14	48	49	84	90	0	74.6
Mitchell	96	0	0	0	1	1	2	3	9	15	18	47	0	80.2
Montgomery	407	2	1	1	4	10	10	19	61	96	95	108	0	72.5
Morris	77	0	0	0	1	1	1	2	6	16	21	29	0	76.9
Morton	52	0	0	0	0	2	2	2	7	10	12	17	0	74.4
Nemaha	145	1	0	0	1	0	1	1	11	18	32	80	0	82.1
Neosho	199	2	1	1	2	1	3	9	24	32	51	73	0	75.6
Ness	48	0	0	0	0	0	0	2	7	6	12	21	0	80.3
Norton	85	0	0	1	5	0	3	2	9	11	21	33	0	75.0
Osage	197	0	0	1	0	0	2	10	29	41	50	64	0	76.3
Osborne	50	0	0	0	2	0	1	1	2	10	8	26	0	79.0
Ottawa	72	2	0	0	1	1	0	2	14	11	18	23	0	72.9
Pawnee	81	0	0	0	2	1	0	1	11	22	20	24	0	75.9
Phillips	78	0	0	1	1	0	0	3	6	13	23	31	0	78.2
Pottawatomie	174	1	1	0	2	1	4	5	25	34	49	52	0	74.5
Pratt	116	1	1	1	0	2	5	4	11	23	17	51	0	76.1
Rawlins	42	0	0	0	0	0	0	1	6	10	15	10	0	77.0
Reno	746	2	1	2	5	15	15	30	100	140	184	252	0	75.1
Republic	81	2	1	2	0	1	3	0	9	10	16	37	0	74.6
Rice	127	0	0	1	0	1	2	7	8	28	39	41	0	76.8
Riley	374	4	0	1	2	8	10	17	43	67	83	139	0	75.4
Rooks	74	0	0	0	0	0	1	0	7	17	16	33	0	80.5
Rush	47	0	0	0	0	0	1	1	6	4	7	28	0	82.9
Russell	100	0	0	0	0	0	1	7	11	15	27	39	0	78.4
Saline	594	2	0	0	4	13	22	28	83	105	145	192	0	74.3
Scott	59	0	0	0	0	0	0	4	9	8	19	19	0	77.3
Sedgwick	4,617	36	10	10	67	109	148	273	687	895	1,029	1,353	0	72.0
Seward	133	3	0	1	1	6	6	8	19	23	31	35	0	69.1
Shawnee	1,909	12	2	3	17	34	62	95	290	369	413	612	0	73.4
Sheridan	31	0	0	0	0	0	1	1	1	4	8	16	0	80.3
Sherman	69	0	0	0	0	1	1	3	8	11	24	21	0	76.6
Smith	57	0	0	0	0	0	1	0	4	11	15	26	0	81.0
Stafford	66	1	0	0	1	0	1	4	6	15	13	25	0	75.8
Stanton	20	0	0	0	0	0	2	2	1	2	6	7	0	76.0
Stevens	47	1	0	0	2	0	1	2	6	9	15	11	0	72.1
Sumner	273	4	0	0	6	8	4	15	43	51	60	82	0	72.2
Thomas	94	1	0	1	2	2	4	3	8	13	23	37	0	75.0
Trego	38	0	0	0	0	0	1	2	5	6	11	13	0	77.1
Wabaunsee	70	2	0	0	2	1	1	3	10	11	17	23	0	71.4
Wallace	13	1	0	0	0	0	1	1	1	2	2	5	0	69.2
Washington	64	0	0	0	0	2	0	2	3	13	16	28	0	78.9
Wichita	17	0	0	0	1	0	1	1	0	1	2	11	0	78.4
Wilson	113	1	0	1	1	3	1	7	13	19	23	44	0	75.0
Woodson	43	0	0	0	0	0	1	5	3	10	11	13	0	75.0
Wyandotte	1,363	20	1	5	20	41	59	74	227	294	286	336	0	69.7
n.s.	1	0	0	0	0	0	0	0	0	1	0	0	0	n/a
Peer Group														
Frontier	1,451	4	1	3	11	10	35	45	166	260	369	547	0	77.1
Rural	2,970	18	3	12	32	31	44	115	314	532	736	1,133	0	76.6
Densely -Settled Rural	4,933	33	4	9	48	85	100	212	635	960	1,226	1,621	0	74.7
Semi-Urban	4,424	25	3	7	37	79	114	197	597	817	1,092	1,456	0	74.7
Urban	13,533	109	23	29	157	286	391	671	1,798	2,577	3,075	4,417	0	73.6

\* See Technical Notes for Peer Group definition.

Table E25  
Deaths by County of Residence and Peer Group\*  
by Population Group  
Kansas, 2019

County of Residence	Total	Population Group							n.s.
		White Non-Hispanic	Black Non-Hispanic	Native American Non-Hispanic	Asian/Pacific Islander Non-Hispanic	Other Non-Hispanic <sup>1</sup>	Hispanic Any Race		
Kansas	27,312	24,133	1,397	180	222	336	982	62	
Allen	176	170	2	1	0	2	1	0	
Anderson	99	96	1	1	1	0	0	0	
Atchison	167	149	8	3	0	3	4	0	
Barber	58	58	0	0	0	0	0	0	
Barton	296	279	2	1	1	2	11	0	
Bourbon	170	164	3	1	0	1	1	0	
Brown	145	130	2	12	0	0	1	0	
Butler	671	625	10	12	3	11	9	1	
Chase	25	25	0	0	0	0	0	0	
Chautauqua	48	45	1	1	0	1	0	0	
Cherokee	308	297	0	2	0	7	1	1	
Cheyenne	41	40	0	0	0	0	1	0	
Clark	29	28	0	1	0	0	0	0	
Clay	93	90	1	0	1	1	0	0	
Cloud	134	133	0	0	0	1	0	0	
Coffey	113	111	0	0	0	1	0	1	
Comanche	31	30	0	0	0	0	1	0	
Cowley	487	437	9	5	5	18	13	0	
Crawford	413	397	8	0	3	1	3	1	
Decatur	54	54	0	0	0	0	0	0	
Dickinson	237	231	0	1	0	4	1	0	
Doniphan	86	82	1	2	0	0	1	0	
Douglas	704	635	24	13	6	10	15	1	
Edwards	38	37	0	0	0	0	1	0	
Elk	32	32	0	0	0	0	0	0	
Ellis	220	213	2	0	1	0	4	0	
Ellsworth	59	55	0	0	0	2	2	0	
Finney	255	177	3	0	6	3	66	0	
Ford	267	217	5	1	2	1	41	0	
Franklin	286	269	9	2	0	4	2	0	
Geary	219	154	37	0	11	4	13	0	
Gove	41	40	0	0	0	1	0	0	
Graham	28	27	0	0	0	1	0	0	
Grant	63	43	0	0	0	0	20	0	
Gray	62	55	1	0	1	0	5	0	
Greeley	19	18	1	0	0	0	0	0	
Greenwood	97	93	1	0	0	2	1	0	
Hamilton	24	21	0	0	0	0	3	0	
Harper	96	95	0	0	0	0	0	1	
Harvey	414	380	11	1	0	4	17	1	
Haskell	28	24	0	0	0	0	4	0	
Hodgeman	32	31	1	0	0	0	0	0	
Jackson	128	116	1	7	0	4	0	0	
Jefferson	192	185	2	1	0	2	2	0	
Jewell	34	31	0	2	0	1	0	0	
Johnson	4,254	3,890	124	9	66	55	107	3	
Kearny	39	32	0	1	0	1	5	0	
Kingman	89	86	0	1	1	0	1	0	
Kiowa	23	23	0	0	0	0	0	0	
Labette	292	270	8	3	0	1	10	0	
Lane	27	26	0	0	0	0	1	0	
Leavenworth	686	598	53	3	6	9	15	2	
Lincoln	38	38	0	0	0	0	0	0	
Linn	115	114	0	0	0	0	1	0	
Logan	27	26	0	0	0	0	1	0	

Table E25  
Deaths by County of Residence and Peer Group\*  
by Population Group  
Kansas, 2019

County of Residence	Total	Population Group						n.s.
		White Non-Hispanic	Black Non-Hispanic	Native American Non-Hispanic	Asian/Pacific Islander Non-Hispanic	Other Non-Hispanic <sup>1</sup>	Hispanic Any Race	
Lyon	302	267	6	2	2	6	18	1
McPherson	374	370	1	1	1	0	1	0
Marion	182	178	2	1	0	1	0	0
Marshall	144	139	0	0	1	4	0	0
Meade	42	35	0	2	0	2	3	0
Miami	300	292	3	2	0	0	3	0
Mitchell	96	92	0	1	0	3	0	0
Montgomery	407	364	25	4	2	7	4	1
Morris	77	75	0	0	0	0	2	0
Morton	52	46	0	0	0	0	6	0
Nemaha	145	140	1	0	0	3	1	0
Neosho	199	190	2	0	0	1	6	0
Ness	48	48	0	0	0	0	0	0
Norton	85	81	1	0	0	1	2	0
Osage	197	190	2	0	0	4	1	0
Osborne	50	48	0	0	0	0	2	0
Ottawa	72	71	0	0	0	0	1	0
Pawnee	81	70	6	2	1	0	2	0
Phillips	78	77	0	1	0	0	0	0
Pottawatomie	174	164	2	2	1	3	2	0
Pratt	116	113	1	0	0	0	2	0
Rawlins	42	39	0	1	0	0	2	0
Reno	746	691	11	5	1	13	25	0
Republic	81	78	0	1	1	0	1	0
Rice	127	118	1	1	0	0	7	0
Riley	374	340	15	1	4	4	10	0
Rooks	74	74	0	0	0	0	0	0
Rush	47	47	0	0	0	0	0	0
Russell	100	99	0	0	0	0	1	0
Saline	594	546	14	1	3	7	21	2
Scott	59	56	0	0	0	0	2	1
Sedgwick	4,617	3,765	438	39	69	70	196	40
Seward	133	97	6	0	2	2	26	0
Shawnee	1,909	1,636	138	20	5	12	96	2
Sheridan	31	31	0	0	0	0	0	0
Sherman	69	65	0	0	1	0	3	0
Smith	57	55	0	2	0	0	0	0
Stafford	66	62	0	0	0	0	4	0
Stanton	20	17	0	0	0	0	3	0
Stevens	47	41	0	0	0	2	4	0
Sumner	273	259	3	1	0	5	5	0
Thomas	94	93	1	0	0	0	0	0
Trego	38	38	0	0	0	0	0	0
Wabaunsee	70	66	3	0	0	0	1	0
Wallace	13	13	0	0	0	0	0	0
Washington	64	64	0	0	0	0	0	0
Wichita	17	15	0	0	0	0	2	0
Wilson	113	110	0	0	0	2	1	0
Woodson	43	42	1	0	0	0	0	0
Wyandotte	1,363	804	382	3	14	26	131	3
n.s.	1	0	1	0	0	0	0	0
Peer Group								
Frontier	1,451	1,388	4	10	1	9	39	0
Rural	2,970	2,835	22	21	7	21	61	3
Densely -Settled Rural	4,933	4,524	68	34	21	69	215	2
Semi-Urban	4,424	4,058	143	28	27	55	107	6
Urban	13,533	11,328	1,159	87	166	182	560	51

\* 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, 2019

County of Residence	Did Tobacco Use Contribute to this death?				Total Deaths	Yes + Probably as Percent of Known
	Yes	Probably	No	Unknown		
Kansas	3,085	1,708	14,273	8,246	27,312	25.1
Allen	18	16	86	56	176	28.3
Anderson	9	9	52	29	99	25.7
Atchison	20	7	96	44	167	22.0
Barber	7	3	28	20	58	26.3
Barton	43	22	132	99	296	33.0
Bourbon	22	13	98	37	170	26.3
Brown	25	10	69	41	145	33.7
Butler	65	52	341	213	671	25.5
Chase	5	2	7	11	25	50.0
Chautauqua	1	0	25	22	48	3.8
Cherokee	28	15	101	164	308	29.9
Cheyenne	4	5	22	10	41	29.0
Clark	7	3	15	4	29	40.0
Clay	14	4	57	18	93	24.0
Cloud	19	5	90	20	134	21.1
Coffey	10	11	74	18	113	22.1
Comanche	10	2	17	2	31	41.4
Cowley	53	33	274	127	487	23.9
Crawford	54	26	205	128	413	28.1
Decatur	9	4	25	16	54	34.2
Dickinson	39	18	153	27	237	27.1
Doniphan	16	4	38	28	86	34.5
Douglas	66	42	423	173	704	20.3
Edwards	10	4	17	7	38	45.2
Elk	4	1	13	14	32	27.8
Ellis	24	14	113	69	220	25.2
Ellsworth	6	0	47	6	59	11.3
Finney	16	13	138	88	255	17.4
Ford	32	11	140	84	267	23.5
Franklin	46	25	149	66	286	32.3
Geary	41	13	114	51	219	32.1
Gove	12	0	25	4	41	32.4
Graham	4	3	14	7	28	33.3
Grant	4	3	39	17	63	15.2
Gray	3	4	38	17	62	15.6
Greeley	1	1	16	1	19	11.1
Greenwood	10	4	45	38	97	23.7
Hamilton	2	1	8	13	24	27.3
Harper	9	9	43	35	96	29.5
Harvey	42	26	229	117	414	22.9
Haskell	2	3	18	5	28	21.7
Hodgeman	5	2	21	4	32	25.0
Jackson	18	4	55	51	128	28.6
Jefferson	30	13	61	88	192	41.3
Jewell	3	2	15	14	34	25.0
Johnson	311	185	2,310	1,448	4,254	17.7
Kearny	7	2	27	3	39	25.0
Kingman	12	5	46	26	89	27.0
Kiowa	1	0	15	7	23	6.3
Labette	40	20	109	123	292	35.5
Lane	2	2	16	7	27	20.0
Leavenworth	89	47	332	218	686	29.1
Lincoln	8	2	17	11	38	37.0
Linn	22	8	52	33	115	36.6
Logan	3	1	15	8	27	21.1

Table E26  
Deaths by County of Residence and Peer Group \*  
by Number and Percent Related to Tobacco  
Kansas, 2019

County of Residence	Did Tobacco Use Contribute to this death?				Total Deaths	Yes + Probably as Percent of Known
	Yes	Probably	No	Unknown		
Lyon	32	20	182	68	302	22.2
McPherson	27	27	245	75	374	18.1
Marion	22	13	104	43	182	25.2
Marshall	17	8	79	40	144	24.0
Meade	7	5	21	9	42	36.4
Miami	30	13	153	104	300	21.9
Mitchell	14	6	63	13	96	24.1
Montgomery	38	11	170	188	407	22.4
Morris	15	10	39	13	77	39.1
Morton	2	4	31	15	52	16.2
Nemaha	10	5	94	36	145	13.8
Neosho	24	11	109	55	199	24.3
Ness	4	3	29	12	48	19.4
Norton	18	7	51	9	85	32.9
Osage	31	12	75	79	197	36.4
Osborne	12	7	24	7	50	44.2
Ottawa	13	10	36	13	72	39.0
Pawnee	9	3	50	19	81	19.4
Phillips	10	9	35	24	78	35.2
Pottawatomie	27	22	94	31	174	34.3
Pratt	12	9	66	29	116	24.1
Rawlins	8	2	14	18	42	41.7
Reno	76	63	352	255	746	28.3
Republic	4	2	41	34	81	12.8
Rice	19	9	69	30	127	28.9
Riley	46	16	253	59	374	19.7
Rooks	10	4	42	18	74	25.0
Rush	2	3	13	29	47	27.8
Russell	9	5	63	23	100	18.2
Saline	102	40	334	118	594	29.8
Scott	3	0	31	25	59	8.8
Sedgwick	523	308	2,380	1,406	4,617	25.9
Seward	8	11	65	49	133	22.6
Shawnee	253	141	979	536	1,909	28.7
Sheridan	0	3	18	10	31	14.3
Sherman	10	2	47	10	69	20.3
Smith	4	3	40	10	57	14.9
Stafford	4	5	38	19	66	19.1
Stanton	1	1	14	4	20	12.5
Stevens	5	2	27	13	47	20.6
Sumner	37	16	156	64	273	25.4
Thomas	11	12	36	35	94	39.0
Trego	3	1	26	8	38	13.3
Wabaunsee	16	2	39	13	70	31.6
Wallace	0	1	8	4	13	11.1
Washington	7	4	41	12	64	21.2
Wichita	3	1	11	2	17	26.7
Wilson	11	13	57	32	113	29.6
Woodson	3	5	19	16	43	29.6
Wyandotte	170	84	585	524	1,363	30.3
n.s.	0	0	0	1	1	n/a
Peer Group						
Frontier	185	89	779	398	1,451	26.0
Rural	363	205	1,665	737	2,970	25.4
Densely -Settled Rural	585	322	2,520	1,506	4,933	26.5
Semi-Urban	540	285	2,300	1,299	4,424	26.4
Urban	1,412	807	7,009	4,305	13,533	24.0

\* See Technical Notes for Peer Group definition.

Table E27  
Selected Causes of Death by County of Residence and Peer Group  
Kansas, 2019

County of Residence	All Causes	Selected Causes of Death *							
		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	27,312	4	518	5,520	1,417	1,435	413	546	286
Allen	176	0	3	33	7	11	2	3	1
Anderson	99	0	1	26	6	7	2	4	3
Atchison	167	0	2	37	11	8	1	3	2
Barber	58	0	0	13	3	7	1	1	0
Barton	296	0	7	62	17	8	5	10	0
Bourbon	170	0	4	27	4	8	0	5	3
Brown	145	0	1	26	5	7	4	2	2
Butler	671	0	12	129	35	34	8	14	8
Chase	25	0	0	7	2	1	0	1	1
Chautauqua	48	0	0	7	0	1	4	0	1
Cherokee	308	0	4	44	9	20	3	3	3
Cheyenne	41	0	1	7	1	2	0	1	1
Clark	29	0	0	2	1	1	0	0	0
Clay	93	0	1	19	7	7	2	1	0
Cloud	134	0	0	14	2	6	1	2	0
Coffey	113	0	0	13	3	5	0	0	0
Comanche	31	0	0	6	0	3	0	0	0
Cowley	487	0	9	111	33	25	15	12	5
Crawford	413	0	8	81	22	13	9	6	3
Decatur	54	0	0	12	3	2	1	2	0
Dickinson	237	0	4	63	13	22	6	5	0
Doniphan	86	0	3	17	7	4	0	1	0
Douglas	704	1	4	147	36	29	11	15	5
Edwards	38	0	0	6	2	1	0	1	0
Elk	32	0	1	14	4	3	1	0	1
Ellis	220	0	5	37	10	8	3	2	4
Ellsworth	59	0	1	12	2	3	1	1	2
Finney	255	0	8	54	16	10	5	5	3
Ford	267	0	8	54	16	12	3	8	5
Franklin	286	0	3	60	19	16	3	1	2
Geary	219	0	5	42	12	16	2	6	0
Gove	41	0	0	11	1	3	1	3	0
Graham	28	0	0	10	5	2	0	1	0
Grant	63	0	0	19	5	3	3	4	0
Gray	62	0	0	9	3	3	1	0	0
Greeley	19	0	1	4	2	0	0	0	2
Greenwood	97	0	2	23	6	4	3	4	0
Hamilton	24	0	0	2	1	0	0	0	0
Harper	96	0	0	17	5	4	1	2	1
Harvey	414	0	10	81	31	16	7	5	6
Haskell	28	0	0	6	2	1	0	1	0
Hodgeman	32	0	2	6	1	1	1	0	0
Jackson	128	1	3	20	5	5	1	4	1
Jefferson	192	0	1	51	10	18	3	2	6
Jewell	34	0	0	8	1	4	0	1	0
Johnson	4,252	0	84	881	232	179	60	93	43
Kearny	39	0	2	8	1	2	1	2	1
Kingman	89	0	3	13	4	2	0	0	1
Kiowa	23	0	1	2	0	2	0	0	0
Labette	292	1	8	62	14	23	7	4	2
Lane	27	0	1	4	2	2	0	0	0
Leavenworth	686	0	11	168	42	45	13	18	4
Lincoln	38	0	0	8	0	4	0	1	0
Linn	115	0	3	30	6	10	4	3	0
Logan	27	0	0	5	2	1	0	0	1

Table E27  
Selected Causes of Death by County of Residence and Peer Group  
Kansas, 2019

County of Residence	All Causes	Selected Causes of Death *							
		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	302	0	5	55	14	8	2	9	3
McPherson	374	0	15	59	12	17	4	5	2
Marion	182	0	3	33	6	5	5	3	1
Marshall	144	0	1	33	10	7	0	5	1
Meade	42	0	0	5	1	3	0	0	0
Miami	300	0	5	52	10	17	6	4	2
Mitchell	96	0	1	20	5	4	1	4	1
Montgomery	407	0	7	63	18	24	9	3	3
Morris	77	0	0	26	8	5	1	0	1
Morton	52	0	0	14	3	3	0	4	0
Nemaha	145	0	3	31	9	10	3	1	2
Neosho	199	0	3	46	9	14	4	5	3
Ness	48	0	1	5	1	2	0	0	2
Norton	85	0	2	13	5	5	0	0	1
Osage	197	0	3	45	15	14	3	1	6
Osborne	50	0	1	10	3	3	0	0	0
Ottawa	73	0	3	18	4	5	3	2	0
Pawnee	81	0	2	15	3	5	0	2	1
Phillips	78	0	4	18	1	8	1	2	3
Pottawatomie	174	0	1	37	13	9	5	3	1
Pratt	116	0	1	19	6	6	2	3	0
Rawlins	42	0	0	11	3	4	0	1	1
Reno	746	0	19	138	31	33	13	15	8
Republic	81	0	3	13	3	4	1	0	0
Rice	127	0	1	25	3	10	3	1	2
Riley	374	0	7	73	25	10	8	4	10
Rooks	74	0	2	13	3	6	0	1	0
Rush	47	0	0	9	3	2	1	0	0
Russell	100	0	1	25	4	7	2	1	1
Saline	593	1	13	110	25	29	5	13	5
Scott	59	0	0	14	4	3	1	2	1
Sedgwick	4,617	0	101	923	235	253	68	90	50
Seward	133	0	1	31	10	7	4	1	2
Shawnee	1,908	0	29	400	100	105	33	52	18
Sheridan	31	0	1	5	0	2	0	1	0
Sherman	69	0	1	10	4	1	0	2	0
Smith	57	0	1	13	0	2	0	1	1
Stafford	66	0	1	9	3	2	0	3	1
Stanton	20	0	0	4	0	1	0	1	0
Stevens	47	0	0	6	1	0	1	0	1
Sumner	273	0	2	60	22	17	4	4	5
Thomas	94	0	1	23	6	6	3	2	0
Trego	38	0	0	7	2	2	1	1	1
Wabaunsee	70	0	2	17	3	6	2	2	1
Wallace	13	0	1	2	0	1	0	0	0
Washington	64	0	0	14	3	3	0	1	3
Wichita	17	0	0	2	0	1	0	0	0
Wilson	113	0	2	24	6	7	0	2	2
Woodson	43	0	3	7	0	4	0	1	1
Wyandotte	1,363	0	38	285	73	99	15	25	16
n.s.	4	0	0	0	0	0	0	0	0
Peer Group									
Frontier	1,451	0	20	284	64	81	15	33	14
Rural	2,971	0	43	598	140	168	48	54	32
Densely -Settled Rural	4,933	2	99	1,005	267	268	80	95	57
Semi-Urban	4,423	1	89	829	228	208	70	71	47
Urban	13,530	1	267	2,804	718	710	200	293	136

