

Kansas

Annual Summary of Vital Statistics, 2017



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“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, 2017

Jeff Colyer, M.D., Governor

Jeff Andersen, Secretary
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Annual Summary 2017

Introduction

The 2017 *Kansas Annual Summary of Vital Statistics* is a general summary of data compiled from vital event records during calendar year 2017. 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 <http://www.kdheks.gov/hci/annsumm.html>.

The 2017 annual summary continues a series of comparisons of selected Kansas vital statistics to national targets set by the Healthy People 2020 project [1] and by the Winnable Battles targets established by the Centers for Disease Control and Prevention.[2]

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.

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 2018, the United States Census Bureau (USCB) released its first population estimates for July 1, 2017. Kansas total population was estimated at 2,913,123, an increase of 5,834 (0.2%) from the estimate of Kansas total population for July 1, 2016 (2,907,289) released in 2017. (Table B4).

Population Density and Peer Groups

The population density of Kansas was 35.6 inhabitants per square mile in 2017, a 10.9 percent increase from 32.1 persons per square mile in 1998. For comparison, the population density of the U.S. increased from 72.4 to 92.2 persons per square mile from 1998 to 2017, a 27.3 percent increase (Figure B4).

In 2017, 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 2013-2017 period, the population of the

1. Healthy People 2020 [Internet]. Washington: U.S. Department of Health and Human Services; [updated 2018 Aug 31; cited 2018 Aug 30] Available from: <http://www.healthypeople.gov/2020/default.aspx>.

2. Winnable Battles [Internet]. Atlanta: Centers for Disease Control and Prevention; [updated 2018 May 02; cited 2018 Aug 31] Available from: <http://www.cdc.gov/winnablebattles/>.

urban peer group increased by 2.9 percent, while the frontier, rural, densely-settled rural, and semi-urban peer groups decreased by 3.7, 2.8, 1.8, and 1.7 percent, respectively (Table B4).

Natural Increase

In 2017, the rate of natural increase (the birth rate minus the death rate) was 3.3 persons per 1,000 population, a decrease of 19.5 percent from 4.1 per 1,000 population in 2016, and the lowest rate of natural increase in the past twenty years. Over the past 20 years (1998-2017), the rate of natural increase has fluctuated between a maximum of 6.3 persons per 1,000 population (2007) and a minimum of 3.3 persons per 1,000 population (2017) (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 2017 was 36.6 years, a 4.0 percent increase from the median age of 35.2 in 1998. The median ages of Kansas males and females in 2017 were 35.4 and 37.9 respectively (Figure B3, Table B2).

Population Characteristics

The percent increase in the Kansas total population from 1998-2017 was 10.8 percent, including a 12.4 percent increase for Kansas males and a 9.3 percent increase for Kansas females. Shifts in the Kansas population distribution by age from 1998 to 2017 included a decrease in the 35-44 age group of 17.4 percent. This decrease, and increases of 5.2 percent in residents 45-54 years of age, 75.6 percent in residents 55-64 years of age, and 43.3 percent in residents 65-74 years of age reflected the aging of the baby boomers.³ Furthermore, there were 6.0, 2.8, 6.9, 10.7, and 10.8 percent increases in the 0-4, 5-14, 15-24, 25-34, and 75 and over age-groups respectively (Figure B5, Table B2).

According to the 2017 Census Bureau estimates, 75.9 percent of Kansans were White non-Hispanic and 5.8 percent were Black non-Hispanic. Hispanics made up 11.9 percent of Kansas' population (Tables B3 and B5).

Live Births and Fertility

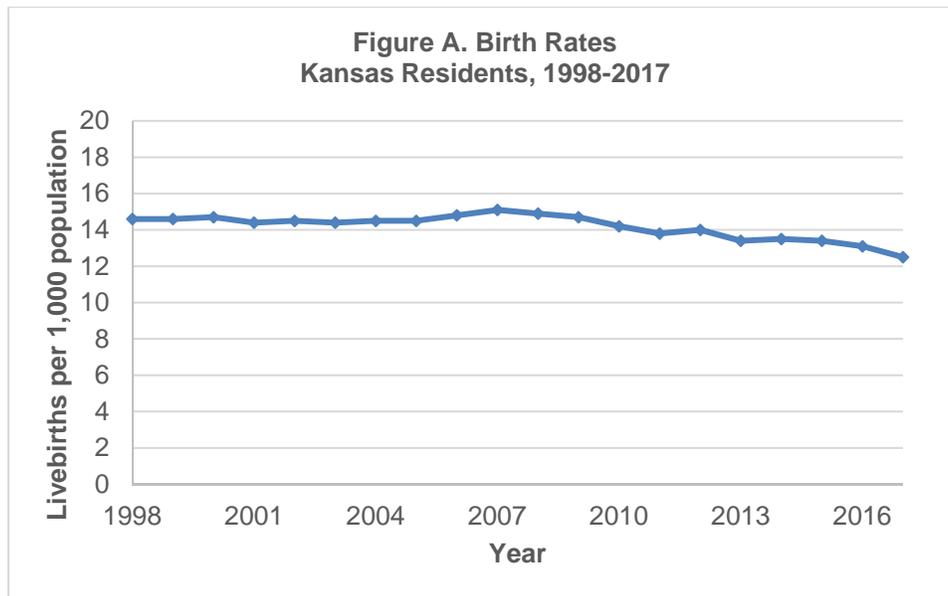
During 2017, there were 36,464 live births to residents of Kansas. This was a decrease of 4.2 percent from the 38,048 births reported in 2016. The birth rate decreased 4.6 percent, from 13.1 births per 1,000 population in 2016 to 12.5 births per 1,000 population in 2017 (Table C10).

The 2017 birth rate (12.5) is 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 2016 (13.1), 2013 and 2015 (13.4), and 2014 (13.5) (Figure C1).

Over the past 20 years (1998-2017), the Kansas birth rate has fluctuated between a peak of 15.1 births per 1,000 population (reported in 2007) and a low of 12.5 births per 1,000 population (re-

3. The common definition of 1946-1964 for the baby boom years implies that in 2017, baby boomers were between 53 and 71 years of age.

ported in 2017) (Figure A). Recent low birth rates continue a sustained decline that began in 2008 (Table C1, Figure C1).



Population Group Statistics

In 2017, there were 25,431 births to resident White non-Hispanic mothers, a decrease of 5.1 percent from the 26,786 births reported in 2016. The birth rate for White non-Hispanic mothers decreased 5.0 percent, from 12.1 births per 1,000 population in 2016 to 11.5 births per 1,000 population in 2017 (Table A3, Table C20).

There were 5,945 births to Hispanic mothers in 2017, a decrease of 5.6 percent from the 6,300 births reported in 2016. The birth rate for Hispanic mothers decreased 8.1 percent, from 18.6 births per 1,000 population in 2016 to 17.1 births per 1,000 population in 2017.

There were 2,463 births to Black non-Hispanic mothers in 2017, a decrease of 1.2 percent from the 2,494 births reported in 2016. The birth rate for Black non-Hispanic mothers decreased 1.4 percent, from 14.8 births per 1,000 population in 2016 to 14.6 births per 1,000 population in 2017 (Table A3, Table C20).

Fertility Rates

The number of Kansas females in the main child-bearing age bracket (ages 15-44) was 558,606 in 2017, down 2.8 percent from 574,617 in 1999 (the peak in the 1998–2017 period). The Kansas fertility rate in 2017 was 65.3 livebirths per female population in the 15-44 age bracket, 13.5 percent below the period high (75.5 in 2007), and the lowest rate for the 1998–2017 period (Table C2, Figure C2).

Of the 36,464 resident births in 2017, there were 18,860 males and 17,604 females, for a natal sex ratio of 107.1 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 [4] (Table C3).

4. 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_sexselection.pdf

Low Birth Weight

During 2017, low birth weight (under 2,500 grams) infants accounted for 2,697 or 7.4 percent of births to Kansas resident mothers. Low birth weights were more common for Black non-Hispanic mothers (14.3%) than for White non-Hispanic (6.7%) or Hispanic (6.9%) mothers. High birth weight (4,000 grams and over) infants accounted for 3,175, or 8.7 percent of births to Kansas resident mothers. High birth weights were more common for White non-Hispanic mothers (9.6%) than for Hispanic (7.6%) or Black non-Hispanic (4.8%) 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 2017 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 36,464 resident births in 2017, 5.7 percent (2,066) were to mothers under the age of 20; 53.4 percent (19,480) were to mothers 20-29 years of age; 38.8 percent (14,162) were to mothers 30-39 years of age; and 2.1 percent (755) were to mothers aged 40 or over (Table C6).

Of the 25,431 resident births to White non-Hispanic mothers, 1,110 (4.4%) were to mothers under the age of twenty. Of the 2,463 births to Black non-Hispanic mothers, 227 (9.2%) were to mothers under the age of 20. Of the 5,945 births to Hispanic mothers, 586 (9.9%) births were to mothers under the age of 20 (Table A3).

First Trimester Care

Prenatal care data was provided for 35,965 out of 36,464 (99.1%) live births in 2017. Prenatal care began in the first trimester for 29,473 live births (81.2 percent of live births where prenatal care data was available), in the second trimester for 5,379 live births (14.8%), and in the third trimester for 1,113 live births (3.1%). No prenatal care was indicated for 342 live births (0.9%).

White non-Hispanic mothers started prenatal care in the first trimester in 85.0 percent of live births (21,532). Black non-Hispanic mothers started prenatal care in the first trimester in 72.1 percent of live births (1,767). Hispanic mothers started prenatal care in the first trimester in 70.5 percent of live births (4,170) (Table C7).

Prenatal Care Status

Of the 35,999 Kansas resident live births in 2017 for which the adequacy of prenatal care utilization (APNCU) category could be determined, 83.4 percent received adequate or better prenatal care, including 31.4 percent with adequate-plus care. Seventeen percent (16.7) received less than adequate prenatal care, including 10.6 percent with inadequate care (Table C14).

Mother's Weight Gain

Among singleton Kansas live births, 21.2 percent of mothers gained less than the recommended weight during pregnancy, 32.0 percent gained the recommended weight, and 46.9 percent gained more than the recommended amount (Table C19).

Marital Status

During 2017, 12,990 (35.6%) of the 36,464 resident live births in Kansas were to unmarried mothers. There were 7,481 (29.4%) births to unmarried White non-Hispanic mothers; 1,680 (68.2%) to unmarried Black non-Hispanic mothers; and 3,018 (50.8%) to unmarried Hispanic mothers (Table C22).

The percentage of births to unmarried mothers in Kansas decreased from 36.0 percent in 2016 to 35.6 percent in 2017. However, these births were 28.1 percent higher than the 27.8 percent of live births reported in 1998 (Figure C7).

Delivery Method

Vaginal delivery was the most common final route of delivery for most Kansas resident live births in 2017 (25,539 live births, or 70.0% 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 (24,565 deliveries, or 67.4% of live births for which the final route was stated). Other vaginal deliveries (forceps assisted or vacuum extraction) accounted for 974 live births (2.7%). Cesarean deliveries accounted for 10,922 live births (30.0%). White non-Hispanic mothers delivered via cesarean section in 7,680 live births (30.2%), Black non-Hispanic mothers in 855 live births (34.7%), and Hispanic mothers in 1,632 live births (27.5%). There were three deliveries for which the final route of delivery was not recorded (Table C9).

Tobacco Use

Tobacco use at any time during pregnancy was reported for 3,680 births in 2017, amounting to 10.1 percent of births for which tobacco usage was reported. Tobacco use was known for 36,3741 of the 36,464 births (99.8%) in 2017.

Reported tobacco usage was highest in the three months immediately prior to pregnancy (4,221, or 11.6%) and decreased gradually with each trimester: to 3,632, or 10.0 percent in the first trimester; then to 3,259, or 9.0 percent in the second trimester; and finally to 3,129, or 8.6 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 2017 was 2,469, down 1.9 percent from 2,518 pregnancies in 2016. The pregnancy rate for mothers under 20 years of age in 2017 was 12.7 pregnancies per 1,000 female age-group population, a decline of 1.6 percent from a rate of 12.9 pregnancies per 1,000 female age-group population in 2016. This was the lowest pregnancy rate for this age-group in the past twenty years (1998-2017), down from a peak of 32.4 pregnancies per 1,000 female age-group population in 1998 (Table C23, Figure C8).

The pregnancy rate for females aged 15-17 years in 2017 was 9.5 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 2017 was 48.9 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 2017 was 21.2 per 1,000 female age group population (Table C25). This surpasses the CDC Winnable Battles target for 2015 of 30.3 births per 1,000 females aged 15 to 19 years.

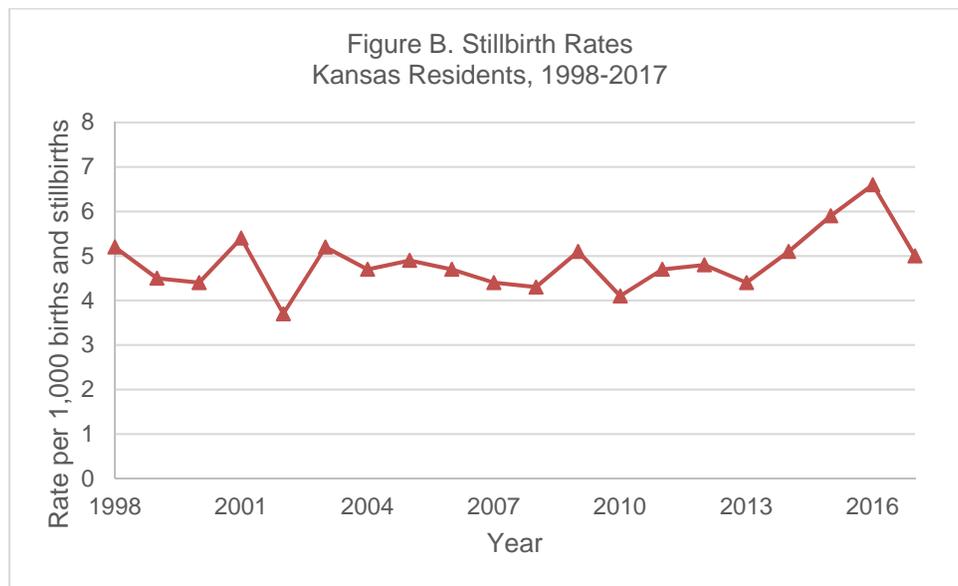
Fetal and Infant Mortality

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, 2016, and 2017 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 2017, there were 184 stillbirths reported for Kansas resident mothers, a decrease of 27.0 percent from the 252 stillbirths reported in 2016. The stillbirth rate was 5.0 per 1,000 live births and stillbirths, a decrease of 24.2 percent from the rate of 6.6 stillbirths per 1,000 live births and stillbirths in 2016 (Tables D1, A3).

In 2017, the stillbirth rate (per 1,000 live births plus stillbirths) was 5.1 for White non-Hispanics, 7.7 for Black non-Hispanics, and 4.2 for Hispanics (Table A3).



Over the past 20 years (1998-2017), 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 1998-2011, and upwards but not statistically significant for 2011-2017. The latter period can be discounted, since it includes the years where the stillbirth definition changed (Figure B).

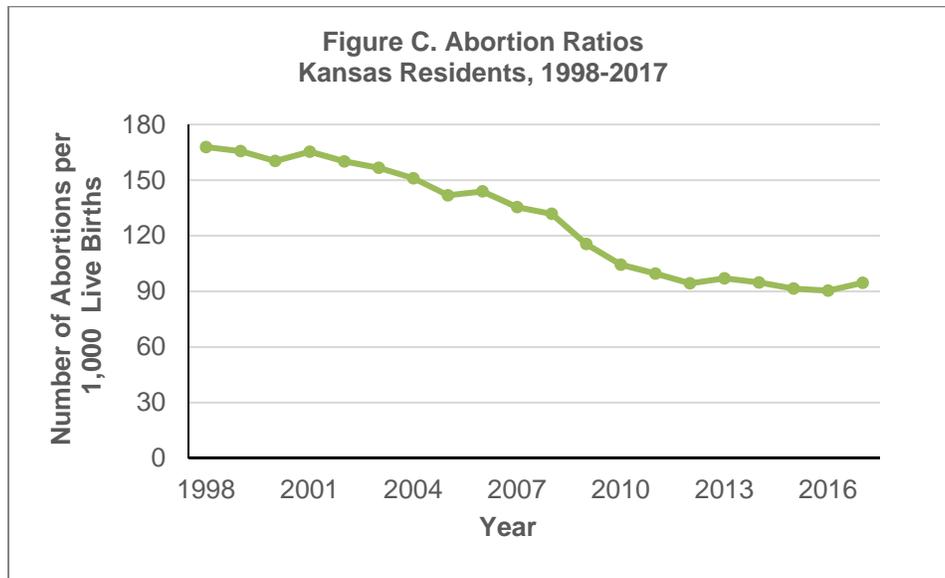
Of all stillbirths in 2017, 89.7 percent (165 out of 184) were attributed to conditions originating in the perinatal period and 9.8 percent (18 out of 184) to congenital anomalies (Table D1).

Abortions

In 2017, there were 3,450 abortions performed on Kansas residents, of which 3,371 were performed in Kansas, and 79 were performed out-of-state (Table D5). There were also 3,376 abortions performed in Kansas for non-residents (Table D4).

Abortion Ratios

The abortion ratio for Kansas residents in 2017 increased 4.2 percentage points (94.6 per 1,000 live births) from 90.4 in 2016. The abortion ratio declined by 43.6 percent from 1998 to 2017, from a peak ratio of 167.8 abortions per 1,000 live births in 1998 to 94.6 abortions per 1,000 live births in 2017 (Figure C) (Table D3, Figure D2).



The abortion ratio for Kansas residents in 2017 varied substantially by age-group of the mother. The highest ratio (769.2 per 1,000 live births) was recorded for mothers under 15 years of age, while the lowest (59.7 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 (1,953 resident abortions); for Black non-Hispanics it was 224.1 (552 resident abortions); and for Hispanics it was 109.8 (629 resident abortions) (Table C20, Table D5).

Gestation at Termination

In 2017, 70.2 percent of Kansas resident abortions occurred prior to nine completed weeks of gestational age. About 90.2 percent were performed prior to the 13th week of gestation and 4.1 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 2017 were to unmarried women. Among Black non-Hispanic women in this group, 91.6 percent were unmarried, while 83.2 percent of White non-Hispanic women and 86.8 percent of Hispanic women were unmarried (Table D6).

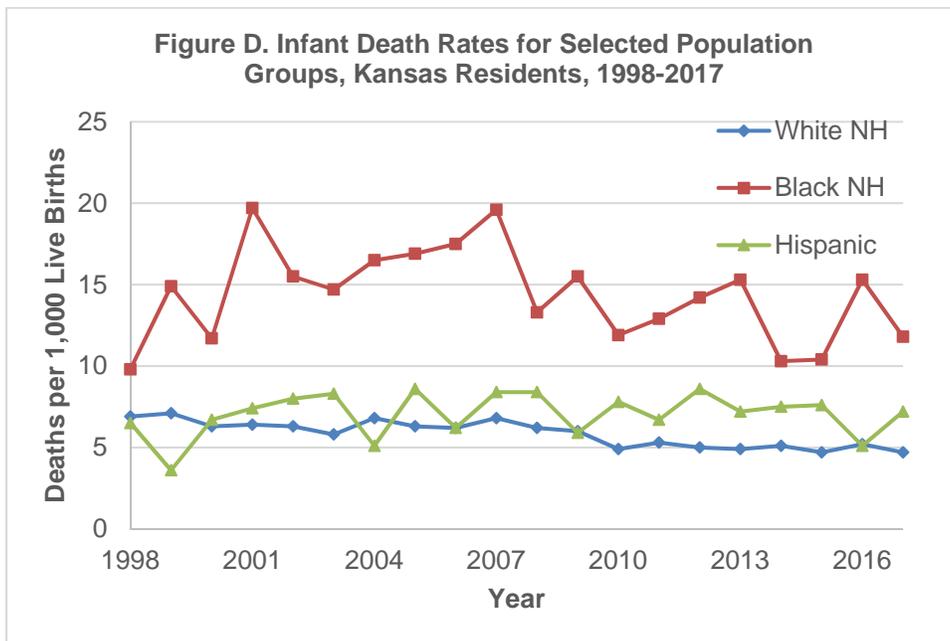
Infant Mortality

There were 217 infant deaths to Kansas residents in 2017, a decrease of 2.7 percent from 223 infant deaths in 2016 (Table D14).

The infant mortality rate for Kansas residents in 2017 was 6.0 infant deaths per 1,000 live births, up 1.7 percent from 5.9 infant deaths per 1,000 live births in 2016. This meets the Healthy People 2020 target for infant deaths, 6.0 infant deaths per 1,000 live births (MICH-1.3).

The rate for White non-Hispanic mothers in 2017 was 4.7 deaths per 1,000 live births, a decrease of 9.6 percent from the rate of 5.2 in 2016. The rate for Black non-Hispanic mothers was 11.8 deaths per 1,000 live births, a decrease of 22.4 percent from the rate of 15.2 in 2016. The rate for Hispanic mothers was 7.2 deaths per 1,000 live births, an increase of 41.2 percent from the rate of 5.1 in 2016. 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 (1998-2017). Rates for Hispanic mothers have sometimes been higher and sometimes lower than those for White non-Hispanic mothers (Figure D).



Infant Age at Death

Infant deaths are most likely to occur within the first month of life. In 2017, 47.0 percent of all infant deaths occurred in the first day of life, 59.0 percent occurred within the first seven days of life (the hebdomadal period), and 71.0 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 changed from 2016 to 2017; stillbirths decreased by 27.0 percent, hebdomadal deaths increased by 7.0 percent. There were 312 perinatal period III deaths in 2017, for a death rate of 8.5 deaths per 1,000 live births plus stillbirths, a decrease of 1.2 percent from the 1998 rate of 8.6 (Table D10).

Of all infant deaths in 2017, 49.3 percent were attributed to conditions originating in the perinatal period, 24.4 percent to congenital anomalies, 6.0 percent to sudden infant death syndrome (SIDS), and 20.3 percent to all other causes (Table D13).

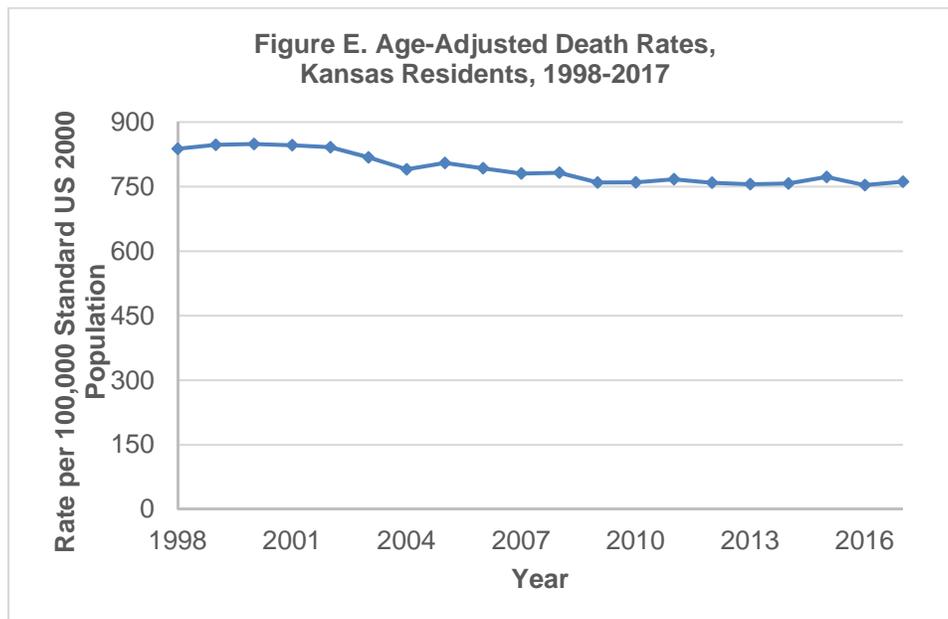
Maternal Mortality

In the 2008 report, Kansas adopted the definition of “maternal death” used by the National Center for Health Statistics (NCHS), and introduced a new category called “other pregnancy associated deaths.” Please see the Technical Notes for full definitions. The new categories were applied retroactively to 2005; before 2005 the Kansas death certificate lacked an important field needed to identify pregnancy associated deaths. In 2017, there were eight maternal deaths and nine other pregnancy associated deaths, an overall decrease from 2016, when there were eight maternal deaths and twelve other pregnancy associated deaths (Figure D8).

General Mortality

There were 26,725 Kansas resident deaths recorded in 2017, an increase of 2.3 percent from the 26,129 deaths recorded in 2016. The Kansas crude death rate in 2017 was 917.4 deaths per 100,000 population, which was 5.9 percent higher than the estimated U.S. crude rate of 866.2 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 2017 was 761.3 deaths per 100,000 standard U.S. 2000 population, up 1.0 percent from 753.5 in 2016. The age-adjusted death rate for males (899.4) was 39.4 percent higher than that for females (645.0) (Table E3).



The Kansas age-adjusted death rate in 2017 increased from a twenty-year low (for 1998-2017) reached in 2016, but was still 10.3 percent below its peak for the period (849.0, in 2000) (Figure E) (Figure E2, Table E3).

Age at Death

The average age at death of Kansas residents in 2017 was 74.2 years, unchanged from 2016 (Table E4).

Average age at death varied by sex and population group. In 2017, males died 6.4 years younger than females (71.1 versus 77.5 years). The average age at death for the White non-Hispanic population was 75.7 years, 11.0 years higher than that of the Black non-Hispanic population (64.7 years), and 15.7 years higher than that of the Hispanic population (60.0 years) (Table E4).

Over 60 percent (60.4) of White non-Hispanic Kansas residents who died in 2017 were 75 years of age or older, while only 34.6 percent of deceased Black non-Hispanic residents and 36.9 percent of deceased Hispanic residents had reached the age of 75 (Table E4).

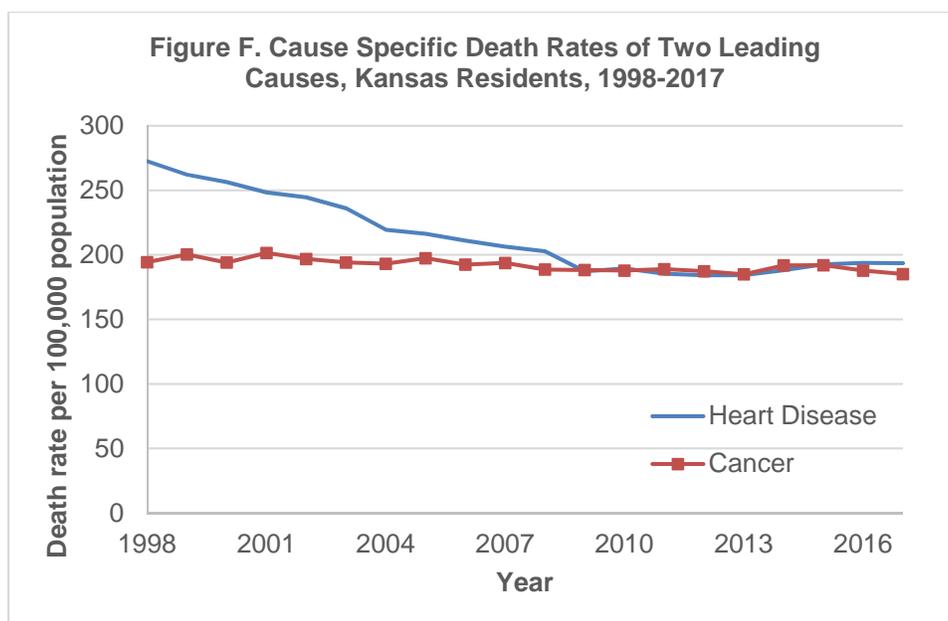
Leading Causes of Death

The 10 leading causes of death in Kansas remained unchanged from 2016 to 2017, though their order changed in some cases. Suicide and nephritis, nephrotic syndrome and nephrosis changed places as 8th and 10th leading causes (suicide ranked 8th in 2017) but all other rankings in the ten leading causes remained unchanged.

The ten leading causes of death accounted for 71.5 percent of all Kansas resident deaths in 2017. *Diabetes mellitus* was the only leading cause for which the change in age-adjusted rate from 2016 was statistically significant: it rose from 21.1 per 100,000 population in 2016 to 24.9 in 2017.

Kansas recorded 544 resident suicide deaths in 2017 compared to 512 in 2016 and 477 in 2015. The suicide age-adjusted death rate increased from 17.8 deaths per 100,000 population in 2016 to 18.8 deaths per 100,000 population in 2017, but the change was not statistically significant (Table E8).

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 has declined, but heart disease deaths have declined much more rapidly than cancer deaths. In 2017, the heart disease death rate was 193.5 deaths per 100,000 population, while the cancer death rate was 185.1 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 (72.0 and 71.8 years, respectively), but males who died from heart disease did so at younger ages than did females (75.4 and 82.4 years, respectively). Males and females dying from chronic lower respiratory disease did so at about the same ages (76.6 and 77.2 years, respectively), but males dying of cerebrovascular disease did so at younger ages than did females (77.8 and 82.6 years, respectively). Males who died from suicide were older than females who died of that cause (44.5 and 41.3 years, respectively), but males died from unintentional injuries at much younger ages than females (55.4 and 67.1 years, respectively). Alzheimer's disease killed at the highest average ages for males and females (85.2 and 87.5 years respectively) (Table E7).

The leading causes of death also varied by age-group. In 2017, 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 age-group, unintentional injuries were followed by suicide and homicide as leading causes of death. These three causes accounted for 82.1 percent of deaths in this age-group (Table E6).

Infectious Disease

Five hundred forty (540) Kansas residents died of pneumonia or influenza in 2017, for an age-adjusted death rate of 14.8 per 100,000 population, the second lowest rate in the 1999-2017 period (Table E9). Since 1999, the yearly count of resident pneumonia and influenza deaths has varied from a high of 740 to a low of 518. The age-adjusted pneumonia and influenza death rate in the period has varied from a high of 24.1 to a low of 14.3 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 2017, 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 5,391 Kansas resident deaths in 2017, for an age-adjusted death rate of 154.2 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 3,299 Kansas resident deaths in 2017, for an age-adjusted death rate of 91.4 per 100,000 population (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.

Cerebrovascular Disease

Kansas age-adjusted death rates from cerebrovascular disease decreased to 36.9 per 100,000 population in 2017, down 3.9 percent from a rate of 38.4 per 100,000 population in 2015. Since

1998, death rates due to cerebrovascular disease have declined by 34.2 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 1,327 in 2017 to about 1,207 by 2020 (Table E12). (The exact number would depend on decedent age distributions and on future changes to the Kansas population.)

External Causes

In 2017, the age-adjusted unintentional injury death rate was 49.3 deaths per 100,000 population, an increase of 6.3 percent from the rate of 46.4 in 2016. The 2017 rate was the highest unintentional injury death rate in the past twenty years (Table E8, Figure E3).

Motor-vehicle injuries resulted in 447 deaths in 2017 (427 traffic and 20 non-traffic), accounting for 28.4 percent of 1,573 unintentional injury deaths. This was an increase of 4.4 percent from 428 motor-vehicle injury deaths in 2016 (Table E13).

The motor-vehicle traffic injury death rate in 2017 was 15.1 deaths per 100,000 population (age-adjusted). This falls short of the Healthy People 2020 target (IVP-13.1) of 12.4 deaths per 100,000 population. Meeting the CDC Winnable Battles target of 9.5 deaths per 100,000 population by 2015 would have required a reduction in motor-vehicle traffic injury deaths to about 277.

Unintentional falls were responsible for 469 Kansas resident deaths in 2017 for an age-adjusted death rate of 12.6 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 270 unintentional fall deaths by 2020. The exact number would depend on decedent age distributions and on future changes to the Kansas population.

Suicide

In 2017, 544 Kansas residents died due to suicide, up 6.3 percent from 512 suicide deaths in 2016. Almost four-fifths (78.3%) of suicide victims were male. The three age groups with the largest number of suicides were 25-34 (101 deaths), 35-44 (91 deaths), and 45-54 (91 deaths). The three most common methods of suicide were firearms (309 deaths), suffocation (150 deaths), and poisoning (64 deaths) (Tables E8, E14, E22).

YPLL 75 Statistics

Mortality in Kansas was responsible for 196,255 years of potential life lost before age 75 in 2017 (see Technical Notes – Years of Potential Life Lost). Cancer, unintentional injury, and heart disease accounted for the most years of potential life lost (37,642, 30,129, and 25,245 years lost, respectively). Men lost more than twice the potential years of life to unintentional injuries than did women (20,568 years and 9,561 years, respectively) (Table E20).

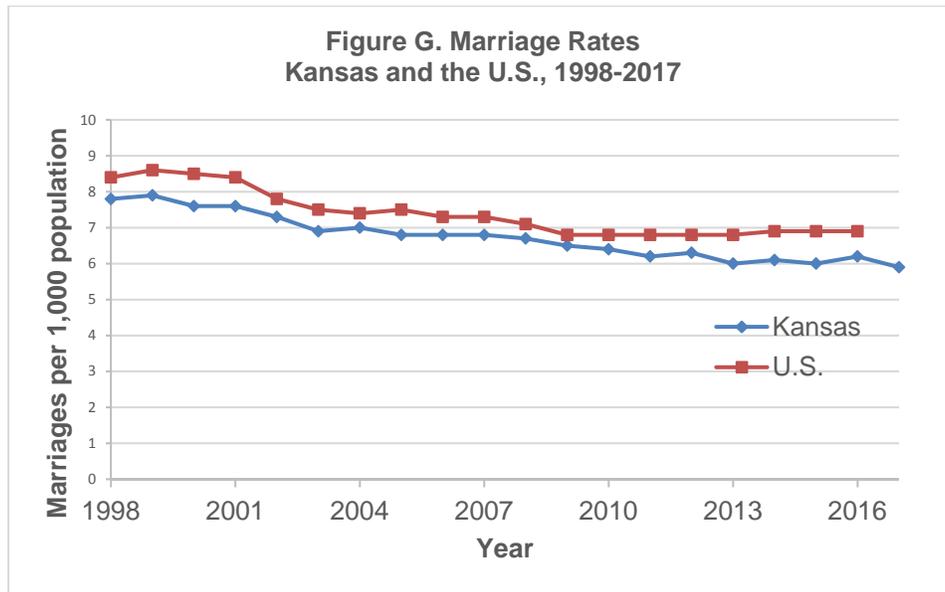
Tobacco and Mortality

Tobacco use contributed to 4,715 deaths in Kansas in 2017 (25.3 percent of the deaths where the tobacco contribution was known and reported on the death certificate). Tobacco use was a contributing factor in 31.5 percent of male deaths, and in 19.3 percent of female deaths. The causes of death showing the largest tobacco contribution were cancer of the trachea, bronchus and lung (86.1%), chronic lower respiratory disease (84.3%), cancer of the urinary tract (33.3%), and ischemic heart disease (33.2%). (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 2017, 17,274 marriages occurred in Kansas, a decrease of 3.8 percent from the 2016 total of 17,948 marriages (Table F1).



The Kansas marriage rate in 2017 was 5.9 marriages per 1,000 population. This rate was 4.8 percent lower than the 6.2 percent rate recorded in 2016, and was the lowest rate recorded for the state of Kansas in the last twenty years (1998–2017) (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 made up more than half of the marriages in Kansas for the fifteenth consecutive year. In 2017, 59.1 percent of all marriages involved first-time partners (Table F4).

More marriages occurred in September (11.7%) than any other month in 2017. October and June were the second and third most popular months (Figure F3).

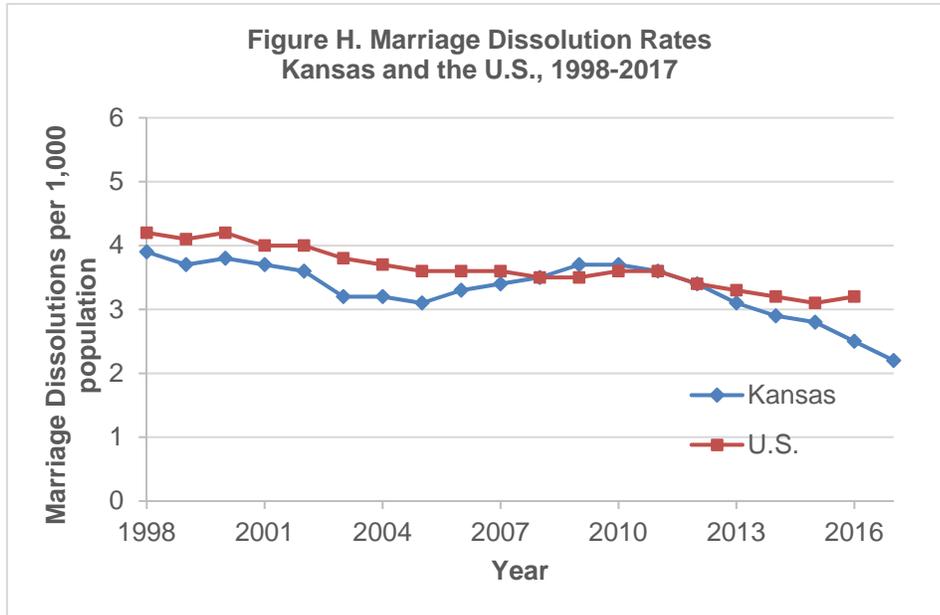
Age at Marriage

Kansas couples are delaying marriage. In 1998, 11.4 percent of the brides and 4.6 percent of the grooms were under 20 years of age. In 2017, however, only 4.7 percent of the brides and 2.2 percent of the grooms were under 20 (Table F5).

The average age of all brides in 2017 was 31.5 years and that of grooms was 33.5 years. Women marrying for the first time averaged 26.6 years while first time grooms averaged 28.4 years. Of those persons who remarried in 2017, women were, on average, 42.2 years old and men were 45.0 years of age (Figure F4).

Marriage Dissolutions

In 2017, 6,494 marriage dissolutions (6,402 divorces and 92 annulments) occurred in Kansas, a decline of 9.8 percent from the 2016 total of 7,198 (Table F1, Table F7).



The Kansas marriage dissolution rate in 2017 was 2.2 per 1,000 population, which was 43.6 percent lower than the 1997 rate of 3.9 (Figure H). Kansas reported a higher marriage dissolution rate than the U.S. from 1952 to 1994. However, in 1995, the state's rate (4.3) dropped below the U.S. rate (4.4) and remained below the national rate until 2008. Since 2008 Kansas rates have sometimes been higher and sometimes lower than the U.S. rates. U.S. rates for 2017 have not been released at the time this summary was written (Table F1, Figure F2).

The ratio of marriages to divorces in Kansas in 2017 was 2.7:1 (Table F1).

Age at Marriage Dissolution

The most common age-group of husbands involved in marriage dissolutions in 2017 was 30-34; the most common age-group of wives involved in marriage dissolutions was 30-34. For couples of the same age-group, the most common age-group was 30-34 (Table F6).

The average age at marriage dissolution in 2017 was 38.6 years for wives and 40.7 years for husbands, as compared to 35.2 years for wives and 37.5 years for husbands in 1998 (Figure F5).

Marriage Dissolution Characteristics

In 2017, 32.5 percent of marriages ending in divorce or annulment lasted four years or less (Table F7).

There were 5,885 minor children affected as a result of marriage dissolutions in 2017. At least one minor child was reported to be involved in almost half (47.9%) of the marriage dissolutions (Table F8, Figure F6).

A. VITAL EVENTS

Table A1
Selected Vital Events and Percent Change
Kansas, 2017, 2016 and 1998

Vital Event	2017	2016	Percent Change 2016-2017	1998	Percent Change 1998-2017
Live Births	36,464	38,048	-4.2	38,372	-5.0
Out-of-Wedlock Births	12,990	13,705	-5.2	10,657	21.9
Stillbirths	184	252	-27.0	199	-7.5
Hebdomadal Deaths	128	119	7.6	132	-3.0
Perinatal Period III Deaths	312	371	-15.9	331	-5.7
Neonatal Deaths	154	145	6.2	172	-10.5
Infant Deaths	217	223	-2.7	263	-17.5
Maternal Deaths	8	8	0.0	3	166.7
Deaths	26,725	26,129	2.3	23,928	11.7
Marriages	17,274	17,948	-3.8	20,403	-15.3
Marriage Dissolutions	6,494	7,198	-9.8	10,363	-37.3
Abortions	3,450	3,439	0.3	6,440	-46.4

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

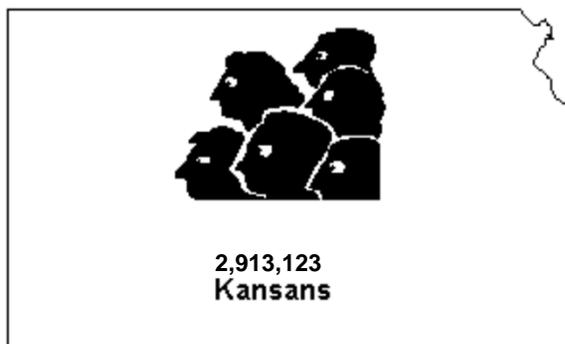
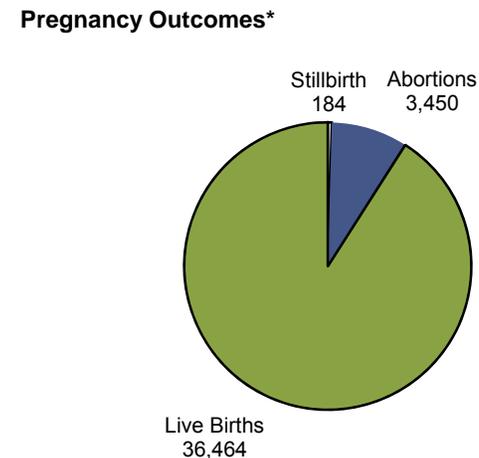
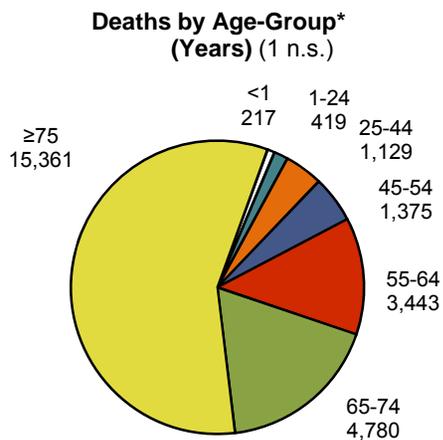
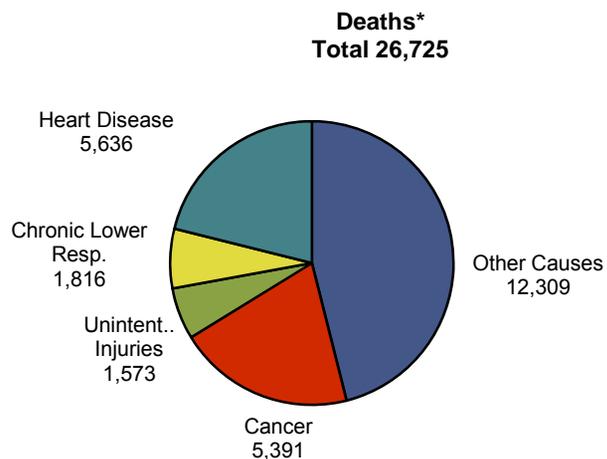
EVERY DAY DURING 2017*

Each day Kansas residents experienced approximately		
100 Live births		
36 Out-of wedlock births		
6 Live births to teenagers		
7 Low birthweight live births		
<1 Infant death		
73 Deaths		
15 Cancer		
15 Heart disease		
5 Chronic lower respiratory disease		
4 Unintentional injuries		
4 Cerebrovascular disease		
2 Alzheimer's disease		
2 Diabetes		
1 Pneumonia and influenza		
1 Nephritis, nephrotic syndrome, nephrosis		
1 Suicide		
		Each day in Kansas there occurred approximately
		47 Marriages
		18 Marriage dissolutions
		18 Abortions

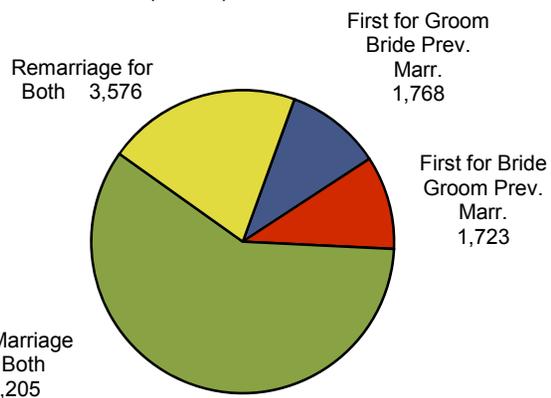
* based on 365 days in 2017

Figure A1

Kansas Vital Statistics for 2017



Marriages† by Marriage Order
Total 17,274
(2 N.S.)



Marriage Dissolutions† By Duration of Marriage
Total 6,494
(205 N.S.)

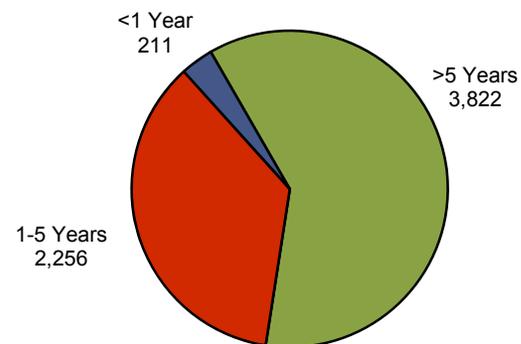


Figure A2

* Residence Data
† Occurrence Data

Table A2
Selected Vital Event Percents, Rates, and Ratios
Kansas, 1998-2017

Vital Event	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Live Births																				
Number	38,372	38,748	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
Rate*	14.6	14.6	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
Out-of-Wedlock Births																				
Number	10,657	11,068	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
Percent [†]	27.8	28.6	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
Stillbirths																				
Number	199	175	177	209	146	206	186	194	192	186	182	213	168	188	195	173	199	233	252	184
Rate [‡]	5.2	4.5	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
Hebdomadal Deaths																				
Number	132	159	146	148	155	138	144	153	137	163	160	144	143	121	142	140	138	132	119	128
Rate [§]	3.4	4.1	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
Perinatal Period III Deaths																				
Number	331	334	323	357	301	344	330	347	329	349	342	357	311	309	337	313	337	365	371	312
Rate [‡]	8.6	8.6	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
Neonatal Deaths																				
Number	172	189	174	178	192	177	176	196	176	211	193	176	170	157	173	166	175	160	145	154
Rate [§]	4.5	4.9	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
Infant Deaths																				
Number	263	281	266	285	282	262	284	297	293	333	303	290	253	247	254	248	246	230	223	217
Rate [§]	6.9	7.3	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
Maternal Deaths [¶]																				
Number	3	4	4	1	2	0	2	6	4	3	7	8	7	4	4	10	5	5	8	8
Rate [#]	7.8	10.3	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
Deaths																				
Number	23,928	24,380	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
Rate**	899.3	910.3	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
Marriages																				
Number	20,403	20,905	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
Rate*	7.8	7.9	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
Marriage Dissolutions																				
Number	10,363	9,926	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
Rate*	3.9	3.7	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
Abortions																				
Number	6,440	6,416	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
Ratio [§]	167.8	165.6	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

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

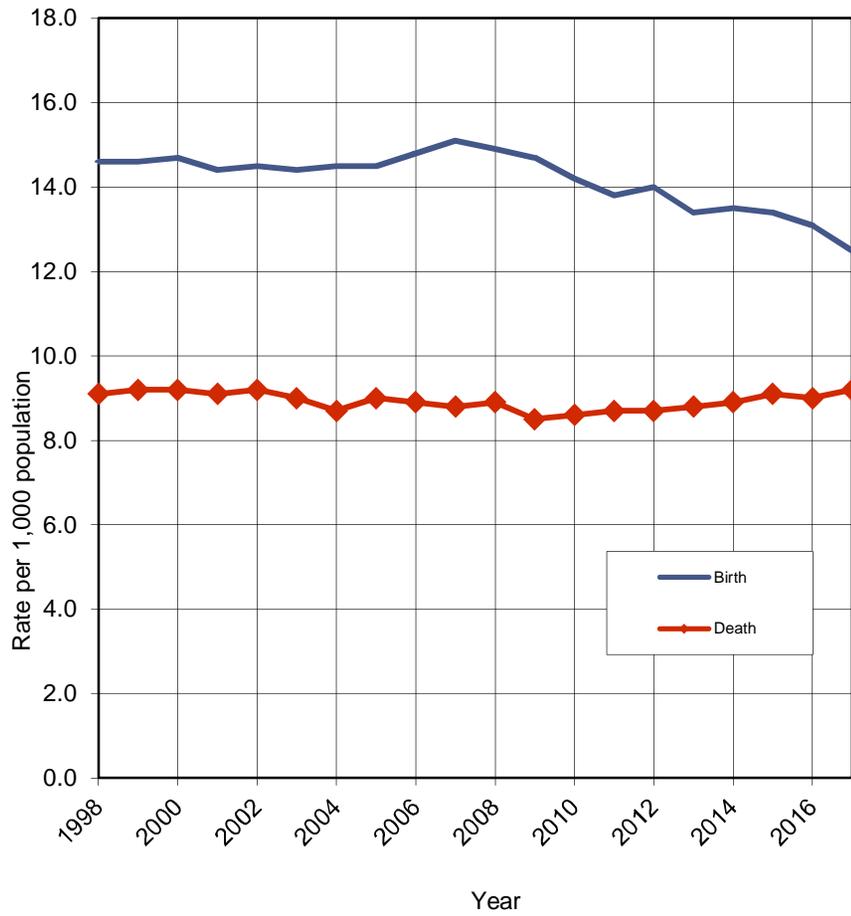
[¶] See Technical Notes for Information on updated definition of Maternal Mortality

[#] Per 100,000 live births

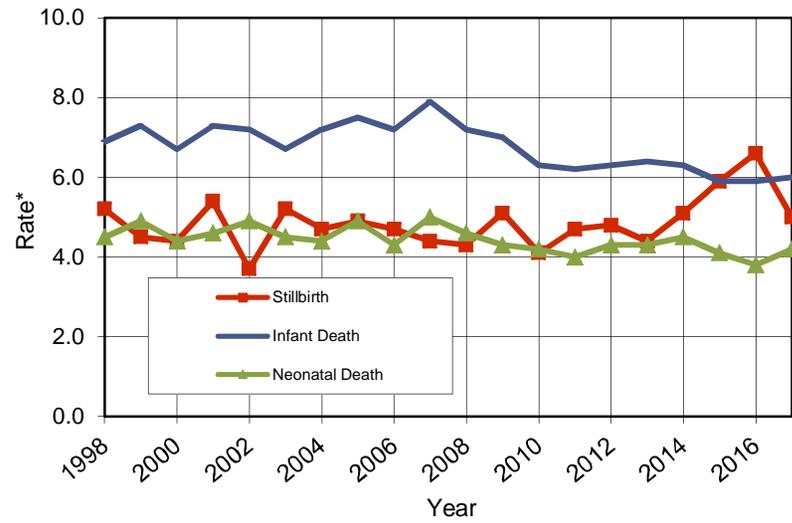
** Per 100,000 population

Selected Vital Event Rates
Kansas, 1998-2017

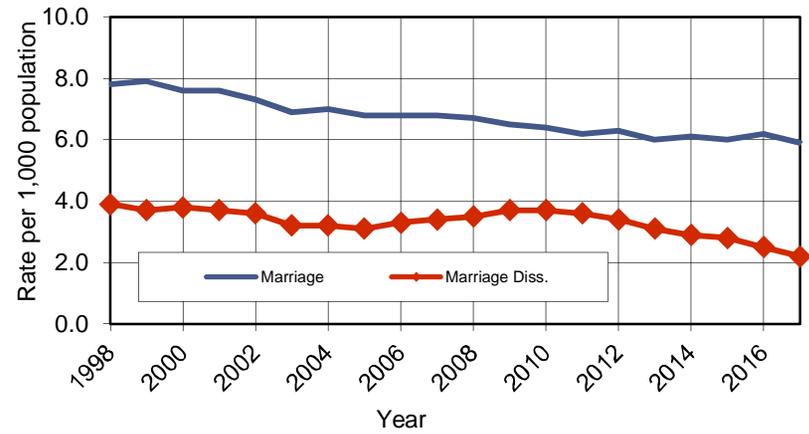
Birth and Death Rates
Kansas, 1998-2017



Stillbirth*, Infant, and Neonatal Death Rates
Kansas, 1998-2017



Marriage and Marriage Dissolution Rates
Kansas, 1998-2017



* 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, 2017

Births and Birth Rates									
	<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	36,464	25,431	2,463	168	1,255	1,177	5,945	25	
Birth Rates [†]	12.5	11.5	14.6	7.2	13.9	15.9	17.1	n/a	
Maternal Characteristics									
	<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	471	209	66	3	5	30	158	0	
Births to mother <20 years of age	2,066	1,110	227	14	20	109	586	0	
Births to mother with < HS diploma or GED	4,321	1,720	343	30	107	178	1,941	2	
Out-of-wedlock births	12,990	7,481	1,680	103	154	547	3,018	7	
Fourth and higher birth order [#]	5,366	3,314	505	48	106	155	1,234	4	
Birth Outcomes									
	<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)	2,697	1,698	352	11	100	127	408	1	
Very low birth weight infants (<1500 grams)	490	306	77	5	9	25	68	0	
Births with gestational age < 37 weeks	3,492	2,320	352	19	114	132	554	1	
	<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 [‡]	6.0	4.7	11.8	11.9	4.8	12.7	7.2	n/a	
Neonatal deaths [‡]	4.2	3.4	8.1	6.0	3.2	10.2	4.9	n/a	
Postneonatal deaths [‡]	1.7	1.3	3.7	6.0	1.6	2.5	2.4	n/a	
Stillbirths [§]	5.0	5.1	7.7	5.9	2.4	3.4	4.2	n/a	
Perinatal [§]	8.5	7.9	14.9	11.8	4.8	9.3	11.4	n/a	
Pregnancy Characteristics									
	<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	29,473	21,532	1,767	110	997	887	4,170	10	
Births to women with late (3rd trimester) or no prenatal care	1,455	720	169	14	52	59	438	3	
Plural births ^{**}	1,230	890	124	4	36	47	129	0	
Deaths and Death Rates									
	<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	26,725	23,557	1,421	194	232	340	918	63	
Death Rates [¶]	917.4	1,066.0	843.6	836.4	257.3	458.7	264.2	n/a	
Age-Adjusted death rates [¶]	761.3	757.6	992.5	1,109.5	395.5	1,089.6	547.2	n/a	

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

† Rate per 1,000 population

‡ Rate per 1,000 live births

§ Rate per 1,000 live births + Stillbirths

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

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

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

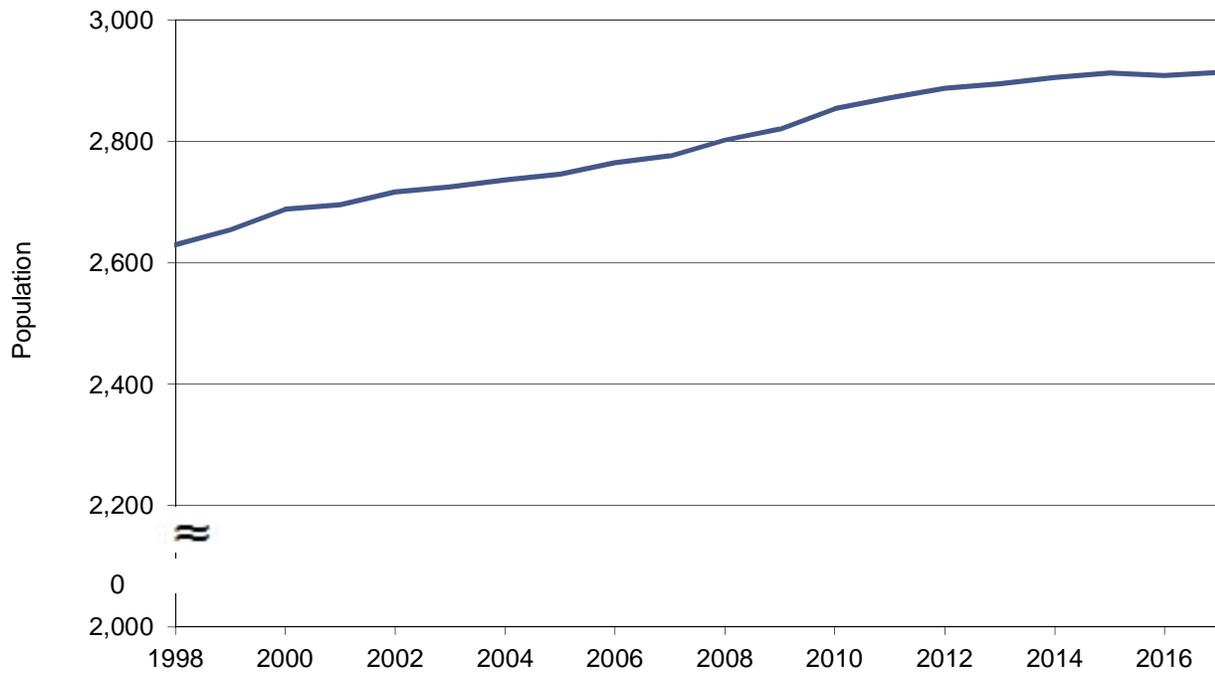
B. POPULATION

Table B1
Population by Year and Sex
Kansas Residents, 1968-2017

Years	Total	Male	Female
1968	2,265,170	*	*
1969	2,287,302	*	*
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

* 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.
Population counts from 1968-1969 are from the Annual Summary of the year,
which did not break down by male and female.

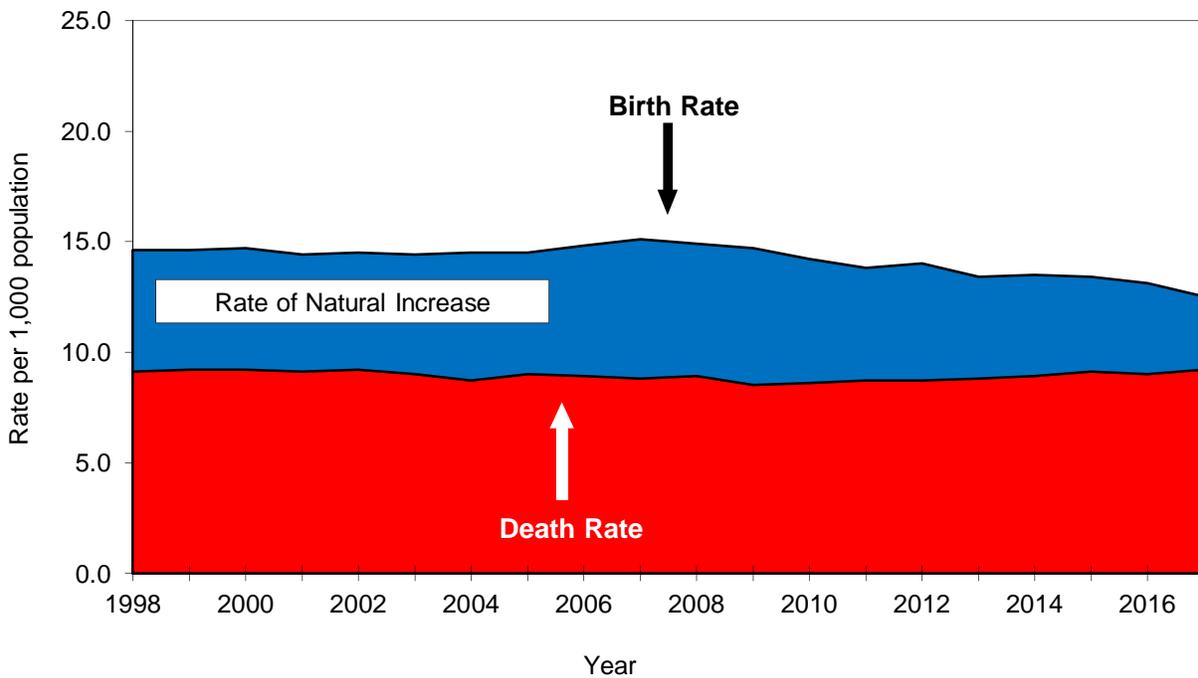
Total Population
Kansas, 1998-2017* (in Thousands)



*U.S. Census Bureau Estimates
2000, 2010 Actual Counts

Year
Figure B1

Rate of Natural Increase
Kansas, 1998-2017



Year
Figure B2

Median Age
Kansas, 1998-2017

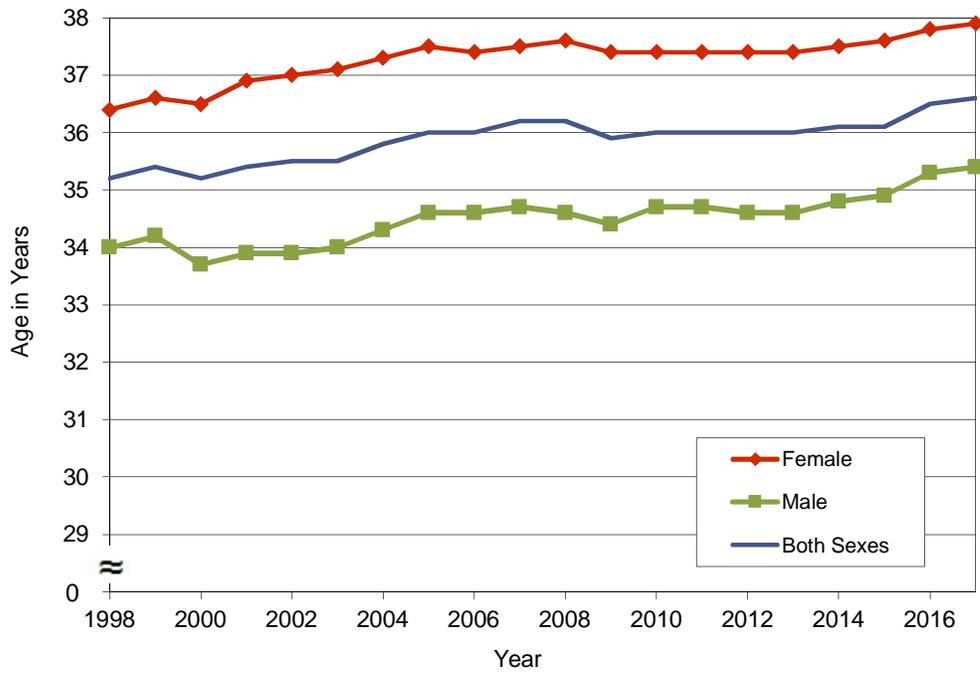
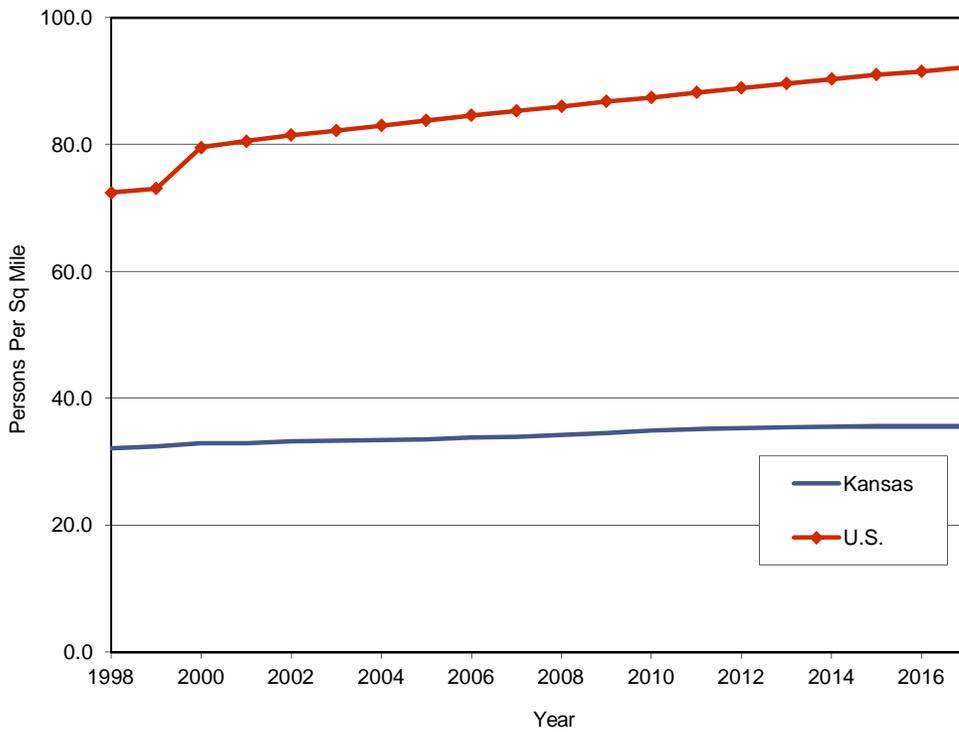


Figure B3

Population Density
Kansas and the U.S., 1998-2017



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, 1998-2017
(In Thousands)

Age-Group	Year																				Percent Change 1998-2017
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	
Both Sexes																					
0-4	182	184	189	189	188	189	189	188	194	196	203	205	205	204	203	200	201	197	194	193	6.0
5-14	389	388	400	401	386	385	376	367	380	379	380	383	401	401	403	405	404	402	401	400	2.8
15-24	389	398	400	401	414	417	419	416	415	411	411	424	408	412	415	419	421	424	417	416	6.9
25-34	347	340	349	350	352	352	359	364	355	361	368	369	378	383	387	387	388	387	385	384	10.7
35-44	426	427	420	421	404	393	388	382	375	367	360	349	347	343	343	344	345	346	347	352	-17.4
45-54	329	343	354	355	378	384	392	399	403	406	408	404	406	399	389	376	369	361	354	346	5.2
55-64	213	220	220	221	239	249	260	271	284	296	306	317	331	346	351	357	362	367	372	374	75.6
65-74	178	175	176	176	171	170	170	170	171	174	180	183	190	195	207	217	226	235	245	255	43.3
75 and Over	176	179	180	181	184	184	184	187	186	186	187	184	186	187	187	189	190	191	192	195	10.8
Total †	2,629	2,654	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	10.8
Median Age	35.2	35.4	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	4.0
Males																					
0-4	94	94	97	97	97	98	98	98	99	100	103	105	105	104	104	103	103	101	99	98	4.3
5-14	200	199	205	206	198	197	193	189	195	195	195	196	206	206	206	208	207	206	205	205	2.5
15-24	200	205	207	207	214	216	216	215	215	213	214	221	211	213	216	219	220	223	217	217	8.5
25-34	173	170	179	179	181	182	185	188	183	186	190	189	192	195	198	199	199	199	197	197	13.9
35-44	216	216	210	211	202	197	195	192	188	185	182	177	175	173	173	174	174	176	176	178	-17.6
45-54	162	169	178	178	189	192	196	199	201	202	203	200	201	198	193	187	183	180	177	173	6.8
55-64	103	106	107	107	116	122	128	134	140	146	151	156	164	171	173	175	178	180	182	183	77.7
65-74	81	79	80	80	78	78	78	78	79	80	84	85	89	92	98	103	107	112	117	122	50.6
75 and Over	64	66	66	66	68	69	70	72	70	70	71	70	73	74	74	75	76	77	78	79	23.4
Total †	1,292	1,305	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	12.4
Median Age	34.0	34.2	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	4.1
Females																					
0-4	89	90	92	92	91	91	91	90	95	96	99	101	101	100	99	98	98	96	95	95	6.7
5-14	189	188	194	195	188	187	183	179	185	185	185	187	196	196	197	198	197	196	196	196	3.7
15-24	189	193	193	194	200	201	202	201	200	198	197	203	197	197	199	200	201	202	200	199	5.3
25-34	174	170	170	171	171	171	173	176	172	176	178	180	185	191	189	189	189	188	188	186	6.9
35-44	211	211	210	211	202	196	193	190	187	183	179	171	172	170	170	170	170	171	171	173	-18.0
45-54	167	174	176	177	188	192	196	200	202	204	205	204	205	201	196	190	185	181	177	173	3.6
55-64	111	114	113	113	122	127	133	138	144	150	155	160	168	175	178	181	185	188	190	191	72.1
65-74	97	96	96	96	93	92	92	92	92	94	96	98	101	103	109	114	118	123	128	133	37.1
75 and Over	112	113	115	115	116	115	114	115	116	116	116	115	113	113	113	113	114	114	114	115	2.7
Total †	1,337	1,349	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	9.3
Median Age	36.4	36.6	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	4.1

* U.S. Census Bureau estimates for July 1, 1997-1999, 2002-2009, and 2011-2016.

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, 2017

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	2,913,123	1,092,453	1,117,295	87,246	81,196	11,484	11,710	43,901	46,252	36,980	37,147	179,892	167,567
<1	38,059	12,626	11,987	1,265	1,230	166	159	631	601	1,197	1,147	3,586	3,464
1-4	155,080	52,393	50,348	5,149	5,005	522	495	2,401	2,158	4,006	3,924	14,488	14,191
5-14	400,089	135,345	129,224	12,487	12,318	1,454	1,394	5,858	5,410	10,605	10,331	38,786	36,877
15-24	415,579	148,534	137,195	15,410	12,522	2,184	1,974	8,286	8,273	8,485	7,967	33,853	30,896
25-34	383,787	139,767	135,030	14,826	11,995	1,817	1,760	8,870	8,249	4,443	4,612	27,643	24,775
35-44	351,767	131,318	129,430	11,266	9,929	1,527	1,451	6,456	7,536	2,873	3,069	24,969	21,943
45-54	345,555	135,915	137,279	10,248	9,183	1,444	1,628	5,073	5,868	2,053	2,234	18,044	16,586
55-64	373,644	155,540	163,779	9,432	9,479	1,325	1,561	3,358	4,134	1,868	2,048	10,993	10,127
65-74	255,057	108,873	117,722	4,729	5,520	719	860	1,896	2,559	949	1,068	4,885	5,277
75-84	129,564	51,161	66,064	1,859	2,768	285	346	871	1,059	371	516	1,968	2,296
85+	64,942	20,981	39,237	575	1,247	41	82	201	405	130	231	677	1,135

*U.S. Census Bureau estimates for 2017.

Percent Change in Age-Group Population
Both Sexes, Kansas, 1998-2017

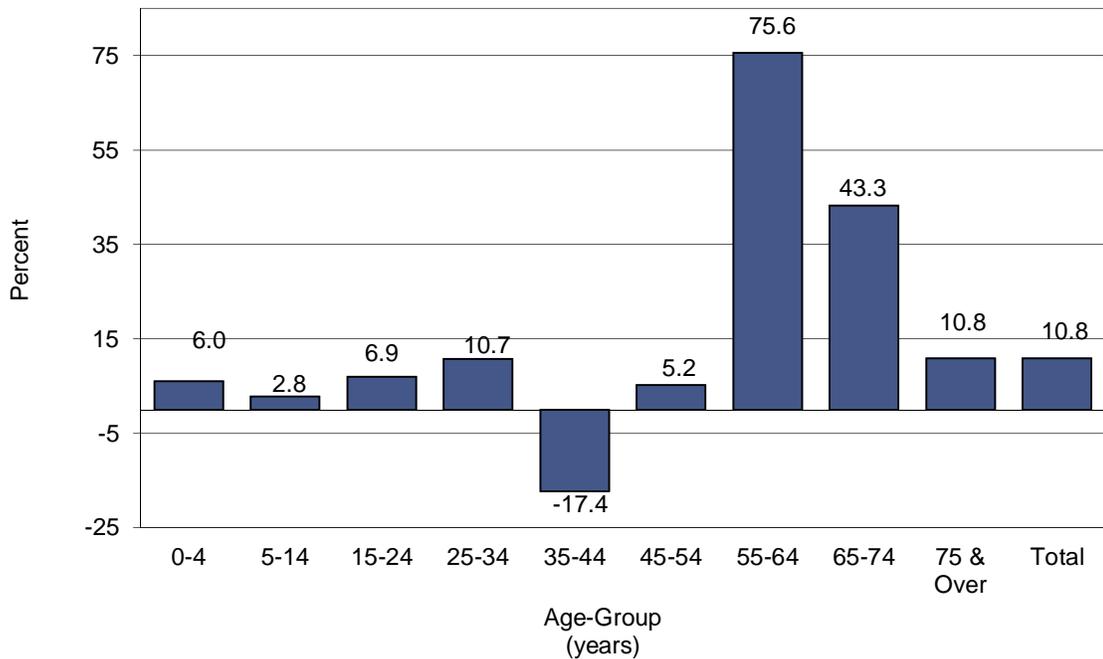


Figure B5

Table B4
Population by County and Peer Group*
Kansas, 2013-2017

County of Residence	Year					Percent Change 2013-2017
	2013	2014	2015	2016	2017	
Kansas	2,893,957	2,904,021	2,911,641	2,907,289	2,913,123	0.7
Allen	13,124	12,909	12,717	12,714	12,519	-4.6
Anderson	7,897	7,883	7,808	7,827	7,833	-0.8
Atchison	16,749	16,513	16,398	16,380	16,332	-2.5
Barber	4,947	4,897	4,823	4,688	4,586	-7.3
Barton	27,509	27,385	27,103	26,775	26,476	-3.8
Bourbon	14,852	14,772	14,712	14,617	14,754	-0.7
Brown	9,997	9,815	9,776	9,684	9,641	-3.6
Butler	65,803	66,227	66,741	67,025	66,878	1.6
Chase	2,700	2,692	2,679	2,669	2,683	-0.6
Chautauqua	3,552	3,481	3,402	3,374	3,363	-5.3
Cherokee	20,978	20,787	20,533	20,246	20,115	-4.1
Cheyenne	2,694	2,693	2,679	2,661	2,683	-0.4
Clark	2,193	2,144	2,096	2,072	2,004	-8.6
Clay	8,406	8,317	8,347	8,143	7,958	-5.3
Cloud	9,292	9,385	9,219	9,150	8,991	-3.2
Coffey	8,412	8,433	8,384	8,433	8,224	-2.2
Comanche	1,955	1,954	1,843	1,862	1,790	-8.4
Cowley	36,204	35,963	35,788	35,753	35,361	-2.3
Crawford	39,278	39,290	39,217	39,164	39,034	-0.6
Decatur	2,930	2,908	2,932	2,832	2,885	-1.5
Dickinson	19,609	19,394	19,303	19,064	18,902	-3.6
Doniphan	7,851	7,874	7,797	7,664	7,727	-1.6
Douglas	114,322	116,585	118,053	119,440	120,793	5.7
Edwards	2,945	3,030	2,968	2,938	2,893	-1.8
Elk	2,655	2,694	2,605	2,547	2,498	-5.9
Ellis	29,061	29,013	29,029	28,893	28,689	-1.3
Ellsworth	6,398	6,392	6,343	6,328	6,330	-1.1
Finney	37,098	37,184	37,118	36,722	37,084	0.0
Ford	34,819	34,795	34,536	33,971	34,381	-1.3
Franklin	25,740	25,611	25,609	25,560	25,733	0.0
Geary	37,384	36,713	37,030	35,586	33,855	-9.4
Gove	2,769	2,727	2,640	2,589	2,631	-5.0
Graham	2,593	2,566	2,591	2,564	2,495	-3.8
Grant	7,950	7,816	7,733	7,646	7,526	-5.3
Gray	6,009	6,082	6,133	6,034	5,958	-0.8
Greeley	1,290	1,301	1,330	1,296	1,249	-3.2
Greenwood	6,424	6,328	6,244	6,151	6,123	-4.7
Hamilton	2,609	2,603	2,474	2,536	2,640	1.2
Harper	5,860	5,818	5,817	5,685	5,590	-4.6
Harvey	34,741	34,820	35,073	34,913	34,544	-0.6
Haskell	4,141	4,106	4,064	4,006	4,053	-2.1
Hodgeman	1,950	1,916	1,893	1,870	1,842	-5.5
Jackson	13,366	13,539	13,338	13,291	13,318	-0.4
Jefferson	18,813	18,855	18,930	18,897	18,998	1.0
Jewell	3,046	3,043	2,970	2,901	2,850	-6.4
Johnson	566,933	574,272	580,159	584,451	591,178	4.3
Kearny	3,923	3,915	3,956	3,917	3,960	0.9
Kingman	7,844	7,698	7,687	7,467	7,360	-6.2
Kiowa	2,523	2,513	2,564	2,483	2,485	-1.5
Labette	20,916	20,960	20,803	20,444	20,145	-3.7
Lane	1,720	1,687	1,670	1,636	1,559	-9.4
Leavenworth	78,185	78,797	79,315	80,204	81,095	3.7
Lincoln	3,147	3,167	3,105	3,073	3,043	-3.3
Linn	9,516	9,502	9,536	9,558	9,726	2.2
Logan	2,798	2,794	2,825	2,831	2,821	0.8

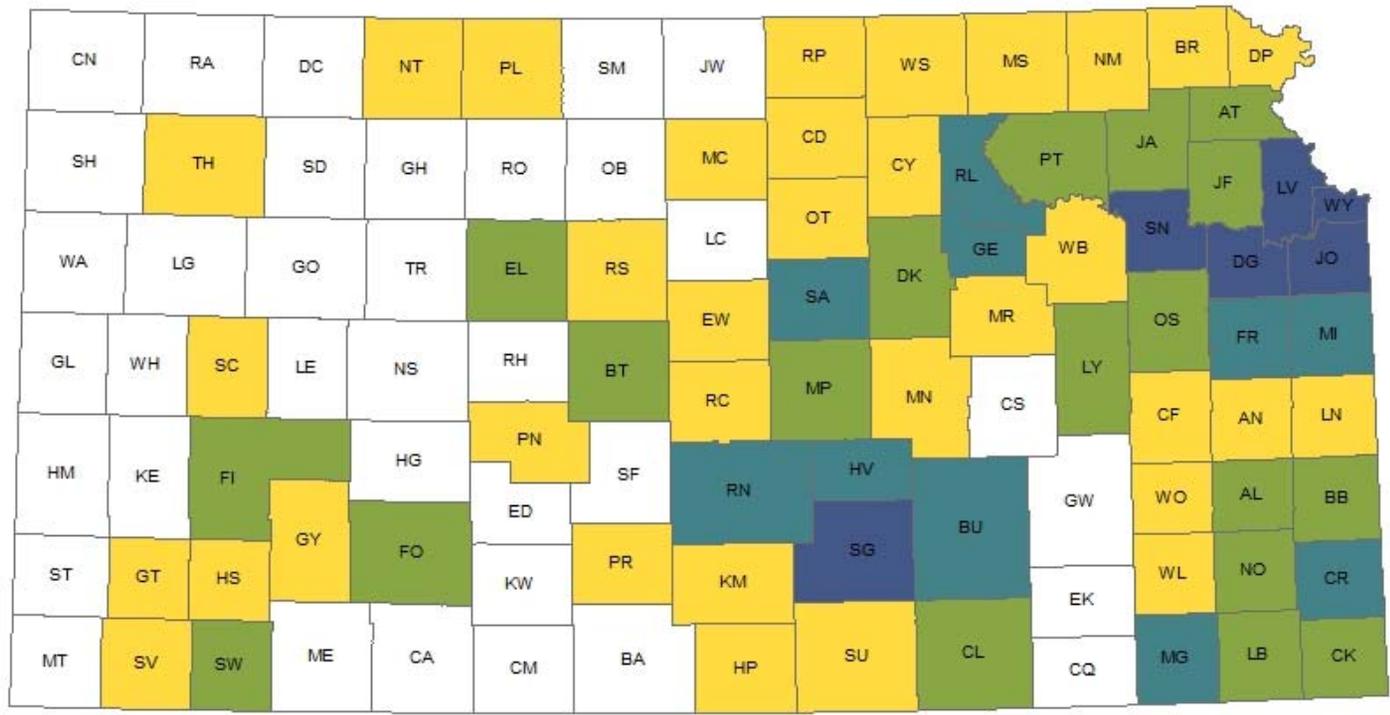
Table B4
Population by County and Peer Group*
Kansas, 2013-2017

County of Residence	Year					Percent Change 2013-2017
	2013	2014	2015	2016	2017	
Lyon	33,510	33,212	33,339	33,510	33,392	-0.4
McPherson	29,569	29,241	28,941	28,804	28,708	-2.9
Marion	12,219	12,208	12,103	12,112	11,986	-1.9
Marshall	10,002	10,006	9,936	9,836	9,745	-2.6
Meade	4,343	4,357	4,330	4,216	4,303	-0.9
Miami	32,835	32,822	32,553	32,964	33,461	1.9
Mitchell	6,378	6,284	6,282	6,243	6,128	-3.9
Montgomery	34,292	34,065	33,314	32,746	32,556	-5.1
Morris	5,741	5,698	5,645	5,573	5,455	-5.0
Morton	3,143	3,110	3,007	2,848	2,740	-12.8
Nemaha	10,161	10,148	10,227	10,241	10,118	-0.4
Neosho	16,430	16,416	16,346	16,146	16,015	-2.5
Ness	3,073	3,105	3,005	2,962	2,869	-6.6
Norton	5,622	5,560	5,550	5,493	5,441	-3.2
Osage	16,142	15,936	15,847	15,843	15,772	-2.3
Osborne	3,818	3,756	3,683	3,642	3,610	-5.4
Ottawa	6,042	6,065	5,975	5,920	5,863	-3.0
Pawnee	6,971	6,916	6,838	6,743	6,680	-4.2
Phillips	5,540	5,533	5,428	5,428	5,370	-3.1
Pottawatomie	22,691	22,897	23,298	23,661	23,908	5.4
Pratt	9,878	9,850	9,691	9,584	9,547	-3.4
Rawlins	2,589	2,584	2,506	2,549	2,497	-3.6
Reno	64,190	63,794	63,718	63,220	62,510	-2.6
Republic	4,820	4,803	4,725	4,699	4,691	-2.7
Rice	10,011	10,015	9,977	9,831	9,660	-3.5
Riley	75,394	75,194	75,247	73,343	74,172	-1.6
Rooks	5,190	5,155	5,174	5,076	5,043	-2.8
Rush	3,186	3,197	3,130	3,058	3,103	-2.6
Russell	6,933	6,956	7,039	6,988	6,915	-0.3
Saline	55,740	55,755	55,691	55,142	54,734	-1.8
Scott	5,035	5,080	4,964	5,032	4,961	-1.5
Sedgwick	505,415	508,803	511,574	511,995	513,687	1.6
Seward	23,390	23,465	23,152	22,709	22,159	-5.3
Shawnee	178,831	178,406	178,725	178,146	178,187	-0.4
Sheridan	2,553	2,539	2,512	2,509	2,527	-1.0
Sherman	6,115	6,110	5,983	5,965	5,930	-3.0
Smith	3,706	3,769	3,704	3,632	3,668	-1.0
Stafford	4,359	4,297	4,236	4,208	4,207	-3.5
Stanton	2,194	2,111	2,072	2,062	2,060	-6.1
Stevens	5,816	5,801	5,806	5,584	5,612	-3.5
Sumner	23,591	23,528	23,535	23,272	23,159	-1.8
Thomas	7,948	7,891	7,904	7,892	7,788	-2.0
Trego	2,980	2,902	2,927	2,872	2,884	-3.2
Wabaunsee	7,051	7,022	6,951	6,891	6,874	-2.5
Wallace	1,569	1,506	1,518	1,497	1,524	-2.9
Washington	5,629	5,598	5,598	5,546	5,485	-2.6
Wichita	2,192	2,176	2,157	2,112	2,125	-3.1
Wilson	9,105	9,028	8,856	8,723	8,675	-4.7
Woodson	3,221	3,157	3,115	3,165	3,147	-2.3
Wyandotte	160,384	161,636	163,369	163,831	165,288	3.1
Peer Group						
Frontier	112,373	111,727	110,233	108,698	108,173	-3.7
Rural	235,845	234,866	233,457	231,485	229,331	-2.8
Densely -Settled Rural	476,272	474,638	472,563	469,376	467,914	-1.8
Semi-Urban	465,397	464,291	464,193	459,663	457,477	-1.7
Urban	1,604,070	1,618,499	1,631,195	1,638,067	1,650,228	2.9

Source: U.S. Bureau of the Census

* See Technical Notes for Peer Group definition. Several counties changed groups as of the 2010 Census.

Population Density By County of Residence Kansas, 2017



State Rate: 35.6

Legend

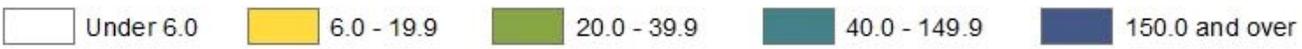


Figure B6

Table B5
Population by County of Residence and Peer Group†, by Population Group*
Kansas, 2017

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	2,913,123	2,209,748	168,442	23,194	90,153	74,127	347,459
Allen	12,519	11,306	249	98	105	328	433
Anderson	7,833	7,435	45	45	50	106	152
Atchison	16,332	14,435	790	103	113	387	504
Barber	4,586	4,189	35	44	26	87	205
Barton	26,476	21,520	368	123	70	413	3,982
Bourbon	14,754	13,294	424	116	189	358	373
Brown	9,641	8,004	110	770	50	255	452
Butler	66,878	59,440	1,261	595	936	1,446	3,200
Chase	2,683	2,444	33	16	7	52	131
Chautauqua	3,363	2,897	24	159	5	147	131
Cherokee	20,115	17,694	161	799	151	788	522
Cheyenne	2,683	2,417	5	8	46	23	184
Clark	2,004	1,678	9	19	27	50	221
Clay	7,958	7,486	76	42	42	118	194
Cloud	8,991	8,338	77	43	109	143	281
Coffey	8,224	7,660	73	69	71	127	224
Comanche	1,790	1,601	6	6	8	33	136
Cowley	35,361	28,052	957	601	794	1,037	3,920
Crawford	39,034	33,882	854	383	778	974	2,163
Decatur	2,885	2,710	24	13	7	40	91
Dickinson	18,902	17,118	172	107	145	457	903
Doniphan	7,727	6,955	250	90	43	167	222
Douglas	120,793	94,626	5,175	2,681	6,145	4,420	7,746
Edwards	2,893	2,210	13	24	7	43	596
Elk	2,498	2,260	3	37	13	85	100
Ellis	28,689	25,696	327	75	550	409	1,632
Ellsworth	6,330	5,435	324	43	37	105	386
Finney	37,084	15,174	1,127	163	1,579	397	18,644
Ford	34,381	13,664	744	136	533	341	18,963
Franklin	25,733	23,407	306	180	145	589	1,106
Geary	33,855	18,864	5,870	283	1,323	1,794	5,721
Gove	2,631	2,490	9	4	22	31	75
Graham	2,495	2,212	86	12	35	69	81
Grant	7,526	3,780	36	28	29	87	3,566
Gray	5,958	4,890	32	21	24	55	936
Greeley	1,249	984	3	6	5	9	242
Greenwood	6,123	5,637	30	67	22	129	238
Hamilton	2,640	1,628	14	20	10	35	933
Harper	5,590	5,051	27	66	21	79	346
Harvey	34,544	28,507	600	201	332	714	4,190
Haskell	4,053	2,688	12	17	50	42	1,244
Hodgeman	1,842	1,596	21	10	45	25	145
Jackson	13,318	11,201	93	944	81	416	583
Jefferson	18,998	17,761	113	158	67	363	536
Jewell	2,850	2,718	7	16	11	28	70
Johnson	591,178	472,840	28,155	1,657	29,921	13,331	45,274
Kearny	3,960	2,523	27	46	20	82	1,262
Kingman	7,360	6,865	27	55	40	114	259
Kiowa	2,485	2,197	26	18	34	41	169
Labette	20,145	17,198	805	382	101	746	913
Lane	1,559	1,375	19	11	5	35	114
Leavenworth	81,095	63,959	7,376	554	1,298	2,311	5,597
Lincoln	3,043	2,857	18	18	17	30	103
Linn	9,726	9,096	72	67	39	169	283
Logan	2,821	2,541	20	12	22	48	178

Table B5
Population by County of Residence and Peer Group†, by Population Group*
Kansas, 2017

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	33,392	23,574	728	208	886	855	7,141
McPherson	28,708	26,302	321	129	296	471	1,189
Marion	11,986	11,110	116	73	53	188	446
Marshall	9,745	9,219	44	35	40	157	250
Meade	4,303	3,378	47	34	32	50	762
Miami	33,461	30,978	425	207	169	587	1,095
Mitchell	6,128	5,817	14	25	52	62	158
Montgomery	32,556	25,935	1,712	988	339	1,522	2,060
Morris	5,455	4,976	30	31	32	104	282
Morton	2,740	1,936	26	32	42	37	667
Nemaha	10,118	9,635	63	53	43	125	199
Neosho	16,015	14,431	207	151	102	297	827
Ness	2,869	2,515	22	7	6	33	286
Norton	5,441	4,842	172	17	41	81	288
Osage	15,772	14,678	101	104	82	290	517
Osborne	3,610	3,410	11	19	53	36	81
Ottawa	5,863	5,500	67	28	17	85	166
Pawnee	6,680	5,609	355	44	32	113	527
Phillips	5,370	5,039	25	18	44	61	183
Pottawatomie	23,908	21,456	253	163	242	522	1,272
Pratt	9,547	8,453	135	48	63	164	684
Rawlins	2,497	2,260	14	6	11	30	176
Reno	62,510	52,698	1,907	389	348	1,321	5,847
Republic	4,691	4,484	22	14	23	58	90
Rice	9,660	8,074	125	66	87	187	1,121
Riley	74,172	56,885	4,781	378	3,767	2,194	6,167
Rooks	5,043	4,735	36	17	43	75	137
Rush	3,103	2,896	11	21	10	40	125
Russell	6,915	6,390	86	60	47	105	227
Saline	54,734	43,881	1,748	267	1,270	1,393	6,175
Scott	4,961	3,883	30	34	63	47	904
Sedgwick	513,687	349,616	45,075	4,178	23,316	16,356	75,146
Seward	22,159	6,656	866	89	617	272	13,659
Shawnee	178,187	131,706	14,013	1,614	2,726	5,992	22,136
Sheridan	2,527	2,352	11	6	9	22	127
Sherman	5,930	5,004	48	20	32	98	728
Smith	3,668	3,475	11	15	15	70	82
Stafford	4,207	3,498	16	32	18	73	570
Stanton	2,060	1,204	16	19	2	34	785
Stevens	5,612	3,406	30	51	24	64	2,037
Sumner	23,159	20,762	258	250	120	508	1,261
Thomas	7,788	7,007	68	39	70	102	502
Trego	2,884	2,731	19	10	17	43	64
Wabaunsee	6,874	6,363	48	50	21	140	252
Wallace	1,524	1,361	6	9	1	18	129
Washington	5,485	5,146	31	8	36	75	189
Wichita	2,125	1,446	19	3	4	22	631
Wilson	8,675	7,978	49	98	63	213	274
Woodson	3,147	2,920	15	36	4	72	100
Wyandotte	165,288	67,653	36,689	740	8,368	3,955	47,883
Peer Group†							
Frontier	108,173	93,365	745	816	689	1,803	10,755
Rural	229,331	202,579	2,436	2,094	1,417	3,603	17,202
Densely -Settled Rural	467,914	358,927	9,314	4,989	6,866	9,822	77,996
Semi-Urban	457,477	374,477	19,464	3,871	9,407	12,534	37,724
Urban	1,650,228	1,180,400	136,483	11,424	71,774	46,365	203,782

* U.S. Census Bureau 2017 population estimates.

† See Technical Notes for Peer Group definition.