\* 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, 2019

County of Residence	Selected Causes of Death *									
	Leukemia	Other Malignant Neoplasms	Diabetes mellitus	Alzheimer's Disease	Major Cardiovascular Diseases	Diseases of Heart	Rheumatic Fever and Rheumatic Heart Diseases	Hypertensive Heart Disease w, w/out Renal Disease	Ischemic Heart Diseases	Other Heart Diseases
Kansas	221	1,202	879	828	7,872	6,058	29	495	3,603	1,931
Allen	2	7	5	3	59	41	0	2	24	15
Anderson	0	4	2	4	31	23	0	2	11	10
Atchison	1	11	11	2	53	35	0	5	17	13
Barber	0	1	0	2	16	7	0	0	5	2
Barton	3	19	9	8	79	67	0	4	42	21
Bourbon	1	6	1	11	48	38	0	2	22	14
Brown	2	4	8	9	54	36	0	4	25	7
Butler	3	27	13	11	198	157	0	6	94	57
Chase	0	2	0	2	7	5	0	0	5	0
Chautauqua	1	0	3	0	19	14	0	2	6	6
Cherokee	0	6	10	16	106	85	2	9	41	33
Cheyenne	0	2	2	0	16	13	0	2	10	1
Clark	0	0	1	0	13	8	0	0	6	2
Clay	1	1	3	3	32	26	0	0	14	12
Cloud	0	3	3	12	50	42	0	1	25	16
Coffey	1	4	2	6	40	25	0	1	20	4
Comanche	0	3	0	1	11	7	0	1	5	1
Cowley	3	18	21	11	157	121	1	9	80	31
Crawford	4	24	12	14	111	94	0	7	56	31
Decatur	0	4	4	0	14	7	0	2	4	1
Dickinson	2	15	10	4	67	51	0	6	30	15
Doniphan	0	5	4	2	23	20	0	3	14	3
Douglas	12	39	18	18	188	140	0	15	87	38
Edwards	1	1	5	1	12	8	0	1	3	4
Elk	2	3	1	0	2	1	0	1	0	0
Ellis	3	7	0	8	69	50	1	3	31	15
Ellsworth	0	3	5	2	22	12	0	0	9	3
Finney	4	11	11	19	50	36	0	2	26	8
Ford	1	9	20	7	82	62	0	3	49	10
Franklin	3	16	5	9	98	74	0	2	52	20
Geary	1	5	5	5	71	59	0	6	41	12
Gove	1	2	3	1	13	11	0	2	6	3
Graham	0	2	0	1	6	6	0	0	3	3
Grant	1	3	5	2	18	15	0	0	11	4
Gray	0	2	2	3	23	15	0	0	7	8
Greeley	0	0	0	2	5	4	0	1	2	1
Greenwood	1	5	5	4	24	23	0	2	12	9
Hamilton	0	1	1	0	8	7	0	1	5	1
Harper	0	4	3	1	29	18	0	1	8	9
Harvey	2	14	29	20	128	100	0	9	67	24
Haskell	0	2	3	3	8	7	0	1	2	4
Hodgeman	2	1	1	0	13	8	1	2	3	2
Jackson	0	4	10	2	45	35	1	5	18	11
Jefferson	2	10	1	7	70	53	0	6	37	10
Jewell	0	2	0	2	10	6	0	0	4	2
Johnson	43	231	93	145	1,239	971	5	65	542	359
Kearny	0	1	1	0	12	9	0	1	5	3
Kingman	1	5	8	4	28	20	0	0	13	7
Kiowa	0	0	0	0	11	7	0	0	3	4
Labette	3	9	3	4	91	70	0	5	49	16
Lane	0	0	0	1	6	5	0	0	4	1
Leavenworth	13	33	25	15	169	148	0	11	90	47
Lincoln	1	2	0	0	16	11	0	0	9	2
Linn	0	7	6	4	28	23	0	0	15	8
Logan	0	1	3	0	11	8	0	2	4	2

Table E27  
 Selected Causes of Death by County of Residence and Peer Group  
 Kansas, 2019

County of Residence	Selected Causes of Death *									
	Leukemia	Other Malignant Neoplasms	Diabetes mellitus	Alzheimer's Disease	Major Cardio-vascular Diseases	Diseases of Heart	Rheumatic Fever and Rheumatic Heart Diseases	Hypertensive Disease w, w/out Renal Disease	Ischemic Heart Diseases	Other Heart Diseases
Lyon	1	18	14	15	95	75	1	4	48	22
McPherson	1	18	4	27	118	93	1	1	47	44
Marion	3	10	5	5	61	46	0	5	28	13
Marshall	1	9	1	8	39	32	0	1	22	9
Meade	0	1	1	1	12	7	0	0	3	4
Miami	2	11	7	10	96	82	0	5	52	25
Mitchell	2	3	3	5	28	22	0	5	9	8
Montgomery	0	6	20	4	153	116	0	20	66	30
Morris	2	9	3	5	18	13	0	0	11	2
Morton	1	3	1	4	11	8	0	2	6	0
Nemaha	0	6	7	8	33	22	0	3	7	12
Neosho	0	11	2	2	61	50	0	2	26	22
Ness	0	0	3	2	18	11	0	2	5	4
Norton	1	1	3	0	29	26	0	0	23	3
Osage	0	6	4	5	48	37	0	2	26	9
Osborne	0	4	0	1	19	16	0	1	10	5
Ottawa	0	4	1	0	19	16	0	3	8	5
Pawnee	0	4	2	5	19	14	0	3	6	5
Phillips	1	2	3	3	21	15	0	1	7	7
Pottawatomie	2	4	2	11	51	39	0	5	29	5
Pratt	0	2	2	7	40	32	0	4	14	14
Rawlins	0	2	0	2	9	9	1	0	5	3
Reno	5	33	25	27	214	162	1	16	96	49
Republic	0	5	1	0	29	21	0	0	15	6
Rice	0	6	5	10	30	20	0	0	14	6
Riley	5	11	12	25	108	74	0	8	39	27
Rooks	1	2	4	9	21	16	0	2	11	3
Rush	0	3	0	3	11	9	0	0	7	2
Russell	1	9	3	3	30	18	0	0	8	10
Saline	6	27	33	14	142	108	2	9	62	35
Scott	2	1	0	3	14	10	0	1	7	2
Sedgwick	27	200	139	96	1,208	913	5	70	548	290
Seward	1	6	5	4	39	30	0	1	18	11
Shawnee	18	74	74	50	510	413	3	59	237	114
Sheridan	1	1	1	0	13	12	0	1	8	3
Sherman	0	3	5	2	21	18	0	0	15	3
Smith	1	8	1	0	22	18	0	5	8	5
Stafford	0	0	5	4	20	15	1	3	9	2
Stanton	0	2	0	1	6	4	0	0	3	1
Stevens	0	3	3	0	15	14	0	3	11	0
Sumner	1	7	23	2	76	64	1	7	41	15
Thomas	4	2	2	2	28	20	0	2	12	6
Trego	0	0	1	0	12	11	0	0	7	4
Wabaunsee	0	3	3	1	19	15	0	3	6	6
Wallace	0	1	1	0	5	3	0	0	2	1
Washington	0	4	3	2	24	21	0	1	14	6
Wichita	1	0	1	0	3	3	0	0	2	1
Wilson	2	5	1	3	32	22	0	2	11	9
Woodson	0	1	2	0	18	12	0	0	7	5
Wyandotte	7	50	42	26	395	287	2	18	154	113
n.s.	0	0	0	0	0	0	0	0	0	0
Peer Group										
Frontier	14	63	54	46	448	335	3	36	205	91
Rural	25	131	103	123	909	673	0	47	400	226
Densely -Settled Rural	31	207	170	170	1,487	1,152	8	86	715	343
Semi-Urban	31	174	161	139	1,319	1,026	3	88	625	310
Urban	120	627	391	350	3,709	2,872	15	238	1,658	961

\* 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, 2019

County of Residence	Selected Causes of Death *								
	Primary Hypertension/ Hypertensive Renal Disease & Secondary Hypertension	Cerebrovascular Diseases	Atherosclerosis	Other Diseases of Arteries, Arterioles and Capillaries	Pneumonia and Influenza	Chronic Lower Respiratory Diseases	Peptic Ulcer	Chronic Liver Disease and Cirrhosis	Nephritis, Nephrotic Syndr. and Nephrosis
Kansas	275	1,283	53	203	514	1,774	49	343	554
Allen	1	8	9	0	13	10	0	2	8
Anderson	1	4	2	1	1	8	0	2	3
Atchison	4	12	0	2	2	11	0	0	4
Barber	0	8	0	1	2	5	0	0	0
Barton	1	11	0	0	6	20	0	1	10
Bourbon	0	9	1	0	4	13	0	4	5
Brown	2	10	0	6	1	14	0	0	1
Butler	2	34	1	4	14	35	1	10	17
Chase	0	2	0	0	1	1	0	0	0
Chautauqua	0	5	0	0	0	5	0	1	2
Cherokee	9	11	0	1	5	24	0	3	10
Cheyenne	1	2	0	0	0	2	0	1	0
Clark	0	3	0	2	0	2	0	0	0
Clay	0	4	2	0	3	3	1	2	1
Cloud	0	6	0	2	3	10	0	1	6
Coffey	0	13	1	1	4	5	0	1	3
Comanche	1	2	1	0	0	3	0	1	0
Cowley	8	23	0	5	13	29	0	6	11
Crawford	6	9	0	2	14	31	0	6	4
Decatur	4	3	0	0	3	4	0	0	0
Dickinson	3	9	3	1	4	20	0	3	6
Doniphan	0	3	0	0	2	8	0	1	2
Douglas	4	37	2	5	13	42	5	14	6
Edwards	2	2	0	0	0	4	0	0	0
Elk	0	1	0	0	2	2	0	0	1
Ellis	3	10	1	5	4	16	0	1	7
Ellsworth	0	9	1	0	0	3	0	1	1
Finney	1	12	0	1	5	12	1	8	9
Ford	2	15	1	2	9	9	0	4	5
Franklin	3	20	0	1	7	27	1	2	2
Geary	6	3	1	2	3	10	0	4	7
Gove	1	1	0	0	0	5	0	0	0
Graham	0	0	0	0	0	2	0	0	1
Grant	1	2	0	0	0	5	0	0	1
Gray	2	5	0	1	0	3	0	0	2
Greeley	1	0	0	0	0	1	0	0	1
Greenwood	0	1	0	0	3	9	0	0	1
Hamilton	0	1	0	0	0	3	0	0	1
Harper	2	8	0	1	3	13	0	0	3
Harvey	3	23	0	2	12	16	0	3	8
Haskell	0	1	0	0	1	1	1	0	0
Hodgeman	2	2	0	1	0	3	0	0	0
Jackson	3	6	0	1	1	10	0	5	2
Jefferson	1	14	0	2	0	8	0	2	2
Jewell	0	2	0	2	2	0	0	0	0
Johnson	29	203	4	32	57	202	5	40	85
Kearny	1	2	0	0	1	4	0	1	3
Kingman	1	7	0	0	1	8	0	1	2
Kiowa	2	2	0	0	1	2	0	1	0
Labette	8	8	1	4	11	22	0	4	9
Lane	0	1	0	0	1	2	0	0	1
Leavenworth	1	15	0	5	9	53	2	16	6
Lincoln	0	5	0	0	1	1	0	0	0
Linn	2	3	0	0	1	6	0	0	0
Logan	0	2	0	1	0	2	0	0	0

Table E27  
Selected Causes of Death by County of Residence and Peer Group  
Kansas, 2019

County of Residence	Selected Causes of Death *								
	Primary Hypertension/ Hypertensive Renal Disease & Secondary Hypertension	Cerebrovascular Diseases	Atherosclerosis	Other Diseases of Arteries, Arterioles and Capillaries	Pneumonia and Influenza	Chronic Lower Respiratory Diseases	Peptic Ulcer	Chronic Liver Disease and Cirrhosis	Nephritis, Nephrotic Syndr. and Nephrosis
Lyon	3	14	0	3	4	16	0	3	3
McPherson	7	15	0	3	6	22	3	3	7
Marion	2	9	0	4	5	13	0	0	3
Marshall	0	6	0	1	2	11	0	4	2
Meade	0	4	0	1	2	4	0	0	0
Miami	0	11	1	2	4	16	1	4	13
Mitchell	1	5	0	0	3	9	0	0	0
Montgomery	11	24	1	1	4	18	0	5	11
Morris	0	2	0	3	0	9	0	0	0
Morton	1	2	0	0	1	1	0	0	2
Nemaha	2	8	0	1	5	9	0	2	0
Neosho	3	6	1	1	5	16	1	1	3
Ness	4	3	0	0	0	1	0	0	2
Norton	0	2	0	1	1	2	1	1	1
Osage	2	9	0	0	6	17	0	4	1
Osborne	1	1	0	1	2	6	0	0	0
Ottawa	1	2	0	0	0	5	1	2	1
Pawnee	2	2	0	1	0	3	0	0	2
Phillips	0	6	0	0	2	7	0	1	2
Pottawatomie	0	10	0	2	5	16	1	4	1
Pratt	2	5	0	1	2	11	1	1	0
Rawlins	0	0	0	0	2	3	0	0	0
Reno	10	36	0	6	19	68	0	6	24
Republic	0	6	0	2	4	2	0	0	0
Rice	2	8	0	0	0	12	1	3	3
Riley	5	26	1	2	5	17	0	8	1
Rooks	1	3	1	0	6	2	1	1	1
Rush	0	1	0	1	1	6	0	0	1
Russell	2	7	1	2	3	5	0	1	3
Saline	1	30	1	2	17	55	2	8	10
Scott	0	4	0	0	1	6	0	1	2
Sedgwick	50	200	7	38	79	318	10	70	101
Seward	2	7	0	0	0	4	0	3	7
Shawnee	12	72	0	13	36	146	5	31	32
Sheridan	1	0	0	0	0	1	0	0	0
Sherman	0	2	0	1	2	5	0	1	2
Smith	0	4	0	0	1	3	0	0	1
Stafford	0	2	2	1	1	4	0	0	2
Stanton	0	2	0	0	0	1	0	1	0
Stevens	0	1	0	0	1	3	0	1	0
Sumner	2	10	0	0	4	19	0	3	6
Thomas	1	4	0	3	4	2	0	2	0
Trego	0	1	0	0	2	2	0	0	2
Wabaunsee	0	3	0	1	1	6	0	0	0
Wallace	1	1	0	0	0	1	0	0	0
Washington	0	3	0	0	1	0	0	1	1
Wichita	0	0	0	0	0	6	1	0	0
Wilson	4	5	0	1	7	9	0	0	2
Woodson	0	2	4	0	1	1	0	2	1
Wyandotte	15	83	2	8	14	86	3	13	39
n.s.	0	0	0	0	0	0	0	0	0
Peer Group									
Frontier	24	73	4	12	37	108	2	8	24
Rural	30	162	11	33	61	204	6	30	46
Densely -Settled Rural	63	222	17	33	109	322	6	65	118
Semi-Urban	47	216	6	24	99	293	5	56	97
Urban	111	610	15	101	208	847	30	184	269

\* 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, 2019

County of Residence	Selected Causes of Death *								
	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	13	94	81	497	398	1,180	521	136	5,537
Allen	0	0	0	3	0	6	5	0	26
Anderson	0	0	0	3	2	2	2	0	12
Atchison	0	0	1	1	4	5	5	2	27
Barber	0	0	0	4	2	1	0	0	13
Barton	0	1	0	4	2	10	9	3	65
Bourbon	0	1	1	1	4	7	1	0	38
Brown	1	0	0	1	5	5	2	0	17
Butler	0	3	0	40	11	20	9	3	145
Chase	0	0	0	0	1	1	0	0	5
Chautauqua	0	1	0	0	1	0	0	1	8
Cherokee	0	0	1	4	1	6	5	0	69
Cheyenne	0	0	0	0	1	2	0	0	9
Clark	0	0	0	1	2	0	0	0	8
Clay	0	1	0	0	1	1	2	0	20
Cloud	1	1	0	3	1	3	2	1	23
Coffey	0	0	0	1	2	10	4	0	22
Comanche	0	1	0	0	1	2	0	0	5
Cowley	0	0	2	8	5	13	8	1	82
Crawford	1	1	0	4	5	22	11	2	86
Decatur	0	0	0	2	1	2	0	0	12
Dickinson	0	0	1	1	4	4	4	0	42
Doniphan	0	1	0	1	4	1	1	0	16
Douglas	0	6	0	13	10	47	14	1	157
Edwards	0	0	0	0	0	1	1	0	8
Elk	0	0	0	0	2	0	1	0	6
Ellis	0	2	0	1	4	9	6	1	50
Ellsworth	0	0	0	0	0	3	0	0	9
Finney	0	2	3	2	11	13	5	2	40
Ford	0	0	3	5	5	10	8	0	38
Franklin	1	1	0	4	7	10	5	0	44
Geary	0	0	2	3	2	10	8	2	40
Gove	0	0	0	0	1	0	0	0	7
Graham	0	0	0	0	0	0	0	0	8
Grant	0	1	0	0	2	2	0	1	7
Gray	0	0	1	1	1	2	0	0	15
Greeley	0	0	0	0	0	0	1	0	4
Greenwood	0	1	0	1	1	1	0	0	22
Hamilton	0	0	0	1	2	3	1	0	2
Harper	0	0	0	4	3	7	1	0	12
Harvey	0	1	1	6	3	15	5	1	75
Haskell	0	0	0	0	1	1	0	0	3
Hodgeman	0	0	0	0	2	0	1	0	4
Jackson	0	0	0	0	0	4	4	0	21
Jefferson	0	0	0	3	4	9	4	0	30
Jewell	0	0	0	5	0	1	0	0	6
Johnson	2	17	11	126	29	177	89	14	958
Kearny	0	0	0	0	1	2	0	0	4
Kingman	0	0	0	0	0	5	0	0	16
Kiowa	0	0	0	0	0	1	0	0	4
Labette	0	0	0	5	4	12	6	2	48
Lane	0	0	0	0	1	5	0	0	5
Leavenworth	0	3	3	6	16	38	10	3	133
Lincoln	0	0	0	2	0	0	1	0	9
Linn	0	0	0	2	5	3	2	0	25
Logan	0	0	0	0	0	1	1	0	4

Table E27  
 Selected Causes of Death by County of Residence and Peer Group  
 Kansas, 2019

County of Residence	Selected Causes of Death *								
	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	1	0	1	3	7	15	5	0	60
McPherson	1	1	0	2	7	16	2	0	81
Marion	0	0	1	2	1	11	3	0	36
Marshall	0	0	0	0	3	5	2	0	33
Meade	0	0	0	1	4	0	3	0	9
Miami	0	1	1	23	6	10	5	0	46
Mitchell	0	0	0	5	0	3	3	0	16
Montgomery	1	1	1	3	12	18	8	2	76
Morris	0	0	0	2	0	2	1	0	11
Morton	0	0	0	0	4	1	1	1	11
Nemaha	0	1	0	1	2	6	1	0	36
Neosho	0	1	1	4	4	5	2	0	42
Ness	0	0	0	0	1	4	0	0	11
Norton	0	0	0	0	3	4	2	1	22
Osage	0	1	0	2	1	8	2	0	50
Osborne	0	0	0	1	1	2	1	0	6
Ottawa	0	1	1	4	2	3	1	0	10
Pawnee	0	0	0	0	2	3	3	1	24
Phillips	0	0	0	0	0	3	1	0	13
Pottawatomie	0	1	0	3	3	9	4	0	25
Pratt	0	0	1	3	1	3	2	0	22
Rawlins	0	0	0	0	1	1	0	1	12
Reno	0	1	2	10	8	41	18	3	123
Republic	0	1	0	15	5	2	0	0	6
Rice	0	1	0	2	2	4	6	1	21
Riley	0	2	2	2	3	20	8	0	81
Rooks	0	0	0	0	0	1	1	1	11
Rush	0	0	0	0	0	2	0	0	14
Russell	0	0	0	1	0	3	3	0	19
Saline	0	1	1	8	6	24	11	4	134
Scott	0	0	0	0	3	0	0	0	15
Sedgwick	3	15	16	67	65	232	98	35	1,041
Seward	0	4	1	2	1	8	4	2	17
Shawnee	0	8	6	14	21	100	35	16	396
Sheridan	0	0	0	0	0	5	1	0	4
Sherman	0	0	0	1	1	2	0	0	16
Smith	0	0	0	0	0	2	0	0	13
Stafford	0	1	0	0	2	5	2	0	10
Stanton	0	0	0	0	0	0	1	0	6
Stevens	0	0	1	0	2	0	0	0	15
Sumner	0	1	3	3	2	10	5	0	54
Thomas	0	1	1	0	2	5	3	0	18
Trego	0	0	0	0	0	2	1	0	9
Wabaunsee	0	0	2	1	2	2	4	0	10
Wallace	0	0	0	0	0	0	0	0	3
Washington	0	1	0	2	1	1	0	0	13
Wichita	0	0	0	0	1	1	0	0	2
Wilson	0	0	0	3	6	4	1	0	19
Woodson	0	0	0	0	0	1	0	0	7
Wyandotte	1	4	9	34	23	56	23	28	244
n.s.	0	0	0	1	0	0	0	0	0
Peer Group									
Frontier	0	4	0	19	34	51	18	4	290
Rural	2	9	8	56	60	109	51	5	547
Densely -Settled Rural	2	16	18	58	77	180	95	13	921
Semi-Urban	3	12	10	103	63	190	88	17	850
Urban	6	53	45	260	164	650	269	97	2,929