Table B6
City Population*
Kansas, 2013-2017

City of Residence	Year					Percent Change 2013-2017
	2013	2014	2015	2016	2017	
Abilene	6,665	6,590	6,558	6,469	6,380	-4.3
Andover	12,265	12,509	12,745	12,980	13,111	6.9
Arkansas City	12,305	12,205	12,136	12,063	11,866	-3.6
Atchison	10,925	10,771	10,712	10,679	10,636	-2.6
Augusta	9,203	9,242	9,299	9,321	9,389	2.0
Baldwin City	4,540	4,585	4,669	4,677	4,644	2.3
Basehor	4,898	5,119	5,402	5,651	6,015	22.8
Baxter Springs	4,124	4,073	4,028	3,963	3,958	-4.0
Bel Aire	6,916	7,284	7,435	7,661	7,914	14.4
Beloit	3,846	3,792	3,790	3,769	3,710	-3.5
Bonner Springs	7,480	7,553	7,606	7,665	7,784	4.1
Burlington	2,630	2,635	2,615	2,610	2,553	-2.9
Chanute	9,255	9,295	9,252	9,139	9,054	-2.2
Clay Center	4,239	4,177	4,173	4,069	3,980	-6.1
Coffeyville	9,949	9,876	9,669	9,539	9,481	-4.7
Colby	5,416	5,388	5,417	5,419	5,361	-1.0
Columbus	3,223	3,186	3,146	3,104	3,096	-3.9
Concordia	5,261	5,311	5,218	5,179	5,099	-3.1
Derby	23,047	23,234	23,509	23,633	23,673	2.7
De Soto	5,911	6,038	6,074	6,071	6,107	3.3
Dodge City	28,159	28,117	27,912	27,453	27,720	-1.6
Edwardsville	4,355	4,380	4,390	4,390	4,498	3.3
El Dorado	12,852	12,879	12,931	13,141	12,993	1.1
Ellsworth	3,077	3,076	3,057	3,047	3,054	-0.7
Emporia	24,799	24,560	24,649	24,816	24,724	-0.3
Eudora	6,211	6,303	6,378	6,379	6,329	1.9
Eureka	2,527	2,485	2,450	2,410	2,401	-5.0
Fairway	3,963	3,969	3,970	3,972	3,957	-0.2
Fort Scott	7,934	7,874	7,838	7,773	7,813	-1.5
Frontenac	3,432	3,444	3,422	3,414	3,413	-0.6
Galena	2,994	2,966	2,930	2,886	2,900	-3.1
Garden City	26,966	27,004	27,005	26,747	26,895	-0.3
Gardner	20,473	20,667	20,868	21,110	21,583	5.4
Garnett	3,307	3,295	3,258	3,264	3,253	-1.6
Girard	2,779	2,773	2,760	2,748	2,706	-2.6
Goddard	4,582	4,692	4,719	4,710	4,746	3.6
Goodland	4,557	4,554	4,457	4,441	4,411	-3.2
Great Bend	15,901	15,840	15,717	15,535	15,344	-3.5
Hays	21,038	21,044	21,092	21,027	20,845	-0.9
Haysville	11,004	11,112	11,212	11,245	11,278	2.5
Herington	2,449	2,413	2,396	2,362	2,332	-4.8
Hesston	3,736	3,734	3,813	3,803	3,782	1.2
Hiawatha	3,178	3,108	3,095	3,065	3,147	-1.0
Hillsboro	2,903	2,893	2,869	2,887	2,850	-1.8
Hoisington	2,685	2,664	2,623	2,586	2,559	-4.7
Holton	3,278	3,316	3,263	3,285	3,266	-0.4
Hugoton	3,979	3,966	3,964	3,835	3,831	-3.7
Hutchinson	41,889	41,642	41,569	41,310	40,772	-2.7
Independence	9,230	9,162	8,958	8,799	8,729	-5.4
Iola	5,613	5,553	5,470	5,454	5,354	-4.6
Junction City	25,388	24,665	24,621	24,180	22,988	-9.5
Kansas City	148,483	149,636	151,306	151,709	152,938	3.0

Table B6
City Population*
Kansas, 2013-2017

City of Residence	Year					Percent Change 2013-2017
	2013	2014	2015	2016	2017	
Kingman	3,158	3,094	3,086	3,000	2,929	-7.3
Lansing	11,642	11,713	11,767	11,849	11,947	2.6
Larned	4,046	4,023	3,967	3,900	3,855	-4.7
Lawrence	90,811	92,763	93,917	95,358	96,892	6.7
Leavenworth	35,891	36,000	35,980	36,154	36,210	0.9
Leawood	32,991	34,395	34,579	34,565	34,659	5.1
Lenexa	50,344	51,042	52,490	52,903	53,553	6.4
Liberal	20,956	21,012	20,746	20,350	19,826	-5.4
Lindsborg	3,481	3,438	3,383	3,338	3,268	-6.1
Louisburg	4,299	4,322	4,276	4,382	4,487	4.4
Lyons	3,737	3,737	3,725	3,671	3,565	-4.6
McPherson	13,322	13,189	13,144	13,164	13,201	-0.9
Maize	3,823	4,073	4,362	4,438	4,557	19.2
Manhattan	56,143	56,078	56,308	54,983	54,832	-2.3
Marysville	3,295	3,295	3,323	3,294	3,271	-0.7
Merriam	11,281	11,290	11,288	11,245	11,212	-0.6
Mission	9,516	9,501	9,491	9,443	9,409	-1.1
Mission Hills	3,582	3,597	3,601	3,600	3,573	-0.3
Mulvane	6,287	6,289	6,314	6,316	6,359	1.1
Newton	19,117	19,120	19,216	19,105	18,869	-1.3
Norton	2,880	2,846	2,841	2,812	2,775	-3.6
Olathe	131,885	133,062	134,305	135,473	137,472	4.2
Osage City	2,899	2,862	2,844	2,837	2,796	-3.6
Osawatomie	4,385	4,357	4,297	4,308	4,298	-2.0
Ottawa	12,482	12,403	12,387	12,356	12,342	-1.1
Overland Park	181,260	184,525	186,515	188,966	191,278	5.5
Paola	5,630	5,593	5,527	5,568	5,580	-0.9
Park City	7,499	7,556	7,618	7,632	7,729	3.1
Parsons	10,164	10,174	10,090	9,906	9,761	-4.0
Phillipsburg	2,541	2,556	2,524	2,543	2,512	-1.1
Pittsburg	20,398	20,394	20,409	20,366	20,216	-0.9
Prairie Village	21,892	21,877	21,877	21,805	22,368	2.2
Pratt	6,986	6,963	6,849	6,771	6,748	-3.4
Roeland Park	6,845	6,840	6,827	6,786	6,772	-1.1
Rose Hill	3,942	3,960	3,995	4,015	3,980	1.0
Russell	4,475	4,484	4,534	4,500	4,463	-0.3
Sabetha	2,568	2,564	2,585	2,584	2,569	0.0
St Marys	2,677	2,664	2,662	2,664	2,645	-1.2
Salina	47,846	47,867	47,813	47,336	46,994	-1.8
Scott City	3,889	3,927	3,838	3,890	3,851	-1.0
Shawnee	64,323	64,599	65,046	65,194	65,513	1.9
Spring Hill	5,730	5,896	5,981	6,166	6,618	15.5
Tonganoxie	5,165	5,192	5,248	5,326	5,444	5.4
Topeka	127,679	127,215	127,265	126,808	126,587	-0.9
Ulysses	6,274	6,160	6,097	6,035	5,912	-5.8
Valley Center	7,011	7,057	7,222	7,343	7,300	4.1
Wamego	4,603	4,578	4,627	4,715	4,703	2.2
Wellington	7,967	7,942	7,987	7,889	7,822	-1.8
Wichita	386,552	388,413	389,965	389,902	390,591	1.0
Winfield	12,333	12,258	12,204	12,284	12,104	-1.9

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

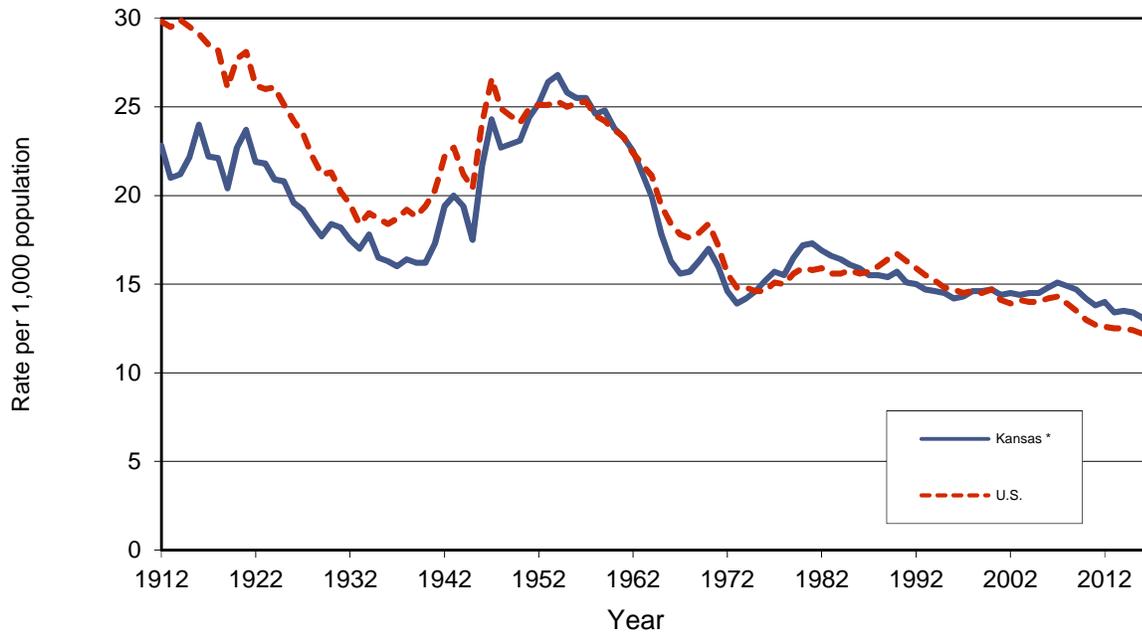
C. LIVE BIRTHS AND FERTILITY

Table C1
Birth Rates*
Kansas[†] and the U.S., 1912-2017

Year	Birth Rates		Year	Birth Rates	
	Kansas	U.S.		Kansas	U.S.
1912	22.8	29.8	1965	17.8	19.4
1913	21.0	29.5	1966	16.3	18.4
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	

*Rate per 1,000 population
[†]1912-1933 Occurrence data
1934-2017 Residence data

Birth Rates Kansas and the U.S., 1912-2017



*1912-1934 Occurrence data
1935-2017 Residence data

Figure C1

Fertility Rates* Kansas and the U.S., 1998-2017

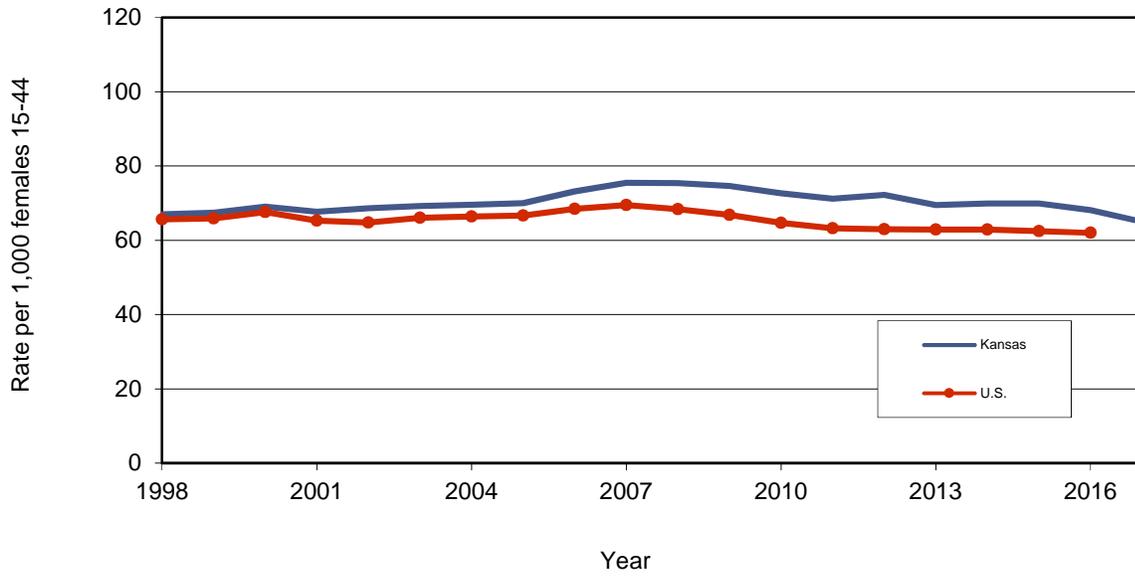


Figure C2

Age-Specific Fertility Rates by Year by Age-Group of Mother*
 Kansas, 2013-2017

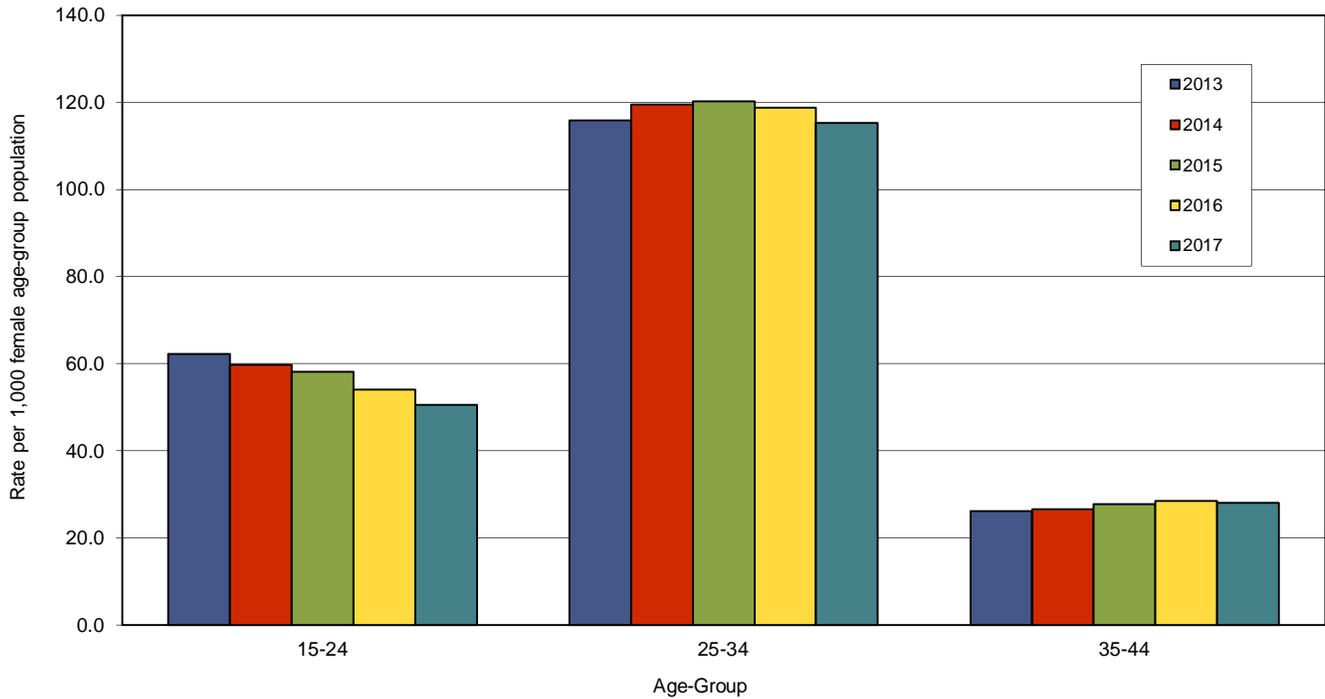


Figure C3

Table C2
 Age-Specific Fertility Rates*
 by Age-Group of Mother
 Kansas, 1998-2017

Age-Group	Year																			Percent Change 1998-2017	
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016		2017
Total	67.0	67.4	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	-2.5
15-24	79.5	80.0	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	-36.5
25-34	108.8	111.2	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	6.0
35-44	20.4	20.4	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	37.7

*Rate per 1,000 female age-group population

Table C3
Live Births by Age-Group of Mother by Sex of Infant
Kansas, 2017

Age-Group of Mother	Total		Sex	
	Number	Percent	Male	Female
Total*	36,464	100	18,860	17,604
Under 15	13	0.0	4	9
15-17	458	1.3	229	229
18-19	1,595	4.4	851	744
20-24	7,984	21.9	4,120	3,864
25-29	11,496	31.5	5,926	5,570
30-34	10,003	27.4	5,200	4,803
35-39	4,159	11.4	2,155	2,004
40-44	711	1.9	355	356
45 & Over	44	0.1	20	24
n.s.	1	n/a	0	1

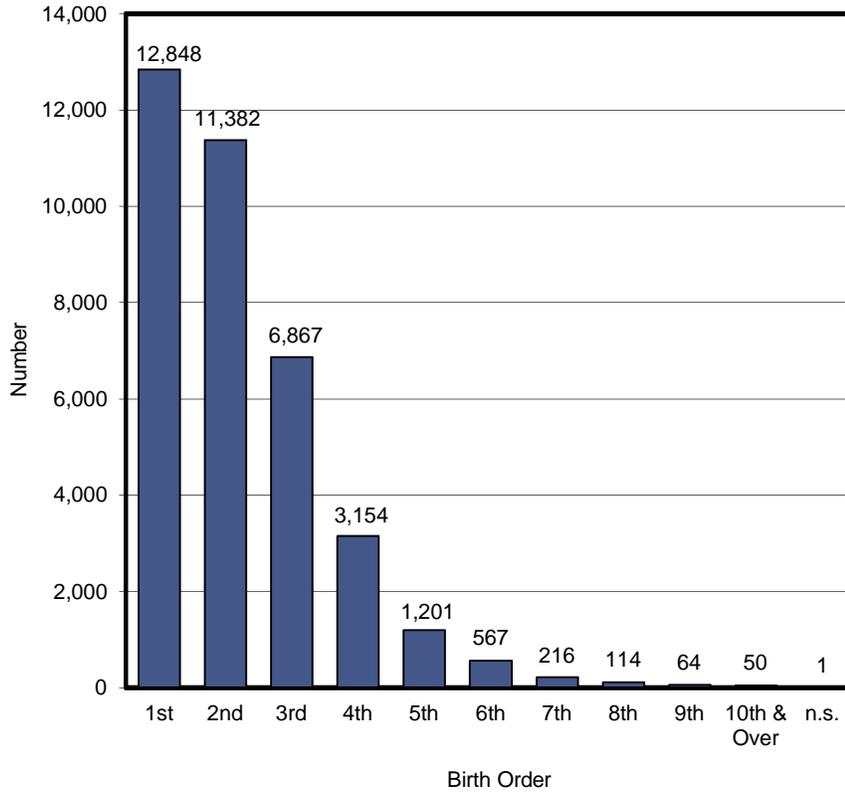
Table C4
Live Births by Age-Group of Father by Age-Group of Mother
Kansas, 2017

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..	36,464	471	13	2,053	7,984	11,496	10,003	4,159	711	44	1
Under 18...	175	105	4	157	14	0	0	0	0	0	0
10-14	2	2	0	2	0	0	0	0	0	0	0
15-19	806	227	5	605	177	15	3	1	0	0	0
20-24	4,853	67	0	789	3,322	623	92	25	2	0	0
25-29	9,168	11	1	136	2,497	5,422	958	144	9	1	0
30-34	10,002	3	0	41	647	3,362	5,175	717	59	1	0
35-39	5,681	0	0	8	177	845	2,525	1,976	145	4	1
40-44	1,880	1	0	5	56	192	574	778	269	6	0
45 & Over	847	0	0	7	34	105	203	291	176	31	0
n.s.	3,225	160	7	460	1,074	932	473	227	51	1	0

Table C5
Live Births by Age-Group of Mother by Birth Weight in Grams
Kansas, 2017

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	36,464	75	164	251	1.3	542	1,665	7.4	6,256	13,923	10,404	2,775	355	45	9
10-14	13	0	0	0	0.0	3	0	23.1	2	6	2	0	0	0	0
15-19	2,053	7	17	25	2.4	44	110	9.9	462	819	463	95	9	1	1
20-24	7,984	12	36	51	1.2	110	404	7.7	1622	3,212	2,031	452	49	5	0
25-29	11,496	32	49	72	1.3	164	493	7.0	1897	4,467	3,374	832	102	10	4
30-34	10,003	16	35	55	1.1	128	405	6.4	1490	3663	3144	936	116	15	0
35-39	4,159	5	23	43	1.7	81	199	8.4	640	1488	1197	403	66	12	2
40-44	711	3	3	4	1.4	11	46	9.4	133	257	187	51	13	1	2
45 & Over	44	0	1	1	4.5	1	8	25.0	10	11	6	5	0	1	0
n.s.	1	0	0	0	n/a	0	0	n/a	0	0	0	1	0	0	0

Live Births by Birth Order*
Kansas, 2017



* Sum of prior live births plus current birth.

Figure C4

Table C6
Live Births by Birth Order by Age-Group of Mother
Kansas, 2017

Birth Order	Total	Age-Group of Mother									n.s.
		Under 18	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	
Total	36,464	471	13	2,053	7,984	11,496	10,003	4,159	711	44	1
First	12,848	437	12	1,685	3,938	4,070	2,346	681	106	10	0
Second	11,382	34	1	322	2,685	3,711	3,339	1,147	171	6	0
Third	6,867	0	0	41	1,009	2,221	2,361	1,093	135	6	1
Fourth	3,154	0	0	2	280	970	1,150	645	99	8	0
Fifth	1,201	0	0	1	54	340	439	286	78	3	0
Sixth	567	0	0	0	11	123	216	172	43	2	0
Seventh	216	0	0	1	6	45	75	65	24	0	0
Eighth	114	0	0	0	1	10	47	36	18	2	0
Ninth	64	0	0	0	0	3	23	18	16	4	0
Tenth & Over	50	0	0	0	0	3	7	16	21	3	0
n.s.	1	0	0	1	0	0	0	0	0	0	0

Table C7
 Live Births by Population Group of Mother
 by Trimester Prenatal Care Began
 Kansas, 2017

Population Group of Mother	Total	Trimester Care Began								n.s.
		1st		2nd		3rd		None		
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	
Total	36,464	29,473	81.2	5,379	14.8	1,113	3.1	342	0.9	157
White Non-Hispanic	25,431	21,532	85.0	3,085	12.2	551	2.2	169	0.7	94
Black Non-Hispanic	2,463	1,767	72.1	516	21.0	124	5.1	45	1.8	11
Native American Non-Hispanic	168	110	65.5	44	26.2	6	3.6	8	4.8	0
Asian/Pacific Islander Non-Hispanic	1,255	997	79.8	201	16.1	40	3.2	12	1.0	5
Other/Multi-Race Non-Hispanic	1,177	887	76.3	217	18.7	50	4.3	9	0.8	14
Hispanic	5,945	4,170	70.5	1,308	22.1	339	5.7	99	1.7	29
n.s.	25	10	47.6	8	38.1	3	14.3	0	0.0	4

Table C8
Live Births by Population Group of Mother by Birth Weight in Grams
Kansas, 2017

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	36,464	75	164	251	1.3	542	1,665	7.4	6,256	13,923	10,404	2,775	355	45	9
White Non-Hispanic	25,431	34	107	165	1.2	340	1,052	6.7	3,956	9,535	7,801	2,128	275	32	6
Black Non-Hispanic	2,463	19	24	34	3.1	70	205	14.3	672	915	405	105	13	1	0
Native American Non-Hispanic	168	1	0	4	3.0	0	6	6.5	24	59	52	18	4	0	0
Asian/Pacific Islander Non-Hispanic	1,255	2	6	1	0.7	18	73	8.0	289	535	269	55	5	2	0
Other/Multi-Race Non-Hispanic	1,177	2	5	18	2.1	32	70	10.8	237	430	300	74	9	0	0
Hispanic	5,945	17	22	29	1.1	82	258	6.9	1,076	2,437	1,572	393	49	10	0
n.s.	25	0	0	0	0.0	0	1	4.5	2	12	5	2	0	0	3

Table C9
Live Births by Population Group of Mother by Final Route of Delivery
Kansas, 2017

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	36,464	24,565	227	747	70.0	3,383	7,538	1	30.0	31.0	3
White Non-Hispanic	25,431	17,050	177	524	69.8	2,351	5,328	1	30.2	30.6	0
Black Non-Hispanic	2,463	1,560	8	40	65.3	309	546	0	34.7	36.1	0
Native American Non-Hispanic	168	110	1	3	67.9	11	43	0	32.1	20.4	0
Asian/Pacific Islander Non-Hispanic	1,255	836	7	44	70.7	128	240	0	29.3	34.8	0
Other/Multi-Race Non-Hispanic	1,177	817	6	29	72.4	93	232	0	27.6	28.6	0
Hispanic	5,945	4,179	27	107	72.5	487	1,145	0	27.5	29.8	0
n.s.	25	13	1	0	63.6	4	4	0	36.4	50.0	3

Table C10
Live Births by County of Residence and Peer Group*
by Number and Rate[†]
Kansas, 2013-2017

County of Residence	Year										5-Year Rate
	2013		2014		2015		2016		2017		
	Number	Rate									
Kansas	38,805	13.4	39,193	13.5	39,126	13.4	38,048	13.1	36,464	12.5	13.2
Allen	143	10.9	157	12.2	144	11.3	137	10.8	140	11.2	11.3
Anderson	94	11.9	104	13.2	84	10.8	111	14.2	104	13.3	12.7
Atchison	191	11.4	205	12.4	208	12.7	203	12.4	174	10.7	11.9
Barber	60	12.1	63	12.9	59	12.2	56	11.9	55	12.0	12.2
Barton	350	12.7	340	12.4	362	13.4	331	12.4	284	10.7	12.3
Bourbon	218	14.7	228	15.4	211	14.3	194	13.3	180	12.2	14.0
Brown	139	13.9	119	12.1	133	13.6	112	11.6	130	13.5	12.9
Butler	751	11.4	749	11.3	744	11.1	757	11.3	763	11.4	11.3
Chase	26	9.6	30	11.1	24	9.0	32	12.0	19	7.1	9.8
Chautauqua	34	9.6	32	9.2	42	12.3	28	8.3	30	8.9	9.7
Cherokee	219	10.4	239	11.5	252	12.3	217	10.7	212	10.5	11.1
Cheyenne	27	10.0	30	11.1	39	14.6	39	14.7	30	11.2	12.3
Clark	20	9.1	18	8.4	25	11.9	24	11.6	22	11.0	10.4
Clay	113	13.4	108	13.0	89	10.7	117	14.4	91	11.4	12.6
Cloud	103	11.1	102	10.9	127	13.8	91	9.9	109	12.1	11.6
Coffey	94	11.2	87	10.3	76	9.1	95	11.3	94	11.4	10.6
Comanche	21	10.7	24	12.3	21	11.4	13	7.0	18	10.1	10.3
Cowley	456	12.6	459	12.8	445	12.4	397	11.1	415	11.7	12.1
Crawford	489	12.4	560	14.3	477	12.2	480	12.3	460	11.8	12.6
Decatur	33	11.3	36	12.4	34	11.6	31	10.9	33	11.4	11.5
Dickinson	218	11.1	222	11.4	236	12.2	225	11.8	208	11.0	11.5
Doniphan	81	10.3	63	8.0	97	12.4	74	9.7	69	8.9	9.9
Douglas	1,219	10.7	1,216	10.4	1,327	11.2	1,177	9.9	1,134	9.4	10.3
Edwards	32	10.9	39	12.9	29	9.8	31	10.6	23	8.0	10.4
Elk	27	10.2	33	12.2	21	8.1	35	13.7	24	9.6	10.8
Ellis	360	12.4	336	11.6	364	12.5	357	12.4	299	10.4	11.9
Ellsworth	52	8.1	55	8.6	65	10.2	63	10.0	58	9.2	9.2
Finney	656	17.7	690	18.6	725	19.5	655	17.8	625	16.9	18.1
Ford	681	19.6	663	19.1	649	18.8	646	19.0	589	17.1	18.7
Franklin	332	12.9	313	12.2	320	12.5	298	11.7	305	11.9	12.2
Geary	1,029	27.5	1,052	28.7	1,118	30.2	967	27.2	890	26.3	28.0
Gove	30	10.8	42	15.4	37	14.0	40	15.4	31	11.8	13.5
Graham	24	9.3	24	9.4	21	8.1	20	7.8	21	8.4	8.6
Grant	123	15.5	132	16.9	121	15.6	123	16.1	113	15.0	15.8
Gray	103	17.1	81	13.3	81	13.2	86	14.3	88	14.8	14.5
Greeley	25	19.4	19	14.6	16	12.0	15	11.6	25	20.0	15.5
Greenwood	62	9.7	66	10.4	69	11.1	67	10.9	57	9.3	10.3
Hamilton	37	14.2	43	16.5	34	13.7	37	14.6	31	11.7	14.2
Harper	83	14.2	86	14.8	80	13.8	65	11.4	64	11.4	13.1
Harvey	445	12.8	414	11.9	411	11.7	379	10.9	379	11.0	11.6
Haskell	52	12.6	49	11.9	56	13.8	55	13.7	46	11.3	12.7
Hodgeman	21	10.8	25	13.0	14	7.4	23	12.3	17	9.2	10.6
Jackson	156	11.7	171	12.6	172	12.9	169	12.7	180	13.5	12.7
Jefferson	195	10.4	177	9.4	184	9.7	202	10.7	178	9.4	9.9
Jewell	27	8.9	33	10.8	31	10.4	36	12.4	31	10.9	10.7
Johnson	7,320	12.9	7,394	12.9	7,528	13.0	7,350	12.6	7,207	12.2	12.7
Kearny	63	16.1	62	15.8	63	15.9	61	15.6	65	16.4	16.0
Kingman	90	11.5	73	9.5	98	12.7	74	9.9	72	9.8	10.7
Kiowa	39	15.5	28	11.1	37	14.4	37	14.9	32	12.9	13.8
Labette	270	12.9	264	12.6	257	12.4	293	14.3	260	12.9	13.0
Lane	23	13.4	19	11.3	13	7.8	16	9.8	15	9.6	10.4
Leavenworth	955	12.2	987	12.5	1,013	12.8	999	12.5	951	11.7	12.3
Lincoln	25	7.9	34	10.7	28	9.0	37	12.0	22	7.2	9.4
Linn	91	9.6	111	11.7	109	11.4	95	9.9	99	10.2	10.6
Logan	33	11.8	37	13.2	43	15.2	54	19.1	39	13.8	14.6

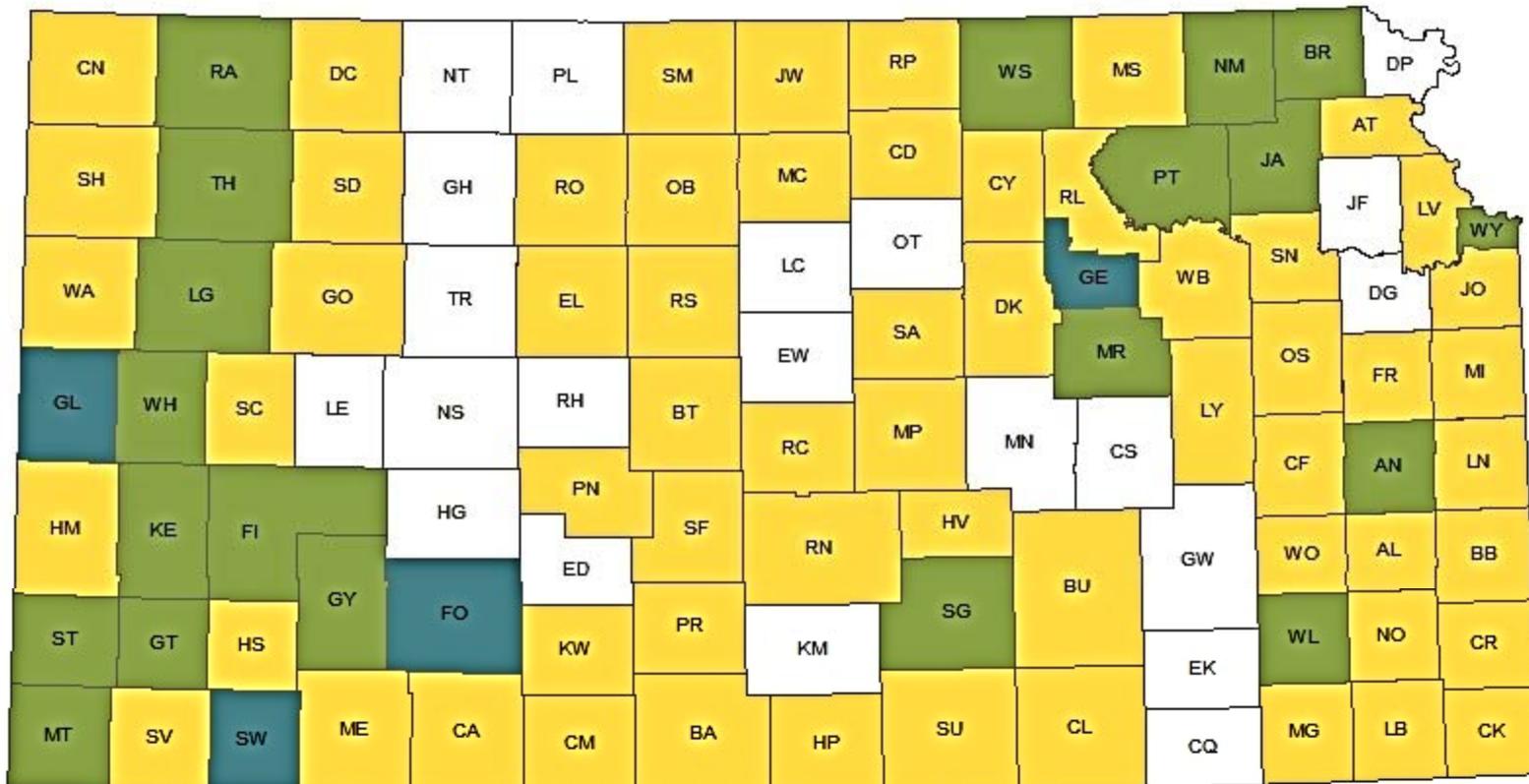
Table C10
Live Births by County of Residence and Peer Group*
by Number and Rate†
Kansas, 2013-2017

County of Residence	Year										5-Year Rate
	2013		2014		2015		2016		2017		
	Number	Rate									
Lyon	419	12.5	406	12.2	416	12.5	417	12.4	393	11.8	12.3
McPherson	320	10.8	343	11.7	336	11.6	308	10.7	324	11.3	11.2
Marion	109	8.9	130	10.6	109	9.0	118	9.7	113	9.4	9.6
Marshall	125	12.5	123	12.3	138	13.9	112	11.4	121	12.4	12.5
Meade	69	15.9	56	12.9	68	15.7	54	12.8	44	10.2	13.5
Miami	297	9.0	410	12.5	354	10.9	345	10.5	387	11.6	10.9
Mitchell	72	11.3	92	14.6	77	12.3	84	13.5	74	12.1	12.7
Montgomery	427	12.5	453	13.3	447	13.4	385	11.8	350	10.8	12.3
Morris	59	10.3	62	10.9	54	9.6	63	11.3	72	13.2	11.0
Morton	37	11.8	40	12.9	24	8.0	25	8.8	45	16.4	11.5
Nemaha	154	15.2	157	15.5	146	14.3	140	13.7	151	14.9	14.7
Neosho	204	12.4	218	13.3	189	11.6	217	13.4	196	12.2	12.6
Ness	33	10.7	38	12.2	33	11.0	37	12.5	15	5.2	10.4
Norton	51	9.1	57	10.3	61	11.0	66	12.0	50	9.2	10.3
Osage	150	9.3	174	10.9	158	10.0	183	11.6	171	10.8	10.5
Osborne	50	13.1	46	12.2	49	13.3	40	11.0	45	12.5	12.4
Ottawa	58	9.6	50	8.2	60	10.0	61	10.3	44	7.5	9.1
Pawnee	63	9.0	64	9.3	67	9.8	64	9.5	81	12.1	9.9
Phillips	65	11.7	73	13.2	50	9.2	68	12.5	49	9.1	11.2
Pottawatomie	353	15.6	345	15.1	362	15.5	394	16.7	355	14.8	15.5
Pratt	122	12.4	147	14.9	142	14.7	126	13.1	104	10.9	13.2
Rawlins	22	8.5	34	13.2	26	10.4	34	13.3	33	13.2	11.7
Reno	743	11.6	737	11.6	683	10.7	683	10.8	693	11.1	11.1
Republic	49	10.2	52	10.8	49	10.4	43	9.2	60	12.8	10.7
Rice	128	12.8	125	12.5	132	13.2	110	11.2	103	10.7	12.1
Riley	999	13.3	1,073	14.3	1,017	13.5	976	13.3	883	11.9	13.3
Rooks	60	11.6	59	11.4	58	11.2	68	13.4	52	10.3	11.6
Rush	30	9.4	21	6.6	37	11.8	40	13.1	31	10.0	10.1
Russell	94	13.6	82	11.8	74	10.5	81	11.6	73	10.6	11.6
Saline	772	13.9	752	13.5	729	13.1	662	12.0	702	12.8	13.1
Scott	61	12.1	73	14.4	51	10.3	63	12.5	57	11.5	12.2
Sedgwick	7,487	14.8	7,358	14.5	7,284	14.2	7,309	14.3	6,907	13.4	14.2
Seward	441	18.9	444	18.9	428	18.5	429	18.9	419	18.9	18.8
Shawnee	2,352	13.2	2,340	13.1	2,269	12.7	2,189	12.3	2,065	11.6	12.6
Sheridan	31	12.1	24	9.5	28	11.1	33	13.2	29	11.5	11.5
Sherman	80	13.1	82	13.4	84	14.0	73	12.2	73	12.3	13.0
Smith	28	7.6	28	7.4	50	13.5	40	11.0	43	11.7	10.2
Stafford	49	11.2	54	12.6	55	13.0	53	12.6	54	12.8	12.4
Stanton	38	17.3	26	12.3	39	18.8	25	12.1	28	13.6	14.9
Stevens	99	17.0	67	11.5	77	13.3	74	13.3	69	12.3	13.5
Sumner	272	11.5	252	10.7	290	12.3	255	11.0	262	11.3	11.4
Thomas	98	12.3	138	17.5	107	13.5	119	15.1	120	15.4	14.8
Trego	33	11.1	36	12.4	46	15.7	28	9.7	27	9.4	11.7
Wabaunsee	98	13.9	70	10.0	90	12.9	67	9.7	77	11.2	11.6
Wallace	23	14.7	16	10.6	20	13.2	23	15.4	18	11.8	13.1
Washington	79	14.0	66	11.8	86	15.4	67	12.1	76	13.9	13.4
Wichita	25	11.4	28	12.9	20	9.3	21	9.9	30	14.1	11.5
Wilson	109	12.0	109	12.1	98	11.1	114	13.1	113	13.0	12.2
Woodson	29	9.0	35	11.1	31	10.0	38	12.0	34	10.8	10.6
Wyandotte	2,678	16.7	2,785	17.2	2,763	16.9	2,694	16.4	2,539	15.4	16.5
n.s.	1	N/A	0	N/A	2	N/A	4	N/A	0	N/A	N/A
Peer Group											
Frontier	1,297	11.5	1,325	11.9	1,337	12.1	1,326	12.2	1,207	11.2	11.8
Rural	2,859	12.1	2,879	12.3	2,818	12.1	2,765	11.9	2,709	11.8	12.0
Densely -Settled Rural	6,353	13.3	6,396	13.5	6,485	13.7	6,303	13.4	5,933	12.7	13.3
Semi-Urban	6,284	13.5	6,513	14.0	6,300	13.6	5,932	12.9	5,812	12.7	13.3
Urban	22,011	13.7	22,080	13.6	22,184	13.6	21,718	13.3	20,803	12.6	13.4

* See Technical Notes for Peer Group definition.

† Rate per 1,000 population.

Birth Rate By County of Residence Kansas, 2017



Live Births per 1,000 population

State Rate 12.5

Legend



Figure C5

Table C11
Live Births by County of Residence and Peer Group*
by Age-Group of Mother
Kansas, 2017

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	36,464	13	2,053	7,984	11,496	10,003	4,159	711	44	1
Allen	140	0	12	37	64	21	6	0	0	0
Anderson	104	0	7	24	37	21	12	3	0	0
Atchison	174	0	12	50	54	38	19	1	0	0
Barber	55	0	2	13	24	10	5	1	0	0
Barton	284	0	22	72	103	56	28	3	0	0
Bourbon	180	0	15	56	68	28	12	1	0	0
Brown	130	0	14	31	46	36	3	0	0	0
Butler	763	0	50	146	257	223	80	6	1	0
Chase	19	0	0	7	3	6	1	2	0	0
Chautauqua	30	0	2	8	13	5	2	0	0	0
Cherokee	212	0	18	83	52	40	17	2	0	0
Cheyenne	30	0	0	7	14	6	3	0	0	0
Clark	22	0	1	3	8	3	5	2	0	0
Clay	91	0	3	20	30	31	7	0	0	0
Cloud	109	0	10	38	38	14	9	0	0	0
Coffey	94	0	5	17	44	22	5	1	0	0
Comanche	18	0	1	5	5	6	1	0	0	0
Cowley	415	0	34	129	139	82	25	6	0	0
Crawford.	460	0	27	126	150	101	45	11	0	0
Decatur	33	0	2	10	9	10	2	0	0	0
Dickinson	208	0	8	53	68	57	20	2	0	0
Doniphan	69	0	1	19	26	17	6	0	0	0
Douglas	1,134	0	50	176	336	359	189	22	2	0
Edwards	23	0	1	8	4	6	2	2	0	0
Elk	24	0	1	8	5	9	1	0	0	0
Ellis	299	0	17	61	103	89	28	1	0	0
Ellsworth	58	0	2	14	21	17	3	1	0	0
Finney	625	3	48	177	188	129	69	9	2	0
Ford	589	0	63	160	165	136	53	12	0	0
Franklin	305	0	29	82	106	57	26	5	0	0
Geary	890	0	63	293	295	166	64	9	0	0
Gove	31	0	0	6	14	7	3	1	0	0
Graham	21	0	0	11	5	4	1	0	0	0
Grant	113	0	9	23	45	24	10	2	0	0
Gray	88	0	2	17	33	21	14	1	0	0
Greeley	25	0	3	6	5	7	3	1	0	0
Greenwood	57	0	4	23	8	16	6	0	0	0
Hamilton	31	0	1	13	9	5	2	1	0	0
Harper	64	0	8	16	20	16	3	1	0	0
Harvey	379	0	32	75	141	87	37	7	0	0
Haskell	46	0	2	17	11	11	4	1	0	0
Hodgeman	17	0	0	5	7	5	0	0	0	0
Jackson	180	0	14	52	63	32	17	2	0	0
Jefferson	178	0	12	43	68	39	15	1	0	0
Jewell	31	0	0	6	12	9	4	0	0	0
Johnson	7,207	0	134	754	1,990	2,830	1,283	202	14	0
Kearny	65	0	2	14	29	12	7	1	0	0
Kingman	72	0	2	20	25	13	9	3	0	0
Kiowa	32	0	2	4	17	9	0	0	0	0
Labette	260	0	21	74	89	58	14	4	0	0
Lane	15	0	0	2	9	4	0	0	0	0
Leavenworth	951	0	47	203	280	295	105	21	0	0
Lincoln	22	0	0	6	7	6	3	0	0	0
Linn	99	0	6	24	36	22	9	2	0	0
Logan	39	0	1	14	13	8	3	0	0	0

Table C11
Live Births by County of Residence and Peer Group*
by Age-Group of Mother
Kansas, 2017

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	393	0	25	109	123	88	40	7	1	0
McPherson	324	0	10	77	119	91	22	4	1	0
Marion	113	0	5	28	36	31	10	3	0	0
Marshall	121	0	1	28	43	35	10	3	1	0
Meade	44	0	1	11	10	13	8	1	0	0
Miami	387	0	30	87	124	101	38	6	1	0
Mitchell	74	0	2	11	27	22	8	4	0	0
Montgomery	350	0	22	112	122	70	21	3	0	0
Morris	72	0	3	17	24	19	7	2	0	0
Morton	45	1	5	10	13	13	3	0	0	0
Nemaha	151	0	7	26	64	40	9	5	0	0
Neosho	196	0	16	74	46	43	15	1	1	0
Ness	15	0	0	6	4	3	2	0	0	0
Norton	50	0	2	19	23	3	3	0	0	0
Osage	171	0	11	42	57	43	14	4	0	0
Osborne	45	0	2	9	14	15	4	1	0	0
Ottawa	44	0	0	6	17	16	3	2	0	0
Pawnee	81	0	6	22	25	21	6	1	0	0
Phillips	49	0	1	10	15	18	4	1	0	0
Pottawatomie	355	0	8	46	127	114	46	12	2	0
Pratt	104	0	7	25	37	24	11	0	0	0
Rawlins	33	0	1	9	10	8	4	0	1	0
Reno	693	0	54	173	242	151	59	12	2	0
Republic	60	0	2	17	21	17	2	1	0	0
Rice	103	0	9	29	34	23	8	0	0	0
Riley	883	0	44	216	267	257	81	16	2	0
Rooks	52	0	4	8	19	13	8	0	0	0
Rush	31	0	1	8	11	8	3	0	0	0
Russell	73	0	3	17	24	23	4	2	0	0
Saline	702	0	41	174	240	179	57	11	0	0
Scott	57	0	2	15	20	17	3	0	0	0
Sedgwick	6,907	5	474	1,611	2,197	1,720	743	148	8	1
Seward	419	0	36	134	122	80	41	6	0	0
Shawnee	2,065	0	133	512	638	526	218	37	1	0
Sheridan	29	0	2	2	13	7	4	1	0	0
Sherman	73	0	4	17	24	19	9	0	0	0
Smith	43	0	3	7	17	10	5	1	0	0
Stafford	54	0	1	12	27	9	4	1	0	0
Stanton	28	0	2	8	6	9	2	1	0	0
Stevens	69	0	3	19	23	13	10	1	0	0
Sumner	262	0	14	73	96	62	15	1	1	0
Thomas	120	0	6	27	47	30	9	1	0	0
Trego	27	0	3	7	7	8	2	0	0	0
Wabaunsee	77	0	3	17	22	24	10	1	0	0
Wallace	18	0	0	3	10	3	1	1	0	0
Washington	76	0	1	12	26	25	11	1	0	0
Wichita	30	0	1	4	19	6	0	0	0	0
Wilson	113	0	9	33	33	27	7	4	0	0
Woodson	34	0	4	11	7	9	2	1	0	0
Wyandotte	2,539	4	207	673	793	556	253	50	3	0
n.s.	0	0	0	0	0	0	0	0	0	0
Peer Group										
Frontier	1,207	1	53	300	424	297	113	18	1	0
Rural	2,709	0	146	650	954	685	225	48	1	0
Densely -Settled										
Rural	5,933	3	417	1,621	1,940	1,343	522	79	8	0
Semi-Urban	5,812	0	392	1,484	1,944	1,392	508	86	6	0
Urban	20,803	9	1,045	3,929	6,234	6,286	2,791	480	28	1

Table C12
Live Births by County of Residence and Peer Group*
By Weeks Gestation
Kansas, 2017

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	36,464	25	37	189	331	1,498	1,412	9,345	14,406	9,104	93	24	9.6
Allen	140	0	0	0	1	4	5	41	54	34	1	0	7.1
Anderson	104	0	0	1	0	9	1	26	41	26	0	0	10.6
Atchison	174	0	0	0	0	7	6	43	73	44	1	0	7.5
Barber	55	0	0	0	2	0	3	12	24	14	0	0	9.1
Barton	284	0	0	1	2	10	6	85	131	49	0	0	6.7
Bourbon	180	0	0	1	2	2	10	54	82	28	1	0	8.3
Brown	130	0	2	1	0	2	4	34	51	36	0	0	6.9
Butler	763	0	1	6	7	35	24	198	304	185	2	1	9.6
Chase	19	0	0	0	0	0	1	6	8	4	0	0	5.3
Chautauqua	30	0	0	0	0	2	2	14	6	6	0	0	13.3
Cherokee	212	0	0	1	2	12	12	56	91	38	0	0	12.7
Cheyenne	30	0	0	0	0	0	4	7	12	6	1	0	13.3
Clark	22	0	0	0	0	0	0	5	9	8	0	0	0.0
Clay	91	0	0	0	1	1	3	21	47	18	0	0	5.5
Cloud	109	0	0	0	1	2	6	33	36	29	2	0	8.3
Coffey	94	0	0	0	1	5	3	19	45	21	0	0	9.6
Comanche	18	0	0	0	0	0	2	4	6	6	0	0	11.1
Cowley	415	1	2	4	3	27	22	130	141	83	2	0	14.2
Crawford	460	0	1	5	1	27	12	160	174	79	1	0	10.0
Decatur	33	0	0	0	0	0	1	5	18	9	0	0	3.0
Dickinson	208	0	2	0	2	9	7	50	96	42	0	0	9.6
Doniphan	69	0	0	2	0	1	1	14	26	25	0	0	5.8
Douglas	1,134	2	0	2	16	39	59	265	466	281	3	1	10.4
Edwards	23	0	0	0	0	1	0	5	14	3	0	0	4.3
Elk	24	0	0	0	0	2	1	4	11	6	0	0	12.5
Ellis	299	0	0	0	6	11	9	74	123	76	0	0	8.7
Ellsworth	58	0	1	0	0	0	2	20	24	10	1	0	5.2
Finney	625	0	1	3	1	30	21	157	265	145	2	0	9.0
Ford	589	0	0	2	3	21	10	122	328	99	4	0	6.1
Franklin	305	0	0	1	4	11	7	64	129	89	0	0	7.5
Geary	890	0	1	8	8	39	32	231	326	242	3	0	9.9
Gove	31	0	0	0	1	0	2	10	11	7	0	0	9.7
Graham	21	0	0	0	0	1	0	9	6	5	0	0	4.8
Grant	113	0	0	0	0	3	3	30	53	24	0	0	5.3
Gray	88	0	0	0	0	3	2	17	48	18	0	0	5.7
Greeley	25	0	0	1	0	0	1	4	10	9	0	0	8.0
Greenwood	57	0	0	0	0	1	2	17	27	10	0	0	5.3
Hamilton	31	0	0	1	0	1	0	8	13	8	0	0	6.5
Harper	64	0	0	0	0	2	4	16	26	16	0	0	9.4
Harvey	379	0	1	1	4	22	8	116	143	84	0	0	9.5
Haskell	46	0	0	0	0	4	1	9	22	10	0	0	10.9
Hodgeman	17	0	0	0	0	0	1	4	9	3	0	0	5.9
Jackson	180	0	0	0	2	8	7	46	73	43	0	1	9.5
Jefferson	178	0	0	1	3	7	7	43	71	46	0	0	10.1
Jewell	31	0	0	0	0	3	0	10	9	9	0	0	9.7
Johnson	7,207	3	6	22	51	277	284	1,726	2,713	2,106	13	6	8.9
Kearny	65	0	0	0	5	1	0	16	28	15	0	0	9.2
Kingman	72	0	0	0	0	3	1	21	34	13	0	0	5.6
Kiowa	32	0	0	0	0	2	0	8	12	10	0	0	6.3
Labette	260	0	0	0	1	6	11	58	119	63	0	2	7.0
Lane	15	0	0	0	0	0	0	6	4	5	0	0	0.0
Leavenworth	951	1	2	2	3	31	41	278	363	228	2	0	8.4
Lincoln	22	0	0	0	0	0	1	7	7	6	0	1	4.8
Linn	99	0	0	0	0	0	4	30	49	16	0	0	4.0
Logan	39	0	0	0	3	0	3	9	14	10	0	0	15.4

Table C12
Live Births by County of Residence and Peer Group*
By Weeks Gestation
Kansas, 2017

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	393	0	0	1	4	19	10	108	147	101	2	1	8.7
McPherson	324	0	0	1	2	12	19	72	130	87	1	0	10.5
Marion	113	0	0	0	0	4	1	29	50	29	0	0	4.4
Marshall	121	0	1	0	0	1	3	28	57	31	0	0	4.1
Meade	44	0	0	1	0	2	0	8	22	11	0	0	6.8
Miami	387	0	0	0	4	7	12	99	165	99	1	0	5.9
Mitchell	74	1	0	0	0	0	1	19	30	23	0	0	2.7
Montgomery	350	0	0	3	4	5	15	91	152	78	1	1	7.7
Morris	72	0	0	0	0	2	3	20	31	16	0	0	6.9
Morton	45	0	0	0	0	5	1	15	15	9	0	0	13.3
Nemaha	151	0	0	2	0	4	4	24	74	42	1	0	6.6
Neosho	196	0	0	1	3	9	8	51	79	42	2	1	10.8
Ness	15	0	0	0	0	0	0	4	6	5	0	0	0.0
Norton	50	0	0	0	0	0	0	13	22	13	2	0	0.0
Osage	171	0	0	0	2	7	3	31	93	34	0	1	7.1
Osborne	45	0	0	0	0	1	4	12	19	9	0	0	11.1
Ottawa	44	0	0	0	0	1	2	12	19	10	0	0	6.8
Pawnee	81	0	0	0	2	8	2	19	33	16	1	0	14.8
Phillips	49	0	0	0	0	1	1	10	20	16	1	0	4.1
Pottawatomie	355	0	0	2	5	15	8	76	135	114	0	0	8.5
Pratt	104	0	0	2	2	2	0	23	39	34	2	0	5.8
Rawlins	33	0	0	0	3	0	1	11	11	7	0	0	12.1
Reno	693	1	2	4	5	32	27	195	274	149	3	1	10.3
Republic	60	0	0	0	0	0	1	10	26	23	0	0	1.7
Rice	103	1	0	0	1	7	4	26	37	26	1	0	12.6
Riley	883	2	0	2	8	37	30	208	347	243	6	0	8.9
Rooks	52	0	0	1	0	0	2	16	22	11	0	0	5.8
Rush	31	0	0	0	0	3	1	9	11	7	0	0	12.9
Russell	73	0	0	0	0	4	2	17	35	15	0	0	8.2
Saline	702	0	0	13	6	23	39	148	265	204	4	0	11.5
Scott	57	0	0	0	1	3	1	16	25	11	0	0	8.8
Sedgwick	6,907	9	7	58	74	337	298	1,858	2,637	1,613	16	0	11.3
Seward	419	0	0	3	3	16	13	122	158	96	3	5	8.5
Shawnee	2,065	4	5	14	25	93	82	553	846	437	5	1	10.8
Sheridan	29	0	0	0	1	1	2	8	11	6	0	0	13.8
Sherman	73	0	0	0	0	3	6	21	21	22	0	0	12.3
Smith	43	0	0	0	0	2	1	11	17	12	0	0	7.0
Stafford	54	0	0	0	0	1	5	7	29	12	0	0	11.1
Stanton	28	0	0	0	0	3	1	6	14	4	0	0	14.3
Stevens	69	0	0	0	0	1	4	20	25	19	0	0	7.2
Sumner	262	0	0	0	3	8	19	61	122	49	0	0	11.5
Thomas	120	0	0	0	0	6	4	30	52	28	0	0	8.3
Trego	27	0	0	0	0	1	0	9	9	8	0	0	3.7
Wabaunsee	77	0	0	0	1	0	1	17	33	25	0	0	2.6
Wallace	18	0	0	0	0	0	1	2	7	8	0	0	5.6
Washington	76	0	0	0	1	3	2	25	26	19	0	0	7.9
Wichita	30	0	0	1	2	0	0	11	9	7	0	0	10.0
Wilson	113	0	0	2	2	2	4	28	58	17	0	0	8.8
Woodson	34	0	0	0	0	1	0	9	18	5	0	1	3.0
Wyandotte	2,539	0	2	12	31	122	105	670	898	697	2	0	10.7
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Peer Group													
Frontier	1,207	0	0	5	17	36	49	320	481	297	1	1	8.9
Rural	2,709	2	4	8	13	84	74	671	1,186	655	11	1	6.8
Densely - Settled Rural	5,933	1	5	23	50	241	214	1,494	2,537	1,338	19	11	9.0
Semi-Urban	5,812	3	6	43	51	238	206	1,510	2,279	1,452	21	3	9.4
Urban	20,803	19	22	110	200	899	869	5,350	7,923	5,362	41	8	10.2

Table C13
Live Births by County of Residence and Peer Group*
by Month Prenatal Care Began
Kansas, 2017

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	36,464	982	14,109	14,382	81.2	3,190	1,413	776	537	375	201	342	157
Allen	140	3	44	63	78.6	14	10	4	0	1	0	1	0
Anderson	104	2	37	45	80.8	11	7	1	1	0	0	0	0
Atchison	174	7	61	66	77.0	20	10	5	2	2	1	0	0
Barber	55	0	21	23	81.5	6	2	1	0	0	1	0	1
Barton	284	10	80	130	77.5	29	12	6	7	3	5	2	0
Bourbon	180	3	75	60	77.1	10	12	5	4	7	2	1	1
Brown	130	4	37	62	79.2	17	6	1	1	2	0	0	0
Butler	763	9	362	269	84.1	62	16	13	15	5	2	8	2
Chase	19	0	7	6	68.4	3	2	1	0	0	0	0	0
Chautauqua	30	4	11	8	76.7	4	0	0	1	1	1	0	0
Cherokee	212	6	68	93	78.8	25	10	2	7	0	0	1	0
Cheyenne	30	3	9	11	76.7	5	1	0	0	1	0	0	0
Clark	22	1	8	8	77.3	3	1	0	0	1	0	0	0
Clay	91	1	18	50	75.8	9	1	2	4	4	1	1	0
Cloud	109	0	39	54	85.3	8	2	4	0	2	0	0	0
Coffey	94	1	41	34	80.9	10	4	1	1	1	1	0	0
Comanche	18	0	0	17	94.4	1	0	0	0	0	0	0	0
Cowley	415	12	199	103	75.8	42	21	8	12	7	5	5	1
Crawford	460	20	158	166	75.3	64	20	13	7	3	3	3	3
Decatur	33	1	12	16	87.9	3	0	1	0	0	0	0	0
Dickinson	208	4	81	88	84.4	14	7	3	3	3	2	0	3
Doniphan	69	6	30	20	82.4	5	4	2	1	0	0	0	1
Douglas	1,134	17	392	488	79.2	124	50	23	15	12	8	3	2
Edwards	23	1	4	12	77.3	2	1	0	0	1	0	1	1
Elk	24	0	12	9	87.5	2	1	0	0	0	0	0	0
Ellis	299	1	48	215	88.6	15	7	3	5	2	1	1	1
Ellsworth	58	0	21	29	86.2	6	0	1	1	0	0	0	0
Finney	625	25	135	216	60.6	105	60	28	15	12	13	11	5
Ford	589	58	173	159	66.4	73	44	27	11	11	7	24	2
Franklin	305	12	131	98	79.8	22	17	11	6	0	1	4	3
Geary	890	21	271	387	76.4	78	40	28	12	29	17	6	1
Gove	31	0	10	16	83.9	3	1	0	1	0	0	0	0
Graham	21	1	6	9	76.2	1	1	1	1	1	0	0	0
Grant	113	2	26	41	61.1	18	9	3	6	4	3	1	0
Gray	88	2	35	33	80.5	9	4	3	1	0	0	0	1
Greeley	25	0	5	10	62.5	4	0	1	1	2	1	0	1
Greenwood	57	1	22	23	80.7	4	2	2	0	1	1	1	0
Hamilton	31	0	7	13	64.5	4	1	1	4	1	0	0	0
Harper	64	3	40	13	87.5	4	0	1	1	0	1	1	0
Harvey	379	4	116	199	84.2	38	12	8	1	0	1	0	0
Haskell	46	1	14	15	65.2	10	4	0	1	0	1	0	0
Hodgeman	17	3	3	10	94.1	0	0	0	0	0	0	1	0
Jackson	180	5	28	99	73.3	21	7	6	2	5	1	6	0
Jefferson	178	2	41	107	85.2	18	5	2	0	0	1	0	2
Jewell	31	2	9	14	80.6	5	0	0	0	0	1	0	0
Johnson	7,207	270	3,286	2,764	88.2	506	173	68	36	27	7	32	38
Kearny	65	1	13	24	58.5	17	3	2	2	1	2	0	0
Kingman	72	0	30	31	84.7	6	2	2	0	1	0	0	0
Kiowa	32	0	4	20	75.0	4	2	0	2	0	0	0	0
Labette	260	10	106	62	69.3	23	17	14	9	8	3	5	3
Lane	15	0	5	7	80.0	3	0	0	0	0	0	0	0
Leavenworth	951	16	406	381	84.4	61	27	19	15	4	6	16	0
Lincoln	22	0	13	8	95.5	0	0	0	1	0	0	0	0
Linn	99	4	36	29	69.7	15	7	4	2	0	0	2	0
Logan	39	2	14	12	71.8	4	4	1	1	0	0	1	0

Table C13
 Live Births by County of Residence and Peer Group*
 by Month Prenatal Care Began
 Kansas, 2017

County of Residence	Total	Month Care Began											n.s.
		1st	2nd	3rd	% Care in 1st Trimester	4th	5th	6th	7th	8th	9th or Later	None	
Lyon	393	12	204	106	82.4	27	19	9	6	3	4	1	2
McPherson	324	9	119	136	81.7	19	12	8	11	4	2	3	1
Marion	113	1	29	65	84.8	8	3	4	2	0	0	0	1
Marshall	121	2	37	56	78.5	15	5	3	2	1	0	0	0
Meade	44	1	20	12	75.0	6	2	1	1	0	0	1	0
Miami	387	15	165	147	84.7	27	13	6	5	2	2	4	1
Mitchell	74	1	25	41	90.5	7	0	0	0	0	0	0	0
Montgomery	350	19	129	109	75.1	39	15	9	7	8	4	3	8
Morris	72	2	19	41	86.1	6	3	1	0	0	0	0	0
Morton	45	3	16	12	68.9	4	4	2	2	1	0	1	0
Nemaha	151	3	41	84	84.8	9	7	2	3	2	0	0	0
Neosho	196	11	63	83	81.8	7	11	5	6	3	1	2	4
Ness	15	0	6	6	80.0	2	1	0	0	0	0	0	0
Norton	50	0	13	28	82.0	3	0	3	0	2	1	0	0
Osage	171	4	36	93	78.2	20	7	4	1	2	1	2	1
Osborne	45	1	14	24	86.7	4	0	0	0	1	1	0	0
Ottawa	44	0	15	27	97.7	0	1	0	0	0	0	0	1
Pawnee	81	1	16	46	77.8	4	3	1	4	3	1	2	0
Phillips	49	0	11	28	79.6	4	3	1	2	0	0	0	0
Pottawatomie	355	7	62	212	79.6	32	18	4	5	5	3	5	2
Pratt	104	0	15	68	79.8	12	7	2	0	0	0	0	0
Rawlins	33	0	9	18	81.8	2	1	1	1	0	1	0	0
Reno	693	16	327	196	77.9	59	42	13	17	12	4	6	1
Republic	60	2	22	26	83.3	5	2	1	2	0	0	0	0
Rice	103	1	42	38	78.6	6	5	6	1	2	0	2	0
Riley	883	15	217	473	80.0	56	35	28	17	21	13	6	2
Rooks	52	0	7	34	78.8	8	1	1	0	0	1	0	0
Rush	31	1	6	17	77.4	2	2	0	1	2	0	0	0
Russell	73	1	7	55	86.3	5	3	2	0	0	0	0	0
Saline	702	6	289	290	84.1	48	29	17	6	6	2	3	6
Scott	57	2	16	24	77.8	4	1	4	1	1	0	1	3
Sedgwick	6,907	128	3,536	2,113	83.7	518	223	127	90	59	30	75	8
Seward	419	6	147	115	65.2	48	40	19	17	8	5	6	8
Shawnee	2,065	46	331	1,253	79.2	196	74	52	42	24	8	31	8
Sheridan	29	0	8	16	82.8	4	0	0	1	0	0	0	0
Sherman	73	7	29	20	78.9	4	3	1	4	1	2	0	2
Smith	43	0	13	24	86.0	3	1	1	0	0	0	1	0
Stafford	54	1	17	28	85.2	2	3	1	0	1	1	0	0
Stanton	28	1	8	12	75.0	5	2	0	0	0	0	0	0
Stevens	69	0	27	18	67.2	9	3	6	2	1	0	1	2
Sumner	262	4	131	92	86.6	13	9	7	2	2	1	1	0
Thomas	120	4	37	59	84.0	10	3	2	2	1	1	0	1
Trego	27	1	7	18	96.3	0	0	0	1	0	0	0	0
Wabaunsee	77	1	6	54	79.2	8	3	2	3	0	0	0	0
Wallace	18	0	6	5	64.7	3	1	0	0	0	2	0	1
Washington	76	3	21	38	82.7	8	1	2	2	0	0	0	1
Wichita	30	1	10	13	80.0	3	1	1	1	0	0	0	0
Wilson	113	2	42	50	83.2	11	7	0	1	0	0	0	0
Woodson	34	3	12	13	82.4	2	1	1	0	1	0	1	0
Wyandotte	2,539	77	864	901	73.2	323	134	84	48	31	10	46	21
n.s.	0	0	0	0	n/a	0	0	0	0	0	0	0	0
Peer Group													
Frontier	1,207	37	371	535	78.5	130	44	20	26	16	15	7	6
Rural	2,709	49	827	1,295	80.4	259	107	66	46	28	10	12	10
Densely -Settled Rural	5,933	205	1,931	2,318	75.5	580	342	171	126	88	58	77	37
Semi-Urban	5,812	137	2,165	2,334	80.1	493	239	146	93	86	49	43	27
Urban	20,803	554	8,815	7,900	83.3	1,728	681	373	246	157	69	203	77

Table C14
Live Births by County of Residence and Peer Group*
by Adequacy of Prenatal Care Utilization (APNCU) Index†
Kansas, 2017

County of Residence	Live Births	APNCU Category [‡]								n.s.
		Adequate Plus		Adequate		Intermediate		Inadequate		
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	
Kansas	36,464	11,380	31.4	18,906	52.1	2,149	5.9	3,864	10.6	165
Allen	140	57	40.7	58	41.4	7	5.0	18	12.9	0
Anderson	104	41	39.4	50	48.1	4	3.8	9	8.7	0
Atchison	174	50	28.7	89	51.1	13	7.5	22	12.6	0
Barber	55	10	18.5	35	64.8	4	7.4	5	9.3	1
Barton	284	124	43.7	106	37.3	18	6.3	36	12.7	0
Bourbon	180	88	48.9	57	31.7	3	1.7	32	17.8	0
Brown	130	35	26.9	73	56.2	11	8.5	11	8.5	0
Butler	763	166	21.8	506	66.5	27	3.5	62	8.1	2
Chase	19	9	47.4	7	36.8	0	0.0	3	15.8	0
Chautauqua	30	19	63.3	7	23.3	1	3.3	3	10.0	0
Cherokee	212	74	34.9	99	46.7	15	7.1	24	11.3	0
Cheyenne	30	7	23.3	16	53.3	5	16.7	2	6.7	0
Clark	22	2	9.1	16	72.7	2	9.1	2	9.1	0
Clay	91	29	31.9	42	46.2	7	7.7	13	14.3	0
Cloud	109	23	21.1	68	62.4	7	6.4	11	10.1	0
Coffey	94	37	39.4	46	48.9	2	2.1	9	9.6	0
Comanche	18	6	33.3	10	55.6	2	11.1	0	0.0	0
Cowley	415	184	44.3	150	36.1	21	5.1	60	14.5	0
Crawford	460	170	37.1	201	43.9	32	7.0	55	12.0	2
Decatur	33	6	18.2	23	69.7	3	9.1	1	3.0	0
Dickinson	208	68	33.2	109	53.2	9	4.4	19	9.3	3
Doniphan	69	23	33.8	35	51.5	3	4.4	7	10.3	1
Douglas	1,134	488	43.1	490	43.3	36	3.2	118	10.4	2
Edwards	23	6	26.1	12	52.2	0	0.0	5	21.7	0
Elk	24	5	20.8	18	75.0	0	0.0	1	4.2	0
Ellis	299	79	26.5	187	62.8	12	4.0	20	6.7	1
Ellsworth	58	15	25.9	35	60.3	6	10.3	2	3.4	0
Finney	625	161	26.0	255	41.2	55	8.9	148	23.9	6
Ford	589	88	15.0	278	47.4	93	15.8	128	21.8	2
Franklin	305	92	30.5	160	53.0	11	3.6	39	12.9	3
Geary	890	219	24.8	406	46.0	126	14.3	132	14.9	7
Gove	31	8	25.8	18	58.1	3	9.7	2	6.5	0
Graham	21	4	19.0	10	47.6	3	14.3	4	19.0	0
Grant	113	19	16.8	54	47.8	12	10.6	28	24.8	0
Gray	88	20	23.0	49	56.3	10	11.5	8	9.2	1
Greeley	25	6	24.0	9	36.0	3	12.0	7	28.0	0
Greenwood	57	21	36.8	28	49.1	0	0.0	8	14.0	0
Hamilton	31	7	22.6	11	35.5	5	16.1	8	25.8	0
Harper	64	6	9.4	51	79.7	3	4.7	4	6.3	0
Harvey	379	159	42.0	184	48.5	12	3.2	24	6.3	0
Haskell	46	8	17.4	30	65.2	2	4.3	6	13.0	0
Hodgeman	17	2	11.8	11	64.7	3	17.6	1	5.9	0
Jackson	180	62	34.4	83	46.1	6	3.3	29	16.1	0
Jefferson	178	76	43.4	90	51.4	2	1.1	7	4.0	3
Jewell	31	10	32.3	15	48.4	5	16.1	1	3.2	0
Johnson	7,207	2,893	40.4	3,543	49.5	360	5.0	361	5.0	50
Kearny	65	18	27.7	32	49.2	5	7.7	10	15.4	0
Kingman	72	14	19.4	49	68.1	3	4.2	6	8.3	0
Kiowa	32	7	21.9	21	65.6	0	0.0	4	12.5	0
Labette	260	65	25.4	115	44.9	19	7.4	57	22.3	4
Lane	15	6	40.0	7	46.7	1	6.7	1	6.7	0
Leavenworth	951	308	32.4	514	54.1	40	4.2	88	9.3	1
Lincoln	22	4	18.2	15	68.2	2	9.1	1	4.5	0
Linn	99	39	39.4	44	44.4	1	1.0	15	15.2	0
Logan	39	7	17.9	23	59.0	2	5.1	7	17.9	0

Table C14
 Live Births by County of Residence and Peer Group*
 by Adequacy of Prenatal Care Utilization (APNCU) Index†
 Kansas, 2017

County of Residence	Live Births	APNCU Category‡								n.s.
		Adequate Plus		Adequate		Intermediate		Inadequate		
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	
Lyon	393	234	59.8	101	25.8	12	3.1	44	11.3	2
McPherson	324	115	35.6	148	45.8	20	6.2	40	12.4	1
Marion	113	49	43.8	51	45.5	3	2.7	9	8.0	1
Marshall	121	23	19.0	76	62.8	11	9.1	11	9.1	0
Meade	44	12	27.3	23	52.3	4	9.1	5	11.4	0
Miami	387	147	38.1	199	51.6	8	2.1	32	8.3	1
Mitchell	74	13	17.8	53	72.6	7	9.6	0	0.0	1
Montgomery	350	133	38.7	145	42.2	14	4.1	52	15.1	6
Morris	72	22	30.6	45	62.5	1	1.4	4	5.6	0
Morton	45	12	26.7	19	42.2	3	6.7	11	24.4	0
Nemaha	151	35	23.2	95	62.9	6	4.0	15	9.9	0
Neosho	196	65	34.0	92	48.2	6	3.1	28	14.7	5
Ness	15	3	20.0	10	66.7	1	6.7	1	6.7	0
Norton	50	7	14.0	28	56.0	9	18.0	6	12.0	0
Osage	171	76	44.7	65	38.2	10	5.9	19	11.2	1
Osborne	45	10	22.2	27	60.0	6	13.3	2	4.4	0
Ottawa	44	12	27.9	26	60.5	4	9.3	1	2.3	1
Pawnee	81	30	37.0	30	37.0	7	8.6	14	17.3	0
Phillips	49	4	8.2	28	57.1	11	22.4	6	12.2	0
Pottawatomie	355	108	30.6	182	51.6	20	5.7	43	12.2	2
Pratt	104	20	19.2	67	64.4	6	5.8	11	10.6	0
Rawlins	33	14	42.4	13	39.4	2	6.1	4	12.1	0
Reno	693	319	46.1	241	34.8	36	5.2	96	13.9	1
Republic	60	12	20.0	35	58.3	8	13.3	5	8.3	0
Rice	103	43	41.7	36	35.0	7	6.8	17	16.5	0
Riley	883	235	26.7	452	51.4	68	7.7	125	14.2	3
Rooks	52	10	19.2	36	69.2	3	5.8	3	5.8	0
Rush	31	7	22.6	16	51.6	3	9.7	5	16.1	0
Russell	73	19	26.0	46	63.0	2	2.7	6	8.2	0
Saline	702	186	26.7	396	56.9	48	6.9	66	9.5	6
Scott	57	12	22.2	30	55.6	4	7.4	8	14.8	3
Sedgwick	6,907	1,189	17.2	4,795	69.5	268	3.9	649	9.4	6
Seward	419	121	29.4	164	39.9	26	6.3	100	24.3	8
Shawnee	2,065	840	40.9	886	43.1	81	3.9	248	12.1	10
Sheridan	29	6	20.7	21	72.4	1	3.4	1	3.4	0
Sherman	73	19	26.8	26	36.6	13	18.3	13	18.3	2
Smith	43	12	27.9	21	48.8	7	16.3	3	7.0	0
Stafford	54	19	35.2	26	48.1	3	5.6	6	11.1	0
Stanton	28	8	28.6	17	60.7	1	3.6	2	7.1	0
Stevens	69	25	37.3	29	43.3	0	0.0	13	19.4	2
Sumner	262	56	21.4	176	67.2	7	2.7	23	8.8	0
Thomas	120	30	25.4	65	55.1	10	8.5	13	11.0	2
Trego	27	3	11.1	21	77.8	1	3.7	2	7.4	0
Wabaunsee	77	23	29.9	45	58.4	1	1.3	8	10.4	0
Wallace	18	3	17.6	9	52.9	2	11.8	3	17.6	1
Washington	76	22	29.3	43	57.3	5	6.7	5	6.7	1
Wichita	30	10	33.3	17	56.7	0	0.0	3	10.0	0
Wilson	113	45	39.8	51	45.1	6	5.3	11	9.7	0
Woodson	34	15	44.1	11	32.4	3	8.8	5	14.7	0
Wyandotte	2,539	797	31.5	1,022	40.4	327	12.9	383	15.1	10
n.s.	0	0	n/a	0	n/a	0	n/a	0	n/a	0
Peer Group										
Frontier	1,207	318	26.4	646	53.7	99	8.2	140	11.6	4
Rural	2,709	747	27.7	1,481	54.9	179	6.6	290	10.8	12
Densely -Settled	5,933	1,974	33.5	2,639	44.8	377	6.4	904	15.3	39
Semi-Urban	5,812	1,826	31.6	2,890	50.0	382	6.6	683	11.8	31
Urban	20,803	6,515	31.4	11,250	54.3	1,112	5.4	1,847	8.9	79

* 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, 2017

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	36,464	75	164	251	1.3	542	1,665	7.4	6,256	13,923	10,404	2,775	355	45	9
Allen	140	0	0	0	0.0	1	4	3.6	28	53	44	9	0	1	0
Anderson	104	0	1	0	1.0	0	6	6.7	15	36	36	8	2	0	0
Atchison	174	0	0	0	0.0	0	8	4.6	33	61	55	16	1	0	0
Barber	55	0	1	1	3.6	0	2	7.3	9	17	15	9	1	0	0
Barton	284	0	0	1	0.4	5	11	6.0	43	134	75	15	0	0	0
Bourbon	180	0	0	2	1.1	0	3	2.8	39	76	50	9	1	0	0
Brown	130	3	0	0	2.3	0	7	7.7	22	40	46	10	2	0	0
Butler	763	2	5	6	1.7	16	22	6.7	124	267	242	68	10	1	0
Chase	19	0	0	0	0.0	0	1	5.3	2	6	5	4	1	0	0
Chautauqua	30	0	0	0	0.0	0	3	10.0	5	12	9	1	0	0	0
Cherokee	212	0	0	3	1.4	3	16	10.4	35	89	58	8	0	0	0
Cheyenne	30	0	0	0	0.0	0	0	0.0	4	16	7	2	0	1	0
Clark	22	0	0	0	0.0	0	1	4.5	1	6	10	4	0	0	0
Clay	91	0	0	1	1.1	0	1	2.2	6	49	26	8	0	0	0
Cloud	109	0	0	0	0.0	1	8	8.3	23	41	22	11	1	2	0
Coffey	94	0	0	1	1.1	1	7	9.6	15	36	26	7	1	0	0
Comanche	18	0	0	0	0.0	0	3	16.7	5	5	4	1	0	0	0
Cowley	415	2	5	4	2.7	5	19	8.4	72	163	114	29	2	0	0
Crawford	460	1	3	2	1.3	5	28	8.5	82	180	134	23	2	0	0
Decatur	33	0	0	0	0.0	0	0	0.0	6	12	13	2	0	0	0
Dickinson	208	2	0	2	1.9	1	11	7.7	33	84	57	16	1	1	0
Doniphan	69	0	2	0	2.9	0	1	4.3	9	22	29	6	0	0	0
Douglas	1,134	2	2	7	1.0	18	59	7.8	195	401	342	96	11	1	0
Edwards	23	0	0	0	0.0	0	1	4.3	4	10	7	1	0	0	0
Elk	24	0	0	0	0.0	0	2	8.3	3	8	7	4	0	0	0
Ellis	299	0	0	4	1.3	7	15	8.7	47	127	77	21	1	0	0
Ellsworth	58	0	1	0	1.7	0	1	3.4	7	22	20	6	1	0	0
Finney	625	1	2	3	1.0	9	30	7.2	145	259	137	34	4	1	0
Ford	589	0	0	2	0.3	10	25	6.3	99	252	160	34	5	0	2
Franklin	305	0	1	3	1.3	2	19	8.2	52	108	92	22	5	1	0
Geary	890	2	4	7	1.5	13	38	7.2	157	359	243	58	8	1	0
Gove	31	0	1	0	3.2	0	0	3.2	12	9	6	3	0	0	0
Graham	21	0	0	0	0.0	1	2	14.3	3	8	7	0	0	0	0
Grant	113	0	0	0	0.0	1	4	4.4	21	52	25	9	1	0	0
Gray	88	0	0	0	0.0	1	3	4.5	8	37	33	6	0	0	0
Greeley	25	1	0	0	4.0	0	0	4.0	7	13	4	0	0	0	0
Greenwood	57	0	0	0	0.0	1	1	3.5	14	24	14	3	0	0	0
Hamilton	31	0	1	0	3.2	0	1	6.5	7	16	6	0	0	0	0
Harper	64	0	0	0	0.0	1	6	10.9	10	22	18	7	0	0	0
Harvey	379	1	1	3	1.3	6	23	9.0	55	134	125	24	5	1	1
Haskell	46	0	0	0	0.0	3	1	8.7	12	16	8	6	0	0	0
Hodgeman	17	0	0	0	0.0	0	1	5.9	2	5	6	3	0	0	0
Jackson	180	0	0	1	0.6	2	8	6.1	27	69	54	17	2	0	0
Jefferson	178	0	1	3	2.2	4	4	6.7	29	68	55	11	2	1	0
Jewell	31	0	0	0	0.0	0	2	6.5	3	14	8	4	0	0	0
Johnson	7,207	11	17	43	1.0	97	333	7.0	1,117	2,650	2,217	632	79	9	2
Kearny	65	0	0	3	4.6	2	2	10.8	11	25	18	4	0	0	0
Kingman	72	0	0	0	0.0	1	4	6.9	18	24	19	6	0	0	0
Kiowa	32	0	0	1	3.1	0	1	6.3	4	13	9	3	1	0	0
Labette	260	0	0	1	0.4	3	9	5.0	41	105	79	18	3	0	1
Lane	15	0	0	0	0.0	0	0	0.0	3	8	3	1	0	0	0
Leavenworth	951	3	3	4	1.1	11	46	7.0	172	359	274	68	10	1	0
Lincoln	22	0	0	0	0.0	0	0	0.0	1	9	9	3	0	0	0
Linn	99	0	0	0	0.0	0	5	5.1	19	38	25	11	0	1	0
Logan	39	0	0	2	5.1	2	1	12.8	6	16	10	1	1	0	0

Table C15
Live Births by County of Residence and Peer Group*
by Birth Weight in Grams
Kansas, 2017

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	393	0	1	3	1.0	9	25	9.7	54	144	101	45	6	4	1
McPherson	324	0	1	1	0.6	2	12	4.9	58	118	102	23	7	0	0
Marion	113	0	0	0	0.0	1	1	1.8	16	45	39	9	2	0	0
Marshall	121	0	1	0	0.8	0	1	1.7	23	42	42	10	2	0	0
Meade	44	0	1	0	2.3	0	0	2.3	7	18	13	4	1	0	0
Miami	387	0	1	3	1.0	2	10	4.1	51	158	114	44	4	0	0
Mitchell	74	1	0	0	1.4	0	1	2.7	7	26	35	4	0	0	0
Montgomery	350	0	4	1	1.4	2	17	6.9	61	146	84	31	4	0	0
Morris	72	0	0	2	2.8	0	5	9.7	9	41	12	3	0	0	0
Morton	45	0	0	0	0.0	2	4	13.3	5	20	11	2	1	0	0
Nemaha	151	0	1	1	1.3	1	5	5.3	23	50	52	13	3	2	0
Neosho	196	0	1	3	2.0	2	6	6.1	34	66	67	14	3	0	0
Ness	15	0	0	0	0.0	0	0	0.0	4	5	1	4	1	0	0
Norton	50	0	0	0	0.0	0	2	4.0	9	20	17	2	0	0	0
Osage	171	0	0	2	1.2	3	4	5.3	22	82	41	14	3	0	0
Osborne	45	0	0	0	0.0	1	3	8.9	3	21	12	5	0	0	0
Ottawa	44	0	0	0	0.0	0	4	9.1	11	12	13	4	0	0	0
Pawnee	81	0	1	2	3.7	4	3	12.3	15	27	17	10	2	0	0
Phillips	49	0	0	0	0.0	1	1	4.1	4	15	21	7	0	0	0
Pottawatomie	355	0	1	4	1.4	5	13	6.5	43	114	135	36	3	1	0
Pratt	104	0	2	1	2.9	1	4	7.7	16	50	25	5	0	0	0
Rawlins	33	0	0	2	6.1	1	0	9.1	9	8	8	5	0	0	0
Reno	693	1	5	4	1.4	10	25	6.5	123	271	196	53	5	0	0
Republic	60	0	0	0	0.0	0	0	0.0	9	27	22	2	0	0	0
Rice	103	1	1	0	1.9	0	8	9.7	17	39	29	6	2	0	0
Riley	883	2	1	4	0.8	9	38	6.1	164	339	256	67	1	1	1
Rooks	52	1	0	0	1.9	0	1	3.8	11	21	14	4	0	0	0
Rush	31	0	0	0	0.0	2	0	6.5	8	12	6	1	1	1	0
Russell	73	0	0	0	0.0	1	3	5.5	11	25	27	5	1	0	0
Saline	702	4	10	2	2.3	13	35	9.1	140	266	175	49	7	1	0
Scott	57	0	0	2	3.5	1	1	7.0	13	21	16	3	0	0	0
Sedgwick	6,907	21	54	57	1.9	140	322	8.6	1,195	2,632	1,901	503	76	5	1
Seward	419	1	2	3	1.4	6	12	5.7	94	173	109	14	4	1	0
Shawnee	2,065	9	12	20	2.0	31	104	8.5	390	771	533	164	29	2	0
Sheridan	29	0	0	0	0.0	1	1	6.9	2	14	9	1	1	0	0
Sherman	73	0	0	0	0.0	0	3	4.1	25	27	14	4	0	0	0
Smith	43	0	0	0	0.0	0	2	4.7	8	14	18	1	0	0	0
Stafford	54	0	0	0	0.0	1	0	1.9	9	22	18	3	1	0	0
Stanton	28	0	0	0	0.0	3	0	10.7	4	12	7	1	1	0	0
Stevens	69	0	0	0	0.0	0	2	2.9	16	29	19	2	0	1	0
Sumner	262	0	0	2	0.8	3	5	3.8	44	119	72	17	0	0	0
Thomas	120	0	0	0	0.0	2	4	5.0	23	54	32	4	1	0	0
Trego	27	0	0	0	0.0	0	3	11.1	1	9	10	4	0	0	0
Wabaunsee	77	0	0	0	0.0	2	2	5.2	12	24	29	8	0	0	0
Wallace	18	0	0	0	0.0	0	0	0.0	2	7	6	3	0	0	0
Washington	76	0	0	1	1.3	1	3	6.6	5	26	25	14	1	0	0
Wichita	30	0	1	1	6.7	1	0	10.0	5	16	5	1	0	0	0
Wilson	113	0	2	0	1.8	2	4	7.1	18	43	32	11	1	0	0
Woodson	34	0	0	1	2.9	0	1	5.9	7	14	10	1	0	0	0
Wyandotte	2,539	3	10	19	1.3	43	156	9.1	494	983	658	153	17	3	0
n.s.	0	0	0	0	n/a	0	0	n/a	0	0	0	0	0	0	0
Peer Group															
Frontier	1,207	2	5	10	1.4	18	41	6.3	215	478	329	96	11	2	0
Rural	2,709	5	10	12	1.0	26	108	5.9	440	1,043	818	218	23	6	0
Densely -Settled															
Rural	5,933	6	16	44	1.1	80	241	6.5	1,029	2,378	1,671	406	48	10	4
Semi-Urban	5,812	13	35	35	1.4	78	255	7.2	1,009	2,228	1,661	439	51	6	2
Urban	20,803	49	98	150	1.4	340	1,020	8.0	3,563	7,796	5,925	1,616	222	21	3

* See Technical Notes for Peer Group definition.