\* 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\*  
 2015-2019

County of Residence	Life Expectancy	County of Residence	Life Expectancy
Kansas	76.1		
Allen	74.2	Lyon	75.9
Anderson	74.6	McPherson	76.2
Atchison	74.7	Marion	75.9
Barber	74.9	Marshall	76.4
Barton	75.5	Meade	74.4
Bourbon	74.2	Miami	76.3
Brown	74.6	Mitchell	77.3
Butler	75.5	Montgomery	72.8
Chase	76.4	Morris	76.5
Chautauqua	73.1	Morton	71.5
Cherokee	73.5	Nemaha	77.3
Cheyenne	77.4	Neosho	75.0
Clark	73.3	Ness	73.9
Clay	75.7	Norton	74.3
Cloud	74.8	Osage	75.3
Coffey	75.4	Osborne	74.4
Comanche	70.7	Ottawa	75.0
Cowley	73.5	Pawnee	74.4
Crawford	74.5	Phillips	77.4
Decatur	76.1	Pottawatomie	77.5
Dickinson	75.4	Pratt	74.2
Doniphan	76.4	Rawlins	74.8
Douglas	77.8	Reno	75.3
Edwards	77.0	Republic	73.7
Elk	71.0	Rice	74.6
Ellis	76.8	Riley	78.0
Ellsworth	75.5	Rooks	76.2
Finney	76.2	Rush	76.0
Ford	76.0	Russell	75.2
Franklin	75.7	Saline	75.3
Geary	73.4	Scott	77.3
Gove	76.8	Sedgwick	75.1
Graham	75.3	Seward	76.7
Grant	75.9	Shawnee	74.7
Gray	76.5	Sheridan	78.6
Greeley	75.3	Sherman	75.1
Greenwood	72.2	Smith	76.4
Hamilton	75.4	Stafford	74.4
Harper	72.6	Stanton	77.1
Harvey	76.1	Stevens	75.8
Haskell	77.4	Sumner	74.7
Hodgeman	72.9	Thomas	75.6
Jackson	75.3	Trego	76.0
Jefferson	76.1	Wabaunsee	76.0
Jewell	76.5	Wallace	77.4
Johnson	78.9	Washington	76.8
Kearny	76.1	Wichita	77.2
Kingman	75.4	Wilson	73.8
Kiowa	78.7	Woodson	74.9
Labelle	73.4	Wyandotte	73.8
Lane	74.4	Peer Group	
Leavenworth	76.3	Frontier	75.3
Lincoln	76.5	Rural	75.4
Linn	74.2	Densely -Settled Rural	75.4
Logan	78.0	Semi-Urban	75.6
		Urban	76.5

\* 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, 2015-2019

City of Residence	Year										5-Year Rate
	2015		2016		2017		2018		2019		
	Number	Rate									
Abilene	108	1,646.8	113	1,746.8	88	1,379.3	92	1,460.3	96	1,548.1	1,557.6
Andover	92	721.9	105	808.9	102	778.0	125	941.4	122	910.1	833.3
Arkansas City	167	1,376.1	175	1,450.7	147	1,238.8	150	1,271.9	194	1,662.5	1,399.4
Atchison	145	1,353.6	143	1,339.1	122	1,147.0	134	1,268.9	121	1,155.0	1,253.2
Augusta	108	1,161.4	111	1,190.9	130	1,384.6	124	1,327.3	139	1,487.4	1,310.6
Baldwin City	47	1,006.6	44	940.8	48	1,033.6	57	1,215.1	47	1,000.0	1,039.3
Basehor	46	851.5	40	707.8	57	947.6	60	968.7	46	708.1	836.7
Baxter Springs	65	1,613.7	39	984.1	54	1,364.3	55	1,394.5	79	2,001.0	1,471.7
Bel Aire	72	968.4	69	900.7	72	909.8	70	867.1	71	855.4	898.9
Beloit	53	1,398.4	47	1,247.0	64	1,725.1	62	1,664.0	67	1,848.3	1,573.6
Bonner Springs	72	946.6	69	900.2	54	693.7	78	999.5	72	910.7	890.0
Burlington	45	1,720.8	33	1,264.4	39	1,527.6	34	1,329.2	53	2,084.2	1,584.0
Chanute	110	1,188.9	112	1,225.5	111	1,226.0	134	1,485.9	114	1,260.8	1,276.8
Clay Center	85	2,036.9	77	1,892.4	57	1,432.2	78	1,955.4	60	1,506.4	1,767.9
Coffeyville	156	1,613.4	164	1,719.3	189	1,993.5	185	1,975.2	136	1,466.3	1,753.6
Colby	74	1,366.1	49	904.2	46	858.0	65	1,222.5	79	1,471.1	1,164.3
Columbus	43	1,366.8	56	1,804.1	54	1,744.2	67	2,182.4	63	2,064.2	1,829.6
Concordia	97	1,858.9	81	1,564.0	75	1,470.9	87	1,755.4	84	1,684.4	1,666.7
Derby	205	872.0	215	909.7	201	849.1	241	974.9	232	930.1	908.0
De Soto	55	905.5	39	642.4	38	622.2	54	838.1	59	906.0	785.1
Dodge City	179	641.3	171	622.9	194	699.9	177	647.7	184	678.9	658.1
Edwardsville	50	1,139.0	47	1,070.6	69	1,534.0	48	1,068.1	56	1,245.8	1,212.6
El Dorado	177	1,368.8	172	1,308.9	174	1,339.2	184	1,422.5	175	1,350.9	1,357.9
Ellsworth	50	1,635.6	31	1,017.4	47	1,539.0	40	1,333.8	25	844.3	1,276.6
Emporia	220	892.5	182	733.4	207	837.2	237	957.0	215	874.1	858.7
Eudora	50	783.9	36	564.4	47	742.6	49	767.5	53	826.7	737.1
Eureka	59	2,408.2	61	2,531.1	67	2,790.5	49	2,064.9	49	2,088.7	2,379.0
Fairway	16	403.0	18	453.2	22	556.0	27	680.8	26	656.6	549.8
Fort Scott	140	1,786.2	122	1,569.5	141	1,804.7	113	1,455.2	115	1,494.1	1,622.7
Frontenac	59	1,724.1	44	1,288.8	45	1,318.5	53	1,554.3	35	1,033.1	1,384.4
Galena	42	1,433.4	42	1,455.3	45	1,551.7	52	1,808.7	61	2,134.4	1,674.9
Garden City	181	670.2	169	631.8	181	673.0	179	674.3	209	791.4	687.9
Gardner	102	488.8	99	469.0	125	579.2	105	480.1	119	540.1	511.8
Garnett	51	1,565.4	61	1,868.9	59	1,813.7	45	1,379.5	56	1,731.1	1,671.6
Girard	36	1,304.3	42	1,528.4	32	1,182.6	43	1,591.4	43	1,609.9	1,442.6
Goddard	36	762.9	66	1,401.3	38	800.7	55	1,164.3	40	834.0	991.8
Goodland	69	1,548.1	57	1,283.5	49	1,110.9	60	1,368.0	58	1,316.4	1,325.7
Great Bend	179	1,138.9	184	1,184.4	183	1,192.6	176	1,160.2	168	1,121.9	1,159.8
Hays	194	919.8	189	898.8	188	901.9	172	824.9	167	805.1	870.3
Haysville	113	1,007.8	127	1,129.4	115	1,019.7	144	1,278.4	133	1,173.0	1,121.8
Herington	33	1,377.3	21	889.1	36	1,543.7	32	1,388.9	36	1,587.3	1,354.8
Hesston	46	1,206.4	48	1,262.2	56	1,480.7	57	1,526.5	37	988.8	1,292.8
Hiawatha	50	1,615.5	46	1,500.8	57	1,811.2	73	2,329.3	66	2,116.7	1,876.7
Hillsboro	61	2,126.2	45	1,558.7	41	1,438.6	43	1,517.3	50	1,775.6	1,683.5
Hoisington	29	1,105.6	29	1,121.4	32	1,250.5	35	1,394.4	36	1,457.5	1,262.9
Holton	68	2,084.0	50	1,522.1	66	2,020.8	54	1,662.6	53	1,652.1	1,788.6
Hugoton	42	1,059.5	37	964.8	41	1,070.2	35	922.5	35	934.6	991.2
Hutchinson	512	1,231.7	484	1,171.6	526	1,290.1	481	1,184.1	515	1,275.3	1,230.4
Independence	138	1,540.5	142	1,613.8	123	1,409.1	121	1,407.3	121	1,422.7	1,479.7
Iola	84	1,535.6	82	1,503.5	72	1,344.8	79	1,487.2	81	1,538.2	1,482.0
Junction City	180	731.1	187	773.4	172	748.2	151	682.6	174	810.0	748.8
Kansas City	1,232	814.2	1,229	810.1	1,238	809.5	1,272	831.6	1,233	806.1	814.3

Table E29  
Deaths by Selected City of Residence  
by Number and Crude Rate\*  
Kansas, 2015-2019

City of Residence	Year										5-Year Rate
	2015		2016		2017		2018		2019		
	Number	Rate									
Kingman	51	1,652.6	52	1,733.3	43	1,468.1	48	1,651.8	52	1,829.7	1,666.3
Lansing	76	645.9	113	953.7	77	644.5	96	802.4	111	928.9	795.3
Larned	63	1,588.1	55	1,410.3	80	2,075.2	70	1,855.8	66	1,797.9	1,742.8
Lawrence	532	566.5	483	506.5	607	626.5	603	619.8	520	529.6	569.9
Leavenworth	256	711.5	287	793.8	272	751.2	279	773.7	310	862.1	778.4
Leawood	254	734.5	233	674.1	280	807.9	259	746.6	247	711.3	734.9
Lenexa	349	664.9	378	714.5	438	817.9	407	736.1	450	809.0	749.3
Liberal	113	544.7	126	619.2	106	534.7	124	636.1	123	641.5	594.4
Lindsborg	51	1,507.5	46	1,378.1	48	1,468.8	54	1,642.3	58	1,762.9	1,551.3
Louisburg	54	1,262.9	41	935.6	36	802.3	38	842.9	36	789.1	922.8
Lyons	58	1,557.0	43	1,171.3	45	1,262.3	47	1,338.6	52	1,484.0	1,362.9
McPherson	157	1,194.5	134	1,017.9	162	1,227.2	160	1,223.5	154	1,179.1	1,168.4
Maize	17	389.7	24	540.8	26	570.6	21	450.5	27	547.2	501.0
Manhattan	256	454.6	304	552.9	292	532.5	322	585.9	307	562.2	537.2
Marysville	45	1,354.2	44	1,335.8	58	1,773.2	43	1,315.8	55	1,682.5	1,491.6
Merriam	109	965.6	82	729.2	88	784.9	100	894.6	80	722.0	819.6
Mission	96	1,011.5	94	995.4	86	914.0	95	1,013.5	80	807.2	946.9
Mission Hills	20	555.4	19	527.8	12	335.9	18	503.4	13	366.5	458.2
Mulvane	78	1,235.4	66	1,045.0	68	1,069.4	66	1,028.7	65	1,001.7	1,075.4
Newton	229	1,191.7	223	1,167.2	216	1,144.7	244	1,301.6	255	1,352.0	1,231.1
Norton	45	1,583.9	58	2,062.6	43	1,549.5	41	1,481.2	63	2,314.5	1,796.2
Olathe	722	537.6	698	515.2	770	560.1	795	569.5	862	613.3	559.6
Osage City	54	1,898.7	46	1,621.4	54	1,931.3	39	1,382.5	38	1,352.8	1,637.5
Osawatimie	54	1,256.7	52	1,207.1	70	1,628.7	65	1,523.7	62	1,447.2	1,412.4
Ottawa	140	1,130.2	151	1,222.1	147	1,191.1	125	1,019.0	153	1,248.6	1,162.2
Overland Park	1,315	705.0	1,298	686.9	1,347	704.2	1,429	742.2	1,452	742.7	716.5
Paola	70	1,266.5	94	1,688.2	89	1,595.0	73	1,287.5	80	1,398.8	1,446.7
Park City	39	511.9	44	576.5	45	582.2	58	750.3	36	463.7	577.0
Parsons	147	1,456.9	145	1,463.8	138	1,413.8	132	1,365.8	158	1,667.2	1,472.4
Phillipsburg	43	1,703.6	40	1,572.9	41	1,632.2	39	1,568.8	41	1,676.9	1,630.7
Pittsburg	230	1,127.0	213	1,045.9	216	1,068.5	198	981.3	209	1,042.4	1,053.2
Prairie Village	181	827.4	161	738.4	189	845.0	202	902.2	229	1,027.1	868.7
Pratt	90	1,314.1	94	1,388.3	88	1,304.1	114	1,719.5	89	1,370.1	1,418.2
Roeland Park	42	615.2	45	663.1	40	590.7	28	414.3	38	568.2	570.5
Rose Hill	37	926.2	42	1,046.1	28	703.5	41	1,034.0	42	1,058.5	953.7
Russell	65	1,433.6	65	1,444.4	79	1,770.1	79	1,770.1	69	1,560.0	1,595.0
Sabetha	47	1,818.2	44	1,702.8	55	2,140.9	48	1,869.2	48	1,858.3	1,877.6
St Marys	24	901.6	27	1,013.5	28	1,058.6	20	758.7	31	1,166.3	980.0
Salina	483	1,010.2	460	971.8	560	1,191.6	505	1,081.0	533	1,145.0	1,079.4
Scott City	34	885.9	51	1,311.1	43	1,116.6	42	1,104.4	51	1,360.7	1,155.3
Shawnee	447	687.2	405	621.2	382	583.1	425	645.5	436	662.5	639.9
Spring Hill	52	869.4	44	713.6	42	634.6	39	559.8	49	668.9	683.6
Tonganoxie	55	1,048.0	46	863.7	59	1,083.8	59	1,068.1	67	1,200.1	1,054.4
Topeka	1,565	1,229.7	1,519	1,197.9	1,569	1,239.5	1,655	1,314.5	1,565	1,248.9	1,246.0
Ulysses	39	639.7	43	712.5	49	828.8	51	886.0	56	999.3	809.4
Valley Center	59	816.9	54	735.4	58	794.5	54	738.4	56	764.5	769.8
Wamego	45	972.6	42	890.8	54	1,148.2	52	1,092.0	38	803.0	981.4
Wellington	96	1,202.0	97	1,229.6	120	1,534.1	120	1,548.8	119	1,553.1	1,411.5
Wichita	3,523	903.4	3,555	911.8	3,569	913.7	3,580	919.7	3,666	940.1	917.8
Winfield	190	1,556.9	151	1,229.2	175	1,445.8	181	1,501.2	182	1,523.9	1,450.7

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

Table E30  
Deaths by Number and Age-Adjusted Rate\* for Selected Chronic Diseases,  
Kansas Residents, 2000-2019

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
2000	624	20.0	666	23.5	478	16.2	351	11.2	173	6.4	156	5.3
2001	640	20.5	720	25.3	500	16.7	305	9.7	207	7.7	180	6.0
2002	752	23.5	763	26.2	512	16.9	340	10.6	182	6.6	191	6.0
2003	783	24.3	669	22.9	527	17.3	357	11.0	200	7.2	175	5.6
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

\* 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, 2000-2019

Year	Unintentional Injuries		Suicide		Homicide	
	N	Rate	N	Rate	N	Rate
2000	1,081	39.0	331	12.4	141	5.3
2001	1,190	42.8	297	11.1	144	5.4
2002	1,125	40.0	346	12.6	126	4.6
2003	1,076	37.9	344	12.6	117	4.3
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

\* 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, 2000-2019

Year	Any Drug	Any Opioid	Heroin	Cocaine	Psychostimulants†
1999	86	25	2	7	3
2000	113	26	1	19	10
2001	145	48	0	17	5
2002	168	79	0	21	11
2003	186	74	1	31	6
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

\* 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, 2000-2019

Year	Any Drug	Any Opioid	Heroin	Cocaine	Psychostimulants†
2000	76	21	1	19	6
2001	108	40	0	17	5
2002	125	67	0	20	11
2003	132	62	1	28	5
2004	171	98	1	33	12
2005	189	91	0	32	18
2006	208	106	1	43	13
2007	204	101	1	34	8
2008	220	112	9	19	6
2009	246	126	10	13	15
2010	218	94	8	12	16
2011	234	99	6	12	16
2012	233	138	13	10	24
2013	276	141	12	9	32
2014	270	150	17	15	31
2015	270	135	20	14	61
2016	248	122	31	12	77
2017	271	126	22	24	72
2018	289	141	33	27	74
2019	348	169	42	32	148

\* Includes unintentional accidents and events of undetermined intent.

† This drug category includes amphetamine and methamphetamine.

**F. MARRIAGES AND  
MARRIAGE  
DISSOLUTIONS**

Table F1  
 Marriages and Marriage Dissolutions  
 by Number and Rate\*, Kansas Occurrence, 1970-2019

Year	Marriage		Year	Marriage Dissolutions	
	Number	Rate		Number	Rate
1970	22,421	10.0	1970	8,785	3.9
1971	22,528	10.0	1971	9,461	4.2
1972	23,879	10.5	1972	9,925	4.4
1973	24,592	10.7	1973	10,472	4.6
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

\* Rates are per 1000 population.

### Marriage Rates Kansas and the U.S., 1913-2019

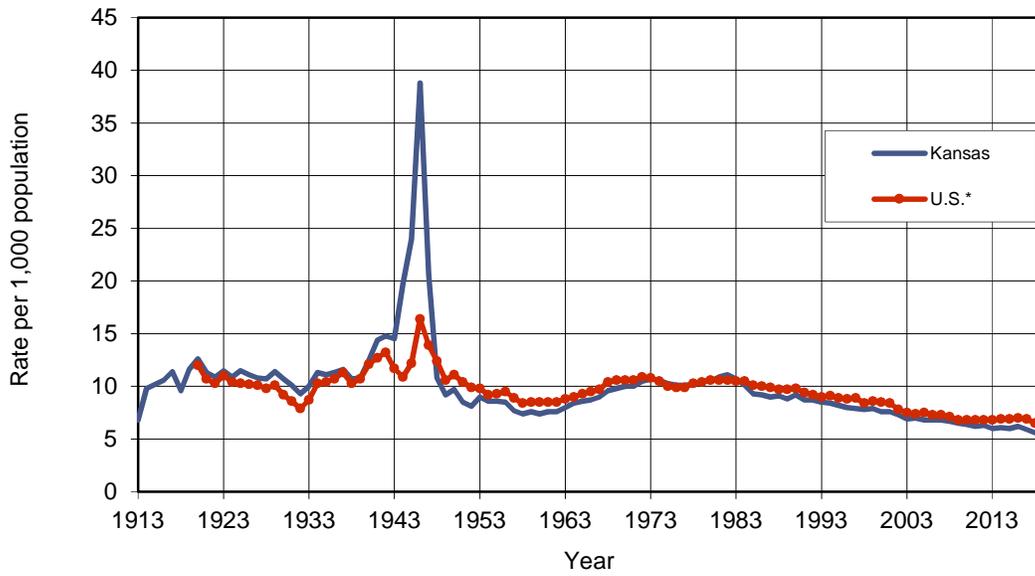


Figure F1

\*1913-1919 not available, 1991-2018 Rates Provisional, 2019 Rates not yet available.