Table C16
Live Births by County of Residence and Peer Group*
by Initiation of Breastfeeding†
Kansas, 2017

County of Residence	Live Births	Initiated Breastfeeding		Did Not Initiate Breastfeeding		n.s.†
		Number	Percent	Number	Percent	
Kansas	36,464	32,162	88.5	4,169	11.5	133
Allen	140	118	84.3	22	15.7	0
Anderson	104	87	83.7	17	16.3	0
Atchison	174	138	79.3	36	20.7	0
Barber	55	48	88.9	6	11.1	1
Barton	284	249	87.7	35	12.3	0
Bourbon	180	163	91.1	16	8.9	1
Brown	130	107	84.3	20	15.7	3
Butler	763	665	87.6	94	12.4	4
Chase	19	17	89.5	2	10.5	0
Chautauqua	30	26	86.7	4	13.3	0
Cherokee	212	158	74.5	54	25.5	0
Cheyenne	30	29	96.7	1	3.3	0
Clark	22	19	86.4	3	13.6	0
Clay	91	83	91.2	8	8.8	0
Cloud	109	94	88.7	12	11.3	3
Coffey	94	82	87.2	12	12.8	0
Comanche	18	16	88.9	2	11.1	0
Cowley	415	331	80.3	81	19.7	3
Crawford	460	359	78.7	97	21.3	4
Decatur	33	29	87.9	4	12.1	0
Dickinson	208	176	85.4	30	14.6	2
Doniphan	69	53	79.1	14	20.9	2
Douglas	1,134	1,008	89.1	123	10.9	3
Edwards	23	17	73.9	6	26.1	0
Elk	24	22	91.7	2	8.3	0
Ellis	299	267	89.6	31	10.4	1
Ellsworth	58	50	86.2	8	13.8	0
Finney	625	534	85.6	90	14.4	1
Ford	589	499	84.7	90	15.3	0
Franklin	305	250	82.2	54	17.8	1
Geary	890	780	88.0	106	12.0	4
Gove	31	31	100.0	0	0.0	0
Graham	21	18	90.0	2	10.0	1
Grant	113	96	85.0	17	15.0	0
Gray	88	81	92.0	7	8.0	0
Greeley	25	24	96.0	1	4.0	0
Greenwood	57	50	89.3	6	10.7	1
Hamilton	31	25	83.3	5	16.7	1
Harper	64	55	85.9	9	14.1	0
Harvey	379	341	90.2	37	9.8	1
Haskell	46	45	100.0	0	0.0	1
Hodgeman	17	16	94.1	1	5.9	0
Jackson	180	146	81.1	34	18.9	0
Jefferson	178	154	87.5	22	12.5	2
Jewell	31	30	96.8	1	3.2	0
Johnson	7,207	6,762	94.1	424	5.9	21
Kearny	65	59	90.8	6	9.2	0
Kingman	72	64	88.9	8	11.1	0
Kiowa	32	32	100.0	0	0.0	0
Labette	260	198	76.7	60	23.3	2
Lane	15	15	100.0	0	0.0	0
Leavenworth	951	842	88.8	106	11.2	3
Lincoln	22	22	100.0	0	0.0	0
Linn	99	89	89.9	10	10.1	0
Logan	39	35	89.7	4	10.3	0

Table C16
Live Births by County of Residence and Peer Group*
by Initiation of Breastfeeding†
Kansas, 2017

County of Residence	Live Births	Initiated Breastfeeding		Did Not Initiate Breastfeeding		n.s. ‡
		Number	Percent	Number	Percent	
Lyon	393	345	88.2	46	11.8	2
McPherson	324	293	90.4	31	9.6	0
Marion	113	106	93.8	7	6.2	0
Marshall	121	100	83.3	20	16.7	1
Meade	44	39	88.6	5	11.4	0
Miami	387	344	88.9	43	11.1	0
Mitchell	74	61	83.6	12	16.4	1
Montgomery	350	269	77.3	79	22.7	2
Morris	72	63	87.5	9	12.5	0
Morton	45	36	80.0	9	20.0	0
Nemaha	151	135	89.4	16	10.6	0
Neosho	196	153	78.1	43	21.9	0
Ness	15	13	86.7	2	13.3	0
Norton	50	46	92.0	4	8.0	0
Osage	171	144	84.7	26	15.3	1
Osborne	45	41	91.1	4	8.9	0
Ottawa	44	40	90.9	4	9.1	0
Pawnee	81	72	88.9	9	11.1	0
Phillips	49	48	98.0	1	2.0	0
Pottawatomie	355	325	92.3	27	7.7	3
Pratt	104	92	88.5	12	11.5	0
Rawlins	33	30	90.9	3	9.1	0
Reno	693	612	88.6	79	11.4	2
Republic	60	54	91.5	5	8.5	1
Rice	103	82	80.4	20	19.6	1
Riley	883	795	90.2	86	9.8	2
Rooks	52	45	86.5	7	13.5	0
Rush	31	26	83.9	5	16.1	0
Russell	73	65	89.0	8	11.0	0
Saline	702	603	86.5	94	13.5	5
Scott	57	51	89.5	6	10.5	0
Sedgwick	6,907	6,225	90.4	659	9.6	23
Seward	419	341	81.4	78	18.6	0
Shawnee	2,065	1,682	82.0	370	18.0	13
Sheridan	29	26	89.7	3	10.3	0
Sherman	73	64	87.7	9	12.3	0
Smith	43	39	90.7	4	9.3	0
Stafford	54	46	85.2	8	14.8	0
Stanton	28	25	89.3	3	10.7	0
Stevens	69	56	81.2	13	18.8	0
Sumner	262	222	85.4	38	14.6	2
Thomas	120	115	95.8	5	4.2	0
Trego	27	26	96.3	1	3.7	0
Wabaunsee	77	69	89.6	8	10.4	0
Wallace	18	15	83.3	3	16.7	0
Washington	76	67	89.3	8	10.7	1
Wichita	30	27	90.0	3	10.0	0
Wilson	113	89	78.8	24	21.2	0
Woodson	34	28	82.4	6	17.6	0
Wyandotte	2,539	2,168	85.6	364	14.4	7
n.s.	0	0	n/a	0	n/a	0
Peer Group						
Frontier	1,207	1,078	89.6	125	10.4	4
Rural	2,709	2,372	87.9	325	12.1	12
Densely -Settled Rural	5,933	5,007	84.7	904	15.3	22
Semi-Urban	5,812	5,018	86.7	769	13.3	25
Urban	20,803	18,687	90.1	2,046	9.9	70

* 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, 2017

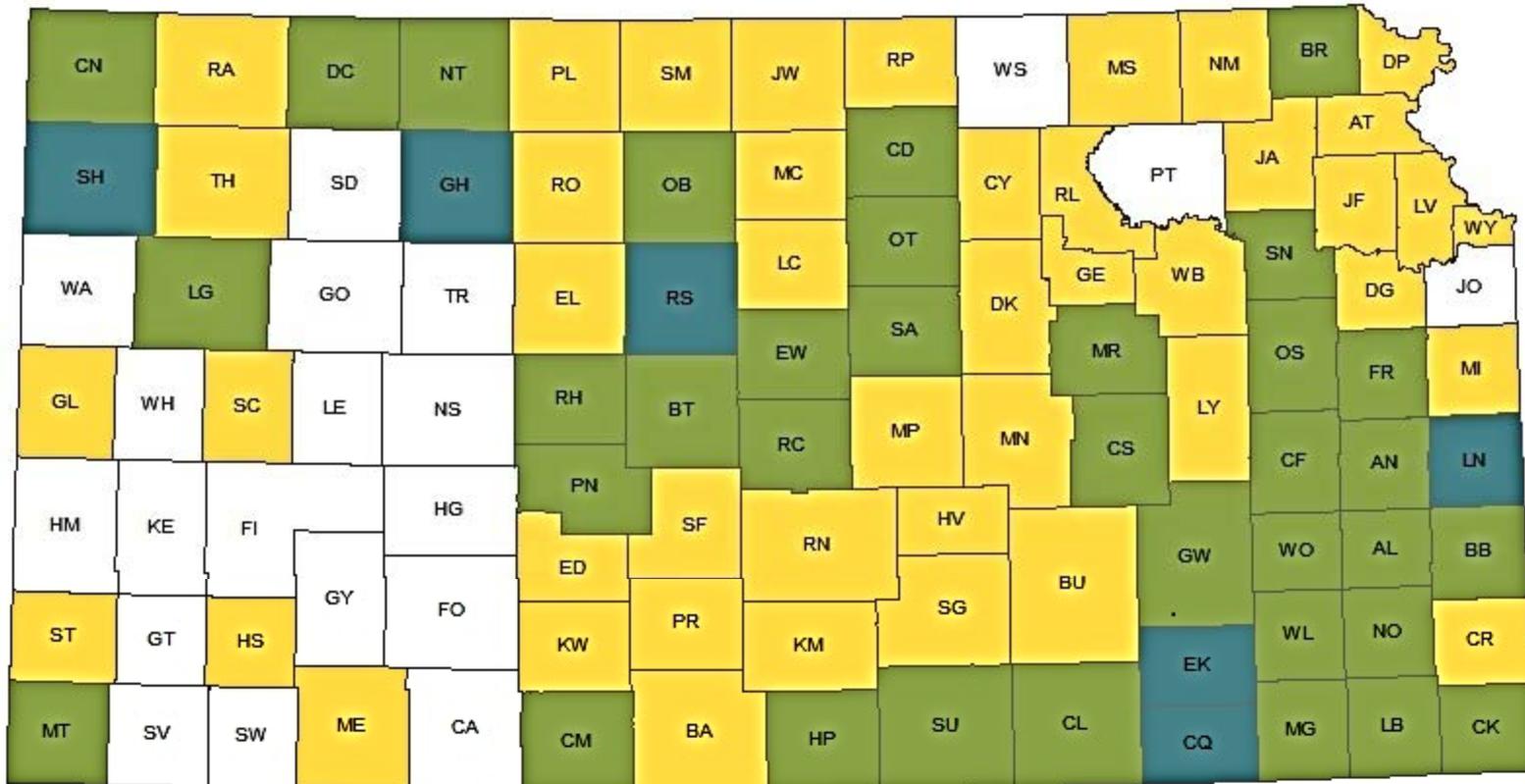
County of Residence	Total	3 Months Prior to Pregnancy	First Trimester of Pregnancy	Second Trimester of Pregnancy	Third Trimester of Pregnancy	Any Time During Pregnancy		n.s.
						Number	Percent	
Kansas	36,464	4,221	3,632	3,259	3,129	3,680	10.1	90
Allen	140	21	21	18	17	21	15.1	1
Anderson	104	16	16	16	15	16	15.4	0
Atchison	174	31	24	21	21	24	13.8	0
Barber	55	9	8	6	6	8	14.5	0
Barton	284	58	44	39	39	44	15.5	0
Bourbon	180	35	31	29	27	31	17.2	0
Brown	130	32	23	20	17	24	18.5	0
Butler	763	116	106	99	99	108	14.2	1
Chase	19	5	4	4	4	4	21.1	0
Chautauqua	30	11	11	11	11	11	37.9	1
Cherokee	212	49	41	37	33	42	19.8	0
Cheyenne	30	6	5	4	4	5	16.7	0
Clark	22	1	0	0	0	0	0.0	0
Clay	91	14	11	10	11	12	13.2	0
Cloud	109	22	17	15	15	17	15.6	0
Coffey	94	20	15	15	13	16	17.0	0
Comanche	18	5	3	3	3	3	16.7	0
Cowley	415	85	73	62	61	74	17.9	1
Crawford	460	73	66	62	58	67	14.6	1
Decatur	33	7	6	5	4	6	18.2	0
Dickinson	208	44	28	24	23	29	13.9	0
Doniphan	69	10	8	6	5	8	11.6	0
Douglas	1,134	117	97	80	75	99	8.7	1
Edwards	23	3	3	3	3	3	13.0	0
Elk	24	6	6	6	6	6	25.0	0
Ellis	299	39	33	30	26	33	11.1	1
Ellsworth	58	15	11	11	11	11	19.0	0
Finney	625	41	27	20	20	28	4.5	0
Ford	589	11	9	8	8	9	1.5	1
Franklin	305	62	52	48	46	52	17.2	2
Geary	890	110	75	57	49	75	8.5	3
Gove	31	2	2	1	1	2	6.5	0
Graham	21	5	5	5	5	5	23.8	0
Grant	113	5	5	3	3	5	4.4	0
Gray	88	5	5	4	4	5	5.7	0
Greeley	25	2	2	2	2	2	8.0	0
Greenwood	57	15	11	11	11	12	21.1	0
Hamilton	31	3	2	2	1	2	6.5	0
Harper	64	13	12	11	10	12	18.8	0
Harvey	379	56	51	47	42	52	13.8	1
Haskell	46	5	4	3	3	4	8.7	0
Hodgeman	17	1	1	1	1	1	5.9	0
Jackson	180	37	25	23	21	26	14.7	3
Jefferson	178	27	23	17	17	23	13.1	2
Jewell	31	5	3	2	2	3	9.7	0
Johnson	7,207	248	202	170	161	208	2.9	5
Kearny	65	4	3	2	1	3	4.6	0
Kingman	72	9	9	8	9	9	12.5	0
Kiowa	32	3	3	2	2	3	9.4	0
Labette	260	52	46	38	37	48	19.0	7
Lane	15	1	1	1	1	1	6.7	0
Leavenworth	951	119	106	91	87	108	11.4	3
Lincoln	22	3	2	2	2	2	9.1	0
Linn	99	28	25	24	25	26	26.3	0
Logan	39	8	6	5	5	6	15.4	0

Table C17
Live Births by County of Residence and Peer Group*
by Mother's Reported Cigarette Use
Kansas, 2017

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	393	46	33	27	25	35	9.0	2
McPherson	324	45	38	35	34	39	12.1	1
Marion	113	21	15	13	14	15	13.4	1
Marshall	121	18	16	12	11	16	13.2	0
Meade	44	4	4	3	3	4	9.1	0
Miami	387	60	48	40	38	48	12.4	1
Mitchell	74	8	7	6	6	7	9.5	0
Montgomery	350	85	69	64	61	72	21.1	9
Morris	72	14	12	12	12	12	16.7	0
Morton	45	8	7	6	6	7	15.6	0
Nemaha	151	18	15	14	13	15	9.9	0
Neosho	196	39	35	30	30	35	17.9	0
Ness	15	0	0	0	0	0	0.0	0
Norton	50	10	10	9	6	10	20.0	0
Osage	171	43	34	32	31	35	20.5	0
Osborne	45	8	8	4	4	8	17.8	0
Ottawa	44	7	6	3	4	7	15.9	0
Pawnee	81	16	13	11	10	13	16.0	0
Phillips	49	7	7	6	5	7	14.3	0
Pottawatomie	355	32	26	24	21	26	7.3	0
Pratt	104	15	11	11	11	11	10.8	2
Rawlins	33	5	4	4	4	4	12.1	0
Reno	693	130	102	95	89	103	14.9	0
Republic	60	7	6	5	5	6	10.0	0
Rice	103	24	19	18	17	19	18.4	0
Riley	883	94	74	62	51	74	8.4	0
Rooks	52	6	5	5	5	5	9.6	0
Rush	31	9	6	5	5	6	19.4	0
Russell	73	22	17	13	13	18	24.7	0
Saline	702	151	119	99	93	121	17.3	2
Scott	57	8	8	7	7	8	14.0	0
Sedgwick	6,907	754	746	730	727	748	10.8	8
Seward	419	28	25	19	18	25	6.0	3
Shawnee	2,065	365	310	270	260	315	15.4	18
Sheridan	29	1	1	1	1	1	3.4	0
Sherman	73	20	18	16	16	18	25.0	1
Smith	43	6	4	4	3	4	9.3	0
Stafford	54	6	5	5	5	5	9.3	0
Stanton	28	6	4	4	4	4	14.3	0
Stevens	69	5	4	5	4	5	7.2	0
Sumner	262	55	54	54	52	54	20.6	0
Thomas	120	11	8	4	4	9	7.6	1
Trego	27	1	0	0	0	0	0.0	0
Wabaunsee	77	9	8	7	7	8	10.4	0
Wallace	18	1	1	1	1	1	5.6	0
Washington	76	8	4	3	3	4	5.3	0
Wichita	30	1	1	0	0	1	3.3	0
Wilson	113	23	22	18	17	22	19.6	1
Woodson	34	10	7	7	7	7	20.6	0
Wyandotte	2,539	221	208	192	183	209	8.3	6
n.s.	0	0	0	0	0	0	n/a	0
Peer Group								
Frontier	1,207	187	155	136	132	156	12.9	2
Rural	2,709	445	368	324	312	376	13.9	5
Densely -Settled Rural	5,933	828	678	593	566	689	11.7	22
Semi-Urban	5,812	937	762	673	626	772	13.3	20
Urban	20,803	1,824	1,669	1,533	1,493	1,687	8.1	41

* See Technical Notes for Peer Group definition.

Percent of Maternal Cigarette Use During Pregnancy
By County of Residence
Kansas, 2017



Percent of Mothers Indicating Use of Tobacco

Statewide Percent: 10.1

Legend



Figure C6

Table C18
 Live Births by County of Residence and Peer Group*
 by Birth Weight Category for Gestational Age†
 Kansas, 2017

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	36,464	32,809	90.1	3,625	9.9	30
Allen	140	127	90.7	13	9.3	0
Anderson	104	100	96.2	4	3.8	0
Atchison	174	159	91.4	15	8.6	0
Barber	55	50	90.9	5	9.1	0
Barton	284	256	90.1	28	9.9	0
Bourbon	180	164	91.1	16	8.9	0
Brown	130	108	83.1	22	16.9	0
Butler	763	703	92.3	59	7.7	1
Chase	19	18	94.7	1	5.3	0
Chautauqua	30	27	90.0	3	10.0	0
Cherokee	212	189	89.2	23	10.8	0
Cheyenne	30	26	86.7	4	13.3	0
Clark	22	21	95.5	1	4.5	0
Clay	91	87	95.6	4	4.4	0
Cloud	109	94	86.2	15	13.8	0
Coffey	94	83	88.3	11	11.7	0
Comanche	18	12	66.7	6	33.3	0
Cowley	415	383	92.3	32	7.7	0
Crawford	460	420	91.3	40	8.7	0
Decatur	33	27	81.8	6	18.2	0
Dickinson	208	187	89.9	21	10.1	0
Doniphan	69	61	88.4	8	11.6	0
Douglas	1,134	1,035	91.4	98	8.6	1
Edwards	23	22	95.7	1	4.3	0
Elk	24	23	95.8	1	4.2	0
Ellis	299	262	87.6	37	12.4	0
Ellsworth	58	57	98.3	1	1.7	0
Finney	625	534	85.4	91	14.6	0
Ford	589	521	88.8	66	11.2	2
Franklin	305	273	89.5	32	10.5	0
Geary	890	808	90.8	82	9.2	0
Gove	31	25	80.6	6	19.4	0
Graham	21	18	85.7	3	14.3	0
Grant	113	103	91.2	10	8.8	0
Gray	88	81	92.0	7	8.0	0
Greeley	25	23	92.0	2	8.0	0
Greenwood	57	48	84.2	9	15.8	0
Hamilton	31	25	80.6	6	19.4	0
Harper	64	53	82.8	11	17.2	0
Harvey	379	351	92.9	27	7.1	1
Haskell	46	39	84.8	7	15.2	0
Hodgeman	17	16	94.1	1	5.9	0
Jackson	180	164	91.6	15	8.4	1
Jefferson	178	163	91.6	15	8.4	0
Jewell	31	30	96.8	1	3.2	0
Johnson	7,207	6,569	91.2	632	8.8	6
Kearny	65	59	90.8	6	9.2	0
Kingman	72	58	80.6	14	19.4	0
Kiowa	32	30	93.8	2	6.3	0
Labette	260	235	91.4	22	8.6	3
Lane	15	14	93.3	1	6.7	0
Leavenworth	951	849	89.3	102	10.7	0
Lincoln	22	20	95.2	1	4.8	1
Linn	99	87	87.9	12	12.1	0
Logan	39	36	92.3	3	7.7	0

Table C18
Live Births by County of Residence and Peer Group*
by Birth Weight Category for Gestational Age†
Kansas, 2017

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	393	344	87.8	48	12.2	1
McPherson	324	294	90.7	30	9.3	0
Marion	113	109	96.5	4	3.5	0
Marshall	121	108	89.3	13	10.7	0
Meade	44	42	95.5	2	4.5	0
Miami	387	356	92.0	31	8.0	0
Mitchell	74	67	90.5	7	9.5	0
Montgomery	350	309	88.5	40	11.5	1
Morris	72	61	84.7	11	15.3	0
Morton	45	41	91.1	4	8.9	0
Nemaha	151	136	90.1	15	9.9	0
Neosho	196	180	92.3	15	7.7	1
Ness	15	13	86.7	2	13.3	0
Norton	50	43	86.0	7	14.0	0
Osage	171	156	91.8	14	8.2	1
Osborne	45	42	93.3	3	6.7	0
Ottawa	44	38	86.4	6	13.6	0
Pawnee	81	72	88.9	9	11.1	0
Phillips	49	47	95.9	2	4.1	0
Pottawatomie	355	337	94.9	18	5.1	0
Pratt	104	95	91.3	9	8.7	0
Rawlins	33	30	90.9	3	9.1	0
Reno	693	633	91.5	59	8.5	1
Republic	60	56	93.3	4	6.7	0
Rice	103	92	89.3	11	10.7	0
Riley	883	792	89.8	90	10.2	1
Rooks	52	47	90.4	5	9.6	0
Rush	31	24	77.4	7	22.6	0
Russell	73	65	89.0	8	11.0	0
Saline	702	607	86.5	95	13.5	0
Scott	57	49	86.0	8	14.0	0
Sedgwick	6,907	6,192	89.7	714	10.3	1
Seward	419	378	91.3	36	8.7	5
Shawnee	2,065	1,833	88.8	231	11.2	1
Sheridan	29	29	100.0	0	0.0	0
Sherman	73	65	89.0	8	11.0	0
Smith	43	40	93.0	3	7.0	0
Stafford	54	47	87.0	7	13.0	0
Stanton	28	22	78.6	6	21.4	0
Stevens	69	61	88.4	8	11.6	0
Sumner	262	251	95.8	11	4.2	0
Thomas	120	108	90.0	12	10.0	0
Trego	27	25	92.6	2	7.4	0
Wabaunsee	77	65	84.4	12	15.6	0
Wallace	18	18	100.0	0	0.0	0
Washington	76	71	93.4	5	6.6	0
Wichita	30	27	90.0	3	10.0	0
Wilson	113	103	91.2	10	8.8	0
Woodson	34	29	87.9	4	12.1	1
Wyandotte	2,539	2,227	87.7	312	12.3	0
n.s.	0	0	n/a	0	n/a	0
Peer Group						
Frontier	1,207	1,082	89.7	124	10.3	1
Rural	2,709	2,425	89.5	283	10.5	1
Densely -Settled Rural	5,933	5,345	90.3	574	9.7	14
Semi-Urban	5,812	5,252	90.4	555	9.6	5
Urban	20,803	18,705	90.0	2,089	10.0	9

* 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, 2017

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	35,233	7,411	21.2	11,196	32.0	16,424	46.9	202
Allen	134	27	20.1	39	29.1	68	50.7	0
Anderson	100	20	20.2	33	33.3	46	46.5	1
Atchison	172	38	22.2	60	35.1	73	42.7	1
Barber	51	11	22.0	14	28.0	25	50.0	1
Barton	278	66	23.8	90	32.5	121	43.7	1
Bourbon	178	57	32.2	45	25.4	75	42.4	1
Brown	126	28	22.6	31	25.0	65	52.4	2
Butler	733	159	21.8	215	29.5	356	48.8	3
Chase	19	5	26.3	4	21.1	10	52.6	0
Chautauqua	30	14	46.7	9	30.0	7	23.3	0
Cherokee	210	58	27.9	55	26.4	95	45.7	2
Cheyenne	28	6	21.4	12	42.9	10	35.7	0
Clark	22	3	13.6	7	31.8	12	54.5	0
Clay	91	15	16.5	35	38.5	41	45.1	0
Cloud	105	28	26.9	38	36.5	38	36.5	1
Coffey	94	22	23.9	26	28.3	44	47.8	2
Comanche	16	4	25.0	9	56.3	3	18.8	0
Cowley	401	109	27.3	126	31.6	164	41.1	2
Crawford	446	98	22.0	150	33.7	197	44.3	1
Decatur	33	3	9.1	14	42.4	16	48.5	0
Dickinson	194	36	18.9	57	30.0	97	51.1	4
Doniphan	67	8	12.1	13	19.7	45	68.2	1
Douglas	1,087	228	21.2	325	30.1	525	48.7	9
Edwards	23	12	52.2	5	21.7	6	26.1	0
Elk	22	3	13.6	7	31.8	12	54.5	0
Ellis	291	57	19.7	97	33.6	135	46.7	2
Ellsworth	58	17	29.3	19	32.8	22	37.9	0
Finney	617	176	28.7	188	30.7	249	40.6	4
Ford	571	192	33.7	151	26.5	227	39.8	1
Franklin	295	54	18.3	93	31.5	148	50.2	0
Geary	859	201	23.5	245	28.7	408	47.8	5
Gove	31	7	22.6	13	41.9	11	35.5	0
Graham	21	3	14.3	9	42.9	9	42.9	0
Grant	109	30	27.8	36	33.3	42	38.9	1
Gray	88	15	17.0	29	33.0	44	50.0	0
Greeley	25	8	34.8	6	26.1	9	39.1	2
Greenwood	53	12	23.1	14	26.9	26	50.0	1
Hamilton	31	15	48.4	7	22.6	9	29.0	0
Harper	62	12	19.4	25	40.3	25	40.3	0
Harvey	369	73	19.8	120	32.5	176	47.7	0
Haskell	44	10	22.7	13	29.5	21	47.7	0
Hodgeman	17	4	23.5	8	47.1	5	29.4	0
Jackson	176	39	22.4	56	32.2	79	45.4	2
Jefferson	172	36	21.2	41	24.1	93	54.7	2
Jewell	29	7	24.1	9	31.0	13	44.8	0
Johnson	6,884	1,140	16.7	2,415	35.3	3,281	48.0	48
Keamy	59	23	39.0	16	27.1	20	33.9	0
Kingman	72	13	18.1	23	31.9	36	50.0	0
Kiowa	28	6	21.4	6	21.4	16	57.1	0
Labelle	248	74	31.1	72	30.3	92	38.7	10
Lane	15	3	20.0	3	20.0	9	60.0	0
Leavenworth	922	163	17.8	289	31.6	462	50.5	8
Lincoln	22	6	28.6	6	28.6	9	42.9	1
Linn	99	26	26.8	30	30.9	41	42.3	2
Logan	36	9	25.0	8	22.2	19	52.8	0

Table C19
 Mother's Weight Gain in Pregnancy for Singleton Births,
 by County of Residence and Peer Group*,
 Kansas, 2017

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	372	88	23.9	111	30.2	169	45.9	4
McPherson	314	52	16.6	97	31.0	164	52.4	1
Marion	113	25	22.1	31	27.4	57	50.4	0
Marshall	119	34	28.6	27	22.7	58	48.7	0
Meade	44	12	27.9	14	32.6	17	39.5	1
Miami	376	59	15.8	119	31.8	196	52.4	2
Mitchell	74	9	12.2	20	27.0	45	60.8	0
Montgomery	344	115	33.7	82	24.0	144	42.2	3
Morris	70	19	27.1	22	31.4	29	41.4	0
Morton	41	10	24.4	14	34.1	17	41.5	0
Nemaha	149	33	22.4	45	30.6	69	46.9	2
Neosho	188	51	27.3	69	36.9	67	35.8	1
Ness	15	3	20.0	7	46.7	5	33.3	0
Norton	44	10	23.3	16	37.2	17	39.5	1
Osage	169	41	24.3	41	24.3	87	51.5	0
Osborne	43	10	23.3	20	46.5	13	30.2	0
Ottawa	40	9	22.5	16	40.0	15	37.5	0
Pawnee	78	22	28.2	24	30.8	32	41.0	0
Phillips	49	5	10.6	17	36.2	25	53.2	2
Pottawatomie	343	73	21.5	105	31.0	161	47.5	4
Pratt	102	22	21.6	39	38.2	41	40.2	0
Rawlins	31	8	25.8	8	25.8	15	48.4	0
Reno	671	146	21.8	194	29.0	329	49.2	2
Republic	60	16	27.1	19	32.2	24	40.7	1
Rice	97	27	27.8	32	33.0	38	39.2	0
Riley	841	210	25.0	276	32.9	354	42.1	1
Rooks	50	9	18.4	14	28.6	26	53.1	1
Rush	31	5	16.1	6	19.4	20	64.5	0
Russell	73	21	28.8	26	35.6	26	35.6	0
Saline	666	147	22.1	237	35.6	281	42.3	1
Scott	57	20	35.1	14	24.6	23	40.4	0
Sedgwick	6,698	1,318	19.7	2,169	32.5	3,197	47.8	14
Seward	411	90	22.1	128	31.4	189	46.4	4
Shawnee	1,992	412	20.9	549	27.8	1,013	51.3	18
Sheridan	27	4	14.8	8	29.6	15	55.6	0
Sherman	71	16	23.2	22	31.9	31	44.9	2
Smith	39	10	25.6	11	28.2	18	46.2	0
Stafford	54	15	27.8	18	33.3	21	38.9	0
Stanton	26	8	30.8	11	42.3	7	26.9	0
Stevens	67	17	25.4	21	31.3	29	43.3	0
Sumner	257	51	19.8	82	31.9	124	48.2	0
Thomas	116	20	17.4	37	32.2	58	50.4	1
Trego	27	8	29.6	11	40.7	8	29.6	0
Wabaunsee	77	9	12.3	26	35.6	38	52.1	4
Wallace	18	3	17.6	7	41.2	7	41.2	1
Washington	72	11	15.3	23	31.9	38	52.8	0
Wichita	28	4	14.3	15	53.6	9	32.1	0
Wilson	111	32	28.8	33	29.7	46	41.4	0
Woodson	34	8	23.5	9	26.5	17	50.0	0
Wyandotte	2,481	575	23.3	788	31.9	1,108	44.8	10
n.s.	0	0	n/a	0	n/a	0	n/a	0
Peer Group								
Frontier	1,156	289	25.2	372	32.5	485	42.3	10
Rural	2,650	605	23.0	835	31.7	1,190	45.2	20
Densely -Settled Rural	5,763	1,419	24.8	1,723	30.1	2,574	45.0	47
Semi-Urban	5,600	1,262	22.6	1,731	31.0	2,589	46.4	18
Urban	20,064	3,836	19.2	6,535	32.7	9,586	48.0	107

* See Technical Notes for Peer Group definition.

†includes births where height, prepregnancy weight or weight at delivery are unknown

Weight gain based on prepregnancy BMI category

Table C20
Live Births by County of Residence and Peer Group*
by Population Group of Mother
Kansas, 2017

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	36,464	25,431	2,463	168	1,255	1,177	5,945	25	
Allen	140	129	1	0	2	3	5	0	
Anderson	104	98	0	0	0	2	4	0	
Atchison	174	150	7	0	3	8	6	0	
Barber	55	48	0	1	0	1	5	0	
Barton	284	208	3	0	1	4	68	0	
Bourbon	180	169	3	0	0	5	3	0	
Brown	130	104	1	13	0	4	8	0	
Butler	763	693	7	5	12	13	33	0	
Chase	19	16	1	0	0	2	0	0	
Chautauqua	30	24	0	3	0	1	2	0	
Cherokee	212	187	2	5	0	17	1	0	
Cheyenne	30	24	0	0	0	0	6	0	
Clark	22	19	0	0	0	0	3	0	
Clay	91	85	0	0	1	0	5	0	
Cloud	109	101	1	0	0	4	3	0	
Coffey	94	88	0	1	2	2	1	0	
Comanche	18	17	0	0	0	0	1	0	
Cowley	415	312	8	2	11	9	73	0	
Crawford	460	377	18	1	7	11	46	0	
Decatur	33	33	0	0	0	0	0	0	
Dickinson	208	179	3	0	0	10	16	0	
Doniphan	69	65	0	0	1	2	1	0	
Douglas	1,134	861	53	23	74	48	74	1	
Edwards	23	14	0	0	0	1	8	0	
Elk	24	22	0	1	0	1	0	0	
Ellis	299	258	1	0	7	2	31	0	
Ellsworth	58	55	0	0	0	0	3	0	
Finney	625	185	25	1	22	8	384	0	
Ford	589	176	17	2	3	4	387	0	
Franklin	305	291	0	0	2	4	8	0	
Geary	890	497	140	4	40	72	137	0	
Gove	31	30	0	0	0	0	1	0	
Graham	21	19	1	0	0	0	1	0	
Grant	113	42	0	1	0	0	70	0	
Gray	88	77	0	0	0	0	11	0	
Greeley	25	17	0	0	0	0	7	1	
Greenwood	57	53	0	0	1	1	2	0	
Hamilton	31	18	0	0	0	0	13	0	
Harper	64	56	1	0	0	1	6	0	
Harvey	379	319	2	0	4	9	45	0	
Haskell	46	33	0	0	0	1	12	0	
Hodgeman	17	14	0	0	0	1	2	0	
Jackson	180	135	0	22	1	7	15	0	
Jefferson	178	169	1	0	1	3	4	0	
Jewell	31	30	0	0	1	0	0	0	
Johnson	7,207	5,403	373	9	498	212	703	9	
Kearny	65	43	0	0	0	0	22	0	
Kingman	72	69	0	0	1	1	1	0	
Kiowa	32	28	2	0	0	1	1	0	
Labette	260	235	8	5	0	6	6	0	
Lane	15	15	0	0	0	0	0	0	
Leavenworth	951	736	63	1	21	36	91	3	
Lincoln	22	21	0	0	1	0	0	0	
Linn	99	94	0	0	0	2	3	0	
Logan	39	33	0	0	0	1	5	0	

Table C20
Live Births by County of Residence and Peer Group*
by Population Group of Mother
Kansas, 2017

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	393	244	5	1	10	10	122	1	
McPherson	324	287	8	1	4	4	18	2	
Marion	113	103	0	1	0	1	8	0	
Marshall	121	114	1	0	0	0	6	0	
Meade	44	35	0	0	1	0	8	0	
Miami	387	361	4	1	1	10	10	0	
Mitchell	74	70	0	0	0	0	4	0	
Montgomery	350	270	18	13	2	23	24	0	
Morris	72	68	0	1	1	1	1	0	
Morton	45	24	0	0	1	0	20	0	
Nemaha	151	144	1	0	0	2	3	1	
Neosho	196	176	5	0	0	7	8	0	
Ness	15	12	0	0	0	0	3	0	
Norton	50	44	0	0	0	2	3	1	
Osage	171	157	0	0	1	3	10	0	
Osborne	45	45	0	0	0	0	0	0	
Ottawa	44	43	0	0	0	1	0	0	
Pawnee	81	71	0	1	1	2	6	0	
Phillips	49	46	0	0	1	0	2	0	
Pottawatomie	355	323	1	1	2	5	23	0	
Pratt	104	92	1	0	2	1	8	0	
Rawlins	33	28	3	0	0	0	2	0	
Reno	693	549	14	3	5	25	96	1	
Republic	60	56	0	0	0	2	2	0	
Rice	103	83	0	0	1	0	19	0	
Riley	883	618	75	3	47	45	95	0	
Rooks	52	48	0	0	0	2	2	0	
Rush	31	30	1	0	0	0	0	0	
Russell	73	71	0	0	0	1	1	0	
Saline	702	501	20	1	11	29	140	0	
Scott	57	50	0	0	0	0	7	0	
Sedgwick	6,907	4,295	824	16	277	220	1,273	2	
Seward	419	83	6	1	10	3	316	0	
Shawnee	2,065	1,336	183	17	40	120	369	0	
Sheridan	29	27	0	0	0	1	1	0	
Sherman	73	65	0	0	0	3	5	0	
Smith	43	40	0	1	0	2	0	0	
Stafford	54	46	0	0	0	0	8	0	
Stanton	28	17	0	0	0	0	11	0	
Stevens	69	40	0	0	1	2	26	0	
Sumner	262	249	3	1	0	1	8	0	
Thomas	120	105	1	0	0	0	14	0	
Trego	27	25	0	0	0	0	2	0	
Wabaunsee	77	72	0	0	2	0	3	0	
Wallace	18	14	0	0	0	1	3	0	
Washington	76	68	0	0	0	2	6	0	
Wichita	30	21	0	0	0	0	9	0	
Wilson	113	107	0	1	0	0	5	0	
Woodson	34	31	0	0	0	0	3	0	
Wyandotte	2,539	853	547	4	117	126	889	3	
n.s.	0	0	0	0	0	0	0	0	
Peer Group									
Frontier	1,207	1,015	8	6	5	19	153	1	
Rural	2,709	2,380	7	19	13	34	254	2	
Densely -Settled Rural	5,933	4,076	107	42	79	121	1,505	3	
Semi-Urban	5,812	4,476	298	31	131	241	634	1	
Urban	20,803	13,484	2,043	70	1,027	762	3,399	18	

* 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, 2013-2017

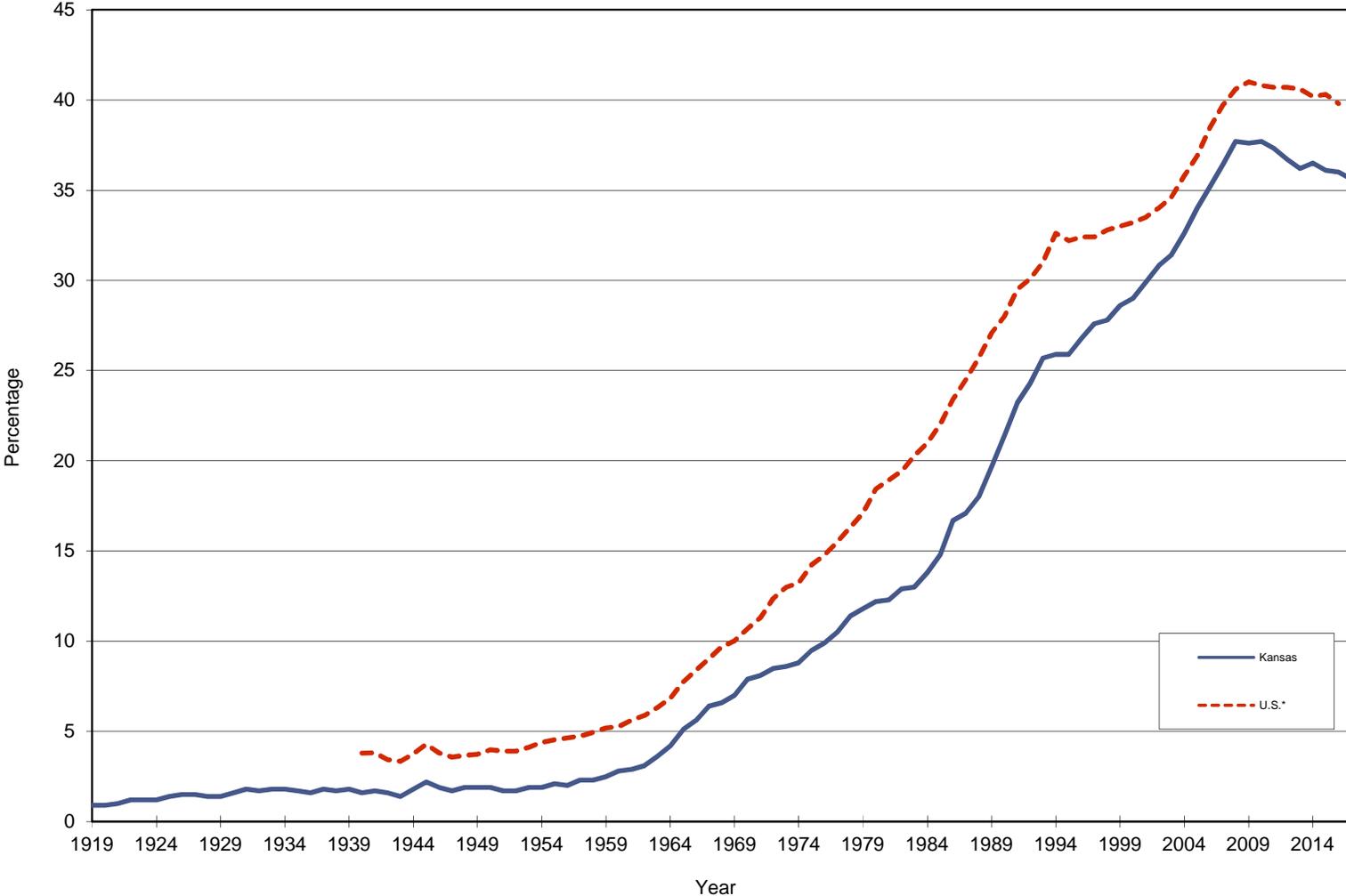
City of Residence	Year										5-Year Rate
	2013		2014		2015		2016		2017		
	Number	Rate									
Abilene	85	12.8	89	13.5	89	13.6	92	14.2	62	9.7	12.8
Andover	170	13.9	167	13.4	164	12.9	181	13.9	191	14.6	13.7
Arkansas City	213	17.3	200	16.4	191	15.7	184	15.3	181	15.3	16.0
Atchison	140	12.8	148	13.7	157	14.7	153	14.3	132	12.4	13.6
Augusta	143	15.5	135	14.6	127	13.7	122	13.1	137	14.6	14.3
Baldwin City	31	6.8	41	8.9	46	9.9	44	9.4	36	7.8	8.6
Basehor	62	12.7	71	13.9	61	11.3	81	14.3	84	14.0	13.3
Baxter Springs	49	11.9	49	12.0	57	14.2	52	13.1	50	12.6	12.8
Bel Aire	55	8.0	84	11.5	96	12.9	78	10.2	102	12.9	11.2
Beloit	45	11.7	51	13.4	50	13.2	51	13.5	39	10.5	12.5
Bonner Springs	109	14.6	117	15.5	103	13.5	107	14.0	100	12.8	14.1
Burlington	29	11.0	25	9.5	27	10.3	32	12.3	33	12.9	11.2
Chanute	131	14.2	130	14.0	116	12.5	122	13.3	124	13.7	13.5
Clay Center	63	14.9	51	12.2	52	12.5	68	16.7	44	11.1	13.5
Coffeyville	155	15.6	152	15.4	137	14.2	118	12.4	121	12.8	14.1
Colby	72	13.3	104	19.3	80	14.8	82	15.1	87	16.2	15.7
Columbus	38	11.8	43	13.5	52	16.5	35	11.3	32	10.3	12.7
Concordia	67	12.7	57	10.7	74	14.2	62	12.0	67	13.1	12.5
Derby	326	14.1	301	13.0	301	12.8	346	14.6	282	11.9	13.3
De Soto	82	13.9	66	10.9	70	11.5	74	12.2	77	12.6	12.2
Dodge City	607	21.6	604	21.5	580	20.8	585	21.3	515	18.6	20.7
Edwardsville	50	11.5	47	10.7	47	10.7	46	10.5	56	12.4	11.2
El Dorado	166	12.9	177	13.7	188	14.5	167	12.7	175	13.5	13.5
Ellsworth	24	7.8	26	8.5	29	9.5	22	7.2	23	7.5	8.1
Emporia	335	13.5	334	13.6	336	13.6	343	13.8	307	12.4	13.4
Eudora	78	12.6	84	13.3	93	14.6	83	13.0	65	10.3	12.8
Eureka	28	11.1	37	14.9	34	13.9	22	9.1	20	8.3	11.5
Fairway	61	15.4	66	16.6	72	18.1	49	12.3	59	14.9	15.5
Fort Scott	140	17.6	137	17.4	118	15.1	117	15.1	111	14.2	15.9
Frontenac	34	9.9	49	14.2	44	12.9	38	11.1	33	9.7	11.6
Galena	42	14.0	40	13.5	50	17.1	51	17.7	37	12.8	15.0
Garden City	565	21.0	578	21.4	597	22.1	537	20.1	532	19.8	20.9
Gardner	376	18.4	365	17.7	367	17.6	376	17.8	344	15.9	17.5
Garnett	39	11.8	40	12.1	42	12.9	42	12.9	49	15.1	12.9
Girard	25	9.0	42	15.1	31	11.2	36	13.1	37	13.7	12.4
Goddard	92	20.1	84	17.9	100	21.2	85	18.0	101	21.3	19.7
Goodland	65	14.3	73	16.0	67	15.0	56	12.6	57	12.9	14.2
Great Bend	226	14.2	218	13.8	251	16.0	223	14.4	193	12.6	14.2
Hays	277	13.2	254	12.1	273	12.9	278	13.2	215	10.3	12.3
Haysville	176	16.0	139	12.5	187	16.7	180	16.0	140	12.4	14.7
Herington	27	11.0	24	9.9	27	11.3	32	13.5	28	12.0	11.5
Hesston	41	11.0	47	12.6	38	10.0	37	9.7	34	9.0	10.4
Hiawatha	48	15.1	36	11.6	39	12.6	36	11.7	43	13.7	13.0
Hillsboro	24	8.3	38	13.1	25	8.7	27	9.4	29	10.2	9.9
Hoisington	39	14.5	33	12.4	35	13.3	23	8.9	27	10.6	12.0
Holton	56	17.1	52	15.7	51	15.6	44	13.4	56	17.1	15.8
Hugoton	74	18.6	50	12.6	59	14.9	56	14.6	53	13.8	14.9
Hutchinson	526	12.6	510	12.2	481	11.6	462	11.2	479	11.7	11.9
Independence	141	15.3	149	16.3	171	19.1	132	15.0	110	12.6	15.7
Iola	76	13.5	92	16.6	74	13.5	61	11.2	74	13.8	13.7
Junction City	627	24.7	615	24.9	651	26.4	554	22.9	504	21.9	24.2
Kansas City	2,519	17.0	2,607	17.4	2,598	17.2	2,524	16.6	2,369	15.5	16.7

Table C21
Live Births by Selected City of Residence
by Number and Rate*
Kansas, 2013-2017

City of Residence	Year										5-Year Rate
	2013		2014		2015		2016		2017		
	Number	Rate									
Kingman	44	13.9	28	9.0	41	13.3	35	11.7	39	13.3	12.2
Lansing	84	7.2	101	8.6	100	8.5	95	8.0	81	6.8	7.8
Larned	46	11.4	51	12.7	50	12.6	48	12.3	59	15.3	12.8
Lawrence	1,021	11.2	1,019	11.0	1,107	11.8	969	10.2	950	9.8	10.8
Leavenworth	416	11.6	414	11.5	463	12.9	425	11.8	418	11.5	11.9
Leawood	261	7.9	256	7.4	271	7.8	268	7.8	249	7.2	7.6
Lenexa	601	11.9	657	12.9	652	12.4	608	11.5	630	11.8	12.1
Liberal	409	19.5	414	19.7	407	19.6	403	19.8	395	19.9	19.7
Lindsborg	32	9.2	31	9.0	24	7.1	27	8.1	30	9.2	8.5
Louisburg	56	13.0	74	17.1	66	15.4	59	13.5	69	15.4	14.9
Lyons	58	15.5	51	13.6	61	16.4	53	14.4	43	12.1	14.4
McPherson	167	12.5	179	13.6	174	13.2	154	11.7	183	13.9	13.0
Maize	68	17.8	81	19.9	69	15.8	76	17.1	70	15.4	17.1
Manhattan	701	12.5	770	13.7	692	12.3	680	12.4	660	12.0	12.6
Marysville	47	14.3	56	17.0	52	15.6	41	12.4	48	14.7	14.8
Merriam	141	12.5	142	12.6	145	12.8	120	10.7	137	12.2	12.2
Mission	156	16.4	178	18.7	175	18.4	154	16.3	140	14.9	17.0
Mission Hills	21	5.9	35	9.7	29	8.1	42	11.7	36	10.1	9.1
Mulvane	101	16.1	52	8.3	75	11.9	67	10.6	71	11.2	11.6
Newton	295	15.4	259	13.5	255	13.3	235	12.3	239	12.7	13.4
Norton	38	13.2	39	13.7	36	12.7	48	17.1	30	10.8	13.5
Olathe	1,990	15.1	1,962	14.7	1,901	14.2	1,889	13.9	1,874	13.6	14.3
Osage City	28	9.7	33	11.5	36	12.7	40	14.1	36	12.9	12.2
Osawatomie	42	9.6	66	15.1	58	13.5	48	11.1	65	15.1	12.9
Ottawa	188	15.1	176	14.2	185	14.9	173	14.0	171	13.9	14.4
Overland Park	2,169	12.0	2,080	11.3	2,260	12.1	2,187	11.6	2,169	11.3	11.7
Paola	84	14.9	92	16.4	74	13.4	72	12.9	99	17.7	15.1
Park City	83	11.1	119	15.7	116	15.2	114	14.9	131	16.9	14.8
Parsons	165	16.2	137	13.5	141	14.0	162	16.4	135	13.8	14.8
Phillipsburg	37	14.6	33	12.9	30	11.9	35	13.8	33	13.1	13.3
Pittsburg	305	15.0	325	15.9	278	13.6	285	14.0	270	13.4	14.4
Prairie Village	343	15.7	324	14.8	345	15.8	322	14.8	335	15.0	15.2
Pratt	95	13.6	115	16.5	108	15.8	91	13.4	80	11.9	14.2
Roeland Park	100	14.6	119	17.4	125	18.3	122	18.0	90	13.3	16.3
Rose Hill	56	14.2	62	15.7	58	14.5	57	14.2	55	13.8	14.5
Russell	71	15.9	55	12.3	55	12.1	51	11.3	47	10.5	12.4
Sabetha	37	14.4	43	16.8	46	17.8	38	14.7	44	17.1	16.2
St Marys	68	25.4	79	29.7	71	26.7	87	32.7	73	27.6	28.4
Salina	703	14.7	683	14.3	669	14.0	592	12.5	651	13.9	13.9
Scott City	52	13.4	60	15.3	45	11.7	51	13.1	46	11.9	13.1
Shawnee	807	12.5	896	13.9	858	13.2	863	13.2	814	12.4	13.1
Spring Hill	87	15.2	114	19.3	102	17.1	99	16.1	101	15.3	16.6
Tonganoxie	101	19.6	94	18.1	96	18.3	98	18.4	73	13.4	17.5
Topeka	2,004	15.7	1,961	15.4	1,894	14.9	1,832	14.4	1,721	13.6	14.8
Ulysses	110	17.5	97	15.7	96	15.7	111	18.4	88	14.9	16.5
Valley Center	95	13.6	104	14.7	107	14.8	110	15.0	93	12.7	14.2
Wamego	62	13.5	73	15.9	78	16.9	84	17.8	62	13.2	15.5
Wellington	98	12.3	97	12.2	114	14.3	92	11.7	110	14.1	12.9
Wichita	6,170	16.0	6,058	15.6	5,946	15.2	5,927	15.2	5,628	14.4	15.3
Winfield	159	12.9	162	13.2	151	12.4	131	10.7	150	12.4	12.3

*Rate per 1,000 population

Percent of Births to Unmarried Mothers,
Kansas and the U.S., 1919-2017



*1919-1939, not available; 2017 not available

Figure C7

Table C22
 Births to Unmarried Mothers by County of Residence and Peer Group*
 by Age-Group and Population Group of Mother
 Kansas, 2017