### Marriage Dissolution Rates Kansas and the U.S., 1951-2019

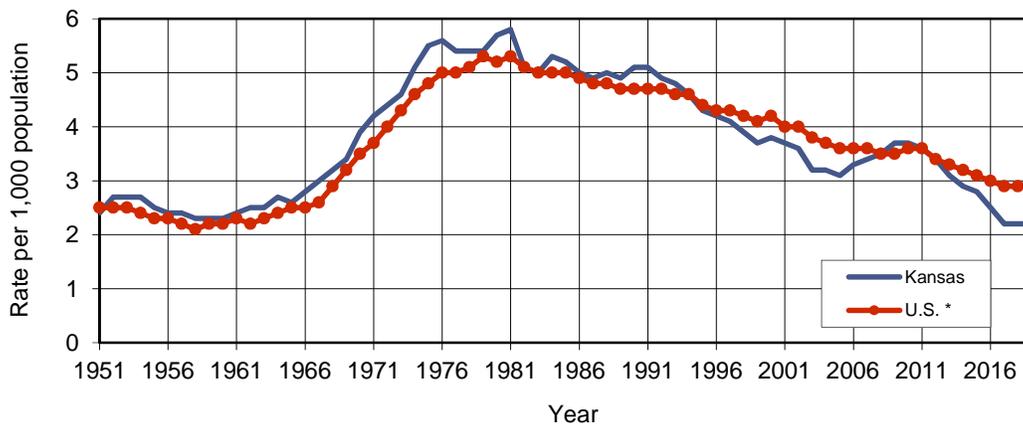


Figure F2

\*1991-2018 Rates Provisional, 2019 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, 2019

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	15,403	11,164	646	76	464	408	2,581	64
White Non-Hispanic	11,147	9,827	87	52	180	219	753	29
Black Non-Hispanic	904	259	491	4	18	42	88	2
Native American Non-Hispanic	92	59	6	8	2	3	14	0
Asian/Pacific Non-Hispanic	343	81	3	0	223	15	20	1
Other Non-Hispanic*	378	225	14	2	16	72	44	5
Hispanic Any Race	2,479	687	43	10	23	53	1,658	5
n.s.	60	26	2	0	2	4	4	22

\* 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, 2019

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	6,398	4,722	374	52	139	97	682	332
White Non-Hispanic	4,586	4,211	38	32	47	48	170	40
Black Non-Hispanic	514	144	301	2	10	15	27	15
Native American Non-Hispanic	37	24	1	11	0	0	1	0
Asian/Pacific Non-Hispanic	124	31	3	0	74	2	6	8
Other Non-Hispanic*	106	52	14	0	4	21	12	3
Hispanic Any Race	726	223	13	5	2	9	457	17
n.s.	305	37	4	2	2	2	9	249

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

Number of Marriages by Month  
Kansas, 2019

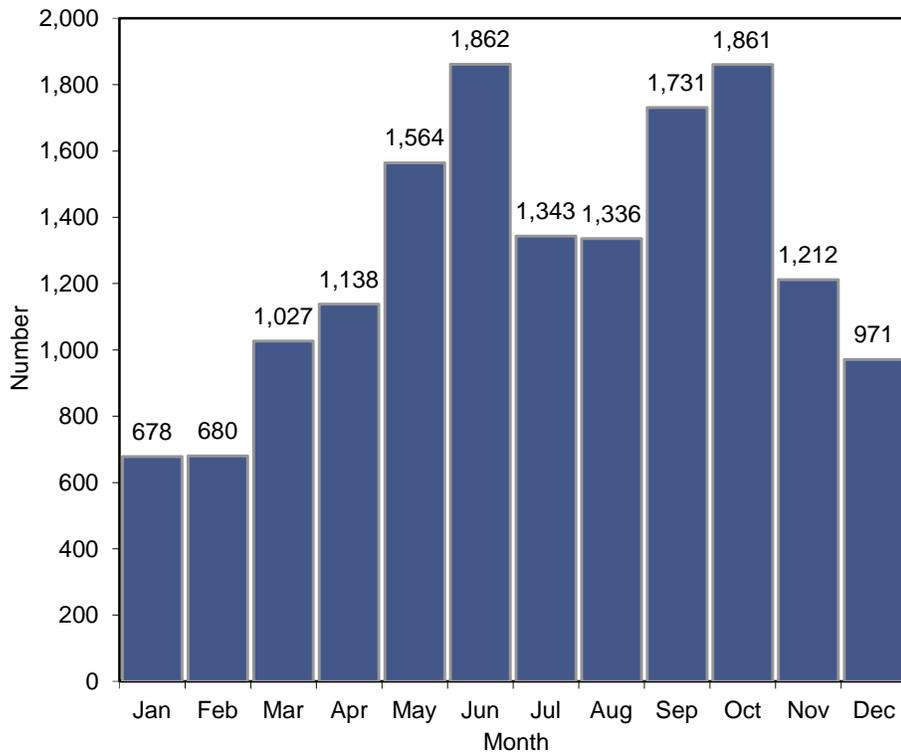


Figure F3

Table F4  
Marriages by Premarital Status of Groom  
by Premarital Status of Bride  
Kansas, 2019

Premarital Status of Groom	Total	Premarital Status of Bride				
		Never Married	Divorced	Annulled	Widowed	n.s.
Total	15,403	10,535	4,364	73	428	3
Never Married	10,580	8,988	1,496	22	73	1
Divorced	4,354	1,462	2,631	42	218	1
Annulled	83	30	40	6	7	0
Widowed	382	53	196	3	130	0
n.s.	4	2	1	0	0	1



Average Age at Marriage  
Kansas, 2000-2019

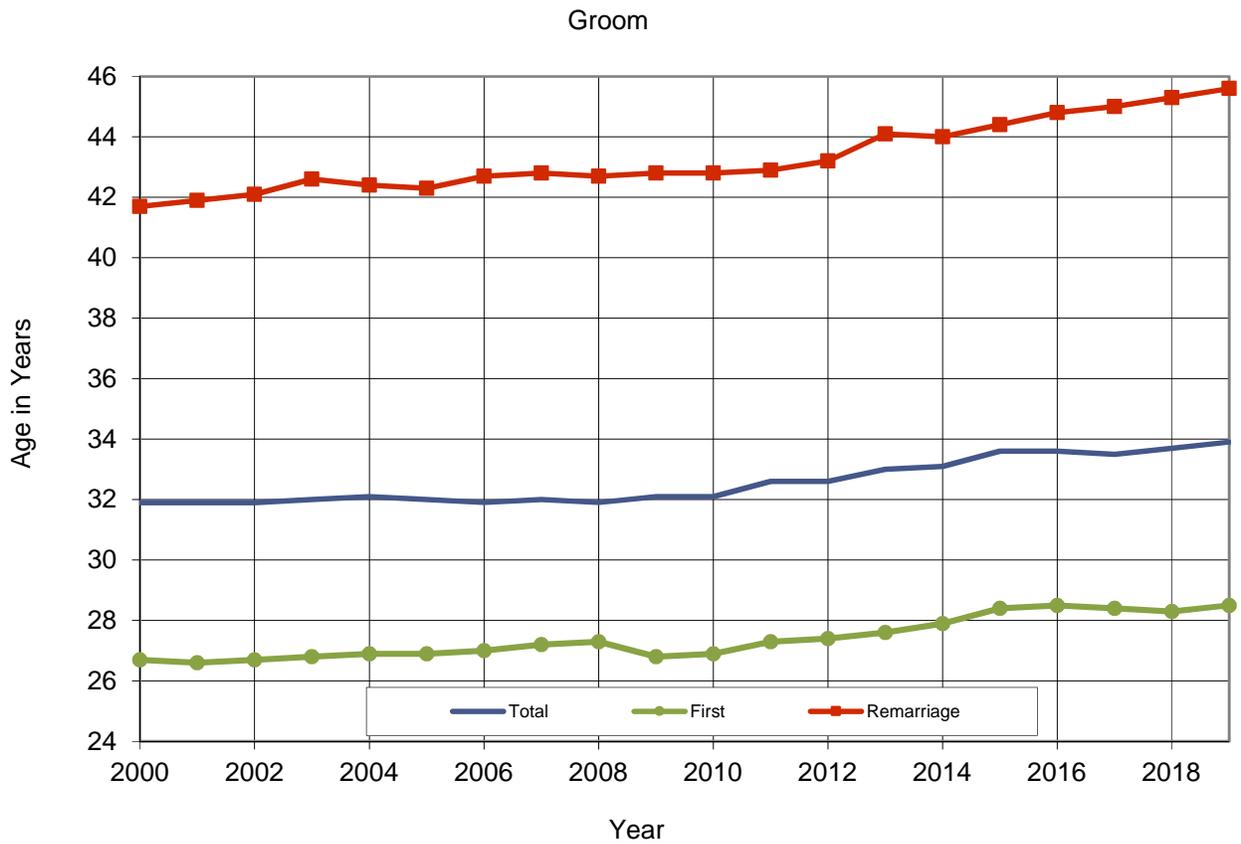
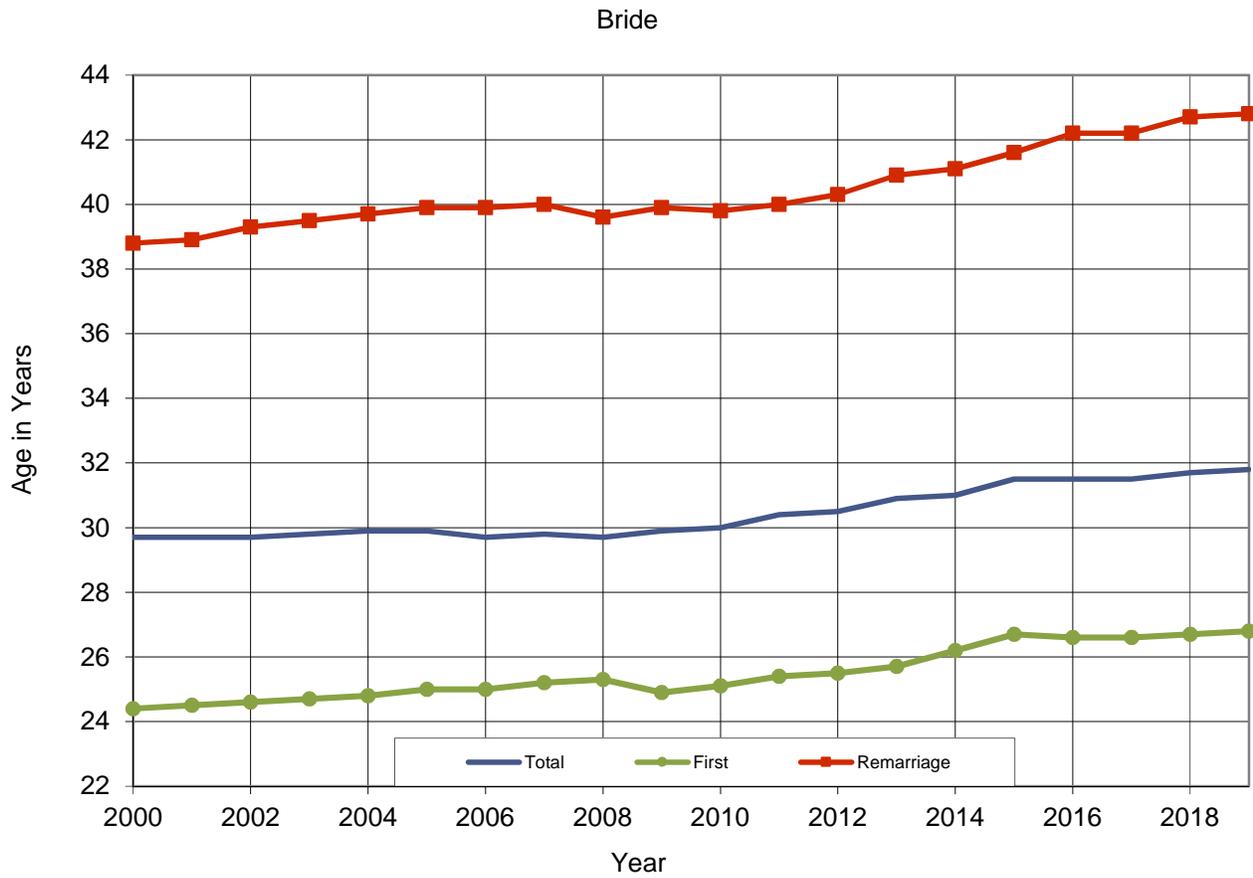


Figure F4

Table F6  
 Marriage Dissolutions by Age-Group of Husband by Age-Group of Wife  
 Kansas, 2019

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	6,398	19	500	996	1,106	1,036	823	658	486	319	168	109	32	22	124
15-19	4	1	2	1	0	0	0	0	0	0	0	0	0	0	0
20-24	342	17	252	55	5	4	0	0	0	0	0	0	0	0	9
25-29	821	1	185	478	110	27	11	2	1	0	0	0	0	0	6
30-34	996	0	41	311	473	110	35	10	3	0	0	0	0	0	13
35-39	1,064	0	7	103	337	428	127	37	9	1	0	1	0	0	14
40-44	906	0	4	21	117	280	327	87	41	8	3	2	0	0	16
45-49	770	0	1	10	31	117	209	272	89	23	6	0	0	0	12
50-54	525	0	2	2	11	39	64	161	178	48	6	3	4	0	7
55-59	398	0	1	3	9	13	32	51	106	129	31	14	1	0	8
60-64	235	0	0	0	3	8	8	21	35	72	52	28	4	0	4
65-69	131	0	0	0	0	4	2	6	10	21	39	35	9	3	2
70-74	62	0	0	0	0	0	1	1	5	9	20	15	10	1	0
75 & Over	48	0	0	0	0	0	2	3	1	1	6	11	4	17	3
n.s.	96	0	5	12	10	6	5	7	8	7	5	0	0	1	30

Average Age at Marriage Dissolution  
Kansas, 2000-2019

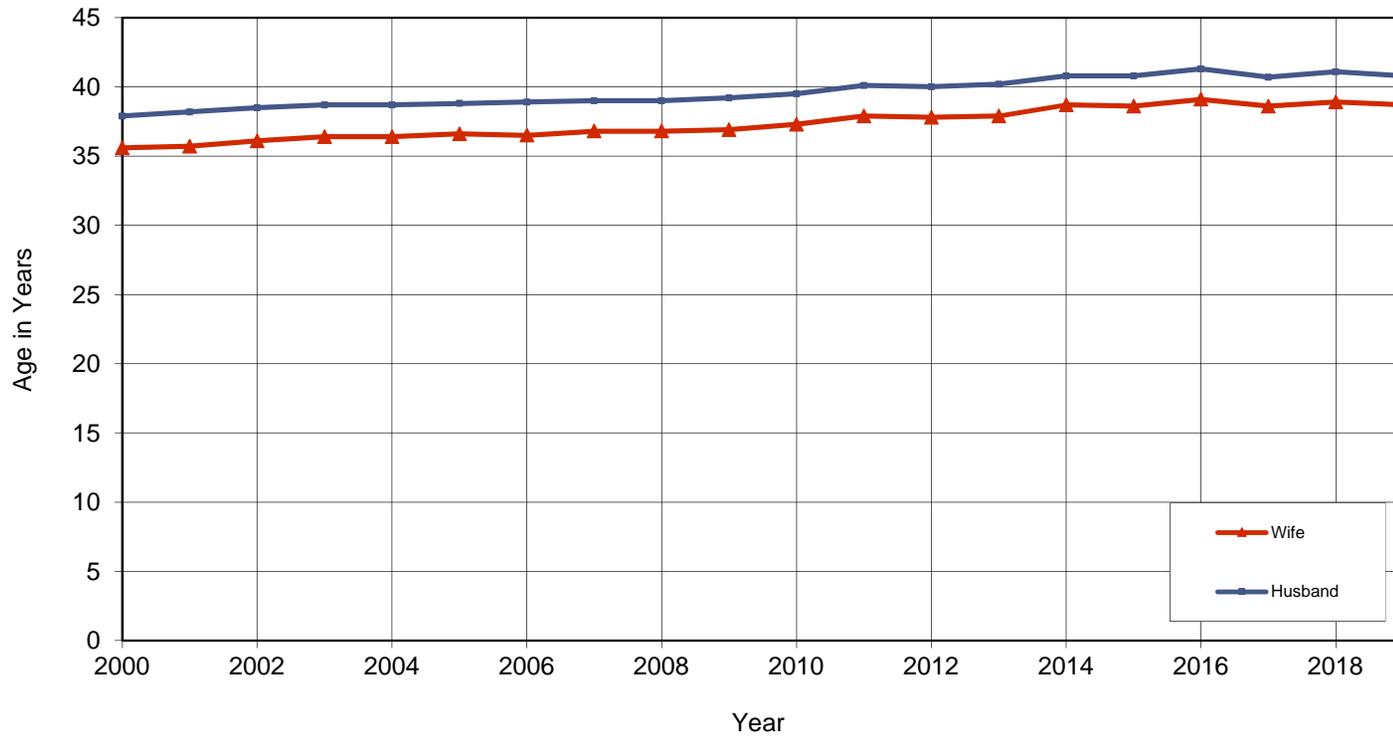


Figure F5

Table F7  
 Marriage Dissolutions  
 by Duration of Marriage in Years  
 Kansas, 2019

Duration of Marriage	Total	Divorces	Annulments
Total	6,398	6,303	95
Under 1	203	154	49
1	433	413	20
2	502	499	3
3	536	527	9
4	491	487	4
5	420	417	3
6	341	340	1
7	352	351	1
8	290	289	1
9	281	281	0
10	240	240	0
11	195	195	0
12	201	201	0
13	172	172	0
14	178	178	0
15	125	125	0
16	113	113	0
17	120	118	2
18	100	100	0
19	119	119	0
20-24	387	387	0
25-29	252	252	0
30-34	136	136	0
35-39	71	70	1
40 & Over	48	48	0
n.s.	92	91	1

Marriage Dissolutions  
Percent Distribution by Number of Minor Children  
Kansas, 2019

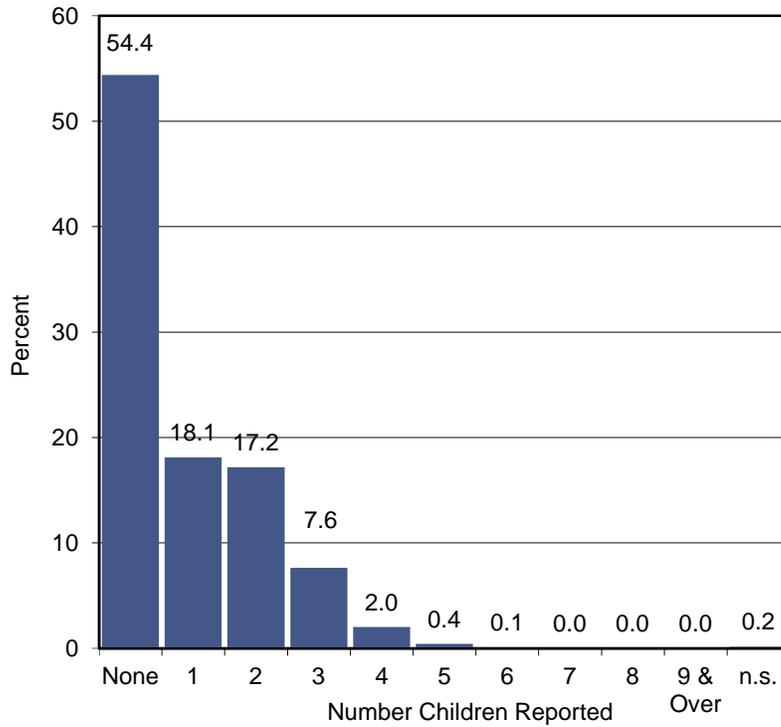


Figure F6

Table F8  
Marriage Dissolutions by Number of Minor Children Reported  
and Number of Minor Children Affected  
Kansas, 2019

Number of Minor Children Reported	Divorces		Annulments		Total Children Affected
	Number	Percent	Number	Percent	Number*
Total	6,303	100.0	95	100.1	5,523
None	3,390	53.9	88	92.6	0
1	1,157	18.4	1	1.1	1,158
2	1,095	17.4	4	4.2	2,198
3	488	7.8	1	1.1	1,467
4 or More	163	2.6	1	1.1	700
n.s.	10	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, 2015-2019

County of Marriage	Year										5-Year Rate
	2015		2016		2017		2018		2019		
	Number	Rate									
Kansas	17,595	6.0	17,948	6.2	17,274	5.9	16,362	5.6	15,403	5.3	5.8
Allen	59	4.6	59	4.6	56	4.5	63	5.1	50	4.0	4.6
Anderson	31	4.0	40	5.1	34	4.3	39	5.0	51	6.5	5.0
Atchison	90	5.5	79	4.8	77	4.7	92	5.7	60	3.7	4.9
Barber	36	7.5	31	6.6	22	4.8	28	6.3	32	7.2	6.5
Barton	176	6.5	171	6.4	156	5.9	150	5.7	144	5.6	6.0
Bourbon	109	7.4	95	6.5	87	5.9	79	5.4	68	4.7	6.0
Brown	63	6.4	48	5.0	58	6.0	52	5.4	46	4.8	5.5
Butler	404	6.1	428	6.4	453	6.8	406	6.1	415	6.2	6.3
Chase	33	12.3	33	12.4	39	14.5	36	13.7	37	14.0	13.4
Chautauqua	20	5.9	19	5.6	18	5.4	14	4.2	13	4.0	5.0
Cherokee	107	5.2	87	4.3	72	3.6	64	3.2	61	3.1	3.9
Cheyenne	8	3.0	11	4.1	5	1.9	11	4.1	6	2.3	3.1
Clark	7	3.3	7	3.4	4	2.0	5	2.5	6	3.0	2.9
Clay	45	5.4	58	7.1	61	7.7	67	8.4	60	7.5	7.2
Cloud	53	5.7	48	5.2	51	5.7	44	5.0	51	5.8	5.5
Coffey	50	6.0	47	5.6	43	5.2	52	6.3	48	5.9	5.8
Comanche	12	6.5	7	3.8	8	4.5	9	5.1	13	7.6	5.5
Cowley	214	6.0	212	5.9	212	6.0	190	5.4	169	4.8	5.6
Crawford	219	5.6	210	5.4	216	5.5	202	5.2	179	4.6	5.3
Decatur	12	4.1	15	5.3	17	5.9	18	6.3	9	3.2	4.9
Dickinson	130	6.7	108	5.7	108	5.7	97	5.2	108	5.8	5.8
Doniphan	29	3.7	31	4.0	30	3.9	26	3.4	33	4.3	3.9
Douglas	812	6.9	792	6.6	758	6.3	676	5.6	655	5.4	6.1
Edwards	13	4.4	16	5.4	13	4.5	17	6.0	19	6.8	5.4
Elk	15	5.8	7	2.7	17	6.8	12	4.8	10	4.0	4.8
Ellis	170	5.9	168	5.8	169	5.9	172	6.0	170	6.0	5.9
Ellsworth	38	6.0	25	4.0	40	6.3	30	4.8	33	5.4	5.3
Finney	223	6.0	288	7.8	262	7.1	218	6.0	201	5.5	6.5
Ford	244	7.1	286	8.4	249	7.2	251	7.4	203	6.0	7.2
Franklin	144	5.6	149	5.8	126	4.9	155	6.0	161	6.3	5.7
Geary	535	14.4	500	14.1	484	14.3	407	12.5	404	12.8	13.6
Gove	14	5.3	7	2.7	5	1.9	10	3.8	9	3.4	3.4
Graham	15	5.8	14	5.5	11	4.4	12	4.8	12	4.8	5.1
Grant	35	4.5	28	3.7	19	2.5	24	3.3	25	3.5	3.5
Gray	26	4.2	26	4.3	25	4.2	15	2.5	31	5.2	4.1
Greeley	2	1.5	10	7.7	11	8.8	3	2.4	8	6.5	5.4
Greenwood	37	5.9	32	5.2	32	5.2	39	6.4	31	5.2	5.6
Hamilton	8	3.2	5	2.0	12	4.5	8	3.1	8	3.2	3.2
Harper	28	4.8	30	5.3	34	6.1	26	4.7	23	4.2	5.0
Harvey	230	6.6	240	6.9	220	6.4	243	7.1	251	7.3	6.8
Haskell	30	7.4	17	4.2	16	3.9	25	6.3	19	4.8	5.3
Hodgeman	7	3.7	5	2.7	14	7.6	10	5.5	10	5.6	5.0
Jackson	66	4.9	71	5.3	43	3.2	48	3.6	53	4.0	4.2
Jefferson	95	5.0	165	8.7	142	7.5	145	7.6	129	6.8	7.1
Jewell	13	4.4	19	6.5	16	5.6	22	7.7	7	2.4	5.3
Johnson	2,586	4.5	2,795	4.8	2,598	4.4	2,505	4.2	2,313	3.8	4.3
Kearny	18	4.6	18	4.6	20	5.1	32	8.1	24	6.3	5.7
Kingman	49	6.4	43	5.8	39	5.3	37	5.1	32	4.5	5.4
Kiowa	13	5.1	14	5.6	12	4.8	8	3.2	29	11.7	6.1
Labette	104	5.0	86	4.2	89	4.4	94	4.7	83	4.2	4.5
Lane	4	2.4	9	5.5	3	1.9	6	3.8	4	2.6	3.3
Leavenworth	506	6.4	504	6.3	495	6.1	491	6.0	461	5.6	6.1
Lincoln	17	5.5	20	6.5	14	4.6	6	2.0	15	5.1	4.7
Linn	49	5.1	65	6.8	73	7.5	84	8.6	70	7.2	7.1
Logan	16	5.7	19	6.7	17	6.0	20	7.0	14	5.0	6.1

Table F9  
 Marriages by County of Marriage and Peer Group\*  
 by Number and Rate†  
 Kansas, 2015-2019

County of Marriage	Year										5-Year Rate
	2015		2016		2017		2018		2019		
	Number	Rate									
Lyon	193	5.8	199	5.9	197	5.9	172	5.1	154	4.6	5.5
McPherson	175	6.0	179	6.2	160	5.6	176	6.2	196	6.9	6.2
Marion	52	4.3	57	4.7	52	4.3	67	5.6	48	4.0	4.6
Marshall	47	4.7	64	6.5	50	5.1	49	5.0	50	5.2	5.3
Meade	21	4.8	19	4.5	21	4.9	19	4.6	17	4.2	4.6
Miami	215	6.6	209	6.3	216	6.5	185	5.5	196	5.7	6.1
Mitchell	37	5.9	26	4.2	28	4.6	26	4.2	24	4.0	4.6
Montgomery	199	6.0	209	6.4	174	5.3	167	5.2	149	4.7	5.5
Morris	41	7.3	30	5.4	30	5.5	30	5.4	30	5.3	5.8
Morton	11	3.7	16	5.6	16	5.8	18	6.7	9	3.5	5.1
Nemaha	75	7.3	63	6.2	60	5.9	75	7.4	62	6.1	6.6
Neosho	98	6.0	100	6.2	108	6.7	82	5.1	82	5.1	5.8
Ness	8	2.7	14	4.7	18	6.3	10	3.5	12	4.4	4.3
Norton	34	6.1	28	5.1	31	5.7	31	5.7	26	4.8	5.5
Osage	69	4.4	67	4.2	65	4.1	80	5.0	91	5.7	4.7
Osborne	19	5.2	22	6.0	20	5.5	15	4.3	9	2.6	4.8
Ottawa	24	4.0	29	4.9	26	4.4	23	4.0	20	3.5	4.2
Pawnee	47	6.9	35	5.2	27	4.0	37	5.6	27	4.2	5.2
Phillips	31	5.7	26	4.8	30	5.6	20	3.8	19	3.6	4.7
Pottawatomie	83	3.6	113	4.8	112	4.7	116	4.8	98	4.0	4.4
Pratt	61	6.3	45	4.7	49	5.1	49	5.2	52	5.7	5.4
Rawlins	11	4.4	17	6.7	16	6.4	16	6.4	17	6.7	6.1
Reno	428	6.7	396	6.3	423	6.8	390	6.3	368	5.9	6.4
Republic	26	5.5	30	6.4	23	4.9	26	5.6	26	5.6	5.6
Rice	41	4.1	56	5.7	55	5.7	57	6.0	47	4.9	5.3
Riley	768	10.2	766	10.4	692	9.3	728	9.9	642	8.6	9.7
Rooks	24	4.6	28	5.5	32	6.3	21	4.2	29	5.9	5.3
Rush	13	4.2	12	3.9	8	2.6	13	4.2	8	2.6	3.5
Russell	33	4.7	19	2.7	48	6.9	36	5.2	39	5.7	5.0
Saline	324	5.8	353	6.4	324	5.9	332	6.1	278	5.1	5.9
Scott	31	6.2	19	3.8	41	8.3	39	8.0	34	7.0	6.6
Sedgwick	3,308	6.5	3,227	6.3	3,209	6.2	2,966	5.8	2,849	5.5	6.1
Seward	177	7.6	192	8.5	157	7.1	132	6.1	131	6.1	7.1
Shawnee	1,072	6.0	1,077	6.0	995	5.6	894	5.0	801	4.5	5.4
Sheridan	7	2.8	9	3.6	12	4.7	16	6.3	14	5.6	4.6
Sherman	44	7.4	21	3.5	41	6.9	29	4.9	24	4.1	5.4
Smith	19	5.1	18	5.0	18	4.9	18	5.0	14	3.9	4.8
Stafford	26	6.1	22	5.2	21	5.0	18	4.3	29	7.0	5.5
Stanton	19	9.2	30	14.5	20	9.7	14	7.0	20	10.0	10.1
Stevens	20	3.4	27	4.8	36	6.4	26	4.7	32	5.8	5.0
Sumner	175	7.4	156	6.7	140	6.0	139	6.0	145	6.3	6.5
Thomas	68	8.6	75	9.5	39	5.0	61	7.9	58	7.5	7.7
Trego	21	7.2	19	6.6	20	6.9	13	4.7	17	6.1	6.3
Wabaunsee	36	5.2	48	7.0	46	6.7	51	7.4	45	6.5	6.5
Wallace	18	11.9	6	4.0	4	2.6	11	7.3	4	2.6	5.7
Washington	38	6.8	39	7.0	42	7.7	41	7.6	35	6.5	7.1
Wichita	19	8.8	12	5.7	11	5.2	8	3.8	6	2.8	5.3
Wilson	38	4.3	42	4.8	41	4.7	38	4.4	29	3.4	4.3
Woodson	25	8.0	11	3.5	25	7.9	14	4.4	12	3.8	5.5
Wyandotte	1,157	7.1	1,354	8.3	1,340	8.1	1,173	7.1	1,102	6.7	7.4
n.s.	0	n/a	0	n/a	0	n/a	0	n/a	1	n/a	n/a
Peer Group											
Frontier	600	5.4	583	5.4	588	5.4	565	5.3	545	5.1	5.3
Rural	1,302	5.6	1,244	5.4	1,272	5.5	1,291	5.7	1,204	5.3	5.5
Densely -Settled Rural	2,786	5.9	2,912	6.2	2,691	5.8	2,586	5.6	2,429	5.3	5.7
Semi-Urban	3,466	7.5	3,460	7.5	3,328	7.3	3,215	7.1	3,043	6.7	7.2
Urban	9,441	5.8	9,749	6.0	9,395	5.7	8,705	5.3	8,181	4.9	5.5

\* 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, 2015-2019

County of Action	Year										5-Year Rate
	2015		2016		2017		2018		2019		
	Number	Rate									
Kansas	8,036	2.8	7,198	2.5	6,494	2.2	6,538	2.2	6,398	2.2	2.4
Allen	26	2.0	43	3.4	28	2.2	21	1.7	28	2.3	2.3
Anderson	26	3.3	35	4.5	46	5.9	177	22.5	116	14.8	10.2
Atchison	36	2.2	29	1.8	29	1.8	36	2.2	34	2.1	2.0
Barber	10	2.1	7	1.5	10	2.2	9	2.0	8	1.8	1.9
Barton	73	2.7	74	2.8	72	2.7	37	1.4	58	2.2	2.4
Bourbon	50	3.4	55	3.8	48	3.3	49	3.3	48	3.3	3.4
Brown	17	1.7	12	1.2	22	2.3	16	1.7	20	2.1	1.8
Butler	148	2.2	141	2.1	132	2.0	128	1.9	99	1.5	1.9
Chase	9	3.4	1	0.4	1	0.4	3	1.1	3	1.1	1.3
Chautauqua	10	2.9	9	2.7	9	2.7	10	3.0	6	1.8	2.6
Cherokee	72	3.5	64	3.2	40	2.0	54	2.7	56	2.8	2.8
Cheyenne	7	2.6	6	2.3	9	3.4	5	1.9	4	1.5	2.3
Clark	5	2.4	2	1.0	4	2.0	2	1.0	2	1.0	1.5
Clay	26	3.1	19	2.3	17	2.1	14	1.8	11	1.4	2.2
Cloud	25	2.7	44	4.8	27	3.0	35	4.0	31	3.5	3.6
Coffey	115	13.7	103	12.2	137	16.7	54	6.6	108	13.2	12.5
Comanche	5	2.7	0	0.0	4	2.2	3	1.7	6	3.5	2.0
Cowley	143	4.0	104	2.9	97	2.7	96	2.7	106	3.0	3.1
Crawford	112	2.9	84	2.1	77	2.0	101	2.6	72	1.9	2.3
Decatur	8	2.7	9	3.2	6	2.1	6	2.1	6	2.1	2.4
Dickinson	81	4.2	67	3.5	73	3.9	69	3.7	57	3.1	3.7
Doniphan	18	2.3	11	1.4	5	0.6	15	2.0	12	1.6	1.6
Douglas	197	1.7	161	1.3	187	1.5	194	1.6	174	1.4	1.5
Edwards	14	4.7	14	4.8	8	2.8	5	1.8	9	3.2	3.5
Elk	4	1.5	2	0.8	7	2.8	3	1.2	7	2.8	1.8
Ellis	69	2.4	50	1.7	53	1.8	66	2.3	81	2.8	2.2
Ellsworth	42	6.6	37	5.8	39	6.2	23	3.7	23	3.8	5.2
Finney	77	2.1	99	2.7	76	2.0	54	1.5	80	2.2	2.1
Ford	81	2.3	79	2.3	83	2.4	101	3.0	87	2.6	2.5
Franklin	76	3.0	65	2.5	52	2.0	33	1.3	36	1.4	2.0
Geary	341	9.2	358	10.1	323	9.5	353	10.8	318	10.0	9.9
Gove	5	1.9	5	1.9	7	2.7	3	1.1	3	1.1	1.8
Graham	3	1.2	10	3.9	7	2.8	6	2.4	9	3.6	2.8
Grant	22	2.8	18	2.4	15	2.0	16	2.2	13	1.8	2.2
Gray	13	2.1	13	2.2	8	1.3	8	1.3	7	1.2	1.6
Greeley	4	3.0	4	3.1	1	0.8	2	1.6	5	4.1	2.5
Greenwood	10	1.6	7	1.1	4	0.7	13	2.1	15	2.5	1.6
Hamilton	7	2.8	10	3.9	4	1.5	4	1.5	4	1.6	2.3
Harper	18	3.1	22	3.9	19	3.4	9	1.6	13	2.4	2.9
Harvey	116	3.3	76	2.2	72	2.1	72	2.1	63	1.8	2.3
Haskell	7	1.7	5	1.2	8	2.0	6	1.5	5	1.3	1.5
Hodgeman	4	2.1	3	1.6	6	3.3	4	2.2	5	2.8	2.4
Jackson	13	1.0	20	1.5	11	0.8	23	1.7	18	1.4	1.3
Jefferson	16	0.8	15	0.8	41	2.2	25	1.3	26	1.4	1.3
Jewell	9	3.0	10	3.4	7	2.5	4	1.4	7	2.4	2.6
Johnson	939	1.6	805	1.4	760	1.3	780	1.3	799	1.3	1.4
Kearny	9	2.3	11	2.8	6	1.5	8	2.0	12	3.1	2.3
Kingman	19	2.5	19	2.5	16	2.2	21	2.9	17	2.4	2.5
Kiowa	4	1.6	7	2.8	2	0.8	5	2.0	4	1.6	1.8
Labette	57	2.7	48	2.3	47	2.3	40	2.0	32	1.6	2.2
Lane	10	6.0	6	3.7	8	5.1	8	5.1	3	2.0	4.4
Leavenworth	244	3.1	225	2.8	210	2.6	208	2.6	177	2.2	2.6
Lincoln	8	2.6	8	2.6	9	3.0	8	2.6	10	3.4	2.8
Linn	36	3.8	32	3.3	41	4.2	31	3.2	30	3.1	3.5
Logan	4	1.4	8	2.8	5	1.8	5	1.8	11	3.9	2.3

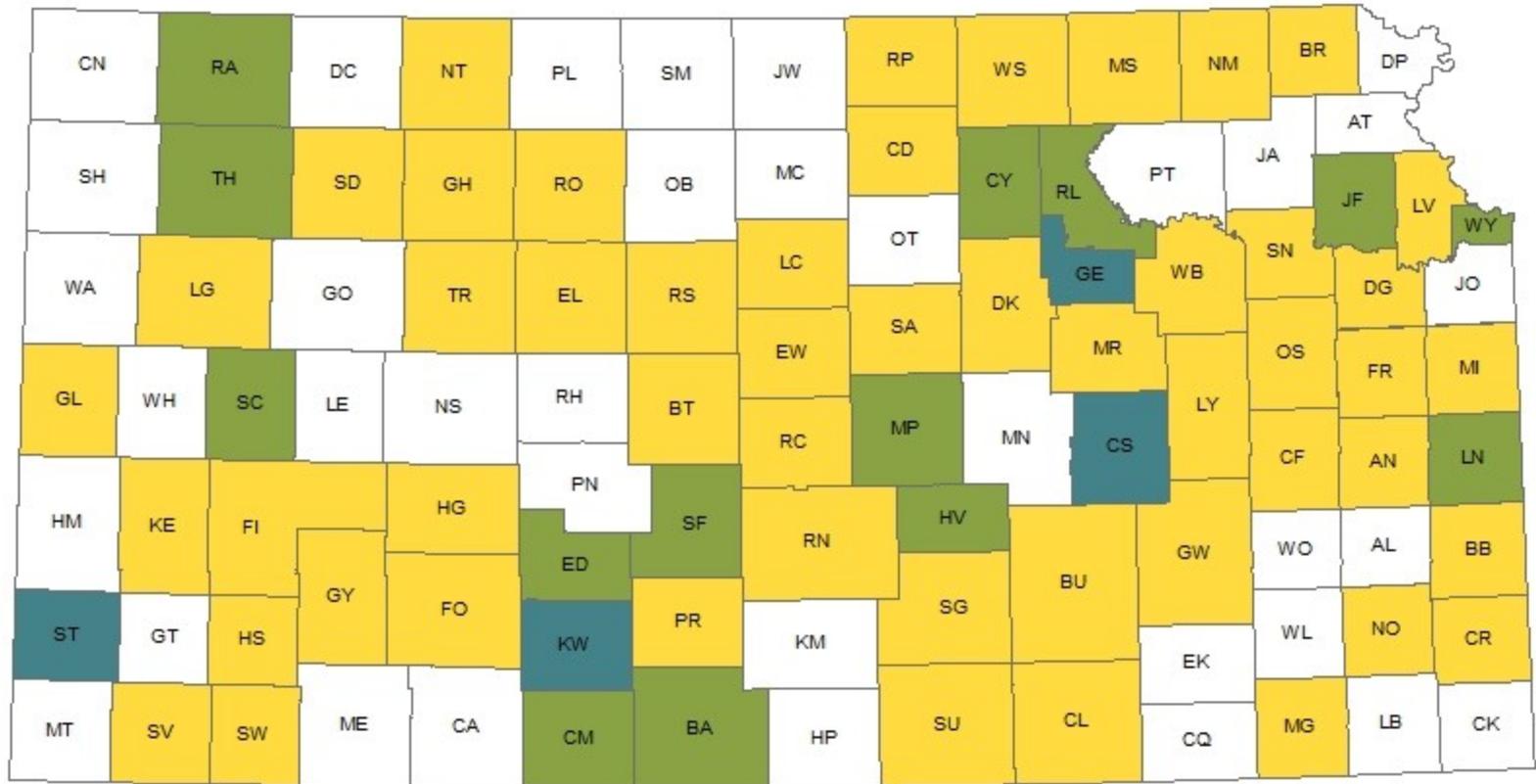
Table F10  
 Marriage Dissolutions by County of Action and Peer Group\*  
 by Number and Rate†  
 Kansas, 2015-2019

County of Action	Year										5-Year Rate
	2015		2016		2017		2018		2019		
	Number	Rate									
Lyon	91	2.7	69	2.1	48	1.4	62	1.9	62	1.9	2.0
McPherson	72	2.5	67	2.3	51	1.8	63	2.2	70	2.5	2.3
Marion	20	1.7	16	1.3	15	1.3	20	1.7	11	0.9	1.4
Marshall	24	2.4	27	2.7	15	1.5	18	1.9	17	1.8	2.1
Meade	9	2.1	9	2.1	10	2.3	6	1.4	2	0.5	1.7
Miami	97	3.0	90	2.7	110	3.3	91	2.7	115	3.4	3.0
Mitchell	19	3.0	11	1.8	10	1.6	8	1.3	18	3.0	2.1
Montgomery	113	3.4	114	3.5	102	3.1	106	3.3	121	3.8	3.4
Morris	8	1.4	13	2.3	12	2.2	10	1.8	9	1.6	1.9
Morton	6	2.0	3	1.1	4	1.5	5	1.9	6	2.3	1.7
Nemaha	19	1.9	15	1.5	15	1.5	11	1.1	16	1.6	1.5
Neosho	42	2.6	30	1.9	28	1.7	27	1.7	32	2.0	2.0
Ness	8	2.7	14	4.7	7	2.4	5	1.8	5	1.8	2.7
Norton	37	6.7	15	2.7	21	3.9	11	2.0	10	1.9	3.4
Osage	45	2.8	41	2.6	39	2.5	39	2.4	39	2.4	2.6
Osborne	6	1.6	7	1.9	6	1.7	4	1.2	6	1.8	1.6
Ottawa	13	2.2	19	3.2	9	1.5	14	2.4	20	3.5	2.6
Pawnee	26	3.8	17	2.5	13	1.9	25	3.8	24	3.7	3.2
Phillips	13	2.4	12	2.2	8	1.5	11	2.1	14	2.7	2.2
Pottawatomie	35	1.5	31	1.3	22	0.9	42	1.7	40	1.6	1.4
Pratt	21	2.2	24	2.5	16	1.7	15	1.6	16	1.7	1.9
Rawlins	8	3.2	6	2.4	6	2.4	5	2.0	7	2.8	2.5
Reno	181	2.8	132	2.1	157	2.5	155	2.5	166	2.7	2.5
Republic	15	3.2	17	3.6	13	2.8	15	3.2	14	3.0	3.2
Rice	11	1.1	23	2.3	14	1.4	10	1.0	13	1.4	1.5
Riley	215	2.9	156	2.1	178	2.4	173	2.3	142	1.9	2.3
Rooks	8	1.5	6	1.2	14	2.8	14	2.8	10	2.0	2.1
Rush	8	2.6	8	2.6	4	1.3	7	2.3	5	1.6	2.1
Russell	19	2.7	15	2.1	12	1.7	8	1.2	15	2.2	2.0
Saline	196	3.5	187	3.4	187	3.4	168	3.1	187	3.4	3.4
Scott	11	2.2	17	3.4	13	2.6	9	1.8	13	2.7	2.6
Sedgwick	2,148	4.2	1,789	3.5	1,429	2.8	1,426	2.8	1,363	2.6	3.2
Seward	89	3.8	70	3.1	94	4.2	69	3.2	58	2.7	3.4
Shawnee	360	2.0	456	2.6	296	1.7	267	1.5	302	1.7	1.9
Sheridan	4	1.6	2	0.8	7	2.8	4	1.6	5	2.0	1.7
Sherman	26	4.3	24	4.0	23	3.9	15	2.5	12	2.0	3.4
Smith	6	1.6	6	1.7	8	2.2	9	2.5	4	1.1	1.8
Stafford	6	1.4	5	1.2	9	2.1	11	2.6	4	1.0	1.7
Stanton	10	4.8	6	2.9	11	5.3	5	2.5	8	4.0	3.9
Stevens	36	6.2	19	3.4	23	4.1	20	3.6	19	3.5	4.2
Sumner	58	2.5	76	3.3	61	2.6	68	3.0	66	2.9	2.8
Thomas	27	3.4	26	3.3	22	2.8	27	3.5	28	3.6	3.3
Trego	4	1.4	5	1.7	10	3.5	5	1.8	6	2.1	2.1
Wabaunsee	12	1.7	9	1.3	7	1.0	11	1.6	9	1.3	1.4
Wallace	2	1.3	3	2.0	3	2.0	3	2.0	5	3.3	2.1
Washington	12	2.1	4	0.7	8	1.5	7	1.3	12	2.2	1.6
Wichita	3	1.4	4	1.9	6	2.8	4	1.9	3	1.4	1.9
Wilson	34	3.8	26	3.0	23	2.7	20	2.3	19	2.2	2.8
Woodson	9	2.9	4	1.3	5	1.6	6	1.9	7	2.2	2.0
Wyandotte	294	1.8	282	1.7	255	1.5	323	2.0	249	1.5	1.7
n.s.	0	n/a	n/a								
Peer Group											
Frontier	263	2.4	247	2.3	252	2.3	218	2.0	227	2.1	2.2
Rural	752	3.2	688	3.0	669	2.9	686	3.0	698	3.1	3.0
Densely -Settled Rural	1,244	2.6	1,142	2.4	1,046	2.2	1,056	2.3	1,090	2.4	2.4
Semi-Urban	1,595	3.4	1,403	3.1	1,390	3.0	1,380	3.0	1,319	2.9	3.1
Urban	4,182	2.6	3,718	2.3	3,137	1.9	3,198	1.9	3,064	1.8	2.1

\* See Technical Notes for Peer Group definition.