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	12,990	13	1,800	4,790	3,541	1,854	817	168	7	0	7,481	1,680	103	154	547	3,018	7
Allen	62	0	12	25	19	3	3	0	0	0	56	1	0	0	3	2	0
Anderson	33	0	7	14	5	3	3	1	0	0	30	0	0	0	2	1	0
Atchison	77	0	11	35	19	7	5	0	0	0	63	4	0	0	6	4	0
Barber	18	0	2	6	6	2	2	0	0	0	18	0	0	0	0	0	0
Barton	123	0	20	47	35	15	5	1	0	0	80	2	0	0	4	37	0
Bourbon	77	0	14	32	24	5	1	1	0	0	72	1	0	0	3	1	0
Brown	49	0	12	17	15	4	1	0	0	0	34	0	9	0	3	3	0
Butler	246	0	42	80	74	31	18	1	0	0	220	5	2	2	2	15	0
Chase	8	0	0	5	1	2	0	0	0	0	6	0	0	0	2	0	0
Chautauqua	15	0	2	5	6	1	1	0	0	0	10	0	2	0	1	2	0
Cherokee	103	0	17	51	16	14	5	0	0	0	93	1	1	0	7	1	0
Cheyenne	10	0	0	5	2	1	2	0	0	0	7	0	0	0	0	3	0
Clark	5	0	1	1	2	1	0	0	0	0	4	0	0	0	0	1	0
Clay	31	0	3	13	12	3	0	0	0	0	29	0	0	0	0	2	0
Cloud	47	0	9	23	11	2	2	0	0	0	42	0	0	0	2	3	0
Coffey	26	0	4	10	11	1	0	0	0	0	23	0	0	0	2	1	0
Comanche	5	0	1	2	2	0	0	0	0	0	4	0	0	0	0	1	0
Cowley	205	0	30	83	58	24	7	3	0	0	147	5	2	1	4	46	0
Crawford	195	0	22	74	51	32	12	4	0	0	153	11	0	1	3	27	0
Decatur	7	0	2	2	1	2	0	0	0	0	7	0	0	0	0	0	0
Dickinson	63	0	6	28	18	8	3	0	0	0	54	3	0	0	4	2	0
Doniphan	25	0	1	12	9	3	0	0	0	0	23	0	0	0	2	0	0
Douglas	357	0	47	117	103	54	28	6	2	0	233	31	19	8	29	37	0
Edwards	10	0	1	4	0	2	2	1	0	0	5	0	0	0	1	4	0
Elk	8	0	1	4	0	3	0	0	0	0	7	0	1	0	0	0	0
Ellis	95	0	13	34	29	13	5	1	0	0	72	0	0	1	2	20	0
Ellsworth	19	0	2	8	7	2	0	0	0	0	18	0	0	0	0	1	0
Finney	301	3	41	115	82	40	15	5	0	0	58	7	0	7	0	229	0
Ford	281	0	52	89	60	53	27	0	0	0	64	7	1	1	2	206	0
Franklin	120	0	25	42	31	12	8	2	0	0	113	0	0	0	1	6	0
Geary	174	0	27	68	50	17	9	3	0	0	75	46	0	6	20	27	0
Gove	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0
Graham	7	0	0	6	1	0	0	0	0	0	6	1	0	0	0	0	0
Grant	41	0	8	10	12	9	1	1	0	0	9	0	0	0	0	32	0
Gray	11	0	2	3	3	2	1	0	0	0	8	0	0	0	0	3	0
Greeley	5	0	2	2	0	1	0	0	0	0	2	0	0	0	0	3	0
Greenwood	20	0	4	11	0	3	2	0	0	0	19	0	0	0	1	0	0
Hamilton	12	0	1	8	2	1	0	0	0	0	7	0	0	0	0	5	0
Harper	22	0	6	9	3	3	1	0	0	0	19	1	0	0	1	1	0
Harvey	149	0	31	52	45	17	4	0	0	0	112	1	0	0	6	30	0
Haskell	11	0	1	7	2	1	0	0	0	0	8	0	0	0	1	2	0
Hodgeman	4	0	0	3	0	1	0	0	0	0	3	0	0	0	0	1	0
Jackson	63	0	13	27	11	8	3	1	0	0	35	0	18	0	3	7	0
Jefferson	71	0	12	32	16	7	4	0	0	0	65	0	0	1	2	3	0
Jewell	5	0	0	4	0	1	0	0	0	0	5	0	0	0	0	0	0
Johnson	1,430	0	125	449	422	264	132	37	1	0	843	195	3	22	66	299	2
Kearny	16	0	1	8	3	2	2	0	0	0	8	0	0	0	0	8	0
Kingman	25	0	0	12	9	2	2	0	0	0	24	0	0	0	1	0	0
Kiowa	5	0	2	0	3	0	0	0	0	0	5	0	0	0	0	0	0
Labette	125	0	12	51	40	13	7	2	0	0	104	8	5	0	4	4	0
Lane	3	0	0	1	2	0	0	0	0	0	3	0	0	0	0	0	0
Leavenworth	297	0	36	104	94	36	22	5	0	0	205	41	0	1	21	28	1
Lincoln	5	0	0	2	2	1	0	0	0	0	5	0	0	0	0	0	0
Linn	46	0	5	17	15	6	3	0	0	0	43	0	0	0	1	2	0
Logan	13	0	1	4	5	3	0	0	0	0	8	0	0	0	0	5	0

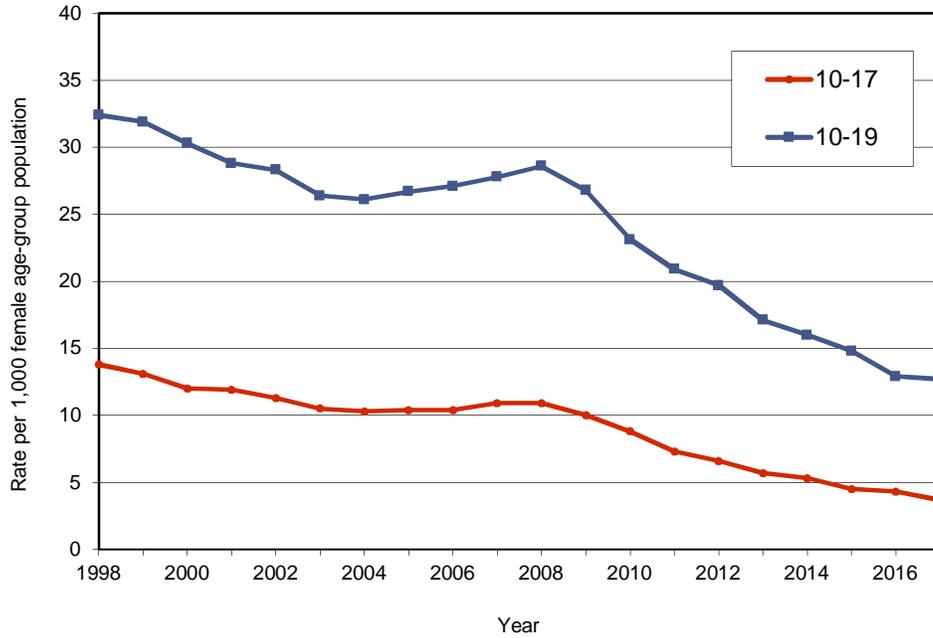
Table C22
 Births to Unmarried Mothers by County of Residence and Peer Group*
 by Age-Group and Population Group of Mother
 Kansas, 2017

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	158	0	21	62	42	20	11	1	1	0	85	4	1	0	5	63	0
McPherson	95	0	9	35	29	17	5	0	0	0	81	1	1	0	1	10	1
Marion	29	0	5	16	5	2	1	0	0	0	23	0	1	0	1	4	0
Marshall	34	0	1	17	9	5	1	0	1	0	28	1	0	0	0	5	0
Meade	12	0	1	5	1	3	2	0	0	0	10	0	0	0	0	2	0
Miami	143	0	27	54	37	17	5	3	0	0	132	2	0	0	6	3	0
Mitchell	17	0	2	5	7	1	1	1	0	0	15	0	0	0	0	2	0
Montgomery	174	0	21	65	58	24	4	2	0	0	130	18	4	1	12	9	0
Morris	19	0	0	11	5	1	2	0	0	0	18	0	0	0	0	1	0
Morton	18	1	4	6	2	4	1	0	0	0	11	0	0	0	0	7	0
Nemaha	33	0	5	11	8	4	3	2	0	0	31	1	0	0	0	1	0
Neosho	87	0	15	41	14	15	2	0	0	0	72	3	0	0	6	6	0
Ness	4	0	0	4	0	0	0	0	0	0	4	0	0	0	0	0	0
Norton	16	0	1	9	5	0	1	0	0	0	13	0	0	0	0	3	0
Osage	67	0	11	24	17	10	4	1	0	0	62	0	0	0	2	3	0
Osborne	8	0	2	3	2	1	0	0	0	0	8	0	0	0	0	0	0
Ottawa	10	0	0	4	4	2	0	0	0	0	9	0	0	0	1	0	0
Pawnee	39	0	5	18	11	2	3	0	0	0	33	0	0	0	2	4	0
Phillips	17	0	1	5	6	4	0	1	0	0	16	0	0	0	0	1	0
Pottawatomie	42	0	6	18	10	6	2	0	0	0	36	0	1	0	2	3	0
Pratt	36	0	7	14	14	1	0	0	0	0	31	1	0	0	1	3	0
Rawlins	12	0	1	4	3	3	1	0	0	0	11	0	0	0	0	1	0
Reno	278	0	47	104	72	31	18	5	1	0	199	6	3	1	15	53	1
Republic	22	0	2	13	4	2	0	1	0	0	20	0	0	0	1	1	0
Rice	41	0	8	15	8	6	4	0	0	0	31	0	0	0	0	10	0
Riley	190	0	23	73	49	33	8	4	0	0	124	22	1	0	10	33	0
Rooks	15	0	4	5	4	1	1	0	0	0	13	0	0	0	0	2	0
Rush	12	0	1	6	3	2	0	0	0	0	11	1	0	0	0	0	0
Russell	27	0	3	8	7	7	2	0	0	0	25	0	0	0	1	1	0
Saline	311	0	37	115	96	48	13	2	0	0	207	11	1	3	19	70	0
Scott	15	0	1	10	4	0	0	0	0	0	12	0	0	0	0	3	0
Sedgwick	2,912	5	443	1,068	781	407	174	34	0	0	1,435	635	7	71	106	658	0
Seward	201	0	32	78	49	28	13	1	0	0	28	2	0	0	3	168	0
Shawnee	970	0	127	363	253	159	57	11	0	0	509	149	14	4	86	208	0
Sheridan	2	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0
Sherman	22	0	4	8	2	5	3	0	0	0	20	0	0	0	0	2	0
Smith	10	0	3	4	2	0	1	0	0	0	7	0	1	0	2	0	0
Stafford	9	0	0	4	1	1	2	1	0	0	5	0	0	0	0	4	0
Stanton	9	0	2	4	2	1	0	0	0	0	4	0	0	0	0	5	0
Stevens	23	0	3	10	5	3	2	0	0	0	12	0	0	0	1	10	0
Sumner	108	0	14	41	36	13	4	0	0	0	102	2	0	0	0	4	0
Thomas	38	0	6	17	6	8	1	0	0	0	32	1	0	0	0	5	0
Trego	7	0	3	2	1	1	0	0	0	0	7	0	0	0	0	0	0
Wabaunsee	17	0	3	7	4	3	0	0	0	0	17	0	0	0	0	0	0
Wallace	2	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0
Washington	8	0	1	2	3	0	2	0	0	0	5	0	0	0	1	2	0
Wichita	7	0	1	2	4	0	0	0	0	0	3	0	0	0	0	4	0
Wilson	49	0	7	23	9	6	3	1	0	0	44	0	1	0	0	4	0
Woodson	15	0	3	7	2	3	0	0	0	0	13	0	0	0	0	2	0
Wyandotte	1,418	4	186	496	394	203	112	22	1	0	368	449	4	23	51	521	2
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Peer Group																	
Frontier	331	1	49	141	67	49	22	2	0	0	256	2	4	0	7	62	0
Rural	866	0	123	365	231	98	40	8	1	0	715	5	11	0	22	113	0
Densely -Settled Rural	2,429	3	362	960	633	322	131	17	1	0	1,452	51	30	11	65	819	1
Semi-Urban	1,980	0	302	727	563	262	99	26	1	0	1,465	122	11	14	94	273	1
Urban	7,384	9	964	2,597	2,047	1,123	525	115	4	0	3,593	1,500	47	129	359	1,751	5

* 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 1998-2017



Residence Data

Figure C8

Table C23
Teenage Pregnancy Numbers and Rates*
by Year by Selected Age-Groups
Kansas, 1998-2017

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
1998	6,444	108	2,087	4,249	6,336	32.4	1.1	34.1	13.8	62.0
1999	6,402	103	1,979	4,320	6,299	31.9	1.1	32.4	13.1	60.7
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

*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, 2017

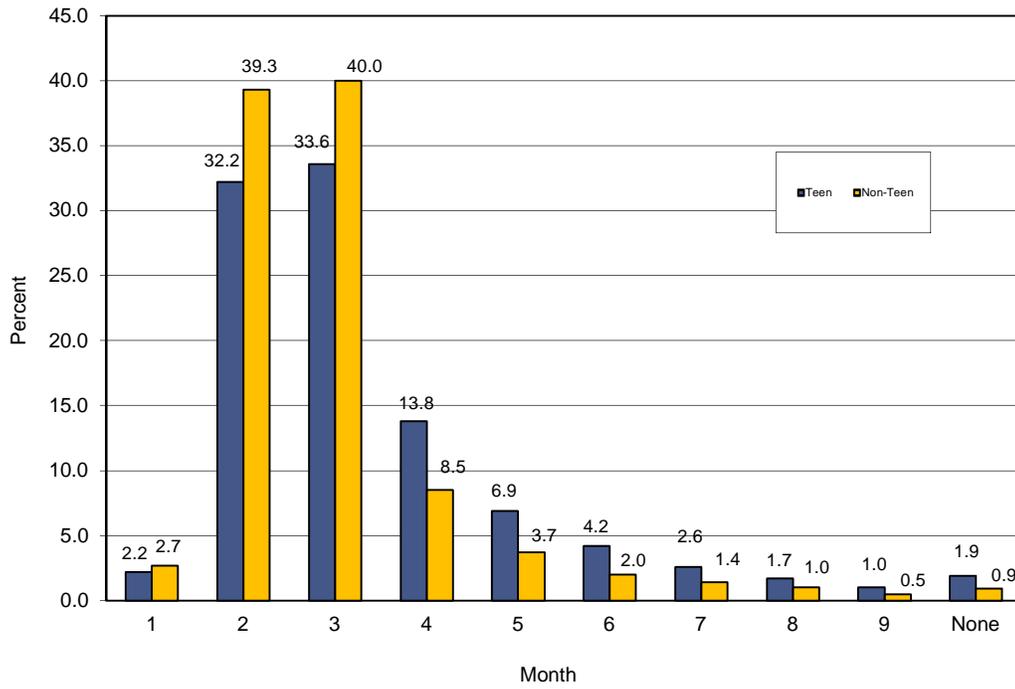


Figure C9

Teenage Live Births by Population Group
Kansas, 2017

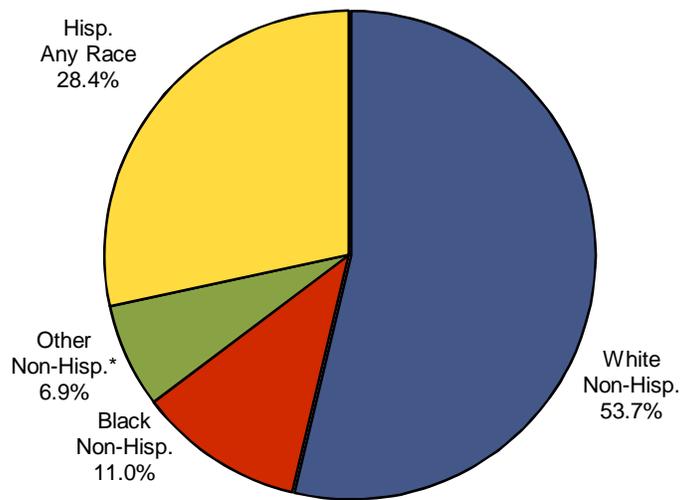


Figure C10

*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, 2013-2017

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
2013	14	0.2	433	3.9	1,856	26.3	1,870	13.4	2	0.3	89	7.1	353	44.7	355	22.4	17	1.0	293	11.5	872	60.7	889	28.7
2014	15	0.2	416	3.8	1,737	24.8	1,752	12.6	6	0.8	84	6.7	317	40.1	323	20.4	11	0.6	257	9.9	808	54.8	819	25.8
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

*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.

Table C25
 Teenage Pregnancies by County of Residence and Peer Group'
 by Age-Group and Component
 Kansas, 2017

County of Residence	Live Births		Stillbirths		Abortions		Total Pregnancies			Teenage ^f 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	13	2,053	0	11	10	382	23	2,446	2,469	12.7
Allen	0	12	0	0	0	0	0	12	12	14.1
Anderson	0	7	0	0	0	0	0	7	7	13.6
Atchison	0	12	0	0	0	0	0	12	12	9.4
Barber	0	2	0	0	0	0	0	2	2	8.1
Barton	0	22	0	1	0	4	0	27	27	15.4
Bourbon	0	15	0	0	0	3	0	18	18	17.2
Brown	0	14	0	0	0	0	0	14	14	22.6
Butler	0	50	0	1	0	5	0	56	56	11.0
Chase	0	0	0	0	0	0	0	0	0	0.0
Chautauqua	0	2	0	0	0	0	0	2	2	11.2
Cherokee	0	18	0	0	0	2	0	20	20	15.0
Cheyenne	0	0	0	0	0	0	0	0	0	0.0
Clark	0	1	0	0	0	0	0	1	1	6.7
Clay	0	3	0	0	0	0	0	3	3	6.0
Cloud	0	10	0	0	0	0	0	10	10	17.4
Coffey	0	5	0	0	0	1	0	6	6	11.8
Comanche	0	1	0	0	0	0	0	1	1	8.0
Cowley	0	34	0	0	0	2	0	36	36	14.9
Crawford	0	27	0	0	0	6	0	33	33	12.5
Decatur	0	2	0	0	0	0	0	2	2	13.8
Dickinson	0	8	0	0	0	1	0	9	9	7.4
Doniphan	0	1	0	0	0	2	0	3	3	5.7
Douglas	0	50	0	0	0	27	0	77	77	9.0
Edwards	0	1	0	0	0	0	0	1	1	5.2
Elk	0	1	0	0	0	0	0	1	1	7.4
Ellis	0	17	0	0	0	9	0	26	26	14.2
Ellsworth	0	2	0	0	0	0	0	2	2	7.0
Finney	3	48	0	0	0	3	3	51	54	18.6
Ford	0	63	0	0	1	5	1	68	69	27.5
Franklin	0	29	0	0	0	3	0	32	32	18.0
Geary	0	63	0	0	1	12	1	75	76	39.4
Gove	0	0	0	0	0	0	0	0	0	0.0
Graham	0	0	0	0	0	0	0	0	0	0.0
Grant	0	9	0	0	0	2	0	11	11	17.5
Gray	0	2	0	0	0	0	0	2	2	4.1
Greeley	0	3	0	0	0	0	0	3	3	34.1
Greenwood	0	4	0	0	0	0	0	4	4	11.1
Hamilton	0	1	0	0	0	0	0	1	1	5.6
Harper	0	8	0	0	0	0	0	8	8	24.2
Harvey	0	32	0	0	0	3	0	35	35	14.5
Haskell	0	2	0	0	0	2	0	4	4	13.2
Hodgeman	0	0	0	0	0	0	0	0	0	0.0
Jackson	0	14	0	0	0	0	0	14	14	15.8
Jefferson	0	12	0	0	0	2	0	14	14	11.6
Jewell	0	0	0	0	0	0	0	0	0	0.0
Johnson	0	134	0	1	1	51	1	186	187	4.8
Kearny	0	2	0	0	0	1	0	3	3	10.9
Kingman	0	2	0	0	0	0	0	2	2	4.2
Kiowa	0	2	0	0	0	0	0	2	2	11.5
Labette	0	21	0	0	0	0	0	21	21	17.2
Lane	0	0	0	0	0	0	0	0	0	0.0
Leavenworth	0	47	0	0	1	8	1	55	56	11.3
Lincoln	0	0	0	0	0	0	0	0	0	0.0
Linn	0	6	0	0	0	3	0	9	9	14.2
Logan	0	1	0	0	0	0	0	1	1	5.5

Table C25
 Teenage Pregnancies by County of Residence and Peer Group^{*}
 by Age-Group and Component
 Kansas, 2017

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	25	0	0	0	4	0	29	29	11.8
McPherson	0	10	0	0	0	1	0	11	11	5.8
Marion	0	5	0	0	0	0	0	5	5	6.4
Marshall	0	1	0	0	0	0	0	1	1	1.6
Meade	0	1	0	0	0	0	0	1	1	3.4
Miami	0	30	0	0	0	8	0	38	38	16.1
Mitchell	0	2	0	0	0	1	0	3	3	7.9
Montgomery	0	22	0	0	0	0	0	22	22	10.5
Morris	0	3	0	0	0	0	0	3	3	10.0
Morton	1	5	0	0	0	0	1	5	6	31.7
Nemaha	0	7	0	0	0	0	0	7	7	10.6
Neosho	0	16	0	0	0	1	0	17	17	15.7
Ness	0	0	0	0	0	0	0	0	0	0.0
Norton	0	2	0	0	0	0	0	2	2	7.1
Osage	0	11	0	0	0	2	0	13	13	13.1
Osborne	0	2	0	0	0	0	0	2	2	10.8
Ottawa	0	0	0	0	0	0	0	0	0	0.0
Pawnee	0	6	0	1	0	0	0	7	7	25.5
Phillips	0	1	0	0	0	0	0	1	1	2.9
Pottawatomie	0	8	0	0	0	4	0	12	12	6.8
Pratt	0	7	0	0	0	2	0	9	9	15.3
Rawlins	0	1	0	0	0	0	0	1	1	7.9
Reno	0	54	0	0	0	4	0	58	58	14.2
Republic	0	2	0	0	0	0	0	2	2	8.2
Rice	0	9	0	0	0	3	0	12	12	18.2
Riley	0	44	0	0	0	12	0	56	56	11.1
Rooks	0	4	0	0	0	0	0	4	4	12.7
Rush	0	1	0	0	0	0	0	1	1	5.7
Russell	0	3	0	0	0	1	0	4	4	10.7
Saline	0	41	0	0	0	10	0	51	51	14.9
Scott	0	2	0	0	0	0	0	2	2	5.7
Sedgwick	5	474	0	3	4	81	9	558	567	16.3
Seward	0	36	0	0	1	4	1	40	41	23.5
Shawnee	0	133	0	0	1	24	1	157	158	13.7
Sheridan	0	2	0	0	0	0	0	2	2	12.2
Sherman	0	4	0	0	0	2	0	6	6	15.9
Smith	0	3	0	0	0	0	0	3	3	14.5
Stafford	0	1	0	1	0	0	0	2	2	8.1
Stanton	0	2	0	0	0	0	0	2	2	12.8
Stevens	0	3	0	0	0	0	0	3	3	6.5
Sumner	0	14	0	0	0	1	0	15	15	9.9
Thomas	0	6	0	0	0	0	0	6	6	10.4
Trego	0	3	0	0	0	0	0	3	3	20.7
Wabaunsee	0	3	0	0	0	0	0	3	3	6.9
Wallace	0	0	0	0	0	0	0	0	0	0.0
Washington	0	1	0	0	0	0	0	1	1	3.2
Wichita	0	1	0	0	0	0	0	1	1	6.3
Wilson	0	9	0	0	0	0	0	9	9	15.7
Woodson	0	4	0	0	0	1	0	5	5	26.2
Wyandotte	4	207	0	3	0	43	4	253	257	22.6
n.s.	0	0	0	0	0	16	0	16	16	n/a
Peer Group										
Frontier	1	53	0	1	0	3	1	57	58	8.8
Rural	0	155	0	1	0	17	0	173	173	10.9
Densely -Settled Rural	3	408	0	1	2	49	5	458	463	14.9
Semi-Urban	0	392	0	1	1	63	1	456	457	14.8
Urban	9	1,045	0	7	7	234	16	1,286	1,302	11.8

^{*} 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, 2017

County of Residence	Live Births	Stillbirths	Abortions	Total Pregnancies	Pregnancy Rate [†]
Kansas	471	4	100	575	3.7
Allen	5	0	0	5	7.5
Anderson	0	0	0	0	0.0
Atchison	2	0	0	2	2.3
Barber	0	0	0	0	0.0
Barton	5	0	1	6	4.2
Bourbon	4	0	0	4	4.6
Brown	2	0	0	2	3.7
Butler	7	0	2	9	2.1
Chase	0	0	0	0	0.0
Chautauqua	0	0	0	0	0.0
Cherokee	2	0	1	3	2.7
Cheyenne	0	0	0	0	0.0
Clark	1	0	0	1	8.3
Clay	0	0	0	0	0.0
Cloud	0	0	0	0	0.0
Coffey	2	0	0	2	4.7
Comanche	0	0	0	0	0.0
Cowley	6	0	0	6	3.3
Crawford	7	0	0	7	3.8
Decatur	0	0	0	0	0.0
Dickinson	3	0	0	3	2.9
Doniphan	0	0	0	0	0.0
Douglas	13	0	4	17	3.6
Edwards	1	0	0	1	6.4
Elk	0	0	0	0	0.0
Ellis	4	0	0	4	3.2
Ellsworth	0	0	0	0	0.0
Finney	9	0	1	10	4.3
Ford	19	0	3	22	10.7
Franklin	5	0	2	7	4.9
Geary	5	0	2	7	4.4
Gove	0	0	0	0	0.0
Graham	0	0	0	0	0.0
Grant	3	0	2	5	9.6
Gray	0	0	0	0	0.0
Greeley	1	0	0	1	13.9
Greenwood	0	0	0	0	0.0
Hamilton	0	0	0	0	0.0
Harper	3	0	0	3	10.6
Harvey	10	0	1	11	5.8
Haskell	0	0	0	0	0.0
Hodgeman	0	0	0	0	0.0
Jackson	3	0	0	3	4.1
Jefferson	1	0	1	2	1.9
Jewell	0	0	0	0	0.0
Johnson	32	0	17	49	1.5
Kearny	0	0	0	0	0.0
Kingman	1	0	0	1	2.5
Kiowa	2	0	0	2	16.4
Labette	1	0	0	1	1.0
Lane	0	0	0	0	0.0
Leavenworth	7	0	1	8	1.9
Lincoln	0	0	0	0	0.0
Linn	0	0	1	1	1.9
Logan	1	0	0	1	6.4

Table C26
 Teenage Pregnancies for 10-17 Year Olds
 by County of Residence and Peer Group*, by Component
 Kansas, 2017

County of Residence	Live Births	Stillbirths	Abortions	Total Pregnancies	Pregnancy Rate†
Lyon	4	0	0	4	2.4
McPherson	2	0	0	2	1.3
Marion	0	0	0	0	0.0
Marshall	0	0	0	0	0.0
Meade	0	0	0	0	0.0
Miami	5	0	2	7	3.5
Mitchell	0	0	0	0	0.0
Montgomery	4	0	0	4	2.4
Morris	0	0	0	0	0.0
Morton	1	0	0	1	6.3
Nemaha	3	0	0	3	5.5
Neosho	3	0	0	3	3.4
Ness	0	0	0	0	0.0
Norton	0	0	0	0	0.0
Osage	3	0	1	4	4.7
Osborne	0	0	0	0	0.0
Ottawa	0	0	0	0	0.0
Pawnee	2	0	0	2	8.8
Phillips	0	0	0	0	0.0
Pottawatomie	3	0	0	3	2.0
Pratt	1	0	0	1	2.2
Rawlins	1	0	0	1	9.4
Reno	6	0	3	9	2.7
Republic	0	0	0	0	0.0
Rice	1	0	2	3	6.1
Riley	5	0	1	6	2.6
Rooks	2	0	0	2	7.4
Rush	0	0	0	0	0.0
Russell	2	0	0	2	6.4
Saline	10	0	1	11	4.0
Scott	0	0	0	0	0.0
Sedgwick	132	2	30	164	5.7
Seward	11	0	3	14	10.0
Shawnee	32	0	4	36	3.8
Sheridan	0	0	0	0	0.0
Sherman	1	0	0	1	3.2
Smith	1	0	0	1	5.8
Stafford	0	0	0	0	0.0
Stanton	1	0	0	1	8.3
Stevens	1	0	0	1	2.4
Sumner	2	0	0	2	1.6
Thomas	0	0	0	0	0.0
Trego	1	0	0	1	8.0
Wabaunsee	0	0	0	0	0.0
Wallace	0	0	0	0	0.0
Washington	0	0	0	0	0.0
Wichita	0	0	0	0	0.0
Wilson	1	0	0	1	2.1
Woodson	0	0	0	0	0.0
Wyandotte	63	2	7	72	7.5
n.s.	0	0	7	7	n/a
Peer Group					
Frontier	14	0	0	14	2.5
Rural	24	0	5	29	2.2
Densely -Settled Rural	90	0	11	101	4.1
Semi-Urban	64	0	14	78	3.4
Urban	279	4	63	346	3.9

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

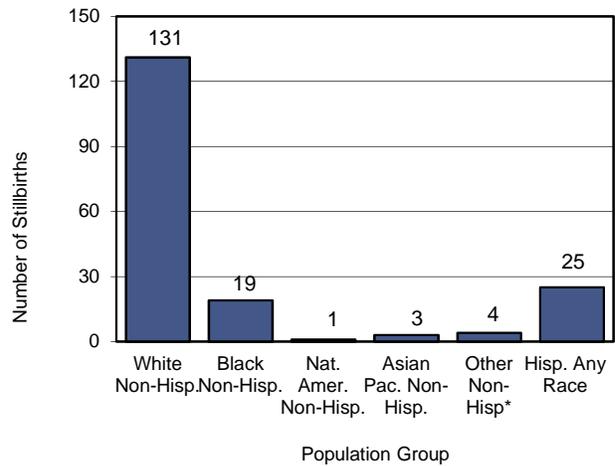
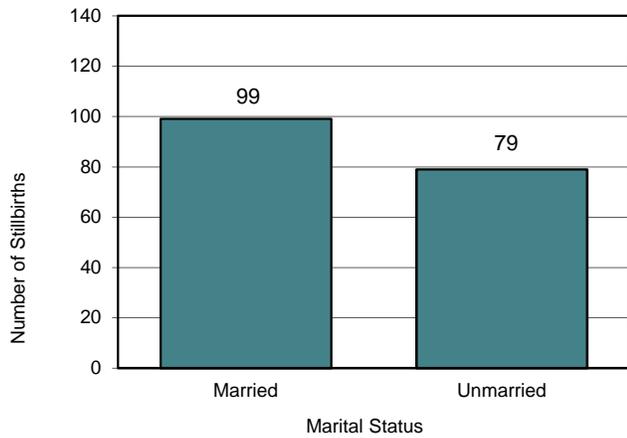
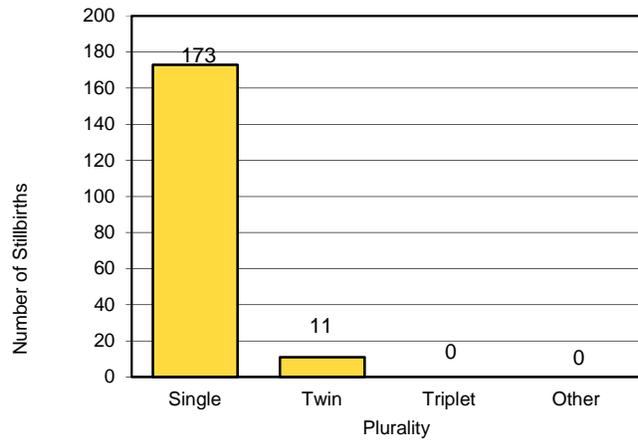
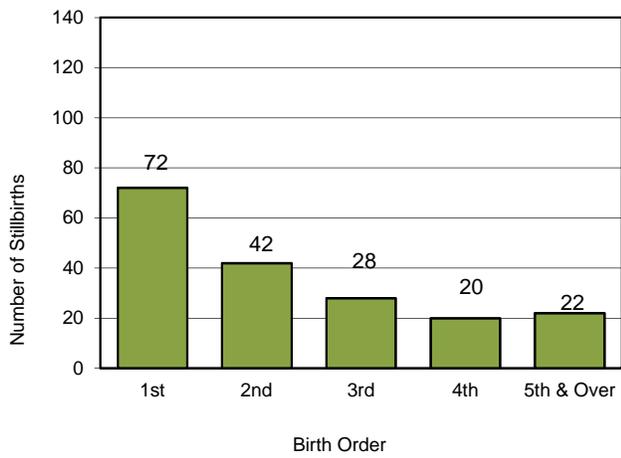
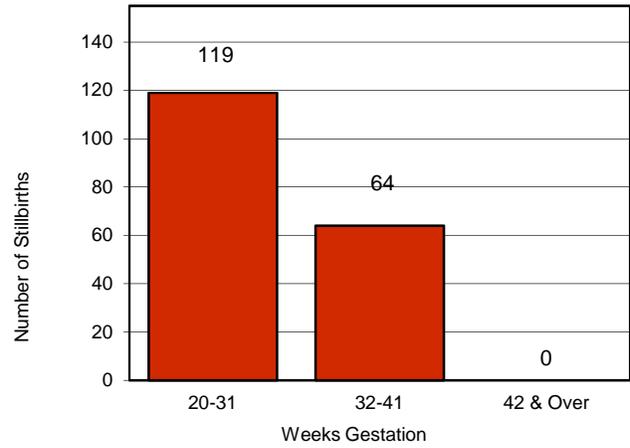
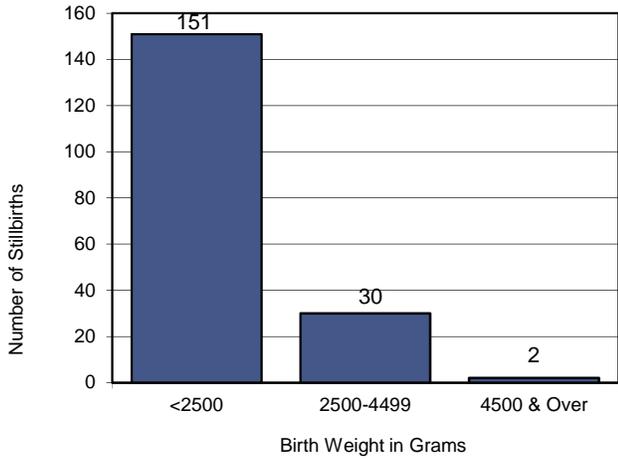
D. FETAL AND INFANT MORTALITY

Table D1
Number of Stillbirths by Cause of Death and Weeks Gestation
Kansas, 2017

Cause of Death*	Total Stillbirths				
		20-31	32-41	42 & Over	n.s.
All Causes	184	119	64	0	1
Certain Conditions Originating in the Perinatal Period	165	107	57	0	1
-Fetus Affected by Maternal Conditions	20	10	10	0	0
-Fetus Affected by Maternal Complications of Pregnancy	23	20	3	0	0
-Fetus Affected by Complications of Placenta, Cord & Membrane	50	28	22	0	0
-Fetus Affected by Complications of Labor & Delivery	1	0	0	0	1
-Disorders Related to Short Gestation & Low Birth Weight	3	3	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	60	40	20	0	0
-Other Perinatal Conditions	8	6	2	0	0
Congenital Anomalies	18	12	6	0	0
All other Causes	1	0	1	0	0

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

Number of Stillbirths
By Selected Characteristics
Kansas, 2017



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

Figure D1

Table D2
Stillbirths by County of Residence and Peer Group*
by Age-Group of Mother
Kansas, 2017

County of Residence	Total	Age-Group of Mother								
		10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	n.s.
Lyon	2	0	0	0	0	2	0	0	0	0
McPherson	3	0	0	0	2	1	0	0	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	1	0	0	0	1	0	0	0	0	0
Miami	1	0	0	0	1	0	0	0	0	0
Mitchell	0	0	0	0	0	0	0	0	0	0
Montgomery	1	0	0	0	0	1	0	0	0	0
Morris	0	0	0	0	0	0	0	0	0	0
Morton	0	0	0	0	0	0	0	0	0	0
Nemaha	2	0	0	0	0	2	0	0	0	0
Neosho	0	0	0	0	0	0	0	0	0	0
Ness	0	0	0	0	0	0	0	0	0	0
Norton	1	0	0	0	0	1	0	0	0	0
Osage	0	0	0	0	0	0	0	0	0	0
Osborne	0	0	0	0	0	0	0	0	0	0
Ottawa	0	0	0	0	0	0	0	0	0	0
Pawnee	1	0	1	0	0	0	0	0	0	0
Phillips	1	0	0	0	0	0	1	0	0	0
Pottawatomie	0	0	0	0	0	0	0	0	0	0
Pratt	2	0	0	0	1	1	0	0	0	0
Rawlins	0	0	0	0	0	0	0	0	0	0
Reno	3	0	0	0	2	1	0	0	0	0
Republic	2	0	0	1	1	0	0	0	0	0
Rice	0	0	0	0	0	0	0	0	0	0
Riley	4	0	0	1	1	1	1	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	2	0	0	0	0	1	0	0	1	0
Saline	1	0	0	0	1	0	0	0	0	0
Scott	0	0	0	0	0	0	0	0	0	0
Sedgwick	31	0	3	5	5	10	6	1	1	0
Seward	2	0	0	1	0	1	0	0	0	0
Shawnee	12	0	0	3	5	3	0	1	0	0
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	1	0	1	0	0	0	0	0	0	0
Stanton	0	0	0	0	0	0	0	0	0	0
Stevens	1	0	0	0	1	0	0	0	0	0
Sumner	2	0	0	0	1	1	0	0	0	0
Thomas	1	0	0	0	1	0	0	0	0	0
Trego	0	0	0	0	0	0	0	0	0	0
Wabaunsee	1	0	0	0	1	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	19	0	3	3	5	3	4	1	0	0
n.s.	0	0	0	0	0	0	0	0	0	0
Peer Group										
Frontier	8	0	1	2	4	1	0	0	0	0
Rural	28	0	1	4	10	9	3	0	1	0
Densely -Settled Rural	29	0	1	8	10	6	1	3	0	0
Semi-Urban	25	0	1	6	8	3	6	1	0	0
Urban	94	0	7	15	21	26	19	5	1	0

* See Technical Notes for Peer Group definition.

Table D3
Total Reported Abortions and Ratios of Abortions to Live Births*
Kansas, 1971-2017

Year	Total*	Out of State Residents	Kansas		n.s.
			Residents	Ratio [†]	
1971	9,472	5,763	3,709	103.0	0
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

* 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, 1972-2017

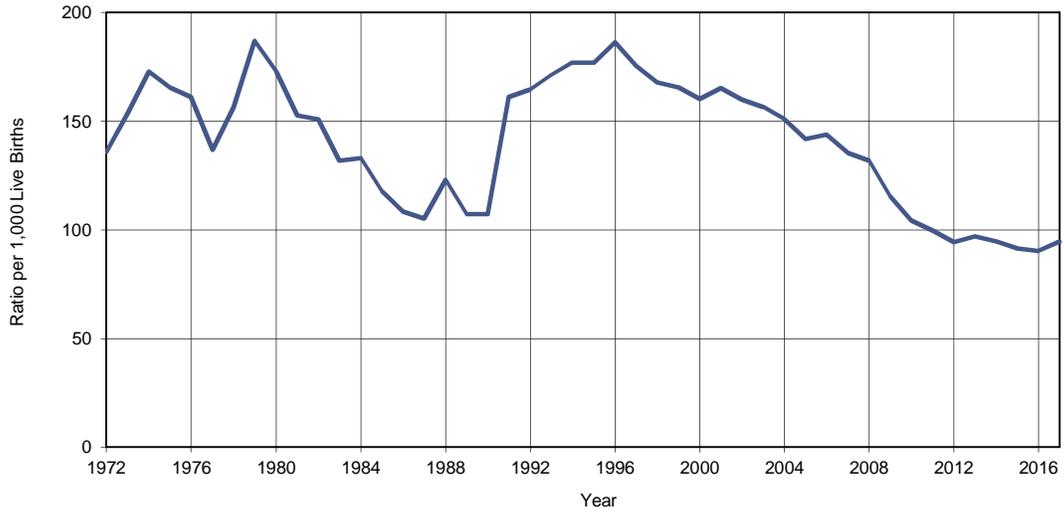
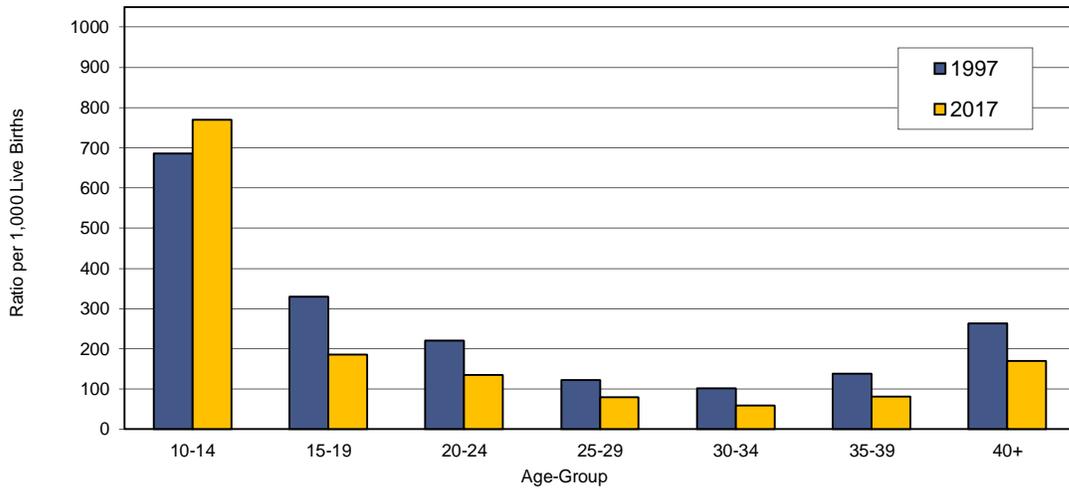


Figure D2

Ratios of Abortions to Live Births by Age-Group of Patient
 Kansas, 1997 and 2017



Residence Data

Figure D3

Table D4
Total Reported Abortions by Selected Characteristics
by Age-Group of Patient
Kansas, 2017

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	6,826	19	708	2,083	1,883	1,178	716	222	17	0
Residency										
Kansans in State	3,371	10	365	1,049	908	586	325	117	11	0
Kansans out-of-state	79	0	17	25	15	11	11	0	0	0
Non-residents in KS	3,376	9	326	1,009	960	581	380	105	6	0
n.s.	0	0	0	0	0	0	0	0	0	0
Population Group	6,826	19	708	2,083	1,883	1,178	716	222	17	0
White Non-Hispanic	3,835	13	390	1,165	1,037	664	428	130	8	0
Black Non-Hispanic	1,551	4	148	461	490	265	141	42	0	0
Native American Non-Hispanic	46	0	5	17	13	7	2	2	0	0
Asian/Pacific Non-Hispanic	261	0	17	59	55	63	44	19	4	0
Other Non-Hispanic [‡]	171	0	24	59	47	29	12	0	0	0
Hispanic Any Race	925	2	120	308	231	144	87	28	5	0
n.s.	37	0	4	14	10	6	2	1	0	0
Marital Status of Patient	6,826	19	708	2,083	1,883	1,178	716	222	17	0
Married	1,052	0	11	162	276	304	216	76	7	0
Not Married	5,714	19	690	1,904	1,590	864	492	145	10	0
n.s.	60	0	7	17	17	10	8	1	0	0
Weeks Gestation	6,826	19	708	2,083	1,883	1,178	716	222	17	0
Under 9	4,648	10	433	1,401	1,324	825	484	156	15	0
9-12	1,457	3	188	469	379	236	145	36	1	0
13-16	419	2	48	137	95	71	48	18	0	0
17-21	292	4	37	74	84	45	35	12	1	0
22 & Over	10	0	2	2	1	1	4	0	0	0
n.s.	0	0	0	0	0	0	0	0	0	0
Procedure	6,826	19	708	2,083	1,883	1,178	716	222	17	0
Suction Curettage	2,223	3	210	618	587	404	293	101	7	0
Sharp Curettage	19	0	5	7	3	2	2	0	0	0
Dilation & Evac	598	6	77	177	164	95	55	23	1	0
Med Proc. 1 [†]	3,962	10	414	1,274	1,123	673	361	98	9	0
Med Proc. 2 [§]	1	0	0	0	1	0	0	0	0	0
Intra-Uterine Pros. Instillation	0	0	0	0	0	0	0	0	0	0
Hysterotomy	2	0	0	1	1	0	0	0	0	0
Hysterectomy	0	0	0	0	0	0	0	0	0	0
Digoxin/Induction	0	0	0	0	0	0	0	0	0	0
"Partial Birth" Procedure	0	0	0	0	0	0	0	0	0	0
Other [¶]	21	0	2	6	4	4	5	0	0	0
n.s.	0	0	0	0	0	0	0	0	0	0
Previous Pregnancies	6,826	19	708	2,083	1,883	1,178	716	222	17	0
None	2,132	19	579	926	422	127	49	9	1	0
1	1,343	0	91	561	402	183	82	21	3	0
2	1,219	0	27	356	393	251	146	42	4	0
3	869	0	8	145	283	218	157	56	2	0
4	556	0	2	55	185	179	102	30	3	0
5 & Over	703	0	0	37	198	220	180	64	4	0
n.s.	4	0	1	3	0	0	0	0	0	0

Table D4
Total Reported Abortions by Selected Characteristics
by Age-Group of Patient
Kansas, 2017

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	6,826	19	708	2,083	1,883	1,178	716	222	17	0
None	4,612	19	647	1,593	1,181	663	376	121	12	0
1	1,456	0	50	382	458	312	204	47	3	0
2	518	0	8	80	181	127	85	36	1	0
3	138	0	2	20	40	42	24	9	1	0
4	59	0	0	3	17	19	16	4	0	0
5 & Over	40	0	0	3	6	15	11	5	0	0
n.s.	3	0	1	2	0	0	0	0	0	0
Number of Living Children	6,826	19	708	2,083	1,883	1,178	716	222	17	0
None	2,877	19	633	1,221	652	229	95	27	1	0
1	1,587	0	62	531	517	283	148	42	4	0
2	1,304	0	11	255	389	335	232	75	7	0
3	662	0	1	64	225	194	129	48	1	0
4	254	0	0	9	74	81	71	18	1	0
5 & Over	141	0	0	3	26	56	41	12	3	0
n.s.	1	0	1	0	0	0	0	0	0	0
Children Born Alive Now Dead	6,826	19	708	2,083	1,883	1,178	716	222	17	0
None	6,786	19	707	2,079	1,871	1,167	709	217	17	0
1	30	0	0	1	9	9	6	5	0	0
2	4	0	0	0	2	1	1	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	2	0	0	0	1	1	0	0	0	0
5 & Over	0	0	0	0	0	0	0	0	0	0
n.s.	4	0	1	3	0	0	0	0	0	0
Spontaneous Terminations	6,826	19	708	2,083	1,883	1,178	716	222	17	0
None	5,701	19	690	1,906	1,531	902	495	146	12	0
1	865	0	16	147	282	204	164	47	5	0
2	176	0	1	18	51	50	38	18	0	0
3	41	0	0	7	10	8	10	6	0	0
4	18	0	0	1	3	6	5	3	0	0
5 & Over	22	0	0	2	6	8	4	2	0	0
n.s.	3	0	1	2	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 Cytol

Table D5
 Kansas Resident Abortions by Selected Characteristics
 by Age-Group of Patient
 Kansas, 2017

Selected Characteristics	Total*	Age-Group								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	n.s.
All Resident	3,450	10	382	1,074	923	597	336	117	11	0
Population Group	3,450	10	382	1,074	923	597	336	117	11	0
White Non-Hispanic	1,953	7	213	580	536	335	211	67	4	0
Black Non-Hispanic	552	1	54	179	159	101	39	19	0	0
Native American Non-Hispanic	31	0	5	12	8	4	1	1	0	0
Asian/Pacific Non-Hispanic	174	0	9	36	41	39	29	16	4	0
Other Non-Hispanic ^T	95	0	13	34	24	20	4	0	0	0
Hispanic Any Race	629	2	85	228	151	96	50	14	3	0
n.s.	16	0	3	5	4	2	2	0	0	0
Marital Status of Patient	3,450	10	382	1,074	923	597	336	117	11	0
Married	597	0	9	100	174	160	105	43	6	0
Not Married	2,800	10	367	959	735	427	223	74	5	0
n.s.	53	0	6	15	14	10	8	0	0	0
Weeks Gestation	3,450	10	382	1,074	923	597	336	117	11	0
Under 9	2,423	5	247	758	648	441	223	91	10	0
9-12	689	0	100	230	179	100	65	14	1	0
13-16	195	2	20	56	46	32	30	9	0	0
17-21	133	3	13	28	49	23	14	3	0	0
22 & Over	10	0	2	2	1	1	4	0	0	0
n.s.	0	0	0	0	0	0	0	0	0	0
Procedure	3,450	10	382	1,074	923	597	336	117	11	0
Suction Curettage	1,138	1	120	324	292	198	140	58	5	0
Sharp Curettage	19	0	5	7	3	2	2	0	0	0
Dilation & Evac	262	5	28	69	84	45	23	8	0	0
Med Proc. 1 [†]	2,009	4	227	667	539	349	166	51	6	0
Med Proc. 2 [§]	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	2	0	0	1	0	0	1	0	0	0
Hysterectomy	0	0	0	0	0	0	0	0	0	0
Digoxin/Induction	0	0	0	0	0	0	0	0	0	0
"Partial Birth" Procedure	0	0	0	0	0	0	0	0	0	0
Other [¶]	20	0	2	6	5	3	4	0	0	0
n.s.	0	0	0	0	0	0	0	0	0	0
Previous Pregnancies	3,450	10	382	1,074	923	597	336	117	11	0
None	1,120	10	307	493	218	64	25	3	0	0
1	672	0	48	269	214	95	36	8	2	0
2	623	0	20	191	185	131	71	22	3	0
3	437	0	4	71	135	109	79	37	2	0
4	268	0	2	31	77	93	47	16	2	0
5 & Over	326	0	0	16	94	105	78	31	2	0
n.s.	4	0	1	3	0	0	0	0	0	0
Previous Induced Abortions	3,450	10	382	1,074	923	597	336	117	11	0
None	2,428	10	348	849	603	361	187	63	7	0
1	698	0	25	173	227	161	86	23	3	0
2	232	0	7	39	71	48	45	21	1	0
3	57	0	1	8	16	16	10	6	0	0
4	22	0	0	2	6	8	5	1	0	0
5 & Over	10	0	0	1	0	3	3	3	0	0
n.s.	3	0	1	2	0	0	0	0	0	0

Table D5
 Kansas Resident Abortions by Selected Characteristics
 by Age-Group of Patient
 Kansas, 2017

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	3,450	10	382	1,074	923	597	336	117	11	0
None	1,473	10	337	618	336	117	47	8	0	0
1	772	0	34	281	242	128	61	23	3	0
2	656	0	9	137	188	166	112	39	5	0
3	334	0	1	31	107	103	60	31	1	0
4	143	0	0	6	35	54	37	11	0	0
5 & Over	71	0	0	1	15	29	19	5	2	0
n.s.	1	0	1	0	0	0	0	0	0	0
Children Born Alive Now Dead	3,450	10	382	1,074	923	597	336	117	11	0
None	3,426	10	381	1,070	916	590	335	113	11	0
1	16	0	0	1	5	5	1	4	0	0
2	3	0	0	0	2	1	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	1	0	0	0	0	1	0	0	0	0
5 & Over	0	0	0	0	0	0	0	0	0	0
n.s.	4	0	1	3	0	0	0	0	0	0
Spontaneous Terminations	3,450	10	382	1,074	923	597	336	117	11	0
None	2,899	10	371	985	747	462	231	85	8	0
1	424	0	9	73	143	96	76	24	3	0
2	81	0	1	8	19	30	16	7	0	0
3	25	0	0	5	9	3	7	1	0	0
4	10	0	0	1	2	4	3	0	0	0
5 & Over	8	0	0	0	3	2	3	0	0	0
n.s.	3	0	1	2	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.

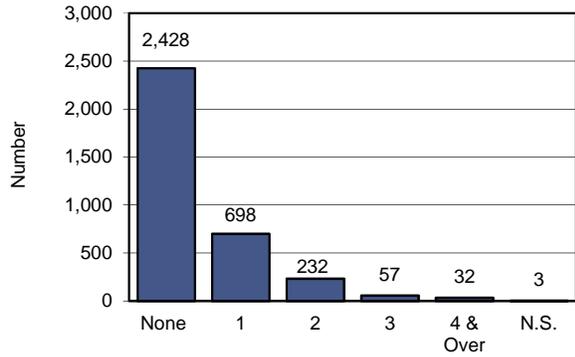
† Includes selection of two or more races or other non-specified race

‡ Refers to drug mifepristone

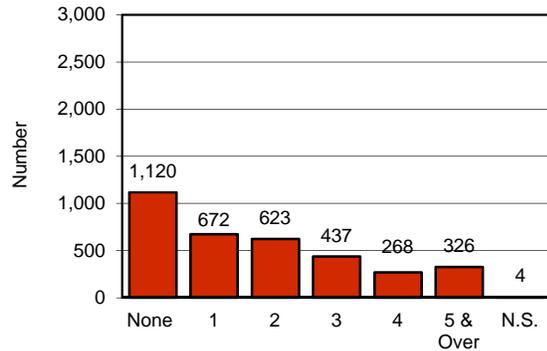
§ Refers to drug methotrexate

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

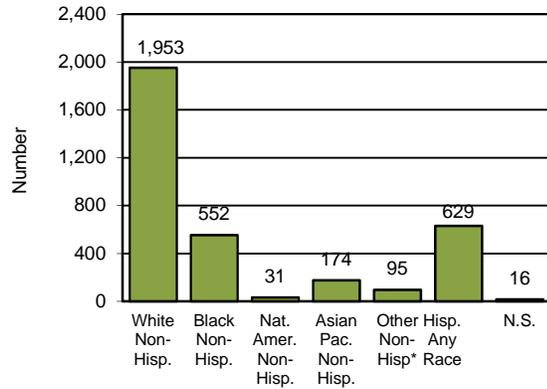
Reported Abortions By Selected Characteristics, Kansas, 2017



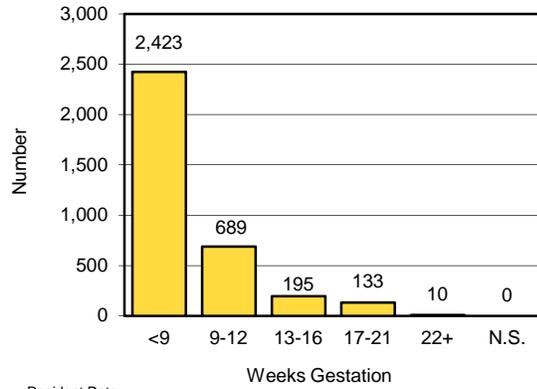
Resident Data
Previous Induced Abortions



Resident Data
Previous Pregnancies



Resident Data
Population Group*



Resident Data

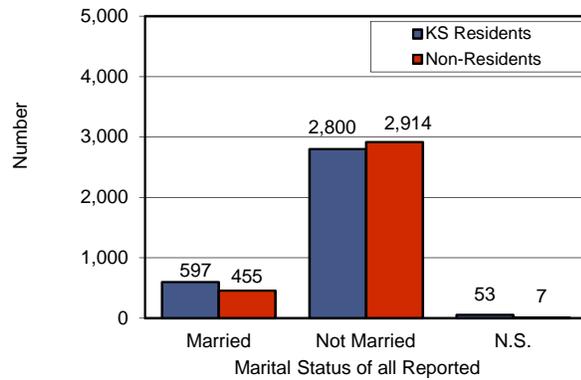
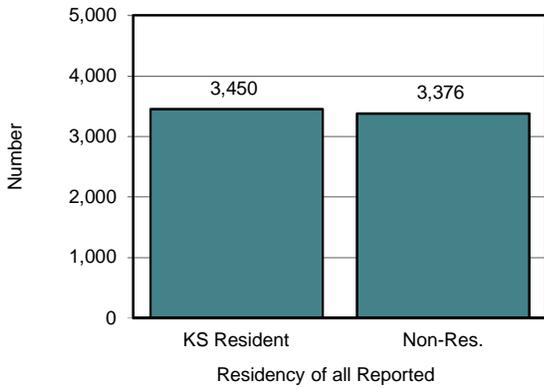


Figure D4

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

Table D6
Total Reported Abortions by Population Group
by Marital Status
Kansas, 2017

Population Group	Total		Marital Status				n.s.†
			Married		Unmarried		
	Number	Percent	Number	Percent	Number	Percent	
Total	6,826	100	1,052	15.5	5,714	84.5	60
White Non-Hispanic	3,835	100	639	16.8	3,171	83.2	25
Black Non-Hispanic	1,551	100	131	8.5	1,411	91.5	9
Native American							
Non-Hispanic	46	100	6	13.0	40	87.0	0
Asian/Pacific							
Non-Hispanic	261	100	128	49.4	131	50.6	2
Other Non-Hispanic*	171	100	22	12.9	149	87.1	0
Hispanic Any Race	925	100	119	13.2	784	86.8	22
n.s.†	37	n/a‡	7	n/a	28	n/a	2

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

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

‡n/a not applicable

Table D7
Total Reported Abortions by Population Group
by Weeks Gestation
Kansas, 2017

Population Group	Total		Weeks Gestation										n.s.†
			Under 9		9-12		13-16		17-21		22 & Over		
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
Total	6,826	100	4,648	68.1	1,457	21.3	419	6.1	292	4.3	10	0.1	0
White Non-Hispanic	3,835	100	2,695	70.3	765	19.9	216	5.6	159	4.1	0	0.0	0
Black Non-Hispanic	1,551	100	956	61.6	397	25.6	122	7.9	76	4.9	0	0.0	0
Native American Non-Hispanic	46	100	32	69.6	9	19.6	3	6.5	2	4.3	0	0.0	0
Asian/Pacific Non-Hispanic	261	100	198	75.9	47	18.0	9	3.4	7	2.7	0	0.0	0
Other Non-Hispanic*	171	100	114	66.7	41	24.0	11	6.4	5	2.9	0	0.0	0
Hispanic Any Race	925	100	623	67.4	192	20.8	57	6.2	43	4.6	10	1.1	0
n/a‡	37	n/a	30	n/a	6	n/a	1	n/a	0	n/a	0	n/a	0

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

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

Total Reported Abortions: Percent
Distribution by Weeks Gestation
Kansas, 2017

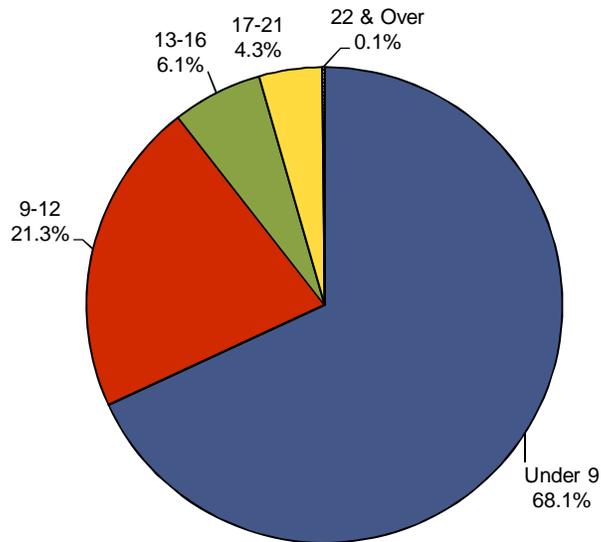


Figure D5

Table D8
Total Reported Abortions by Termination Procedure
by Weeks Gestation
Kansas, 2017

Termination Procedure	Total	Weeks Gestation					n.s.*
		Under 9	9-12	13-16	17-21	22 & Over	
Total	6,826	4,648	1,457	419	292	10	0
Suction Curettage	2,223	1,101	998	119	5	0	0
Sharp Curettage	19	16	3	0	0	0	0
Dilation & Evacuation	598	3	15	299	281	0	0
Medical Procedure I [†]	3,962	3,521	440	0	1	0	0
Medical Procedure II [‡]	1	1	0	0	0	0	0
Intra-Uterine	0	0	0	0	0	0	0
Prostaglandin Instillation	0	0	0	0	0	0	0
Hysterotomy	2	2	0	0	0	0	0
Hysterectomy	0	0	0	0	0	0	0
Digoxin/Induction	0	0	0	0	0	0	0
"Partial Birth" Procedure	0	0	0	0	0	0	0
Other [¶]	21	4	1	1	5	10	0
n.s.	0	0	0	0	0	0	0

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

[†] Refers to drug mifepristone

[‡] Refers to drug methotrexate

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

Table D9
 Abortions by County of Residence and Peer Group*
 by Age-Group of Patient,
 Kansas, 2017

County of Residence	Total	Age-Group								
		10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	n.s.
Kansas	3,450	10	382	1,074	923	597	336	117	11	0
Allen	6	0	0	1	0	4	1	0	0	0
Anderson	5	0	0	0	3	1	0	0	1	0
Atchison	15	0	0	7	2	4	0	2	0	0
Barber	3	0	0	3	0	0	0	0	0	0
Barton	17	0	4	7	4	1	1	0	0	0
Bourbon	18	0	3	7	5	3	0	0	0	0
Brown	5	0	0	3	0	2	0	0	0	0
Butler	46	0	5	14	12	10	3	2	0	0
Chase	0	0	0	0	0	0	0	0	0	0
Chautauqua	0	0	0	0	0	0	0	0	0	0
Cherokee	3	0	2	0	1	0	0	0	0	0
Cheyenne	0	0	0	0	0	0	0	0	0	0
Clark	0	0	0	0	0	0	0	0	0	0
Clay	1	0	0	0	1	0	0	0	0	0
Cloud	4	0	0	1	2	0	1	0	0	0
Coffey	8	0	1	1	3	2	1	0	0	0
Comanche	1	0	0	1	0	0	0	0	0	0
Cowley	21	0	2	8	6	3	2	0	0	0
Crawford	45	0	6	21	10	5	2	1	0	0
Decatur	0	0	0	0	0	0	0	0	0	0
Dickinson	12	0	1	5	3	2	1	0	0	0
Doniphan	7	0	2	2	1	1	0	1	0	0
Douglas	208	0	27	68	52	30	24	7	0	0
Edwards	3	0	0	1	0	1	1	0	0	0
Elk	0	0	0	0	0	0	0	0	0	0
Ellis	38	0	9	17	9	2	1	0	0	0
Ellsworth	0	0	0	0	0	0	0	0	0	0
Finney	44	0	3	12	14	11	4	0	0	0
Ford	31	1	5	7	10	5	2	1	0	0
Franklin	17	0	3	2	9	0	2	0	1	0
Geary	90	1	12	39	28	7	2	1	0	0
Gove	1	0	0	1	0	0	0	0	0	0
Graham	0	0	0	0	0	0	0	0	0	0
Grant	4	0	2	1	0	1	0	0	0	0
Gray	3	0	0	1	0	1	1	0	0	0
Greeley	0	0	0	0	0	0	0	0	0	0
Greenwood	2	0	0	0	0	1	1	0	0	0
Hamilton	1	0	0	1	0	0	0	0	0	0
Harper	3	0	0	2	1	0	0	0	0	0
Harvey	27	0	3	11	6	4	2	1	0	0
Haskell	5	0	2	0	0	0	2	1	0	0
Hodgeman	1	0	0	1	0	0	0	0	0	0
Jackson	6	0	0	2	1	1	0	2	0	0
Jefferson	11	0	2	7	2	0	0	0	0	0
Jewell	0	0	0	0	0	0	0	0	0	0
Johnson	811	1	51	209	228	170	103	43	6	0
Kearny	2	0	1	0	0	0	1	0	0	0
Kingman	4	0	0	0	1	2	1	0	0	0
Kiowa	2	0	0	2	0	0	0	0	0	0
Labette	7	0	0	2	2	1	2	0	0	0
Lane	0	0	0	0	0	0	0	0	0	0
Leavenworth	90	1	8	35	19	19	5	3	0	0
Lincoln	0	0	0	0	0	0	0	0	0	0
Linn	7	0	3	0	1	3	0	0	0	0
Logan	1	0	0	1	0	0	0	0	0	0

Table D9
 Abortions by County of Residence and Peer Group*
 by Age-Group of Patient,
 Kansas, 2017

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	32	0	4	15	3	7	3	0	0	0
Mcperson	17	0	1	6	6	4	0	0	0	0
Marion	3	0	0	0	3	0	0	0	0	0
Marshall	8	0	0	2	1	2	2	1	0	0
Meade	1	0	0	0	1	0	0	0	0	0
Miami	33	0	8	7	5	8	2	3	0	0
Mitchell	5	0	1	2	0	1	1	0	0	0
Montgomery	9	0	0	2	4	2	1	0	0	0
Morris	1	0	0	0	0	1	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	6	0	1	0	3	1	1	0	0	0
Ness	4	0	0	0	1	3	0	0	0	0
Norton	1	0	0	1	0	0	0	0	0	0
Osage	12	0	2	8	1	1	0	0	0	0
Osborne	0	0	0	0	0	0	0	0	0	0
Ottawa	2	0	0	1	0	0	1	0	0	0
Pawnee	1	0	0	0	0	0	1	0	0	0
Phillips	5	0	0	1	2	2	0	0	0	0
Pottawatomie	12	0	4	5	2	1	0	0	0	0
Pratt	6	0	2	1	1	2	0	0	0	0
Rawlins	0	0	0	0	0	0	0	0	0	0
Reno	39	0	4	10	16	3	6	0	0	0
Republic	1	0	0	0	0	0	1	0	0	0
Rice	9	0	3	4	1	0	1	0	0	0
Riley	95	0	12	47	17	13	5	1	0	0
Rooks	1	0	0	1	0	0	0	0	0	0
Rush	1	0	0	0	0	1	0	0	0	0
Russell	5	0	1	1	3	0	0	0	0	0
Saline	60	0	10	26	15	3	2	3	1	0
Scott	3	0	0	1	2	0	0	0	0	0
Sedgwick	763	4	81	211	234	134	74	24	1	0
Seward	22	1	4	5	9	2	1	0	0	0
Shawnee	210	1	24	80	46	30	25	4	0	0
Sheridan	2	0	0	0	2	0	0	0	0	0
Sherman	3	0	2	0	0	0	1	0	0	0
Smith	1	0	0	1	0	0	0	0	0	0
Stafford	1	0	0	1	0	0	0	0	0	0
Stanton	1	0	0	0	1	0	0	0	0	0
Stevens	1	0	0	1	0	0	0	0	0	0
Sumner	10	0	1	4	1	2	1	1	0	0
Thomas	2	0	0	2	0	0	0	0	0	0
Trego	1	0	0	0	0	1	0	0	0	0
Wabaunsee	1	0	0	0	1	0	0	0	0	0
Wallace	0	0	0	0	0	0	0	0	0	0
Washington	3	0	0	0	2	1	0	0	0	0
Wichita	1	0	0	0	1	0	0	0	0	0
Wilson	3	0	0	0	2	1	0	0	0	0
Woodson	1	0	1	0	0	0	0	0	0	0
Wyandotte	352	0	43	106	90	66	31	15	1	0
n.s.†	61	0	16	19	10	7	9	0	0	0
Peer Group										
Frontier	34	0	3	14	6	7	4	0	0	0
Rural	122	0	17	30	36	25	12	1	1	0
Densely -Settled Rural	338	2	49	123	80	54	22	8	0	0
Semi-Urban	461	1	63	179	122	55	27	12	2	0
Urban	2,434	7	234	709	669	449	262	96	8	0

* See Technical Notes for Peer Group definition
 † County information not collected by other states.

Table D10
Perinatal Period III Deaths by Component
Kansas, 1998-2017

Year	Stillbirths	Hebdomadal Deaths	Perinatal Period III Deaths	
			Number	Rate*
1998	199	132	331	8.6
1999	175	159	334	8.6
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

*Rate per 1,000 live births + stillbirths

Table D11
 Perinatal Period III Deaths by County of Residence
 by Component
 Kansas, 2017

County of Residence	Perinatal Period III Deaths			County of Residence	Perinatal Period III Deaths		
	Total	Stillbirths	Hebdomadal Deaths		Total	Stillbirths	Hebdomadal Deaths
Kansas	312	184	128				
Allen	0	0	0	Lyon	3	2	1
Anderson	1	1	0	McPherson	3	3	0
Atchison	5	5	0	Marion	0	0	0
Barber	1	0	1	Marshall	1	0	1
Barton	2	2	0	Meade	1	1	0
Bourbon	2	1	1	Miami	1	1	0
Brown	5	1	4	Mitchell	1	0	1
Butler	7	3	4	Montgomery	3	1	2
Chase	2	2	0	Morris	0	0	0
Chautauqua	0	0	0	Morton	0	0	0
Cherokee	1	1	0	Nemaha	2	2	0
Cheyenne	1	1	0	Neosho	0	0	0
Clark	0	0	0	Ness	1	0	1
Clay	0	0	0	Norton	1	1	0
Cloud	6	4	2	Osage	1	0	1
Coffey	0	0	0	Osborne	0	0	0
Comanche	1	1	0	Ottawa	0	0	0
Cowley	6	3	3	Pawnee	1	1	0
Crawford	8	4	4	Phillips	1	1	0
Decatur	0	0	0	Pottawatomie	2	0	2
Dickinson	6	3	3	Pratt	2	2	0
Doniphan	1	0	1	Rawlins	0	0	0
Douglas	9	4	5	Reno	5	3	2
Edwards	1	1	0	Republic	2	2	0
Elk	0	0	0	Rice	1	0	1
Ellis	3	2	1	Riley	5	4	1
Ellsworth	1	1	0	Rooks	0	0	0
Finney	6	3	3	Rush	0	0	0
Ford	3	3	0	Russell	2	2	0
Franklin	1	1	0	Saline	7	1	6
Geary	11	6	5	Scott	0	0	0
Gove	0	0	0	Sedgwick	57	31	26
Graham	1	0	1	Seward	2	2	0
Grant	1	1	0	Shawnee	27	12	15
Gray	0	0	0	Sheridan	0	0	0
Greeley	0	0	0	Sherman	0	0	0
Greenwood	1	0	1	Smith	0	0	0
Hamilton	1	0	1	Stafford	1	1	0
Harper	1	0	1	Stanton	0	0	0
Harvey	3	1	2	Stevens	1	1	0
Haskell	1	1	0	Sumner	3	2	1
Hodgeman	0	0	0	Thomas	1	1	0
Jackson	0	0	0	Trego	0	0	0
Jefferson	1	0	1	Wabaunsee	1	1	0
Jewell	0	0	0	Wallace	0	0	0
Johnson	39	26	13	Washington	1	0	1
Kearny	0	0	0	Wichita	0	0	0
Kingman	0	0	0	Wilson	0	0	0
Kiowa	0	0	0	Woodson	0	0	0
Labette	0	0	0	Wyandotte	25	19	6
Lane	0	0	0				
Leavenworth	5	2	3				
Lincoln	1	1	0				
Linn	2	2	0				
Logan	0	0	0				

Table D12
 Infant Mortality Rates*
 by Population Group
 Kansas, 1998-2017

Year	White Non-Hispanic [†]			Black Non-Hispanic [†]			Hispanic Any Race			Total Infant Death Rate: All Races [‡]
	Live Births	Infant Deaths	Rate	Live Births	Infant Deaths	Rate	Live Births	Infant Deaths	Rate	
1998	30,389	209	6.9	2,746	27	9.8	3,873	25	6.5	6.9
1999	30,362	215	7.1	2,815	42	14.9	4,204	15	3.6	7.3
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	142	5.1	2,629	27	10.3	6,129	46	7.5	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

*Rate per 1,000 live births

[†]Due to changes in the collection of the race item on certificates, use caution when comparing 2005-2017 data to prior years. See Technical Notes.

[‡]Other non-Hispanic data is not given a separate column in this table due to the small numbers but is included in the total, and is available upon request.

Infant Mortality Rates
 by Population Group
 Kansas, Five Year Rolling Averages, 1993-2017

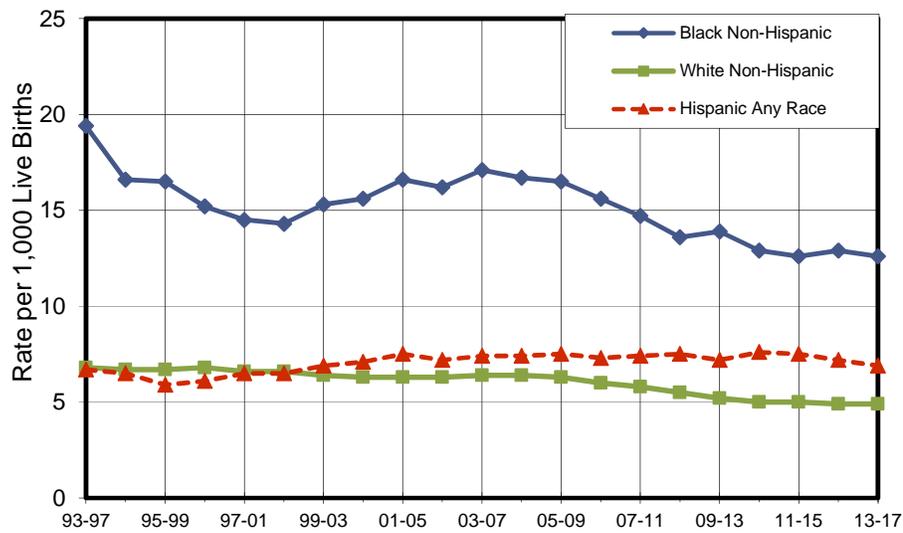


Figure D6

Table D13
 Infant Deaths by Cause of Death by Age-Group of Infant
 Kansas, 2017

Cause of Death *	Age-Group of Infant						
	Under 1 Day	1-6 Days	Under 7 Days †	7-27 Days	Under 28 Days §	28-364 Days	Under 1 Year
All Causes	102	26	128	26	154	63	217
Infectious and Parasitic Diseases	0	0	0	0	0	2	2
Other Diseases and Disorders	1	0	1	1	2	7	9
Certain Conditions Originating in the Perinatal Period	78	15	93	12	105	2	107
-Maternal Factors and Compl. Of Pregnancy, Labor and Delivery	24	1	25	0	25	0	25
-Disorders Relating to Short Gestation and Low Birth Weight	40	0	40	0	40	0	40
-Birth Trauma	0	0	0	0	0	0	0
-Hypoxia and Birth Asphyxia	1	2	3	0	3	0	3
-Respiratory Distress of Newborn	1	0	1	0	1	0	1
-Congenital Pneumonia	0	0	0	0	0	0	0
-Other Respiratory Conditions of Newborn	4	2	6	0	6	1	7
-Bacterial Sepsis of Newborn	1	1	2	5	7	0	7
-Omphalitis of Newborn w/wo Mild Hemorrhage	0	0	0	0	0	0	0
-Hemorrhagic and Hematolog. Disorders of Fetus and Newborn	0	2	2	0	2	0	2
-Other Perinatal Conditions	7	7	14	7	21	1	22
Congenital Anomalies	21	11	32	9	41	12	53
Symptoms and Abnormal Findings	2	0	2	2	4	25	29
-Sudden Infant Death Syndrome	0	0	0	0	0	13	13
-Other	2	0	2	2	4	12	16
External Causes of Mortality	0	0	0	2	2	15	17

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

† Hebdomadal Deaths

§ Neonatal Deaths

Infant Deaths for Three Age Subgroups
Kansas, 1998-2017

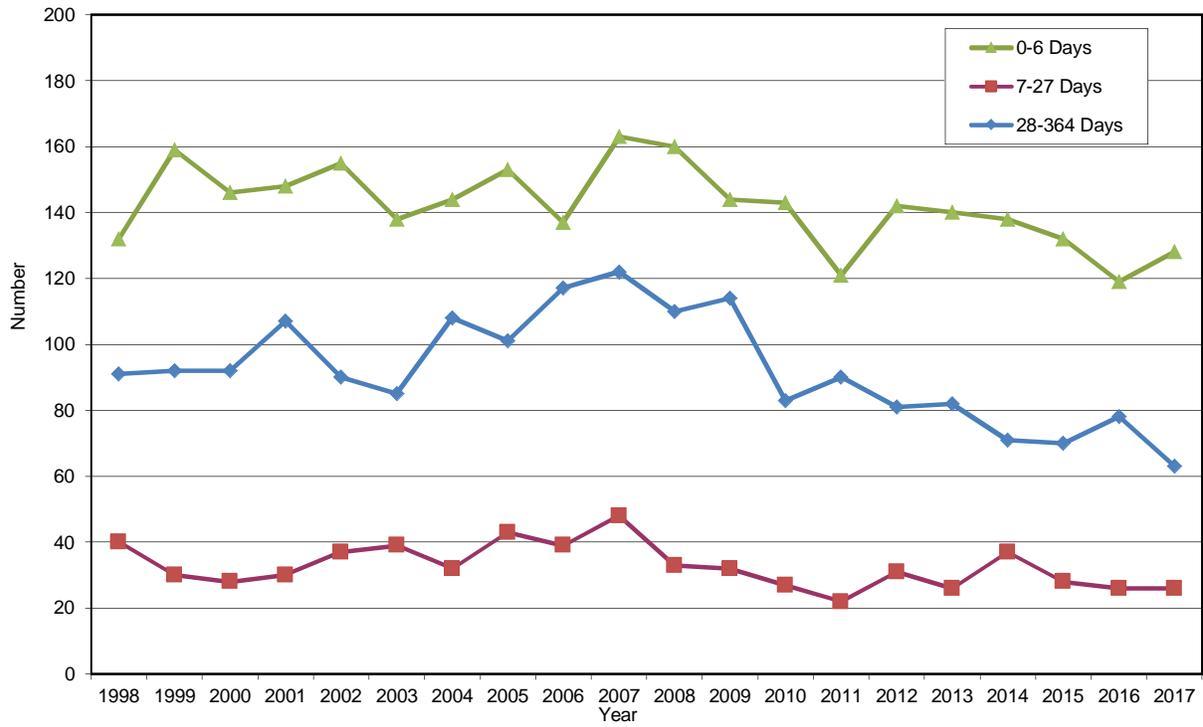


Figure D7

Pregnancy Associated Deaths*
Kansas, 2013-2017

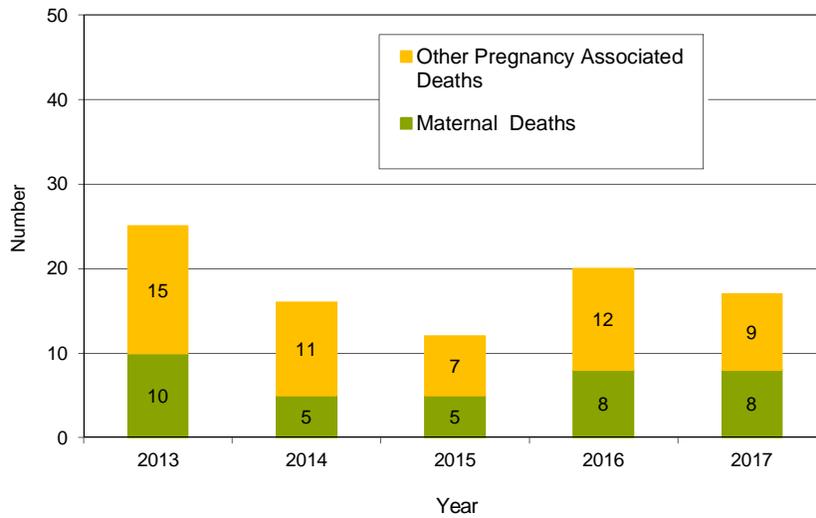


Figure D8

*See Technical Notes for Pregnancy Associated Deaths and Maternal Mortality definitions

Table D14
 Infant Deaths by County of Residence and Peer Group*
 by Year of Death
 Kansas, 2013-2017

County of Residence	Year					Total Infant Deaths 2013-2017	Infant Death Rate [†] 2013-2017
	2013	2014	2015	2016	2017		
Kansas	248	246	230	223	217	1,164	6.1
Allen	0	1	1	0	0	2	2.8
Anderson	2	1	1	0	1	5	10.1
Atchison	1	0	2	1	0	4	4.1
Barber	0	0	0	0	2	2	6.8
Barton	1	3	3	0	0	7	4.2
Bourbon	0	0	2	1	2	5	4.8
Brown	1	1	0	1	4	7	11.1
Butler	6	9	8	3	6	32	8.5
Chase	0	0	0	0	0	0	0.0
Chautauqua	0	0	0	0	0	0	0.0
Cherokee	0	0	0	0	0	0	0.0
Cheyenne	0	0	0	0	0	0	0.0
Clark	0	1	0	0	0	1	9.2
Clay	1	0	3	2	0	6	11.6
Cloud	0	0	0	1	3	4	7.5
Coffey	0	0	0	0	0	0	0.0
Comanche	0	0	1	1	0	2	20.6
Cowley	4	2	2	0	5	13	6.0
Crawford	3	1	1	4	4	13	5.3
Decatur	0	0	0	0	0	0	0.0
Dickinson	2	2	1	2	3	10	9.0
Doniphan	0	0	1	0	1	2	5.2
Douglas	5	7	6	8	11	37	6.1
Edwards	0	0	0	0	0	0	0.0
Elk	1	0	0	2	0	3	21.4
Ellis	1	3	4	3	1	12	7.0
Ellsworth	0	0	0	0	0	0	0.0
Finney	6	3	7	2	3	21	6.3
Ford	5	4	9	3	1	22	6.8
Franklin	1	5	2	2	1	11	7.0
Geary	6	7	8	3	5	29	5.7
Gove	0	0	0	1	0	1	5.6
Graham	0	1	0	0	1	2	18.2
Grant	0	0	1	0	0	1	1.6
Gray	2	0	1	0	0	3	6.8
Greeley	0	0	0	0	0	0	0.0
Greenwood	1	0	1	0	1	3	9.3
Hamilton	0	0	0	1	1	2	11.0
Harper	2	3	0	0	1	6	15.9
Harvey	4	3	3	4	3	17	8.4
Haskell	0	0	0	1	1	2	7.8
Hodgeman	0	0	1	1	0	2	20.0
Jackson	0	1	3	3	1	8	9.4
Jefferson	2	1	3	0	2	8	8.5
Jewell	0	0	0	1	0	1	6.3
Johnson	34	34	35	26	25	154	4.2
Kearny	0	0	1	0	0	1	3.2
Kingman	0	0	0	0	1	1	2.5
Kiowa	0	0	0	0	0	0	0.0
Labette	2	2	2	4	1	11	8.2
Lane	0	0	0	0	0	0	0.0
Leavenworth	5	5	5	6	11	32	6.5
Lincoln	0	0	1	0	0	1	6.8
Linn	0	1	2	1	0	4	7.9
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, 2013-2017

Lyon	3	3	2	2	2	12	5.9
McPherson	1	2	2	1	1	7	4.3
Marion	0	0	1	1	0	2	3.5
Marshall	0	1	0	1	1	3	4.8
Meade	0	0	0	1	0	1	3.4
Miami	0	4	0	2	1	7	3.9
Mitchell	0	1	0	0	1	2	5.0
Montgomery	0	3	4	4	3	14	6.8
Morris	0	2	0	0	0	2	6.5
Morton	0	0	0	0	0	0	0.0
Nemaha	2	2	1	1	0	6	8.0
Neosho	1	3	0	0	1	5	4.9
Ness	1	0	0	0	1	2	12.8
Norton	2	0	0	1	0	3	10.5
Osage	2	2	1	2	3	10	12.0
Osborne	1	1	0	0	0	2	8.7
Ottawa	0	0	0	0	0	0	0.0
Pawnee	0	0	2	0	0	2	5.9
Phillips	1	1	0	0	0	2	6.6
Pottawatomie	2	2	1	1	2	8	4.4
Pratt	1	4	0	0	0	5	7.8
Rawlins	0	0	0	0	0	0	0.0
Reno	14	6	4	4	5	33	9.3
Republic	1	1	0	1	0	3	11.9
Rice	0	4	0	0	2	6	10.0
Riley	7	7	3	5	3	25	5.1
Rooks	0	1	0	0	0	1	3.4
Rush	0	0	0	1	0	1	6.3
Russell	0	1	0	0	0	1	2.5
Saline	7	1	1	4	7	20	5.5
Scott	0	0	0	0	0	0	0.0
Sedgwick	62	43	41	60	44	250	6.9
Seward	3	5	3	2	1	14	6.5
Shawnee	15	12	18	21	22	88	7.8
Sheridan	1	0	0	0	0	1	6.9
Sherman	0	1	0	0	0	1	2.6
Smith	0	0	0	0	0	0	0.0
Stafford	0	0	0	0	0	0	0.0
Stanton	0	0	0	0	0	0	0.0
Stevens	0	0	0	0	0	0	0.0
Sumner	2	2	2	0	1	7	5.3
Thomas	0	2	1	2	0	5	8.6
Trego	0	1	0	0	0	1	5.9
Wabaunsee	0	0	0	0	0	0	0.0
Wallace	0	1	0	0	0	1	10.0
Washington	1	0	1	1	1	4	10.7
Wichita	0	0	0	0	0	0	0.0
Wilson	2	1	0	0	0	3	5.5
Woodson	0	0	0	0	0	0	0.0
Wyandotte	18	25	21	17	13	94	7.0
Peer Group							
Frontier	5	7	5	9	6	32	4.9
Rural	18	26	14	14	16	88	6.3
Densely -Settled Rural	38	41	51	27	31	188	6.0
Semi-Urban	48	46	34	35	38	201	6.5
Urban	139	126	126	138	126	655	6.0

* 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, 2017

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	128	26	154	63	217
Allen	0	0	0	0	0
Anderson	0	0	0	1	1
Atchison	0	0	0	0	0
Barber	1	1	2	0	2
Barton	0	0	0	0	0
Bourbon	1	0	1	1	2
Brown	4	0	4	0	4
Butler	4	1	5	1	6
Chase	0	0	0	0	0
Chautauqua	0	0	0	0	0
Cherokee	0	0	0	0	0
Cheyenne	0	0	0	0	0
Clark	0	0	0	0	0
Clay	0	0	0	0	0
Cloud	2	0	2	1	3
Coffey	0	0	0	0	0
Comanche	0	0	0	0	0
Cowley	3	0	3	2	5
Crawford	4	0	4	0	4
Decatur	0	0	0	0	0
Dickinson	3	0	3	0	3
Doniphan	1	0	1	0	1
Douglas	5	1	6	5	11
Edwards	0	0	0	0	0
Elk	0	0	0	0	0
Ellis	1	0	1	0	1
Ellsworth	0	0	0	0	0
Finney	3	0	3	0	3
Ford	0	1	1	0	1
Franklin	0	0	0	1	1
Geary	5	0	5	0	5
Gove	0	0	0	0	0
Graham	1	0	1	0	1
Grant	0	0	0	0	0
Gray	0	0	0	0	0
Greeley	0	0	0	0	0
Greenwood	1	0	1	0	1
Hamilton	1	0	1	0	1
Harper	1	0	1	0	1
Harvey	2	0	2	1	3
Haskell	0	0	0	1	1
Hodgeman	0	0	0	0	0
Jackson	0	1	1	0	1
Jefferson	1	0	1	1	2
Jewell	0	0	0	0	0
Johnson	13	2	15	10	25
Kearny	0	0	0	0	0
Kingman	0	0	0	1	1
Kiowa	0	0	0	0	0
Labette	0	1	1	0	1
Lane	0	0	0	0	0
Leavenworth	3	2	5	6	11
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, 2017

Lyon	1	0	1	1	2
McPherson	0	0	0	1	1
Marion	0	0	0	0	0
Marshall	1	0	1	0	1
Meade	0	0	0	0	0
Miami	0	1	1	0	1
Mitchell	1	0	1	0	1
Montgomery	2	0	2	1	3
Morris	0	0	0	0	0
Morton	0	0	0	0	0
Nemaha	0	0	0	0	0
Neosho	0	0	0	1	1
Ness	1	0	1	0	1
Norton	0	0	0	0	0
Osage	1	1	2	1	3
Osborne	0	0	0	0	0
Ottawa	0	0	0	0	0
Pawnee	0	0	0	0	0
Phillips	0	0	0	0	0
Pottawatomie	2	0	2	0	2
Pratt	0	0	0	0	0
Rawlins	0	0	0	0	0
Reno	2	2	4	1	5
Republic	0	0	0	0	0
Rice	1	0	1	1	2
Riley	1	0	1	2	3
Rooks	0	0	0	0	0
Rush	0	0	0	0	0
Russell	0	0	0	0	0
Saline	6	0	6	1	7
Scott	0	0	0	0	0
Sedgwick	26	7	33	11	44
Seward	0	1	1	0	1
Shawnee	15	4	19	3	22
Sheridan	0	0	0	0	0
Sherman	0	0	0	0	0
Smith	0	0	0	0	0
Stafford	0	0	0	0	0
Stanton	0	0	0	0	0
Stevens	0	0	0	0	0
Sumner	1	0	1	0	1
Thomas	0	0	0	0	0
Trego	0	0	0	0	0
Wabaunsee	0	0	0	0	0
Wallace	0	0	0	0	0
Washington	1	0	1	0	1
Wichita	0	0	0	0	0
Wilson	0	0	0	0	0
Woodson	0	0	0	0	0
Wyandotte	6	0	6	7	13
n.s.	0	0	0	0	0
Peer Group					
Frontier	4	1	5	0	5
Rural	12	1	13	5	18
Densely -Settled Rural	17	4	21	7	28
Semi-Urban	30	6	36	15	51
Urban	65	14	79	36	115

* See Technical Notes for Peer Group definition.