† Rate per 1,000 population

# Marriage Rates by County of Occurrence Kansas, 2019



Marriages per 1,000 population

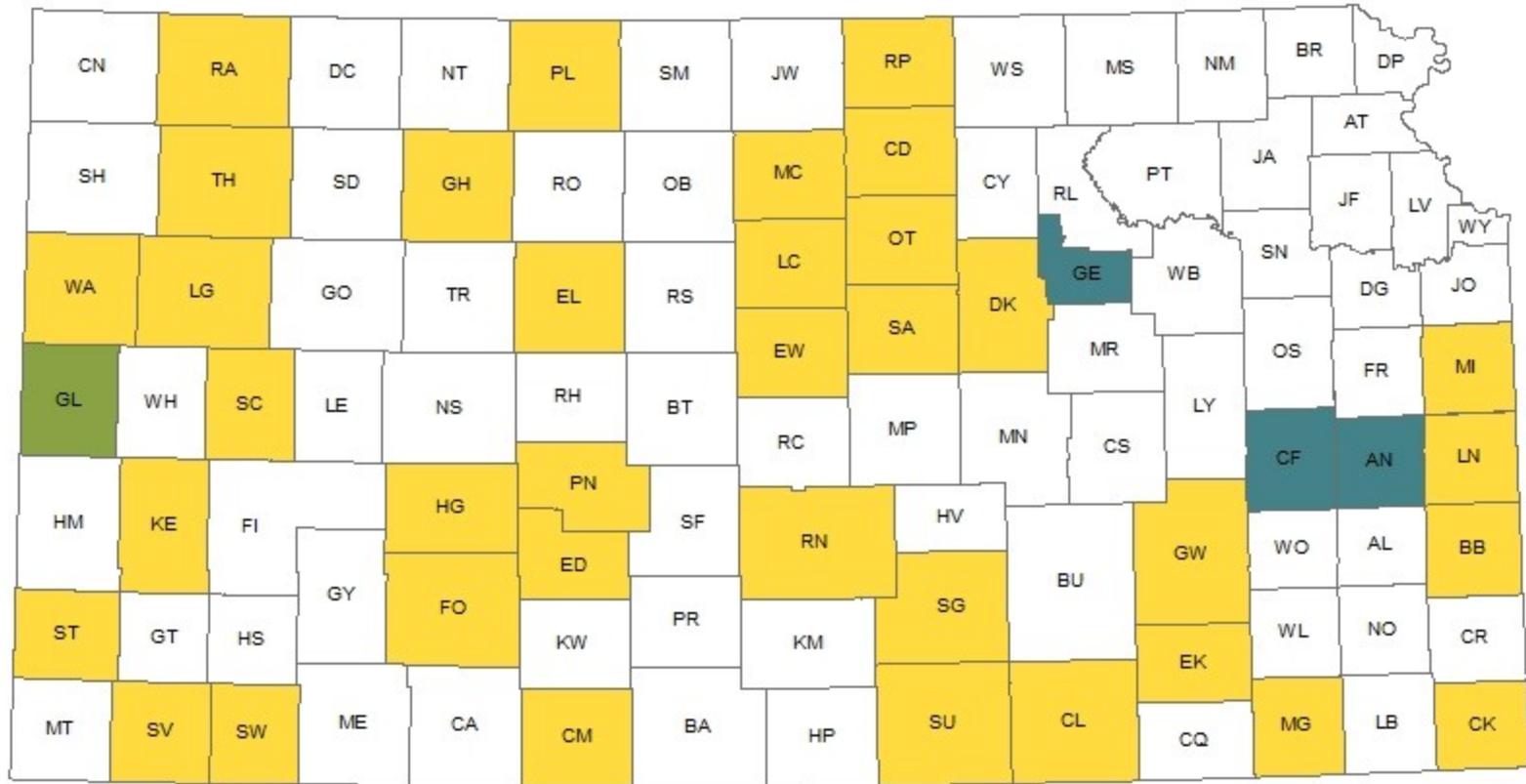
State Rate: 5.3

### Legend



Figure F7

## Marriage Dissolutions by County of Occurrence Kansas, 2019



Marriage Dissolutions per 1,000 population

### Legend

Kansas Rate: 2.2



Figure F8

# TECHNICAL NOTES

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## ***Revisions and Updates***

### **Revisions to 2019 Annual Summary**

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 E33, 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.

### **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.

### **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 2016 Annual Summary**

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 2015 Annual Summary**

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)
<b>A. VITAL EVENTS</b>		
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>B. POPULATION</b>		
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
<b>C. LIVE BIRTHS AND FERTILITY</b>		
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, 1996-2015
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
<b>D. FETAL AND INFANT MORTALITY</b>		
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, 2015
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
<b>E. GENERAL MORTALITY</b>		
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
<b>F. MARRIAGES AND MARRIAGE DISSOLUTIONS</b>		
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
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F7	35	Marriage Rates by County of Occurrence, Kansas, 2015 [MAP]
F8	36	Marriage Dissolution Rates by County of Action, Kansas, 2015 [MAP]

### **Revisions to 2014 Annual Summary**

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.

### **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 removed 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.

### **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 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 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”.<sup>1</sup>

### **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.<sup>2</sup>

#### 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.<sup>3</sup>

### **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[3]. 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 fullterm.<sup>4</sup>

#### 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.

### **External Cause of Death by Injury Matrix, Intent and Cause Group Categories**

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](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.

### **Years of Potential Life Lost before Age 75 (YPLL75)**

The YPLL75, for this report, is a measurement of the number of years of potential life lost by each death occurring before age 75.<sup>5</sup> 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.

### **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.

### **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.

### **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 "3. *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.

## ***General Methods***

## **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, Preliminary Abortion Report, 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 certificates, and abortion reports are completed by the combined efforts of physicians, hospital personnel, funeral directors, attorneys, and district courts. All certificates 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 certificates and works to ensure the completeness and accuracy of the certificates 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.

All vital events included in this report cover a calendar year. Birth, death, and stillbirth events are counted in the *2015 Kansas Annual Summary of Vital Statistics* if they were reported by June 30, 2016. 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.

### **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.

### **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.<sup>6</sup> 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 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.

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.

Table A. Aggregation Grid for Population Groups

Aggregation Level	Population Groups								
None	Hispanic any Race	White Non-Hispanic	Black Non-Hispanic	Asian Non-Hispanic	NHOPI Non-Hispanic	AIAN Non-Hispanic	Multi race Non-Hispanic	Other race Non-Hispanic	Unknown Non-Hispanic
Partial	Hispanic any Race	White Non-Hispanic	Black Non-Hispanic	Asian/NHOPI Non-Hispanic		AIAN Non-Hispanic	Multi & other non-specified race(s) Non-Hispanic		N.A.
Full	Hispanic any Race	White Non-Hispanic	Black Non-Hispanic	Multi, other specified & non-specified race(s) Non-Hispanic					N.A.

The U.S. 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.

## **Residence vs occurrence data**

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 this report are residence data, while marriages and marriage dissolutions are occurrence data; and abortions are reported in both data formats (residence and occurrence).

## **Population Estimates**

All population data used in the Annual Summary come from the United States Census Bureau (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.

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 example for 2001.

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

### **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.

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.

BEPHI uses peer groups in county statistics tables. Based on the 2010 U.S. Census, eight Kansas counties changed peer groups. In order to facilitate a time series comparison, peer-group statistics for prior years are based on the peer-group in effect during that decade.<sup>7</sup> Sources for calculation of population densities are population figures from the 2010 U.S. Census and land areas from the 2010 U.S. Census.

### **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 [3].<sup>8</sup> 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 increas-

es 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 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:

$$R \pm (1.96 \times SE)$$

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:

$$\begin{aligned} \text{Lower limit} &= R - (1.96 \times SE) \\ \text{Upper limit} &= R + (1.96 \times SE) \end{aligned}$$

where:

$$\begin{aligned} R &= \text{the rate (age-adjusted rate)} \\ SE &= \text{the rate divided by the square root of the number of events (deaths)} \end{aligned}$$

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 10-year rate smoothes 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.

### **Adequacy of Prenatal Care Utilization (APNCU) Index**

Adequacy of prenatal care utilization values are based on a method developed by Dr. Milton Kotelchuck:<sup>9</sup>

**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

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".<sup>10</sup>

Infants born small for gestational age but constitutionally normal may represent 40% or more of the SGA infants at term.<sup>11</sup> However, "In early preterm gestations, the definition of SGA may be justified as a proxy for IUGR".<sup>12</sup> 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 helps protect the health of your baby. Women who gain too little are at increased risk of having a small baby (less than 5 1/2 pounds). Women who gain too much are at increased risk of having an early baby or a large baby. They may also have health problems themselves such as diabetes, high blood pressure and varicose veins."<sup>13</sup>

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

Source: Institute of Medicine

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).<sup>14</sup>

### 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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## 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.

## DEFINITIONS (cont.)

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 a male and female.
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).

## DEFINITIONS (cont.)

Population Density:	The average number of inhabitants per square mile.
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:	<p>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."</p> <p>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.</p>
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.

## DEFINITIONS (cont.)

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 <a href="http://pages.stern.nyu.edu/~dbackus/BCH/ms/Espen_lifeexpectancy.pdf">pages.stern.nyu.edu/~dbackus/BCH/ms/Espen_lifeexpectancy.pdf</a> .
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

Abortion Ratio:	$\frac{\text{induced abortions}}{\text{live births}}$	x 1,000
Age-Adjusted Death Rate:	$\frac{\sum M_a P_a}{P}$	x 1,000 or 100,000
Where	$M_a$ = age-specific death rate per 1,000 or 100,000 population for a given age-group $P_a$ = standard population in a given age-group $P$ = total standard population	
Age-Specific Death Rate:	$\frac{\text{deaths in a specific age-group}}{\text{population in a specific age-group}}$	x 1,000
Age-Specific Fertility Rate:	$\frac{\text{live births in a specific age-group}}{\text{female population in a specific age-group}}$	x 1,000
Birth Rate:	$\frac{\text{live births}}{\text{total population}}$	x 1,000
Cause-Specific Death Rate:	$\frac{\text{cause-specific deaths}}{\text{total population}}$	x 100,000
Death Rate:	$\frac{\text{total deaths}}{\text{total population}}$	x 1,000
Divorce Rate:	$\frac{\text{divorces}}{\text{total population}}$	x 1,000
Marriage Dissolution Rate:	$\frac{\text{divorces and annulments}}{\text{total population}}$	x 1,000
Fertility Rate:	$\frac{\text{live births}}{\text{female population 15-44}}$	x 1,000
Stillbirth Rate:	$\frac{\text{stillbirths}}{\text{live births + stillbirths}}$	x 1,000
Hebdomadal Death Rate:	$\frac{\text{hebdomadal deaths}}{\text{live births}}$	x 1,000
Infant Death Rate:	$\frac{\text{infant deaths}}{\text{live births}}$	x 1,000
Marriage Rate:	$\frac{\text{marriages}}{\text{total population}}$	x 1,000
Maternal Death Rate:	$\frac{\text{maternal deaths}}{\text{live births}}$	x 100,000

## RATES AND RATIOS (Cont.)

Natural Increase Rate:	live birth rate minus total death rate	
Neonatal Death Rate:	$\frac{\text{neonatal deaths}}{\text{live births}}$	x 1,000
Out-of-Wedlock Birth Ratio:	$\frac{\text{out-of-wedlock births}}{\text{live births}}$	x 100
Perinatal Period III Death Rate:	$\frac{\text{perinatal period III deaths}}{\text{live births} + \text{stillbirths}}$	x 1,000
Post-Neonatal Death Rate:	$\frac{\text{post-neonatal deaths}}{\text{live births}}$	x 1,000
Teenage Pregnancy Rate:	$\frac{\text{live births, stillbirths, abortions for females in a specific age-group}}{\text{female population in a specific age-group}}$	x 1,000
Years of Potential Life Lost Rate	$\frac{\text{years of potential life lost}}{\text{population}}$	x 1,000

## SYMBOLS AND ABBREVIATIONS

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

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

<b>Frontier</b>					
Barber	Chase	<i>Chautauqua</i>	Cheyenne	Clark	Comanche
Decatur	Edwards	Elk	Gove	Graham	Greeley
<i>Greenwood</i>	Hamilton	Hodgeman	Jewell	Kearny	Kiowa
Lane	Lincoln	Logan	Meade	Morton	Ness
Osborne	Rawlins	<i>Rooks</i>	Rush	Sheridan	<i>Sherman</i>
Smith	<i>Stafford</i>	Stanton	Trego	Wallace	Wichita
<b>Rural</b>					
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				
<b>Densely-Settled Rural</b>					
Allen	Atchison	Barton	Bourbon	Cherokee	Cowley
Dickinson	Doniphan	Ellis	Finney	Ford	<i>Jackson</i>
Jefferson	Labette	<i>Lyon</i>	McPherson	Neosho	Osage
Pottawatomie	Seward	Sumner			
<b>Semi-Urban</b>					
Butler	Crawford	Franklin	Geary	Harvey	Miami
Montgomery	Reno	Riley	Saline		
<b>Urban</b>					
Douglas	Johnson	<i>Leavenworth</i>	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

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
	<i>a. Acute Rheumatic Fever and Chronic Rheumatic Heart Disease</i>	<i>I00-I09</i>
	<i>b. Pulmonary Heart Disease and Diseases of Pulmonary Circulation</i>	<i>I26-I28</i>
	<i>c. Other Forms of Heart Disease</i>	<i>I30-I51</i>
20	Essential hypertension and hypertensive renal disease	I10, I12, I15
21	Cerebrovascular disease	I60-I69
	<i>a. Subarachnoid Hemorrhage</i>	<i>I60</i>
	<i>b. Intracerebral and other intracranial hemorrhage</i>	<i>I61-I62</i>
	<i>c. Cerebral Infarction</i>	<i>I63</i>
	<i>d. Stroke, not specified as hemorrhage or infarction</i>	<i>I64</i>
	<i>e. Other cerebrovascular diseases</i>	<i>I67, I69</i>
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-A09, A20-A49, A54-B19, B25-B99, D00-E07, E15-G25, G31-H93, I60-J06, J20-J39, J60-K22, K29-K66, K71-K72, K75-M99, N10-N15, N20-N23, N28-N98, U04 *U01-*U04, V01-Y89
	<u>External causes of Mortality</u>	<u>*U01-*U04, 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
	<i>a. Traffic</i>	<i>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,</i>

		V82.1, V83-V86 (.0-.3), V87 (.0-.8), V89.2
	<i>b. Non-Traffic</i>	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
	<i>a. Water transport</i>	V90-V94
	<i>b. Air and space transport</i>	V95-V97
	<i>c. Falls</i>	W00-W19
	<i>d. Inanimate mechanical forces</i>	W20-W49
	<i>e. Drowning and submersion</i>	W65-W74
	<i>f. Other accidental threats to breathing</i>	W75-W84
	<i>g. Electric current, radiation and air temperature/pressure</i>	W85-W99
	<i>h. Smoke, fire and flames</i>	X00-X09
	<i>i. Forces of nature</i>	X30-X39
	<i>j. Poisoning</i>	X40-X49
	<i>k. Other unintentional injuries</i>	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
	<i>l. Complications of medical and surgical care</i>	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

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-*U04, 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
	<u>Malignant neoplasms</u>	<u>C00-C97</u>
	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, hematopoietic 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
	<u>All Other Causes</u>	All others

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

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 <input type="checkbox"/> Hospital <input type="checkbox"/> Freestanding Birthing Center <input type="checkbox"/> Home Delivery <input type="checkbox"/> Clinic/Doctor's Office <input type="checkbox"/> 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? <input type="checkbox"/> Yes <input type="checkbox"/> 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)
<b>25. CAUSE/CONDITIONS CONTRIBUTING TO FETAL DEATH</b>			
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 – <input type="checkbox"/> Rupture of membranes prior to onset of labor <input type="checkbox"/> Abruptio placenta <input type="checkbox"/> Placental insufficiency <input type="checkbox"/> Prolapsed cord			
<input type="checkbox"/> Chorioamnionitis <input type="checkbox"/> Other (Specify) _____			
Other Obstetrical or Pregnancy Complications (Specify) _____		Fetal Anomaly (Specify) _____	
Fetal Injury (Specify) _____		Fetal Infection (Specify) _____	
Other Fetal Conditions/Disorders (Specify) _____		<input type="checkbox"/> 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 – <input type="checkbox"/> Rupture of membranes prior to onset of labor <input type="checkbox"/> Abruptio placenta <input type="checkbox"/> Placental insufficiency <input type="checkbox"/> Prolapsed cord			
<input type="checkbox"/> Chorioamnionitis <input type="checkbox"/> Other (Specify) _____			
Other Obstetrical or Pregnancy Complications (Specify) _____		Fetal Anomaly (Specify) _____	
Fetal Injury (Specify) _____		Fetal Infection (Specify) _____	
Other Fetal Conditions/Disorders (Specify) _____		<input type="checkbox"/> Unknown	
26. ESTIMATED TIME OF FETAL DEATH <input type="checkbox"/> Dead at time of first assessment, no labor ongoing <input type="checkbox"/> Dead at time of first assessment, labor ongoing <input type="checkbox"/> Died during labor, after first assessment <input type="checkbox"/> Unknown time of fetal death		27a. WAS AN AUTOPSY PERFORMED? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Planned	27b. WAS A HISTOLOGICAL PLACENTAL EXAMINATION PERFORMED? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Planned
		27c. WERE AUTOPSY OR HISTOLOGICAL PLACENTAL EXAMINATION RESULTS USED IN DETERMINING THE CAUSE OF FETAL DEATH? <input type="checkbox"/> Yes <input type="checkbox"/> 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) _____ <input type="checkbox"/> CNM/CM <input type="checkbox"/> Other Midwife <input type="checkbox"/> Other (Specify) _____
31. CERTIFIER'S NAME AND TITLE (Type)  <input type="checkbox"/> M.D. <input type="checkbox"/> D.O. <input type="checkbox"/> Other (Specify) _____		32. CERTIFIER'S MAILING ADDRESS (Street and Number or Rural Route, City or Town, State, Zip Code)	
		33a. METHOD OF DISPOSITION <input type="checkbox"/> Burial <input type="checkbox"/> Cremation <input type="checkbox"/> Donation <input type="checkbox"/> Hospital Disposition <input type="checkbox"/> Removal from State <input type="checkbox"/> 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  Signature >		35. FIRM OR HOSPITAL NAME AND ADDRESS	
		36. DATE FILED BY STATE REGISTRAR (Month, Day, Year)	

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37. IF HOME DELIVERY, WAS DELIVERY PLANNED AT HOME? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				38. MOTHER'S MEDICAL RECORD NO.					
39a. WAS MOTHER EVER MARRIED? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			39b. MOTHER MARRIED? (At birth, conception or any time between) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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.)				41. PARENT'S RACE (Check one or more races to indicate what you consider yourself to be.)					
40a. MOTHER-		40b. FATHER-		41a. MOTHER		41b. FATHER			
<input type="checkbox"/> No, not Spanish/Hispanic/Latina <input type="checkbox"/> Yes, Mexican/Mexican American/Chicana <input type="checkbox"/> Yes, Puerto Rican <input type="checkbox"/> Yes, Cuban <input type="checkbox"/> Yes, Central American <input type="checkbox"/> Yes, South American <input type="checkbox"/> Yes, other Spanish/Hispanic/Latina (Specify) _____ <input type="checkbox"/> Unknown		<input type="checkbox"/> No, not Spanish/Hispanic/Latino <input type="checkbox"/> Yes, Mexican/Mexican American/Chicano <input type="checkbox"/> Yes, Puerto Rican <input type="checkbox"/> Yes, Cuban <input type="checkbox"/> Yes, Central American <input type="checkbox"/> Yes, South American <input type="checkbox"/> Yes, other Spanish/Hispanic/Latino (Specify) _____ <input type="checkbox"/> Unknown		<input type="checkbox"/> White <input type="checkbox"/> Black or African American <input type="checkbox"/> American Indian or Alaska Native (Name of the enrolled or principal tribes) _____ <input type="checkbox"/> Asian Indian <input type="checkbox"/> Chinese <input type="checkbox"/> Filipino <input type="checkbox"/> Japanese <input type="checkbox"/> Korean <input type="checkbox"/> Vietnamese <input type="checkbox"/> Other Asian (Specify) _____		<input type="checkbox"/> Native Hawaiian <input type="checkbox"/> Guamanian or Chamorro <input type="checkbox"/> Samoan <input type="checkbox"/> Other Pacific Islander (Specify) _____ <input type="checkbox"/> Other (Specify) _____ <input type="checkbox"/> Unknown		<input type="checkbox"/> White <input type="checkbox"/> Black or African American <input type="checkbox"/> American Indian or Alaska Native (Name of the enrolled or principal tribes) _____ <input type="checkbox"/> Asian Indian <input type="checkbox"/> Chinese <input type="checkbox"/> Filipino <input type="checkbox"/> Japanese <input type="checkbox"/> Korean <input type="checkbox"/> Vietnamese <input type="checkbox"/> Other Asian (Specify) _____	
42. ANCESTRY - What is the parents' ancestry or ethnic origin? - Italian, German, Dominican, Vietnamese, Hmong, French Canadian, etc. (Specify below)				43. OCCUPATION AND BUSINESS/INDUSTRY					
				Occupation		Business/Industry (Do not give name of company.)			
42a. MOTHER		42b. FATHER		43a. MOTHER (Most recent)		43b. FATHER (Usual)			
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		<input type="checkbox"/> 8 <sup>th</sup> grade or less <input type="checkbox"/> Some College credit, but no degree <input type="checkbox"/> Unknown <input type="checkbox"/> Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)		<input type="checkbox"/> 9 <sup>th</sup> - 12 <sup>th</sup> grade, no diploma <input type="checkbox"/> Associate degree (e.g., AA,AS) <input type="checkbox"/> Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)		<input type="checkbox"/> High school graduate or GED <input type="checkbox"/> Bachelor's degree (e.g., BA, AB, BS)			
44a. FATHER'S EDUCATION		<input type="checkbox"/> 8 <sup>th</sup> grade or less <input type="checkbox"/> Some College credit, but no degree <input type="checkbox"/> Unknown <input type="checkbox"/> Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)		<input type="checkbox"/> 9 <sup>th</sup> - 12 <sup>th</sup> grade, no diploma <input type="checkbox"/> Associate degree (e.g., AA,AS) <input type="checkbox"/> Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)		<input type="checkbox"/> High school graduate or GED <input type="checkbox"/> Bachelor's degree (e.g., BA, AB, BS)			
45. PREVIOUS LIVE BIRTHS (Do not include this child.)		46. NUMBER OF OTHER OUTCOMES (Spontaneous or induced losses or ectopic or stillbirth pregnancies)		47. PLURALITY - Single, Twin, Triplet, etc. (Specify)		48. IF NOT A SINGLE BIRTH - Born First, Second, Third, etc. (Specify)			
45a. Now living Number _____ <input type="checkbox"/> None	45b. Now dead Number _____ <input type="checkbox"/> None	46a. Before 20 weeks Number _____ <input type="checkbox"/> None	46b. 20 weeks & over Number _____ <input type="checkbox"/> None	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? <input type="checkbox"/> Yes <input type="checkbox"/> 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? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown For each time period, enter either the number of cigarettes or the number of packs of cigarettes <b>smoked per day</b> . If none, enter "0". Average number of cigarettes or packs of cigarettes smoked <b>per day</b> : 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 <input type="checkbox"/> Medicaid <input type="checkbox"/> Private/Employer Ins. <input type="checkbox"/> Self-pay <input type="checkbox"/> Indian Health Service <input type="checkbox"/> CHAMPUS/TRICARE <input type="checkbox"/> Other government <input type="checkbox"/> Other <input type="checkbox"/> Unknown					
				58a. MOTHER TRANSFERRED IN FOR DELIVERY DUE TO MATERNAL, MEDICAL, OR FETAL INDICATIONS? <input type="checkbox"/> Yes <input type="checkbox"/> No (If yes, enter facility name)		58b. FACILITY TRANSFERRED FROM:			

PRENATAL	LABOR-DELIVERY/STILLBORN FETUS
<p><b>59. NUTRITION OF MOTHER</b></p> <p>1. Height _____</p> <p>2. Prepregnancy Weight _____</p> <p>3. Weight at delivery _____</p> <p>4. Did mother get WIC food for herself? Yes _____ No _____ Unknown _____</p> <p><b>60. MEDICAL RISK FACTORS</b> (Check all that apply.)</p> <p>1. <input type="checkbox"/> Diabetes, prepregnancy</p> <p>2. <input type="checkbox"/> Diabetes, gestational</p> <p>3. Hypertension <input type="checkbox"/> Prepregnancy (Chronic) <input type="checkbox"/> Gestational (PIH, preeclampsia) <input type="checkbox"/> Eclampsia</p> <p>4. <input type="checkbox"/> Previous preterm birth</p> <p>5. <input type="checkbox"/> Other previous poor pregnancy outcome (SGA, perinatal death, etc.)</p> <p>6. <input type="checkbox"/> Vaginal bleeding during this pregnancy prior to labor</p> <p>7. <input type="checkbox"/> Pregnancy resulted from infertility treatment (If yes, check all that apply.) <input type="checkbox"/> Fertility-enhancing drugs, Artificial insemination or Intrauterine insemination <input type="checkbox"/> Assisted reproductive technology (e.g. in vitro fertilization (IVF), gamete intrafallopian transfer (GIFT))</p> <p>8. <input type="checkbox"/> Mother had a previous cesarean delivery, if yes, how many Number _____</p> <p>9. <input type="checkbox"/> Alcohol use No. of drinks per week: _____</p> <p>10. <input type="checkbox"/> None of the above</p> <p><b>61. METHOD OF DELIVERY</b></p> <p>1. Forceps attempted? Yes _____ No _____ Successful: Yes _____ No _____</p> <p>2. Vacuum extraction attempted? Yes _____ No _____ Successful: Yes _____ No _____</p> <p>3. Fetal presentation at delivery <input type="checkbox"/> Cephalic <input type="checkbox"/> Breech <input type="checkbox"/> Other</p> <p>4. Final route and method of delivery (check one) <input type="checkbox"/> Vaginal/spontaneous <input type="checkbox"/> Vaginal/forceps <input type="checkbox"/> Vaginal/vacuum <input type="checkbox"/> Cesarean, if cesarean was a trial of labor attempted? Yes _____ No _____</p> <p>5. Hysterotomy/Hysterectomy Yes _____ No _____</p>	<p><b>62. MATERNAL MORBIDITY</b> (Check all that apply.) (These are complications associated with labor and delivery.)</p> <p>1. <input type="checkbox"/> Maternal transfusion</p> <p>2. <input type="checkbox"/> Third or fourth degree perineal laceration</p> <p>3. <input type="checkbox"/> Ruptured uterus</p> <p>4. <input type="checkbox"/> Unplanned hysterectomy</p> <p>5. <input type="checkbox"/> Admission to intensive care unit</p> <p>6. <input type="checkbox"/> Unplanned operating room procedure following delivery</p> <p>7. <input type="checkbox"/> None of the above</p> <p><b>63. INFECTIONS PRESENT AND/OR TREATED</b> (During this pregnancy, check all that apply.)</p> <p>1. <input type="checkbox"/> Gonorrhea</p> <p>2. <input type="checkbox"/> Syphilis</p> <p>3. <input type="checkbox"/> Herpes Simplex Virus (HSV)</p> <p>4. <input type="checkbox"/> Chlamydia</p> <p>5. <input checked="" type="checkbox"/> Listeria</p> <p>6. <input type="checkbox"/> Group B Streptococcus</p> <p>7. <input type="checkbox"/> Cytomeglovirus</p> <p>8. <input type="checkbox"/> Parvo virus</p> <p>9. <input type="checkbox"/> Toxoplasmosis</p> <p>10. <input type="checkbox"/> AIDS or HIV antibody</p> <p>11. <input type="checkbox"/> None of the above</p> <p>12. <input type="checkbox"/> Other (Specify) _____</p> <p><b>64. CONGENITAL ANOMALIES OF THE NEWBORN</b> (Check all that apply.)</p> <p>1. <input type="checkbox"/> Anencephaly</p> <p>2. <input type="checkbox"/> Meningocele/Spina bifida</p> <p>3. <input type="checkbox"/> Cyanotic congenital heart disease</p> <p>4. <input type="checkbox"/> Congenital diaphragmatic hernia</p> <p>5. <input type="checkbox"/> Omphalocele</p> <p>6. <input type="checkbox"/> Gastroschisis</p> <p>7. <input type="checkbox"/> Limb reduction defect (excluding congenital amputation and dwarfing syndromes)</p> <p>8. <input type="checkbox"/> Cleft Lip with or without Cleft Palate</p> <p>9. <input type="checkbox"/> Cleft Palate alone</p> <p>10. <input type="checkbox"/> Down Syndrome <input type="checkbox"/> Karyotype confirmed <input type="checkbox"/> Karyotype pending</p> <p>11. <input type="checkbox"/> Suspected chromosomal disorder <input type="checkbox"/> Karyotype confirmed <input type="checkbox"/> Karyotype pending</p> <p>12. <input type="checkbox"/> Hypospadias</p> <p>13. <input type="checkbox"/> Fetal alcohol syndrome</p> <p>14. <input type="checkbox"/> Other congenital anomalies (Specify) _____</p> <p>15. <input type="checkbox"/> None of the above</p>

THIS IS NOT PART OF THE CERTIFICATE OF STILLBIRTH  
Test required by K.S.A. 65-153F, 153G

Serological Test Made: \_\_\_\_\_ 1<sup>st</sup> \_\_\_\_\_ 2<sup>nd</sup> \_\_\_\_\_ 3<sup>rd</sup> (Trimester) \_\_\_\_\_ At Delivery \_\_\_\_\_ Not Performed

If no test made, state reason: \_\_\_\_\_

**CERTIFICATE OF LIVE BIRTH**

115-

State File Number

1. CHILD'S NAME (First, Middle, Last, Suffix)		2. DATE OF BIRTH (Month, Day, Year)		3. TIME OF BIRTH  M	
4. SEX	5. BIRTH WEIGHT (Grams)	6. CITY, TOWN, OR LOCATION OF BIRTH		7. COUNTY OF BIRTH	
8. PLACE OF BIRTH <input type="checkbox"/> Hospital <input type="checkbox"/> Freestanding Birthing Center <input type="checkbox"/> Home Birth <input type="checkbox"/> Clinic/Doctor's Office <input type="checkbox"/> 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 _____ <input type="checkbox"/> M.D. <input type="checkbox"/> D.O. <input type="checkbox"/> C.N.M. <input type="checkbox"/> Other Midwife <input type="checkbox"/> Other (Specify) _____		
13. Certifier's Name and Title (Type) Name _____ <input type="checkbox"/> M.D. <input type="checkbox"/> D.O. <input type="checkbox"/> Hosp Adm. <input type="checkbox"/> C.N.M. <input type="checkbox"/> Other Midwife <input type="checkbox"/> 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? <input type="checkbox"/> YES <input type="checkbox"/> 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. PARENTS REQUEST SOCIAL SECURITY NUMBER ISSUANCE? <input type="checkbox"/> YES <input type="checkbox"/> NO		30. IMMUNIZATION REGISTRY I wish to enroll my child in the Immunization Registry <input type="checkbox"/> YES <input type="checkbox"/> NO			
31. 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) ➤ _____		32. DATE SIGNED (Month, Day, Year)		33. DATE FILED BY STATE REGISTRAR (Month, Day, Year) (Vital Statistics only)	

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34. IF HOME BIRTH, WAS DELIVERY PLANNED AT HOME? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
35. MOTHER'S SOCIAL SECURITY NUMBER	36. FATHER'S SOCIAL SECURITY NUMBER
37a. WAS MOTHER EVER MARRIED? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
37b. MOTHER MARRIED? (At birth, conception or any time between) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
37c. IF NO, HAS PATERNITY ACKNOWLEDGMENT BEEN SIGNED? <input type="checkbox"/> Yes <input type="checkbox"/> No	
37d. MOTHER REFUSES TO GIVE HUSBAND'S INFORMATION <input type="checkbox"/> Yes <input type="checkbox"/> No	
38. WHAT IS THE PRIMARY LANGUAGE SPOKEN IN THE HOME? <input type="checkbox"/> English <input type="checkbox"/> Spanish <input type="checkbox"/> Vietnamese <input type="checkbox"/> German <input type="checkbox"/> French <input type="checkbox"/> Russian <input type="checkbox"/> Ukrainian <input type="checkbox"/> Mandarin <input type="checkbox"/> Cantonese <input type="checkbox"/> Sign Language <input type="checkbox"/> Other (Specify) _____	
39. 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.)	
39a. MOTHER <input type="checkbox"/> No, not Spanish/Hispanic/Latina <input type="checkbox"/> Yes, Mexican/Mexican American/Chicana <input type="checkbox"/> Yes, Puerto Rican <input type="checkbox"/> Yes, Cuban <input type="checkbox"/> Yes, Central American <input type="checkbox"/> Yes, South American <input type="checkbox"/> Yes, other Spanish/Hispanic/Latina (Specify) _____ <input type="checkbox"/> Unknown	39b. FATHER <input type="checkbox"/> No, not Spanish/Hispanic/Latino <input type="checkbox"/> Yes, Mexican/Mexican American/Chicano <input type="checkbox"/> Yes, Puerto Rican <input type="checkbox"/> Yes, Cuban <input type="checkbox"/> Yes, Central American <input type="checkbox"/> Yes, South American <input type="checkbox"/> Yes, other Spanish/Hispanic/Latino (Specify) _____ <input type="checkbox"/> Unknown
40. PARENT'S RACE (Check one or more races to indicate what you consider yourself to be.)	
40a. MOTHER <input type="checkbox"/> White <input type="checkbox"/> Black or African American <input type="checkbox"/> American Indian or Alaska Native (Name of the enrolled or principal tribes) _____ <input type="checkbox"/> Asian Indian <input type="checkbox"/> Chinese <input type="checkbox"/> Filipino <input type="checkbox"/> Japanese <input type="checkbox"/> Korean <input type="checkbox"/> Vietnamese <input type="checkbox"/> Other Asian (Specify) _____ <input type="checkbox"/> Native Hawaiian <input type="checkbox"/> Guamanian or Chamorro <input type="checkbox"/> Samoan <input type="checkbox"/> Other Pacific Islander (Specify) _____ <input type="checkbox"/> Other (Specify) _____ <input type="checkbox"/> Unknown	40b. FATHER <input type="checkbox"/> White <input type="checkbox"/> Black or African American <input type="checkbox"/> American Indian or Alaska Native (Name of the enrolled or principal tribes) _____ <input type="checkbox"/> Asian Indian <input type="checkbox"/> Chinese <input type="checkbox"/> Filipino <input type="checkbox"/> Japanese <input type="checkbox"/> Korean <input type="checkbox"/> Vietnamese <input type="checkbox"/> Other Asian (Specify) _____ <input type="checkbox"/> Native Hawaiian <input type="checkbox"/> Guamanian or Chamorro <input type="checkbox"/> Samoan <input type="checkbox"/> Other Pacific Islander (Specify) _____ <input type="checkbox"/> Other (Specify) _____ <input type="checkbox"/> Unknown
41. ANCESTRY - What is the parents' ancestry or ethnic origin? - Italian, German, Dominican, Vietnamese, Hmong, French Canadian, etc. (Specify below)	
42. OCCUPATION AND BUSINESS/INDUSTRY	
Occupation	Business/Industry (Do not give name of company.)
41a. MOTHER	42a. MOTHER (Most recent)
41b. FATHER	42b. FATHER (Usual)
42c. MOTHER	42d. FATHER
43. EDUCATION (Check the box that best describes the highest degree or level of school completed at the time of delivery.)	
43a. MOTHER'S EDUCATION <input type="checkbox"/> 8 <sup>th</sup> grade or less <input type="checkbox"/> Some College credit, but no degree <input type="checkbox"/> Unknown <input type="checkbox"/> Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)	<input type="checkbox"/> 9 <sup>th</sup> - 12 <sup>th</sup> grade; no diploma <input type="checkbox"/> Associate degree (e.g., AA,AS) <input type="checkbox"/> Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD) <input type="checkbox"/> High school graduate or GED <input type="checkbox"/> Bachelor's degree (e.g., BA, AB, BS)
43b. FATHER'S EDUCATION <input type="checkbox"/> 8 <sup>th</sup> grade or less <input type="checkbox"/> Some College credit, but no degree <input type="checkbox"/> Unknown <input type="checkbox"/> Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)	<input type="checkbox"/> 9 <sup>th</sup> - 12 <sup>th</sup> grade; no diploma <input type="checkbox"/> Associate degree (e.g., AA,AS) <input type="checkbox"/> Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD) <input type="checkbox"/> High school graduate or GED <input type="checkbox"/> Bachelor's degree (e.g., BA, AB, BS)
44. PREVIOUS LIVE BIRTHS (Do not include this child.)	45. NUMBER OF OTHER OUTCOMES (Spontaneous or induced losses or ectopic or stillbirth pregnancies)
44a. Now living Number _____ <input type="checkbox"/> None	44b. Now dead Number _____ <input type="checkbox"/> None
44c. DATE OF LAST LIVE BIRTH (Month, Year)	44d. DATE OF LAST OTHER PREGNANCY OUTCOME (Month, Year)
45a. Before 20 weeks Number _____ <input type="checkbox"/> None	45b. 20 weeks & over Number _____ <input type="checkbox"/> None
46. PRENATAL CARE? <input type="checkbox"/> Yes <input type="checkbox"/> No	49. PRENATAL VISITS-Total Number (If none, enter "0")
47. DATE OF FIRST PRENATAL CARE VISIT (Month, Day, Year)	50. DATE LAST NORMAL MENSES BEGAN (Month, Day, Year)
48. DATE OF LAST PRENATAL CARE VISIT (Month, Day, Year)	51. OBSTETRIC ESTIMATE OF GESTATION (Completed Weeks)
52. PLURALITY-Single, Twin, Triplet, etc. (Specify)	53. IF NOT A SINGLE BIRTH - Born First, Second, Third, etc. (Specify)
54. TOTAL LIVE BIRTHS AT THIS DELIVERY	55. IS INFANT ALIVE AT THE TIME OF THIS REPORT? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
56. IS INFANT BEING BREAST-FED AT DISCHARGE? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	58. PRINCIPAL SOURCE OF PAYMENT FOR THIS DELIVERY <input type="checkbox"/> Medicaid <input type="checkbox"/> Private/Employer Ins. <input type="checkbox"/> Self-pay <input type="checkbox"/> Indian Health Service <input type="checkbox"/> CHAMPUS/TRICARE <input type="checkbox"/> Other government <input type="checkbox"/> Other (Specify) _____ <input type="checkbox"/> Unknown
57. CIGARETTE SMOKING BEFORE & DURING PREGNANCY: Did mother smoke 3 mos. before or during pregnancy? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown For each time period, enter either the number of cigarettes or the number of packs of cigarettes smoked <b>per day</b> during each time period. If none, enter "0". Average number of cigarettes or packs of cigarettes <b>smoked per day</b> 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	59. MOTHER'S MEDICAL RECORD NO.
60. NEWBORN'S MEDICAL RECORD NO.	61. MOTHER TRANSFERRED IN FOR DELIVERY DUE TO MATERNAL, MEDICAL, OR FETAL INDICATIONS? <input type="checkbox"/> Yes <input type="checkbox"/> No (If yes, enter facility name)
62. INFANT TRANSFERRED (Within 24 hours of delivery) <input type="checkbox"/> Yes <input type="checkbox"/> No (If yes, enter facility name)	FACILITY TRANSFERRED TO:
FACILITY TRANSFERRED FROM:	

CHILD'S NAME \_\_\_\_\_

MOTHER'S NAME \_\_\_\_\_

PRENATAL (Birth)	LABOR-DELIVERY/NEWBORN				
<b>63. NUTRITION OF MOTHER</b> 1. Height _____ 2. Prepregnancy Weight _____ 3. Weight at delivery _____ 4. Did mother get WIC food for herself? Yes _____ No _____ Unknown _____	<b>66. OBSTETRICAL PROCEDURES</b> (Check all that apply.) 1. <input type="checkbox"/> Cervical cerclage 2. <input type="checkbox"/> Tocolysis 3. External cephalic version: <input type="checkbox"/> Successful <input type="checkbox"/> Failed 4. <input type="checkbox"/> None of the above	<b>70. INFECTIONS PRESENT AND/OR TREATED</b> (During this pregnancy, check all that apply.) 1. <input type="checkbox"/> Gonorrhea 2. <input type="checkbox"/> Syphilis 3. <input type="checkbox"/> Herpes Simplex Virus (HSV) 4. <input type="checkbox"/> Chlamydia 5. <input type="checkbox"/> Hepatitis B 6. <input type="checkbox"/> Hepatitis C 7. <input type="checkbox"/> AIDS or HIV antibody 8. <input type="checkbox"/> None of the above			
	<b>64. MEDICAL RISK FACTORS</b> (Check all that apply.) 1. <input type="checkbox"/> Diabetes, prepregnancy 2. <input type="checkbox"/> Diabetes, gestational 3. Hypertension <input type="checkbox"/> Prepregnancy (Chronic) <input type="checkbox"/> Gestational (PIH, preeclampsia) <input type="checkbox"/> Eclampsia 4. <input type="checkbox"/> Previous preterm birth 5. <input type="checkbox"/> Other previous poor pregnancy outcome (SGA, perinatal death, etc.) 6. <input type="checkbox"/> Vaginal bleeding during this pregnancy prior to labor 7. <input type="checkbox"/> Pregnancy resulted from infertility treatment (If yes, check all that apply.) <input type="checkbox"/> Fertility-enhancing drugs, Artificial insemination or Intrauterine insemination <input type="checkbox"/> Assisted reproductive technology (e.g. in vitro fertilization (IVF), gamete intrafallopian transfer (GIFT)) 8. <input type="checkbox"/> Mother had a previous cesarean delivery, if yes, how many? Number: _____ 9. <input type="checkbox"/> Alcohol use No. of drinks per week: _____ 10. <input type="checkbox"/> None of the above	<b>67. ONSET OF LABOR</b> (Check all that apply.) 1. <input type="checkbox"/> Premature Rupture of the Membranes (prolonged, $\geq 12$ hours) 2. <input type="checkbox"/> Precipitous Labor (< 3 hrs) 3. <input type="checkbox"/> Prolonged Labor ( $\geq 20$ hrs) 4. <input type="checkbox"/> None of the above	<b>71. ABNORMAL CONDITIONS OF NEWBORN</b> (Check all that apply) 1. <input type="checkbox"/> Assisted ventilation required immediately following delivery 2. <input type="checkbox"/> Assisted ventilation required for more than six hours 3. <input type="checkbox"/> NICU admission 4. <input type="checkbox"/> Newborn given surfactant replacement therapy 5. <input type="checkbox"/> Antibiotics received by the newborn for suspected neonatal sepsis 6. <input type="checkbox"/> Seizure or serious neurologic dysfunction 7. <input type="checkbox"/> Significant birth injury (skeletal fracture(s), peripheral nerve injury, and/or soft tissue/solid organ hemorrhage which requires intervention) 8. <input type="checkbox"/> None of the above		
<b>65. METHOD OF DELIVERY</b> 1. Forceps attempted? Yes _____ No _____ Successful Yes _____ No _____ 2. Vacuum extraction attempted? Yes _____ No _____ Successful Yes _____ No _____ 3. Fetal presentation at delivery <input type="checkbox"/> Cephalic <input type="checkbox"/> Breech <input type="checkbox"/> Other 4. Final route and method of delivery (check one) <input type="checkbox"/> Vaginal/spontaneous <input type="checkbox"/> Vaginal/forceps <input type="checkbox"/> Vaginal/vacuum <input type="checkbox"/> Cesarean, if cesarean was a trial of labor attempted? Yes _____ No _____	<b>68. CHARACTERISTICS OF LABOR AND DELIVERY</b> (Check all that apply.) 1. <input type="checkbox"/> Induction of labor 2. <input type="checkbox"/> Augmentation of labor 3. <input type="checkbox"/> Non-vertex presentation 4. <input type="checkbox"/> Steroids (glucocorticoids) for fetal lung maturation received by the mother prior to delivery 5. <input type="checkbox"/> Antibiotics received by the mother during labor 6. <input type="checkbox"/> Clinical chorioamnionitis diagnosed during labor or maternal temperature $\geq 38$ C (100.4 F) 7. <input type="checkbox"/> Moderate/heavy meconium staining of the amniotic fluid 8. <input type="checkbox"/> Fetal intolerance of labor: (examples: in-utero resuscitative measures, further fetal assessment, or operative delivery) 9. <input type="checkbox"/> Epidural or spinal anesthesia during labor 10. <input type="checkbox"/> None of the above	<b>72. VACCINES ADMINISTERED TO NEWBORN</b> 1. <input type="checkbox"/> Hepatitis B Date Given: _____ 2. <input type="checkbox"/> Other* Specify: _____ Date Given: _____			
	<b>69. MATERNAL MORBIDITY</b> (Check all that apply.) (These are complications associated with labor and delivery.) 1. <input type="checkbox"/> Maternal transfusion 2. <input type="checkbox"/> Third or fourth degree perineal laceration 3. <input type="checkbox"/> Ruptured uterus 4. <input type="checkbox"/> Unplanned hysterectomy 5. <input type="checkbox"/> Admission to intensive care unit 6. <input type="checkbox"/> Unplanned operating room procedure following delivery 7. <input type="checkbox"/> None of the above	<b>73. APGAR SCORE</b> <table border="1"> <tr> <td>1 min</td> <td>5 min</td> <td>10 min</td> </tr> </table>		1 min	5 min
1 min	5 min	10 min			
		<b>74. CONGENITAL ANOMALIES OF THE NEWBORN</b> (Check all that apply.) 1. <input type="checkbox"/> Anencephaly 2. <input type="checkbox"/> Meningocele/Spina bifida 3. <input type="checkbox"/> Cyanotic congenital heart disease 4. <input type="checkbox"/> Congenital diaphragmatic hernia 5. <input type="checkbox"/> Omphalocele 6. <input type="checkbox"/> Gastroschisis 7. <input type="checkbox"/> Limb reduction defect (excluding congenital amputation and dwarfing syndromes) 8. <input type="checkbox"/> Cleft Lip with or without Cleft Palate 9. <input type="checkbox"/> Cleft Palate alone 10. <input type="checkbox"/> Down Syndrome <input type="checkbox"/> Karyotype confirmed <input type="checkbox"/> Karyotype pending 11. <input type="checkbox"/> Suspected chromosomal disorder <input type="checkbox"/> Karyotype confirmed <input type="checkbox"/> Karyotype pending 12. <input type="checkbox"/> Hypospadias 13. <input type="checkbox"/> Fetal alcohol syndrome 14. <input type="checkbox"/> Other congenital anomalies (Specify) _____ 15. <input type="checkbox"/> None of the above			

Parent's Telephone Number: \_\_\_\_\_

CHILD'S NAME \_\_\_\_\_

MOTHER'S NAME \_\_\_\_\_

<p>Test required by K.S.A. 65-153f 153G Serological Test Made:   <input type="checkbox"/> 1<sup>st</sup> <input type="checkbox"/> 2<sup>nd</sup> <input type="checkbox"/> 3<sup>rd</sup> (Trimester)  <input type="checkbox"/> At Delivery <input type="checkbox"/> Not Performed          If no test made, state reason:</p>	<p>Test required by K.S.A. 65-180 Infant Neonatal Screening specimen taken:   <input type="checkbox"/> Yes <input type="checkbox"/> No          Kit Number _____          If no test made, state reason:</p>	<p>Test required by K.S.A. 65-1157A Newborn Hearing Screening Accomplished:   <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
---	--	--

Infant's patient number: \_\_\_\_\_

Infant's Primary Care Physician

First	Middle	Last	Title (MD, DO, etc.)
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<p>If screening accomplished, Date hearing screened _____          _____ / _____ / _____          Month Day Year</p>	<p>The results of the hearing screening ✓:          Right ear: <input type="checkbox"/> Pass <input type="checkbox"/> Refer for further testing          Left ear: <input type="checkbox"/> Pass <input type="checkbox"/> Refer for further testing</p>
--	---

Physiologic equipment used ✓:  OAE  AABR  ABR

If screening not accomplished, ✓ one reason:

<input type="checkbox"/> b – missed appointment	<input type="checkbox"/> o – other
<input type="checkbox"/> c – could not test	<input type="checkbox"/> r – did not consent
<input type="checkbox"/> d – deceased	<input type="checkbox"/> s – scheduled but not completed
<input type="checkbox"/> i – Incomplete test	<input type="checkbox"/> t – transferred to another hospital
<input type="checkbox"/> m – Infant discharged before screening	<input type="checkbox"/> u – no information
<input type="checkbox"/> n – transferred to NICU	<input type="checkbox"/> x – invalid results

**Report of Induced Termination of Pregnancy**

State File Number

1. Provider Identification Number									
2. Patient ID Number	3. Age on Last Birthday	4. Married <input type="checkbox"/> Yes <input type="checkbox"/> No	5. Date of Pregnancy Termination Month: <input type="text"/> <input type="text"/> Day: <input type="text"/> <input type="text"/> Year: <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>						
6a. Residence US State or Country	6b. County	6c. City or Town	6d. Inside City Limits <input type="checkbox"/> Yes <input type="checkbox"/> No						
7a. Hispanic Origin <i>(Check the box or boxes that best describes whether the individual is Spanish, Hispanic, or Latina, or not Spanish, Hispanic, or Latina)</i>  <input type="checkbox"/> Not Spanish, Hispanic, or Latina <input type="checkbox"/> Mexican, Mexican American, or Chicana <input type="checkbox"/> Puerto Rican <input type="checkbox"/> Cuban <input type="checkbox"/> Central American <input type="checkbox"/> South American <input type="checkbox"/> Other Spanish, Hispanic, or Latina (specify) _____ <input type="checkbox"/> Unknown	7b. Ancestry <i>(Enter the name of the country that best describes the heritage or origin of the individual)</i>	8. Race <i>(Check one or more races to indicate what the individual considers herself to be)</i> <input type="checkbox"/> White <input type="checkbox"/> Black or African American <input type="checkbox"/> American Indian or Alaska Native Principal Tribe(s) _____ <input type="checkbox"/> Asian Indian <input type="checkbox"/> Chinese <input type="checkbox"/> Filipino <input type="checkbox"/> Japanese <input type="checkbox"/> Korean <input type="checkbox"/> Vietnamese <input type="checkbox"/> Other Asian (specify) _____ <input type="checkbox"/> Native Hawaiian <input type="checkbox"/> Guamanian or Chamorro <input type="checkbox"/> Samoan <input type="checkbox"/> Other Pacific Islander (specify) _____ <input type="checkbox"/> Other (specify) _____ <input type="checkbox"/> Unknown	9. Education <i>(specify only highest grade completed)</i> <input type="checkbox"/> 8th grade or less <input type="checkbox"/> 9th-12th grade no diploma <input type="checkbox"/> High school graduate/GED <input type="checkbox"/> Some College - no degree <input type="checkbox"/> Associate degree <input checked="" type="checkbox"/> Bachelor's degree <input type="checkbox"/> Master's degree <input type="checkbox"/> Doctorate <input type="checkbox"/> Unknown						
10. Date Last Normal Menses Began Month: <input type="text"/> <input type="text"/> Day: <input type="text"/> <input type="text"/> Year: <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	11. Clinical Estimate of Gestation (Weeks) *	12. Previous Pregnancies <i>(Enter number or zero in every section)</i>							
		<table border="1"> <tr> <td colspan="2">Live Births</td> <td rowspan="2">12c. Previous Induced Abortions</td> <td rowspan="2">12d. Spontaneous Terminations (Miscarriages, Fetal Deaths)</td> </tr> <tr> <td>12a. Now Living</td> <td>12b. Now Dead</td> </tr> </table>		Live Births		12c. Previous Induced Abortions	12d. Spontaneous Terminations (Miscarriages, Fetal Deaths)	12a. Now Living	12b. Now Dead
Live Births		12c. Previous Induced Abortions	12d. Spontaneous Terminations (Miscarriages, Fetal Deaths)						
12a. Now Living	12b. Now Dead								
<b>13 TERMINATION PROCEDURES</b>									
13a Procedure that terminated pregnancy <i>(Check only one)</i> <input type="checkbox"/> Suction Curettage <input type="checkbox"/> Sharp Curettage <input type="checkbox"/> Dilation & Evacuation <input type="checkbox"/> Medical Procedure I (Mifepristone) <input type="checkbox"/> Medical Procedure II (Methotrexate) <input type="checkbox"/> Intra-Uterine Prostaglandin Instillation <input type="checkbox"/> Hysterotomy <input type="checkbox"/> Hysterectomy <input type="checkbox"/> Digoxin/Induction <input type="checkbox"/> Partial Birth ** <input type="checkbox"/> Other (Specify) _____		13b Additional procedures used for this termination, if any <i>(Check all that apply)</i> <input type="checkbox"/> Suction Curettage <input type="checkbox"/> Sharp Curettage <input type="checkbox"/> Dilation & Evacuation <input type="checkbox"/> Medical Procedure I (Mifepristone) <input type="checkbox"/> Medical Procedure II (Methotrexate) <input type="checkbox"/> Intra-Uterine Prostaglandin Instillation <input type="checkbox"/> Hysterotomy <input type="checkbox"/> Hysterectomy <input type="checkbox"/> Digoxin/Induction <input type="checkbox"/> Partial Birth ** <input type="checkbox"/> 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 <input type="checkbox"/> NO <input type="checkbox"/>									

\* 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.

**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.

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. IF FEMALE, 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 Months	7c. UNDER 1 DAY Days	Hours	Minutes
9. WAS DECEDENT EVER IN U.S. ARMED FORCES? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		10a. PLACE OF DEATH (Check only one)				
HOSPITAL <input type="checkbox"/> Inpatient <input type="checkbox"/> DOA <input type="checkbox"/> ER/Outpatient		<input type="checkbox"/> Nursing Home <input type="checkbox"/> Hospice Facility <input type="checkbox"/> Assisted Living Facility <input type="checkbox"/> Decedent's Residence <input type="checkbox"/> 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 <input type="checkbox"/> Married <input type="checkbox"/> Married, but separated <input type="checkbox"/> Widowed <input type="checkbox"/> Divorced <input type="checkbox"/> Never Married <input type="checkbox"/> Unknown				12. SURVIVING SPOUSE (If wife, give name before first marriage)		
13a. RESIDENCE-STREET ADDRESS & APARTMENT NO.				13b. STATE		
13c. COUNTY		13d. CITY OR TOWN		13e. ZIP CODE	13f. INSIDE CITY LIMITS? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
14. FATHER'S NAME (First, Middle, Last)			15. MOTHER'S 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 <input type="checkbox"/> Burial <input type="checkbox"/> Cremation <input type="checkbox"/> Removal from State <input type="checkbox"/> Donation <input type="checkbox"/> Entombment <input type="checkbox"/> 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.						
IMMEDIATE CAUSE (Final disease or condition resulting in death)						Approximate Interval: Onset to Death
a. _____						_____
b. _____						_____
c. _____						_____
d. _____						_____
PART II. Enter other significant conditions contributing to death, but not resulting in the underlying cause given in Part I.			23a. AUTOPSY <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	23b. WERE AUTOPSY FINDINGS AVAILABLE TO COMPLETE THE CAUSE OF DEATH? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown <input type="checkbox"/> Not Applicable		23c. WAS CORONER CONTACTED? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
24. DID TOBACCO USE CONTRIBUTE TO DEATH? <input type="checkbox"/> Yes <input type="checkbox"/> Probably <input type="checkbox"/> No <input type="checkbox"/> Unknown		25. IF FEMALE <input type="checkbox"/> Not pregnant within past year <input type="checkbox"/> Not pregnant, but pregnant 43 days to 1 year before death <input type="checkbox"/> Pregnant at time of death <input type="checkbox"/> Unknown if pregnant within the last year <input type="checkbox"/> Not pregnant, but pregnant within 42 days of death			26. MANNER OF DEATH <input type="checkbox"/> Natural <input type="checkbox"/> Homicide <input type="checkbox"/> Accident <input type="checkbox"/> Pending Investigation <input type="checkbox"/> Suicide <input type="checkbox"/> Could not be determined	
27a. DATE OF INJURY (Month, Day, Year)	27b. TIME OF INJURY A.M. P.M.	27c. INJURY AT WORK <input type="checkbox"/> Yes <input type="checkbox"/> 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 A.M. P.M.	28c. ACTUAL OR PRESUMED TIME OF DEATH A.M. P.M.	28d. NAME OF PERSON PRONOUNCING DEATH (If applicable)		28e. LICENSE NO.	
29a. CERTIFIER (Check only one) <input type="checkbox"/> Certifying physician - To the best of my knowledge, death occurred due to the cause(s) and manner stated. <input type="checkbox"/> 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. <input type="checkbox"/> 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 <input type="checkbox"/> M.D. <input type="checkbox"/> D.O. <input type="checkbox"/> SPEC. DEPUTY				30. DATE FILED BY STATE REGISTRAR (Month, Day, Year)		

<p>31. ANCESTRY-What is this person's ancestry or ethnic origin? Italian, German, Dominican, Vietnamese, Hmong, French Canadian, etc. (Specify below)</p>	<p>33. RACE (Check one or more boxes to indicate what race(s) the decedent considered himself or herself to be.)</p>	<p>34. EDUCATION (Check the box that best describes the highest degree or level of school completed at the time of death.)</p>
<p>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)</p>	<p><input type="checkbox"/> White  <input type="checkbox"/> Black or African American  <input type="checkbox"/> American Indian or Alaska Native (Name of the enrolled or principal tribes)  _____</p>	<p><input type="checkbox"/> 8<sup>th</sup> grade or less  <input type="checkbox"/> 9<sup>th</sup> - 12<sup>th</sup> grade; no diploma  <input checked="" type="checkbox"/> High school graduate or GED  <input type="checkbox"/> Some College credit, but no degree  <input type="checkbox"/> Associate degree (e.g., AA, AS)  <input type="checkbox"/> Bachelor's degree (e.g., BA, AB, BS)  <input type="checkbox"/> Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)  <input type="checkbox"/> Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)  <input type="checkbox"/> Unknown</p>
<p><input type="checkbox"/> No, not Spanish/Hispanic/Latino  <input type="checkbox"/> Yes, Mexican/Mexican American/Chicano  <input type="checkbox"/> Yes, Puerto Rican  <input type="checkbox"/> Yes, Cuban  <input type="checkbox"/> Yes, Central American  <input type="checkbox"/> Yes, South American  <input type="checkbox"/> Yes, other Spanish/Hispanic/Latino (Specify)  _____  <input type="checkbox"/> Unknown</p>	<p><input type="checkbox"/> Asian Indian  <input type="checkbox"/> Chinese  <input type="checkbox"/> Filipino  <input type="checkbox"/> Japanese  <input type="checkbox"/> Korean  <input type="checkbox"/> Vietnamese  <input type="checkbox"/> Other Asian (Specify)  _____  _____</p>	<p>35. DECEDENT'S USUAL OCCUPATION (Give kind of work done during most of working life. Do not use retired.)</p>
	<p><input type="checkbox"/> Native Hawaiian  <input type="checkbox"/> Guamanian or Chamorro  <input type="checkbox"/> Samoan  <input type="checkbox"/> Other Pacific Islander (Specify)  _____  _____</p> <p><input type="checkbox"/> Other (Specify)  _____  _____</p> <p><input type="checkbox"/> Unknown</p>	<p>36. KIND OF BUSINESS/INDUSTRY (Do not give name of company.)</p>

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 <input type="checkbox"/> No <input type="checkbox"/> Emancipated <input type="checkbox"/> Parent(s) Deceased <input type="checkbox"/>			BRIDE Yes <input type="checkbox"/> No <input type="checkbox"/> Emancipated <input type="checkbox"/> Parent(s) Deceased <input type="checkbox"/>			
22f. NAME OF CONSENTING JUDGE (If applicable, please type or print)						

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. 23-133. (If applicable)**

38. GROOM'S NAME - FIRST		MIDDLE	LAST	
39. BRIDE'S NAME - FIRST		MIDDLE	LAST	

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
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.)		45. GROOM AND BRIDE'S RACE (Check one or more boxes to indicate what race(s) you consider yourself to be.)	
44a. GROOM	44b. BRIDE	45a. GROOM	45b. BRIDE
<input type="checkbox"/> No, not Spanish/Hispanic/Latino <input type="checkbox"/> Yes, Mexican, Mexican American, Chicano <input type="checkbox"/> Yes, Puerto Rican <input type="checkbox"/> Yes, Cuban <input type="checkbox"/> Yes, Central American <input type="checkbox"/> Yes, South American <input type="checkbox"/> Yes, other Spanish/Hispanic/Latino (Specify) _____ <input type="checkbox"/> Unknown	<input type="checkbox"/> No, not Spanish/Hispanic/Latina <input type="checkbox"/> Yes, Mexican, Mexican American, Chicana <input type="checkbox"/> Yes, Puerto Rican <input type="checkbox"/> Yes, Cuban <input type="checkbox"/> Yes, Central American <input type="checkbox"/> Yes, South American <input type="checkbox"/> Yes, other Spanish/Hispanic/Latina (Specify) _____ <input type="checkbox"/> Unknown	<input type="checkbox"/> White <input type="checkbox"/> Black or African American <input type="checkbox"/> American Indian or Alaska Native (Name of the enrolled or principal tribes) _____ <input type="checkbox"/> Asian Indian <input type="checkbox"/> Chinese <input type="checkbox"/> Filipino <input type="checkbox"/> Japanese <input type="checkbox"/> Other (Specify) _____ <input type="checkbox"/> Unknown	<input type="checkbox"/> White <input type="checkbox"/> Black or African American <input type="checkbox"/> American Indian or Alaska Native (Name of the enrolled or principal tribes) _____ <input type="checkbox"/> Asian Indian <input type="checkbox"/> Chinese <input type="checkbox"/> Filipino <input type="checkbox"/> Japanese <input type="checkbox"/> Other (Specify) _____ <input type="checkbox"/> Unknown
46. EDUCATION (Check the box that best describes the highest degree or level of school completed)			
46a. GROOM'S EDUCATION	<input type="checkbox"/> 8 <sup>th</sup> grade or less <input type="checkbox"/> Some College credit, but no degree <input type="checkbox"/> Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)	<input type="checkbox"/> 9 <sup>th</sup> - 12 <sup>th</sup> grade; no diploma <input type="checkbox"/> Associate degree (e.g., AA, AS) <input type="checkbox"/> Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)	<input type="checkbox"/> High school graduate or GED <input type="checkbox"/> Bachelor's degree (e.g., BA, AB, BS) <input type="checkbox"/> Bachelor's degree (e.g., BA, AB, BS)
46b. BRIDE'S EDUCATION	<input type="checkbox"/> 8 <sup>th</sup> grade or less <input type="checkbox"/> Some College credit, but no degree <input type="checkbox"/> Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)	<input type="checkbox"/> 9 <sup>th</sup> - 12 <sup>th</sup> grade; no diploma <input type="checkbox"/> Associate degree (e.g., AA, AS) <input type="checkbox"/> Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)	<input type="checkbox"/> High school graduate or GED <input type="checkbox"/> Bachelor's degree (e.g., BA, AB, BS) <input type="checkbox"/> Bachelor's degree (e.g., BA, AB, BS)

SAMPLE

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'S NAME (First, Middle, Last)		2. DATE OF BIRTH (Month, Day, Year)	
3. RESIDENCE-STATE		4. COUNTY	
5. WIFE'S NAME (First, Middle, Last)		6. WIFE'S LAST NAME PRIOR TO FIRST MARRIAGE	
7. DATE OF BIRTH (Month, Day, Year)	8. RESIDENCE-STATE	9. COUNTY	
10. PLACE OF THIS MARRIAGE - STATE OR FOREIGN COUNTRY	11. COUNTY	12. DATE OF THIS MARRIAGE (Month, Day, Year)	13. NUMBER OF CHILDREN UNDER 18 IN THIS HOUSEHOLD AS OF DATE IN ITEM 17
14. PETITIONER <input type="checkbox"/> Husband <input type="checkbox"/> Wife <input type="checkbox"/> Both <input type="checkbox"/> Other (Specify) _____		15. NAME OF PETITIONER'S ATTORNEY (Type)	
16. ATTORNEY'S ADDRESS (Street and Number or Rural Route, City or Town, State, Zip Code)			
17. DATE DECREE FILED (Month, Day, Year)	18. TYPE OF DECREE-(Specify) <input type="checkbox"/> Divorce <input type="checkbox"/> Annulment	19. COUNTY OF DECREE	20. 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 SOCIAL AND REHABILITATION SERVICES FOR THE PURPOSE OF ESTABLISHING, MODIFYING, OR ENFORCING A SUPPORT OBLIGATION.

21. HUSBAND'S SOCIAL SECURITY NUMBER		22. WIFE'S SOCIAL SECURITY NUMBER	
23. NUMBER OF THIS MARRIAGE First, Second, etc. (Specify below)		24. IF PREVIOUSLY MARRIED, LAST MARRIAGE ENDED	
		By Death, Divorce, or Annulment (Specify below)	Date (Month, Day, Year)
23a. HUSBAND	24a. HUSBAND	24b. HUSBAND	
23b. WIFE	24c. WIFE	24d. WIFE	

25. 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.)		26. RACE (Check one or more boxes to indicate what race(s) you consider yourself to be.)			
		26a. HUSBAND		26b. WIFE	
25a. HUSBAND	25b. WIFE	<input type="checkbox"/> White	<input type="checkbox"/> Korean	<input type="checkbox"/> White	<input type="checkbox"/> Korean
<input type="checkbox"/> No, not Spanish/Hispanic/Latino	<input type="checkbox"/> No, not Spanish/Hispanic/Latina	<input type="checkbox"/> Black or African American	<input type="checkbox"/> Vietnamese	<input type="checkbox"/> Black or African American	<input type="checkbox"/> Vietnamese
<input type="checkbox"/> Yes, Mexican/Mexican American/Chicano	<input type="checkbox"/> Yes, Mexican/Mexican American/Chicana	<input type="checkbox"/> American Indian or Alaska Native (Name of the enrolled or principal tribes) _____	<input type="checkbox"/> Other Asian (Specify) _____	<input type="checkbox"/> American Indian or Alaska Native (Name of the enrolled or principal tribes) _____	<input type="checkbox"/> Other Asian (Specify) _____
<input type="checkbox"/> Yes, Puerto Rican	<input type="checkbox"/> Yes, Puerto Rican	_____	_____	_____	_____
<input type="checkbox"/> Yes, Cuban	<input type="checkbox"/> Yes, Cuban	<input type="checkbox"/> Asian Indian	<input type="checkbox"/> Native Hawaiian	<input type="checkbox"/> Asian Indian	<input type="checkbox"/> Native Hawaiian
<input type="checkbox"/> Yes, Central American	<input type="checkbox"/> Yes, Central American	<input type="checkbox"/> Chinese	<input type="checkbox"/> Guamanian or Chamorro	<input type="checkbox"/> Chinese	<input type="checkbox"/> Guamanian or Chamorro
<input type="checkbox"/> Yes, South American	<input type="checkbox"/> Yes, South American	<input type="checkbox"/> Filipino	<input type="checkbox"/> Samoan	<input type="checkbox"/> Filipino	<input type="checkbox"/> Samoan
<input type="checkbox"/> Yes, other Spanish/Hispanic/Latino (Specify) _____	<input type="checkbox"/> Yes, other Spanish/Hispanic/Latina (Specify) _____	<input type="checkbox"/> Japanese	<input type="checkbox"/> Other Pacific Islander (Specify) _____	<input type="checkbox"/> Japanese	<input type="checkbox"/> Other Pacific Islander (Specify) _____
<input type="checkbox"/> Unknown	<input type="checkbox"/> Unknown	<input type="checkbox"/> Other (Specify) _____	_____	<input type="checkbox"/> Other (Specify) _____	_____
		_____	<input type="checkbox"/> Unknown	_____	<input type="checkbox"/> Unknown

27. EDUCATION (Check the box that best describes the highest degree or level of school completed.)			
27a. HUSBAND'S EDUCATION		27b. WIFE'S EDUCATION	
<input type="checkbox"/> 8 <sup>th</sup> grade or less	<input type="checkbox"/> Some College credit, but no degree	<input type="checkbox"/> 8 <sup>th</sup> - 12 <sup>th</sup> grade; no diploma	<input type="checkbox"/> High school graduate or GED
<input type="checkbox"/> Unknown	<input type="checkbox"/> Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)	<input type="checkbox"/> Associate degree (e.g., AA,AS)	<input type="checkbox"/> Bachelor's degree (e.g., BA, AB, BS)
		<input type="checkbox"/> Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)	