E. GENERAL MORTALITY

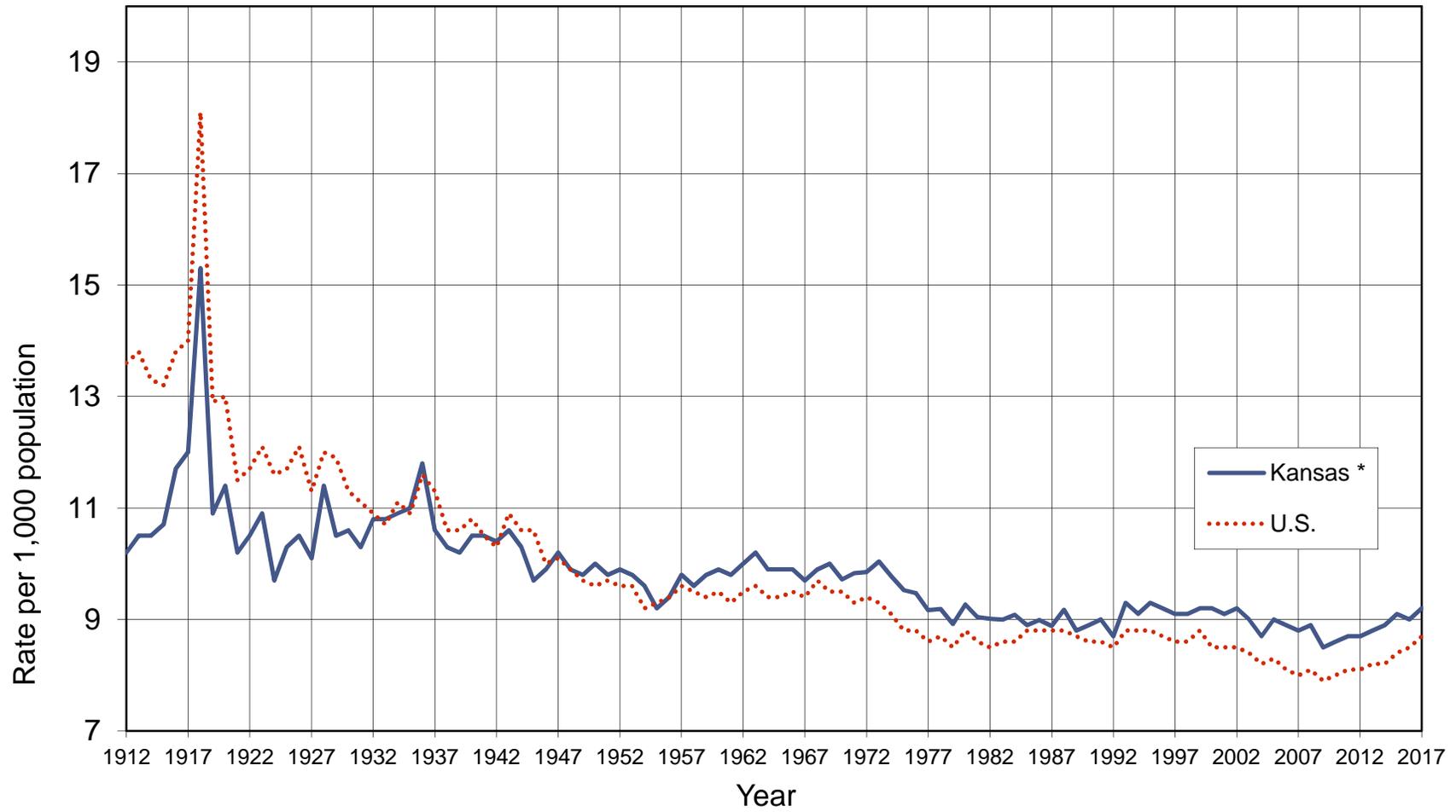
Table E1
Resident Deaths by Year and by Population Group,
By Number, Crude and Age-Adjusted Rates
Kansas, 2013-2017

Year and Population Group	Number	Crude Rate	Age-Adjusted Rate
2013	25,347	875.9	755.6
White Non-Hispanic	22,639	1,014.2	752.7
Black Non-Hispanic	1,264	746.5	949.3
Native American Non-Hispanic	194	823.1	1,202.1
Asian/Pacific Islander Non-Hispanic	200	258.8	476.6
Other Non-Hispanic	290	426.3	1,079.2
Hispanic	709	219.1	527.5
Not Stated	51	n/a	n/a
2014	25,731	886.0	757.3
White Non-Hispanic	22,923	1,028.4	754.7
Black Non-Hispanic	1,308	766.5	971.6
Native American Non-Hispanic	200	848.1	1,212.7
Asian/Pacific Islander Non-Hispanic	196	241.4	415.8
Other Non-Hispanic	321	459.4	1,188.8
Hispanic	757	229.7	524.9
Not Stated	26	n/a	n/a
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

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

Crude Death Rates

Kansas and the U.S., 1912-2017



*1912-1936 Occurrence data
1937-2017 Residence data

Figure E1

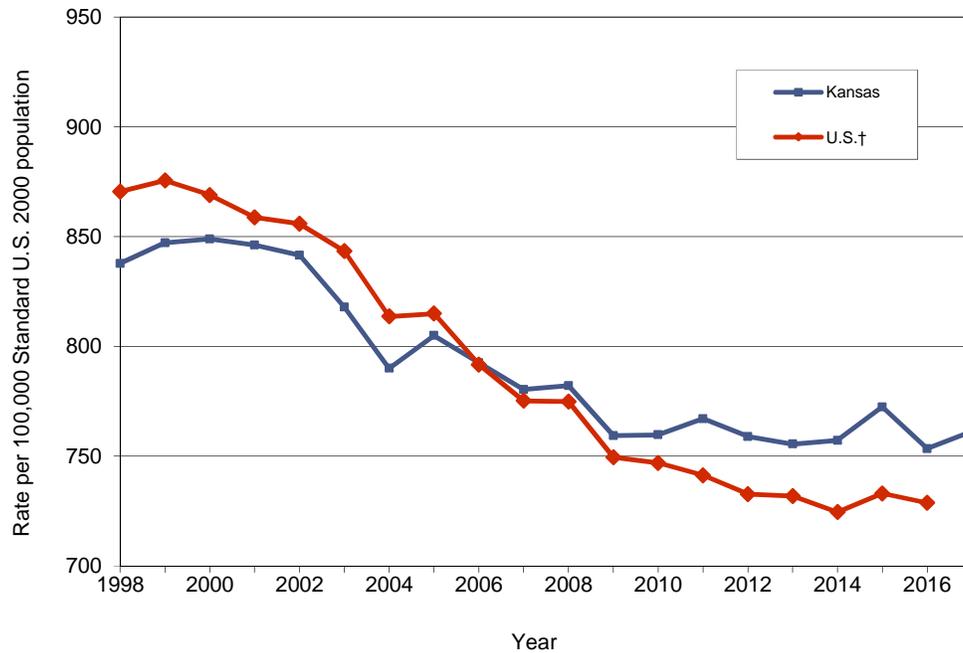
Table E2
Age-Specific Death Rates* by Sex
Kansas, 1998-2017

Age-Group and Sex	Year																			
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Both Sexes																				
Total	9.1	9.2	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
Under 1	7.1	7.5	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
1-4	0.4	0.4	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
5-14	0.2	0.2	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
15-24	0.9	0.8	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
25-34	1.0	1.0	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
35-44	1.7	1.6	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
45-54	3.6	3.8	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
55-64	9.4	9.9	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
65-74	23.7	24.0	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
75-84	54.1	54.7	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
85 and over	154.3	154.2	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
Male	8.9	8.9	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
Under 1	7.7	8.7	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
1-4	0.5	0.5	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
5-14	0.3	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	0.2	0.1	0.1	0.2	0.2	0.2
15-24	1.3	1.2	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
25-34	1.5	1.3	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
35-44	2.2	2.0	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
45-54	4.6	4.6	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
55-64	11.5	11.9	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
65-74	30.3	30.5	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
75-84	68.0	67.8	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
85 and over	173.6	170.2	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
Female	9.2	9.4	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
Under 1	6.4	6.3	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
1-4	0.4	0.4	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
5-14	0.1	0.2	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
15-24	0.5	0.5	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
25-34	0.6	0.7	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
35-44	1.1	1.2	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
45-54	2.6	2.9	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
55-64	7.3	8.0	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
65-74	18.2	18.7	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
75-84	45.1	46.0	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
85 and over	146.4	147.5	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

*Rate per 1,000 age-group population

Rates may differ from those published in reports prior to 1999.

Age-Adjusted Death Rates*
Kansas and the U.S., 1998-2017



† 2017 Rates Not Available

Figure E2

Table E3
Age-Adjusted Death Rates* by Sex
Kansas and the U.S., 1998-2017

Year	Kansas			U.S.		
	Total	Male	Female	Total	Male	Female
1998	837.8	1,027.8	695.3	870.6	1,069.4	724.7
1999	847.2	1,020.6	716.1	875.6	1,067.0	734.0
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	n/a	n/a	n/a

* Rate per 100,000 standard U.S. 2000 population (see Technical Notes)
Rates will differ from those published prior to 1999 because they have been recalculated using the 2000 U.S. standard population.

Table E4
Deaths by Population Group and Sex, by Age-Group and Average Age at Death
Kansas, 2017

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	26,725	217	42	64	313	476	653	1,375	3,443	4,780	6,296	9,065	1	74.2
Male	13,576	127	26	34	226	325	406	826	2,060	2,799	3,276	3,470	1	71.1
Female	13,149	90	16	30	87	151	247	549	1,383	1,981	3,020	5,595	0	77.5
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
White Non-Hispanic	23,557	120	22	39	203	315	479	1,086	2,859	4,194	5,731	8,508	1	75.7
Male	11,857	62	14	21	147	212	298	658	1,694	2,477	3,002	3,271	1	72.8
Female	11,700	58	8	18	56	103	181	428	1,165	1,717	2,729	5,237	0	78.7
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Black Non-Hispanic	1,421	29	7	5	32	59	73	133	297	294	258	234	0	64.7
Male	768	19	5	3	23	45	46	73	188	169	119	78	0	60.7
Female	653	10	2	2	9	14	27	60	109	125	139	156	0	69.3
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Native American Non-Hispanic	194	2	1	1	4	8	7	21	45	41	36	28	0	65.2
Male	97	1	1	1	4	5	4	11	23	24	18	5	0	60.2
Female	97	1	0	0	0	3	3	10	22	17	18	23	0	70.1
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Asian/Pacific Non-Hispanic	232	6	0	0	11	11	8	21	34	47	60	34	0	65.2
Male	128	3	0	0	8	6	4	15	20	27	28	17	0	63.6
Female	104	3	0	0	3	5	4	6	14	20	32	17	0	67.3
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Other Non-Hispanic*	340	15	1	4	15	18	20	23	55	65	56	68	0	62.3
Male	181	11	0	2	11	11	13	16	32	34	25	26	0	57.9
Female	159	4	1	2	4	7	7	7	23	31	31	42	0	67.4
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Hispanic Any Race	918	43	11	14	47	64	65	83	129	123	149	190	0	60.0
Male	503	30	6	7	32	45	41	47	83	61	79	72	0	55.5
Female	415	13	5	7	15	19	24	36	46	62	70	118	0	65.4
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Not Stated	63	2	0	1	1	1	1	8	24	16	6	3	0	60.3
Male	42	1	0	0	1	1	0	6	20	7	5	1	0	60.0
Female	21	1	0	1	0	0	1	2	4	9	1	2	0	60.9
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, 2017

Population Group	Total	Causes of Death										
		Heart Disease	Malignant Neoplasms	Chronic Lower Respiratory Diseases	Unintentional Injuries	Cerebro-vascular Disease	Alzheimer's Disease	Diabetes Mellitus	Suicide	Pneumonia and Influenza	Nephritis, Nephrotic Syndrome, Nephrosis	All Other Causes
Total	26,725	5,636	5,391	1,816	1,573	1,327	886	864	544	540	531	7,617
White Non-Hispanic	23,557	5,073	4,790	1,678	1,317	1,189	825	706	456	502	440	6,581
Black Non-Hispanic	1,421	292	275	69	68	65	23	79	21	15	43	471
Native American Non-Hispanic	194	32	38	15	21	7	5	12	6	2	5	51
Asian/Pacific Non-Hispanic	232	34	64	7	12	14	3	10	11	5	6	66
Other Non-Hispanic*	340	57	53	20	33	14	6	12	15	3	5	122
Hispanic Any Race	918	133	168	18	116	38	24	43	34	12	32	300
n.s.	63	15	3	9	6	0	0	2	1	1	0	26
Male	13,576	2,962	2,936	896	913	539	278	476	426	243	267	3,640
White Non-Hispanic	11,857	2,665	2,619	836	748	477	262	396	360	224	215	3,055
Black Non-Hispanic	768	154	143	28	45	28	6	38	15	8	26	277
Native American Non-Hispanic	97	14	16	8	13	3	0	7	6	1	4	25
Asian/Pacific Non-Hispanic	128	18	42	5	9	5	1	2	7	4	4	31
Other Non-Hispanic*	181	29	30	8	19	4	2	8	9	2	3	67
Hispanic Any Race	503	72	84	8	74	22	7	23	28	3	15	167
n.s.	42	10	2	3	5	0	0	2	1	1	0	18
Female	13,149	2,674	2,455	920	660	788	608	388	118	297	264	3,977
White Non-Hispanic	11,700	2,408	2,171	842	569	712	563	310	96	278	225	3,526
Black Non-Hispanic	653	138	132	41	23	37	17	41	6	7	17	194
Native American Non-Hispanic	97	18	22	7	8	4	5	5	0	1	1	26
Asian/Pacific Non-Hispanic	104	16	22	2	3	9	2	8	4	1	2	35
Other Non-Hispanic*	159	28	23	12	14	10	4	4	6	1	2	55
Hispanic Any Race	415	61	84	10	42	16	17	20	6	9	17	133
n.s.	21	5	1	6	1	0	0	0	0	0	0	8
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, 2017

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	26,725	217	42	64	313	476	653	1,375	3,443	4,780	6,296	9,065	1	74.2
Selected Causes	20,401	71	28	47	278	390	539	1,100	2,779	3,849	4,822	6,498	1	n.a.
Tuberculosis	1	0	0	0	0	0	0	1	0	0	0	0	0	51.0
HIV/AIDS	22	0	0	0	1	1	1	9	3	5	2	0	0	55.6
Malignant Neoplasms	5,391	1	4	11	9	24	97	312	1,083	1,461	1,463	925	1	71.9
Diabetes mellitus	864	0	0	0	0	13	28	51	144	232	213	183	0	72.0
Alzheimer's Disease	886	0	0	0	0	0	0	2	10	35	259	580	0	86.8
Heart Disease	5,636	0	1	0	3	29	75	250	653	958	1,255	2,412	0	78.7
Prim. Hypertension/Hypertensive Renal Dis. And Sec. Hypertension	263	0	0	0	0	4	1	14	34	37	50	123	0	79.1
Cerebrovascular Disease	1,327	1	0	3	3	3	14	41	99	176	360	627	0	80.6
Atherosclerosis	384	0	0	0	0	0	0	5	25	39	107	208	0	83.5
Pneumonia and Influenza	540	0	1	0	1	3	7	12	32	67	129	288	0	82.0
Chronic Lower Respiratory Diseases	1,816	0	0	2	1	5	7	44	208	458	574	517	0	76.9
Peptic Ulcer	32	0	0	0	0	0	0	1	4	6	6	15	0	78.5
Chronic Liver Disease and Cirrhosis	311	0	0	0	0	8	26	63	106	63	32	13	0	60.3
Nephritis, Nephrotic Syndrome and Nephrosis	531	0	0	0	0	3	6	15	69	91	141	206	0	78.2
Congenital Anomalies	102	53	2	4	3	4	3	6	12	9	3	3	0	24.3
Unintentional Injuries	1,573	14	14	21	117	146	157	162	199	159	204	380	0	60.3
Suicide	544	0	0	6	93	101	91	91	75	48	23	16	0	43.8
Homicide	179	2	6	0	47	46	26	21	23	5	1	2	0	35.2

* 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, 2017

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	26,725	13,576	13,149	0	917.4	935.0	899.9	74.2	71.1	77.5
Heart Disease	5,636	2,962	2,674	0	193.5	204.0	183.0	78.7	75.4	82.4
Malignant Neoplasms	5,391	2,936	2,455	0	185.1	202.2	168.0	71.9	72.0	71.8
Chronic Lower Respiratory Diseases	1,816	896	920	0	62.3	61.7	63.0	76.9	76.6	77.2
Unintentional Injuries	1,573	913	660	0	54.0	62.9	45.2	60.3	55.4	67.1
Cerebrovascular Disease	1,327	539	788	0	45.6	37.1	53.9	80.6	77.8	82.6
Alzheimer's Disease	886	278	608	0	30.4	19.1	41.6	86.8	85.2	87.5
Diabetes mellitus	864	476	388	0	29.7	32.8	26.6	72.0	71.1	73.0
Suicide	544	426	118	0	18.7	29.3	8.1	43.8	44.5	41.3
Pneumonia and Influenza	540	243	297	0	18.5	16.7	20.3	82.0	79.6	83.9
Nephritis, Nephrotic Syndrome and Nephrosis	531	267	264	0	18.2	18.4	18.1	78.2	77.3	79.0

*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 2017.

Table E8
 Death Rates, Age-Adjusted Death Rates and 95% Confidence Intervals
 for Selected Leading Causes of Death
 Kansas, 2016-2017

Cause of Death§	2016					2017				
	Number	Death Rate*	Age-Adjusted Death Rate†	CI (95%)‡		Number	Death Rate*	Age-Adjusted Death Rate†	CI (95%)‡	
				Lower	Upper				Lower	Upper
All Causes	26,129	898.7	753.5	744.2	762.8	26,725	917.4	761.3	752.0	770.6
Heart Disease	5,630	193.7	158.0	153.7	162.2	5,636	193.5	155.5	151.3	159.6
Malignant Neoplasms	5,460	187.8	157.9	153.6	162.2	5,391	185.1	154.2	150.0	158.4
Chronic Lower Respiratory Diseases	1,653	56.9	48.2	45.8	50.6	1,816	62.3	51.3	48.9	53.7
Unintentional Injuries	1,468	50.5	46.4	44.0	48.8	1,573	54.0	49.3	46.8	51.8
Cerebrovascular Disease	1,355	46.6	38.4	36.3	40.5	1,327	45.6	36.9	34.9	38.9
Alzheimer's Disease	853	29.3	23.0	21.4	24.6	886	30.4	24.0	22.4	25.6
Diabetes mellitus	725	24.9	21.1	19.5	22.7	864	29.7	24.9	23.2	26.6
Suicide	512	17.6	17.8	16.2	19.4	544	18.7	18.8	17.2	20.4
Pneumonia and Influenza	518	17.8	14.3	13.0	15.6	540	18.5	14.8	13.5	16.1
Nephritis, Nephrotic Syndrome and Nephrosis	529	18.2	14.8	13.5	16.1	531	18.2	14.7	13.4	16.0
Atherosclerosis	385	13.2	10.5	9.4	11.6	384	13.2	10.5	9.4	11.6
Chronic Liver Disease and Cirrhosis	316	10.9	9.8	8.7	10.9	311	10.7	9.5	8.4	10.6
Prim. Hypertension/Hypertensive Renal Disease and Sec. Hypertension	222	7.6	6.1	5.3	6.9	263	9.0	7.2	6.3	8.1
Homicide	148	5.1	5.3	4.4	6.2	179	6.1	6.2	5.3	7.1
Certain Conditions Originating in the Perinatal Period	104	3.6	3.8	3.1	4.5	108	3.7	3.9	3.2	4.6
Congenital Anomalies	108	3.7	3.6	2.9	4.3	102	3.5	3.4	2.7	4.1

* 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, 1998-2017

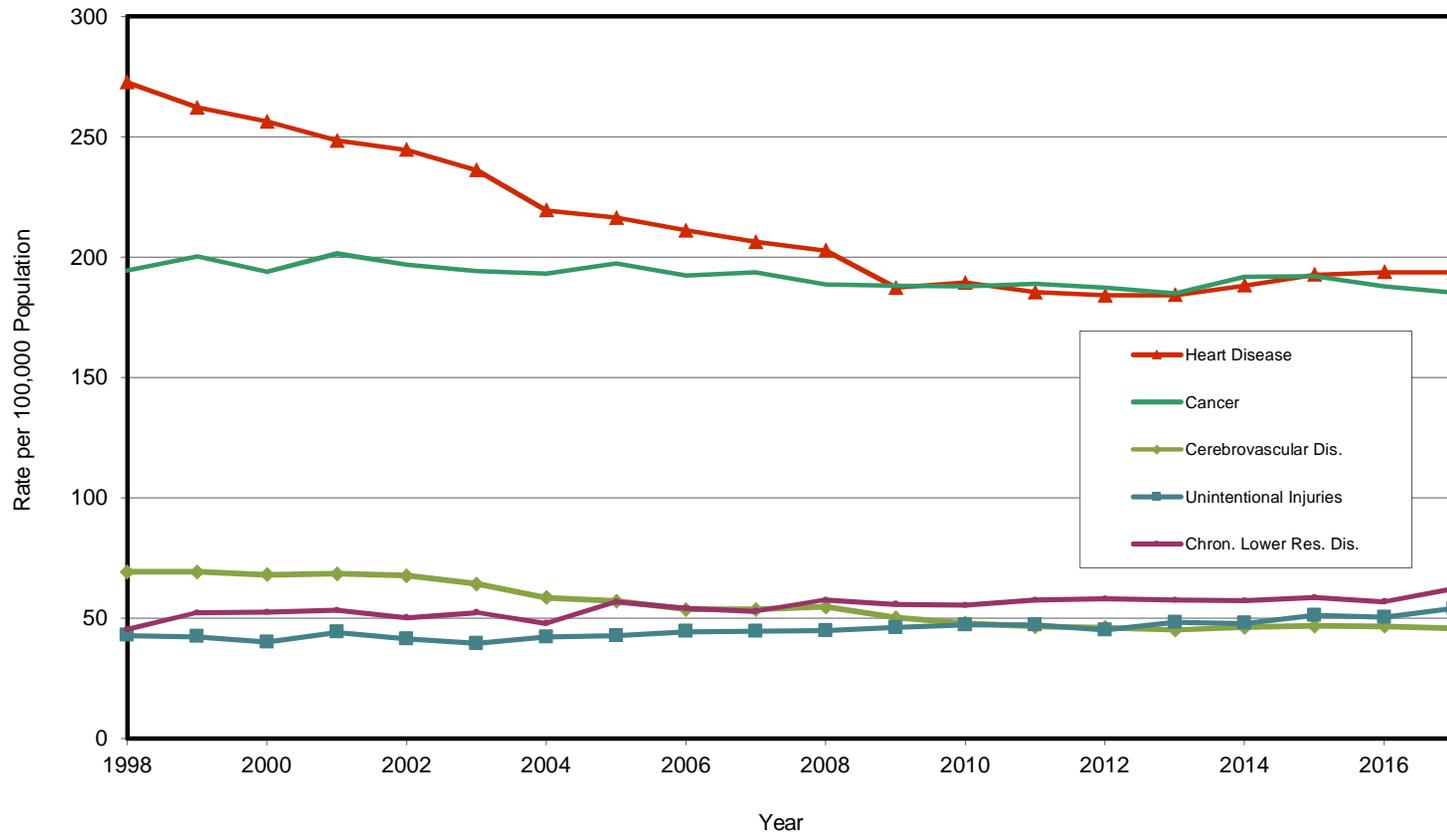


Figure E3

Leading Causes of Death by Age-Group
Kansas, 2017

ALL AGES	
CAUSE	NUMBER
HEART DISEASE	5,636
CANCER	5,391
CHRON. LOWER RESP. DIS.	1,816
UNINTENTIONAL INJURIES	1,573
CEREBROVASC. DIS.	1,327
OTHER CAUSES	10,982
TOTAL	26,725

UNDER 1 YEAR	
CAUSE	NUMBER
CONGENITAL ANOMALIES	53
LENGTH GEST./FETAL GROWTH	40
MATERNAL FACTORS & COMPL.	25
UNINTENTIONAL INJURIES	14
SIDS	13
OTHER CAUSES	72
TOTAL	217

1-4 YEARS	
CAUSE	NUMBER
UNINTENTIONAL INJURIES	14
HOMICIDE	6
ENDOCRINE DISEASES	2
DIS. OF THE RESPIRATORY SYST	2
OTHER CAUSES	18
TOTAL	42

5-14 YEARS	
CAUSE	NUMBER
UNINTENTIONAL INJURIES	21
CANCER	11
SUICIDE	6
CONGENITAL ANOMALIES	4
CEREBROVASCULAR DISEASE	3
OTHER CAUSES	19
TOTAL	64

15-24 YEARS	
CAUSE	NUMBER
UNINTENTIONAL INJURIES	117
SUICIDE	93
HOMICIDE	47
CANCER	9
CEREBROVASC. DIS.	3
CONGENITAL ANOMALIES	3
HEART DISEASE	3
OTHER CAUSES	38
TOTAL	313

25-44 YEARS	
CAUSE	NUMBER
UNINTENTIONAL INJURIES	303
SUICIDE	192
CANCER	121
HEART DISEASE	104
HOMICIDE	72
OTHER CAUSES	337
TOTAL	1,129

45-64 YEARS	
CAUSE	NUMBER
CANCER	1,395
HEART DISEASE	903
UNINTENTIONAL INJURIES	361
CHRON. LOWER RESP. DIS.	252
DIABETES MELLITUS	195
OTHER CAUSES	1,712
TOTAL	4,818

65-84 YEARS	
CAUSE	NUMBER
CANCER	2,924
HEART DISEASE	2,213
CHRON. LOWER RESP. DIS.	1,032
CEREBROVASC. DIS.	536
DIABETES MELLITUS	445
OTHER CAUSES	3,926
TOTAL	11,076

85 YEARS AND OVER	
CAUSE	NUMBER
HEART DISEASE	2,412
CANCER	925
CEREBROVASC. DIS.	627
ALZHEIMER'S DISEASE	580
CHRON. LOWER RESP. DIS.	517
OTHER CAUSES	4,004
TOTAL	9,065

Figure E4

Table E9
Pneumonia and Influenza Mortality
Number and Age-Adjusted Rates
Kansas Residents, 1999-2017*

Year	Number of Deaths	Age-Adjusted Rate
1999	670	22.0
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

* 1999 is year Kansas switched to ICD-10 cause of death classification.

Pneumonia and Influenza Deaths
by Month and by Five-Year Median for Month
Kansas Residents, 2017

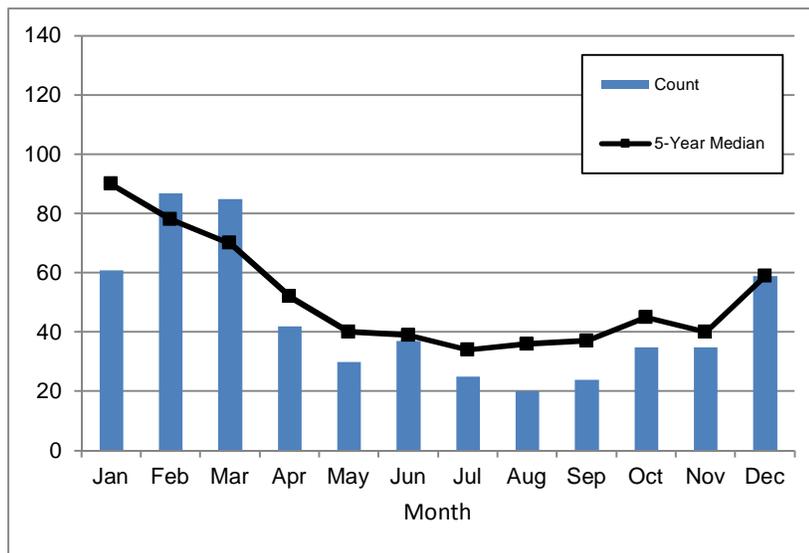


Figure E5

Table E10
Heart Disease Deaths by Component and Sex of Decedent, by Age-Group of Decedent
Kansas, 2017

Causes 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	
Heart Disease	5,636	0	1	0	3	29	75	250	653	958	1,255	2,412	0
Male	2,962	0	1	0	2	20	44	175	456	625	679	960	0
Female	2,674	0	0	0	1	9	31	75	197	333	576	1,452	0
Acute Rheumatic Fever and Chronic Rheumatic Heart Disease	26	0	0	0	0	0	1	1	1	5	7	11	0
Male	8	0	0	0	0	0	0	1	1	1	3	2	0
Female	18	0	0	0	0	0	1	0	0	4	4	9	0
Hypertensive Heart Disease with or without Renal Disease	376	0	0	0	0	0	7	17	34	60	58	200	0
Male	156	0	0	0	0	0	3	11	22	36	27	57	0
Female	220	0	0	0	0	0	4	6	12	24	31	143	0
Ischemic Heart Disease	3,299	0	0	0	0	10	42	157	465	640	756	1,229	0
Male	1,977	0	0	0	0	8	31	111	340	451	462	574	0
Female	1,322	0	0	0	0	2	11	46	125	189	294	655	0
Pulmonary Heart Disease and Diseases of Pulmonary Circulation	189	0	0	0	1	3	8	17	22	30	50	58	0
Male	58	0	0	0	1	1	2	10	7	13	14	10	0
Female	131	0	0	0	0	2	6	7	15	17	36	48	0
Other Forms of Heart Disease	1,746	0	1	0	2	16	17	58	131	223	384	914	0
Male	763	0	1	0	1	11	8	42	86	124	173	317	0
Female	983	0	0	0	1	5	9	16	45	99	211	597	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, 2017

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)	5,390	1	4	11	9	24	97	312	1,083	1,461	1,463	925
Male	2,935	0	3	5	4	13	40	151	597	840	824	458
Female	2,455	1	1	6	5	11	57	161	486	621	639	467
Lip, Oral Cavity and Pharynx	95	0	0	0	0	0	1	9	28	24	21	12
Male	71	0	0	0	0	0	0	9	24	17	14	7
Female	24	0	0	0	0	0	1	0	4	7	7	5
Digestive Organs	1,370	0	0	2	0	4	22	99	308	366	350	219
Male	805	0	0	1	0	1	12	58	203	238	200	92
Female	565	0	0	1	0	3	10	41	105	128	150	127
Respiratory and Intrathoracic Organs	1,398	0	0	0	1	1	8	57	288	462	406	175
Male	777	0	0	0	0	1	3	30	155	263	227	98
Female	621	0	0	0	1	0	5	27	133	199	179	77
Bone and Articular Cartilage	18	0	0	1	2	1	3	1	1	2	5	2
Male	11	0	0	0	2	1	1	1	1	2	2	1
Female	7	0	0	1	0	0	2	0	0	0	3	1
Skin	116	0	0	0	0	0	2	8	18	37	24	27
Male	79	0	0	0	0	0	1	3	17	25	16	17
Female	37	0	0	0	0	0	1	5	1	12	8	10
Mesothelial and Soft Tissue	77	0	0	2	2	1	3	9	18	20	15	7
Male	45	0	0	1	1	0	2	6	9	11	11	4
Female	32	0	0	1	1	1	1	3	9	9	4	3
Breast	342	0	0	0	0	2	12	36	79	79	77	57
Male	8	0	0	0	0	0	0	0	1	4	3	0
Female	334	0	0	0	0	2	12	36	78	75	74	57
Genital Organs	563	0	0	1	1	1	13	25	87	145	152	138
Male	277	0	0	1	0	0	1	4	26	61	96	88
Female	286	0	0	0	1	1	12	21	61	84	56	50
Urinary Tract	299	0	1	0	0	0	1	11	49	65	101	71
Male	207	0	1	0	0	0	1	6	38	51	68	42
Female	92	0	0	0	0	0	0	5	11	14	33	29
Eye and Adnexa	4	0	0	0	0	0	0	0	0	1	2	1
Male	2	0	0	0	0	0	0	0	0	0	2	0
Female	2	0	0	0	0	0	0	0	0	1	0	1
Meninges, Brain and Other Parts of Central Nervous System	166	0	0	3	2	7	14	12	46	43	26	13
Male	93	0	0	0	1	4	8	9	23	31	12	5
Female	73	0	0	3	1	3	6	3	23	12	14	8
Thyroid and Other Endocrine Glands	23	0	0	1	0	0	1	1	4	8	4	4
Male	13	0	0	1	0	0	0	1	2	5	2	2
Female	10	0	0	0	0	0	1	0	2	3	2	2
Other and Unspecified Sites	398	0	0	0	0	2	6	27	92	83	106	82
Male	234	0	0	0	0	1	2	12	56	55	67	41
Female	164	0	0	0	0	1	4	15	36	28	39	41
Leukemia	234	1	3	1	0	4	4	6	30	53	79	53
Male	142	0	2	1	0	4	2	3	21	30	53	26
Female	92	1	1	0	0	0	2	3	9	23	26	27
Other Lymphoid, Hematopoietic and Related Tissue	287	0	0	0	1	1	7	11	35	73	95	64
Male	171	0	0	0	0	1	7	9	21	47	51	35
Female	116	0	0	0	1	0	0	2	14	26	44	29

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

† There was also one genital cancer death in 2017 for an male of unknown age, for a total of 5,391 malignant neoplasm deaths.

Table E12
Cerebrovascular Disease Deaths by Component and Sex of Decedent, by Age-Group of Decedent
Kansas, 2017

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	1,327	1	0	3	3	3	14	41	99	176	360	627
Male	539	1	0	3	2	1	8	19	52	90	161	202
Female	788	0	0	0	1	2	6	22	47	86	199	425
Subarachnoid Hemorrhage	53	0	0	0	0	1	3	10	9	7	13	10
Male	14	0	0	0	0	0	1	2	1	2	5	3
Female	39	0	0	0	0	1	2	8	8	5	8	7
Intracerebral and Other Intercranial Hemorrhage	277	0	0	1	1	2	7	12	29	42	92	91
Male	128	0	0	1	1	1	4	7	20	20	37	37
Female	149	0	0	0	0	1	3	5	9	22	55	54
Cerebral Infarction	183	0	0	0	0	0	0	3	12	30	49	89
Male	73	0	0	0	0	0	0	1	6	18	19	29
Female	110	0	0	0	0	0	0	2	6	12	30	60
Stroke, Not Specified as Hemorrhage or Infarction	563	0	0	2	1	0	1	11	38	68	146	296
Male	231	0	0	2	0	0	1	6	22	37	72	91
Female	332	0	0	0	1	0	0	5	16	31	74	205
Other Cerebrovascular Diseases	251	1	0	0	1	0	3	5	11	29	60	141
Male	93	1	0	0	1	0	2	3	3	13	28	42
Female	158	0	0	0	0	0	1	2	8	16	32	99

* 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, 2017

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	1,573	14	14	21	117	146	157	162	199	159	204	380
Male	913	9	11	11	86	103	108	103	128	103	103	148
Female	660	5	3	10	31	43	49	59	71	56	101	232
Motor-Vehicle	447	0	6	12	77	74	62	54	67	34	41	20
Male	317	0	6	8	55	52	46	46	46	24	21	13
Female	130	0	0	4	22	22	16	8	21	10	20	7
<i>Traffic</i>	427	0	4	9	75	73	61	52	62	32	40	19
Male	301	0	4	6	54	52	45	44	42	22	20	12
Female	126	0	0	3	21	21	16	8	20	10	20	7
<i>Non-Traffic</i>	20	0	2	3	2	1	1	2	5	2	1	1
Male	16	0	2	2	1	0	1	2	4	2	1	1
Female	4	0	0	1	1	1	0	0	1	0	0	0
Water Transport	2	0	0	0	0	0	0	1	0	0	1	0
Male	2	0	0	0	0	0	0	1	0	0	1	0
Female	0	0	0	0	0	0	0	0	0	0	0	0
Air and Space Transport	4	0	0	0	0	2	0	0	2	0	0	0
Male	3	0	0	0	0	1	0	0	2	0	0	0
Female	1	0	0	0	0	1	0	0	0	0	0	0
Falls	469	0	0	0	0	2	4	11	26	52	99	275
Male	206	0	0	0	0	2	4	8	19	30	47	96
Female	263	0	0	0	0	0	0	3	7	22	52	179
Inanimate Mechanical Forces	30	0	0	2	5	1	3	4	5	1	9	0
Male	27	0	0	1	5	1	3	4	4	1	8	0
Female	3	0	0	1	0	0	0	0	1	0	1	0
Drowning and Submersion	26	1	2	4	5	4	4	1	3	1	1	0
Male	18	0	2	0	5	4	4	0	2	1	0	0
Female	8	1	0	4	0	0	0	1	1	0	1	0
Other Accidental Threats to Breathing	100	13	2	0	2	2	4	3	12	20	18	24
Male	60	9	2	0	1	2	3	1	8	12	8	14
Female	40	4	0	0	1	0	1	2	4	8	10	10

Table E13
Unintentional Injury Deaths by Component and Sex of Decedent, by Age-Group of Decedent
Kansas, 2017

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	1	0	0	2	0	1	0	0	1	0
Male	4	0	0	0	0	2	0	1	0	0	1	0
Female	1	0	1	0	0	0	0	0	0	0	0	0
Smoke, Fire and Flames	26	0	2	1	1	0	3	1	5	6	2	5
Male	16	0	0	1	1	0	2	0	4	4	1	3
Female	10	0	2	0	0	0	1	1	1	2	1	2
Forces of Nature	8	0	0	0	0	0	1	1	1	2	1	2
Male	8	0	0	0	0	0	1	1	1	2	1	2
Female	0	0	0	0	0	0	0	0	0	0	0	0
Poisonings	290	0	0	0	21	52	68	72	59	12	4	2
Male	164	0	0	0	17	35	41	31	31	7	1	1
Female	126	0	0	0	4	17	27	41	28	5	3	1
Other Unintentional Injuries	120	0	0	2	6	5	7	11	7	18	20	44
Male	62	0	0	1	2	2	4	9	5	13	11	15
Female	58	0	0	1	4	3	3	2	2	5	9	29
Complications of Medical and Surgical Care	46	0	1	0	0	2	1	2	12	13	7	8
Male	26	0	1	0	0	2	0	1	6	9	3	4
Female	20	0	0	0	0	0	1	1	6	4	4	4

* 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, 2017*

Cause Group †	Total	Unintentional	Suicide	Homicide	Undetermined	Legal/War
Total	2,286	1,527	544	179	33	3
Cut/Pierce	25	2	7	16	0	0
Drowning	32	26	1	1	4	0
Falls	473	469	4	0	0	0
Fire/flame	30	26	2	1	1	0
Hot Object/Scalding	1	1	0	0	0	0
Firearm	455	9	309	134	0	3
Machinery	11	11	0	0	0	0
Motor Vehicle Traffic	427	427	0	0	0	0
Other Pedal Cyclist	0	0	0	0	0	0
Other Pedestrian	9	9	0	0	0	0
Other Land Transport	22	20	1	1	0	0
Other Transport	6	6	0	0	0	0
Natural/Environmental	10	10	0	0	0	0
Overexertion	0	0	0	0	0	0
Poisoning	373	290	64	2	17	0
Struck By/Against	6	6	0	0	0	0
Suffocation	256	100	150	5	1	0
Other Specified	14	11	2	1	0	0
NEC §	18	10	3	4	1	0
Not Specified	118	94	1	14	9	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, 2008-2017

Type of Industry	Total	Year									
		2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total	545	42	50	74	59	49	59	58	50	55	49
Agriculture, Forestry, Fishing and Hunting	100	12	14	15	10	11	9	13	7	3	6
Mining	23	3	2	2	0	2	5	3	2	3	1
Utilities	12	2	0	1	1	0	1	0	2	3	2
Construction	102	5	14	18	15	9	13	5	7	6	10
Manufacturing	54	3	1	6	5	4	5	13	4	10	3
Wholesale Trade	27	0	1	1	8	4	1	3	4	2	3
Retail Trade	26	2	2	9	2	5	1	0	0	3	2
Transportation and Warehousing	61	5	4	6	5	3	12	6	6	7	7
Information	1	0	0	0	0	0	0	1	0	0	0
Finance and Insurance	2	1	0	0	0	0	0	0	1	0	0
Real Estate, and Rental, and Leasing	3	1	1	0	0	0	0	0	0	1	0
Professional, Scientific and Technical Services	7	1	0	1	0	1	0	2	0	0	2
Management of Companies and Enterprises	0	0	0	0	0	0	0	0	0	0	0
Admin. and Support & Waste Management Services	10	0	0	1	2	1	0	3	3	0	0
Educational Services	7	0	0	1	1	1	0	1	0	3	0
Health Care and Social Assistance	14	0	3	1	0	1	1	2	0	2	4
Arts, Entertainment, and Recreation	3	0	0	1	0	0	0	1	0	1	0
Accommodation and Food Services	5	2	0	0	1	0	2	0	0	0	0
Other Services (except Public Admin.)	18	1	1	2	2	1	1	1	5	1	3
Public Admin. and Active Duty Military	30	2	3	4	2	4	1	3	1	6	4
Housewives, Students, Children, Volunteers and None [‡]	16	0	2	3	3	0	3	0	3	2	0
n.s.	24	2	2	2	2	2	4	1	5	2	2

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

[‡]This category includes those who were never employed.

Table E16
Selected Chronic Disease Deaths by Component and Sex of Decedent, by Age-Group of Decedent
Kansas, 2017

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	4,201	0	0	2	1	33	68	193	590	926	1,123	1,265
Male	2,132	0	0	1	1	23	44	109	328	510	577	539
Female	2,069	0	0	1	0	10	24	84	262	416	546	726
Diabetes mellitus	864	0	0	0	0	13	28	51	144	232	213	183
Male	476	0	0	0	0	7	16	29	93	126	116	89
Female	388	0	0	0	0	6	12	22	51	106	97	94
Primary Hypertension/Hypertensive Renal Dis. And Secondary Hypertension	263	0	0	0	0	4	1	14	34	37	50	123
Male	117	0	0	0	0	3	1	9	21	21	22	40
Female	146	0	0	0	0	1	0	5	13	16	28	83
Atherosclerosis	384	0	0	0	0	0	0	5	25	39	107	208
Male	156	0	0	0	0	0	0	4	14	22	41	75
Female	228	0	0	0	0	0	0	1	11	17	66	133
Chronic Lower Respiratory Diseases	1,816	0	0	2	1	5	7	44	208	458	574	517
Male	896	0	0	1	1	3	5	13	95	244	306	228
Female	920	0	0	1	0	2	2	31	113	214	268	289
Peptic Ulcer	32	0	0	0	0	0	0	1	4	6	6	15
Male	13	0	0	0	0	0	0	0	3	1	4	5
Female	19	0	0	0	0	0	0	1	1	5	2	10
Chronic Liver Disease and Cirrhosis	311	0	0	0	0	8	26	63	106	63	32	13
Male	207	0	0	0	0	7	18	47	69	45	17	4
Female	104	0	0	0	0	1	8	16	37	18	15	9
Nephritis, Nephrotic Syndrome, and Nephrosis	531	0	0	0	0	3	6	15	69	91	141	206
Male	267	0	0	0	0	3	4	7	33	51	71	98
Female	264	0	0	0	0	0	2	8	36	40	70	108

* 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, 2017

Underlying Cause of Death	Number of Deaths with Underlying Cause	Number of Deaths in which Diabetes was Contributing Cause
HIV (AIDS)	22	1
Cancer	5,391	217
Diabetes Mellitus	864	859
Alzheimer's Disease	886	49
Heart Disease	5,636	593
Primary Hypertension/Hypertensive Renal Disease/Secondary Hypertension	263	22
Cerebrovascular Disease	1,327	87
Atherosclerosis	384	2
Influenza and Pneumonia	540	31
Chronic Lower Respiratory Disease	1,816	101
Chronic Liver Disease and Cirrhosis	311	18
Nephritis, Nephrotic Syndrome, Nephrosis	531	3
Accidents/Adverse Effects	1,573	71
Suicide	544	3
Total for These Causes	20,088	2,057

Table E18
Deaths by Occupation of Decedent* by
Selected Causes of Death
Kansas, 2017

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	26,725	5,636	5,391	1,327	1,573	1,816	544	384	311	179	32	263	9,269
Management	3,238	777	725	179	166	193	56	37	28	7	3	26	1,041
Business and Financial Operations	734	141	167	41	27	47	15	15	10	1	1	7	262
Computer and Mathematical	192	32	61	5	14	8	9	1	2	2	0	1	57
Architecture and Engineering	446	88	103	27	25	23	7	7	6	2	0	3	155
Life, Physical, and Social Services	144	26	36	3	8	6	4	1	0	0	0	1	59
Community and Social Services	352	85	87	13	18	13	4	9	1	0	0	1	121
Legal	132	22	37	6	7	9	1	2	1	0	0	0	47
Education, Training, and Library	1,229	246	254	68	70	57	11	16	6	0	0	9	492
Arts, Design, Entertainment, Sports, and Media	303	55	69	18	13	20	9	1	6	2	1	3	106
Healthcare Practitioners and Technical	1,059	202	242	58	49	54	22	23	8	4	4	10	383
Healthcare Support	584	118	122	31	41	46	9	9	10	4	0	8	186
Protective Service	314	66	60	8	18	25	18	5	7	0	0	5	102
Food Preparation and Serving Related	658	128	111	35	40	56	16	6	9	10	2	11	234
Building and Grounds Cleaning and Maintenance	649	139	125	28	40	65	8	8	14	7	1	4	210
Personal Care and Service	465	89	87	25	34	30	6	8	3	5	1	3	174
Sales and Related	2,016	440	427	104	105	143	34	32	19	6	2	16	688
Office and Admin. Support	2,518	504	514	140	116	184	15	44	25	9	1	31	935
Farming, Forestry, and Fishing	81	21	14	1	7	8	4	0	1	0	0	0	25
Construction and Extraction	1,572	322	404	55	110	126	49	14	44	31	1	13	403
Installation, Repair, and Maintenance	819	186	176	25	61	66	28	7	14	9	1	9	237
Production	1,826	422	390	86	104	142	39	29	25	3	3	19	564
Transportation and Material Moving	1,749	363	412	70	113	152	50	18	25	20	3	16	507
Housewives, Students, Children, Volunteers, and None‡	3,383	701	443	204	171	212	41	69	23	19	4	46	1,450
n.s.	2,262	463	325	97	216	131	89	23	24	38	4	21	831

*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, 2017

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	Hypertension	All Other Causes
Total	26,725	5,636	5,391	1,327	1,573	1,816	544	384	311	179	32	263	9,269
Agriculture, Forestry, Fishing and Hunting	1,395	357	276	81	81	81	18	3	11	1	1	17	468
Mining	236	47	62	10	11	18	10	2	4	0	0	3	69
Utilities	297	71	64	21	15	18	4	3	4	1	0	2	94
Construction	1,686	363	420	62	129	135	54	16	43	33	1	12	418
Manufacturing	2,911	642	637	137	146	213	56	37	36	11	5	29	962
Wholesale Trade	488	104	93	16	31	41	15	7	8	0	0	4	169
Retail Trade	1,987	445	415	89	111	145	29	26	23	14	4	17	669
Transportation and Warehousing	1,495	319	377	62	72	125	35	16	19	7	0	9	454
Information	538	114	115	28	21	43	9	11	11	1	0	4	181
Finance and Insurance	818	153	175	47	41	51	17	14	9	1	1	5	304
Real Estate, and Rental, and Leasing	292	68	54	17	24	26	3	9	2	1	1	3	84
Professional, Scientific and Technical Services	783	143	202	41	46	40	22	14	7	2	2	3	261
Management of Companies and Enterprises	9	4	3	1	0	0	0	0	0	0	0	0	1
Admin. and Support & Waste Management Services	427	73	86	20	39	29	11	4	8	8	0	6	143
Educational Services	2,054	428	409	109	111	105	23	31	12	2	2	23	799
Health Care and Social Assistance	2,366	465	532	122	126	156	35	47	27	15	4	26	811
Arts, Entertainment, and Recreation	164	28	41	10	5	13	5	2	2	1	0	3	54
Accommodation and Food Services	730	138	135	34	51	68	28	5	15	15	2	5	234
Other Services (except Public Admin.)	2,347	500	379	122	197	129	72	38	24	29	2	21	834
Public Admin. and Active Duty Military	1,534	312	337	63	78	114	41	25	11	1	0	19	533
Housewives, Students, Children, Volunteers and None [§]	3,357	702	442	202	169	210	33	68	22	17	4	46	1,442
n.s.	811	160	137	33	69	56	24	6	13	19	3	6	285

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

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

[§]This category includes those who were never employed.

Table E20
Selected Causes of Death and Years of Potential Life Lost (YPLL)
Before Age 75
Kansas, 2017

CAUSE OF DEATH *	Number of Deaths	Total Years Life Lost	Percent Years Lost By Cause	Rate [†] Years Lost By Cause
Total Deaths	26,725	196,255	100.0	67.4
Heart Disease	5,636	25,245	12.9	8.7
Cancer	5,391	37,642	19.2	12.9
Chronic Lower Respiratory Dis.	1,816	6,958	3.5	2.4
Unintentional Injuries	1,573	30,129	15.4	10.3
Cerebrovascular Disease	1,327	4,474	2.3	1.5
Alzheimer's Disease	886	364	0.2	0.1
Diabetes	864	6,225	3.2	2.1
Suicide	544	17,273	8.8	5.9
Pneumonia and Influenza	540	1,630	0.8	0.6
Nephritis and Nephrotic Syndrome	531	2,210	1.1	0.8
Atherosclerosis	384	714	0.4	0.2
Chronic Liver Disease and Cirrhosis	311	4,881	2.5	1.7
Homicide	179	7,149	3.6	2.5
All Other Causes	6,743	51,361	26.2	17.6
Male Deaths	13,576	121,651	100.0	83.8
Heart Disease	2,962	17,158	14.1	11.8
Cancer	2,936	19,996	16.4	13.8
Unintentional Injuries	913	20,568	16.9	14.2
Chronic Lower Respiratory Dis.	896	3,352	2.8	2.3
Cerebrovascular Disease	539	2,399	2.0	1.7
Diabetes	476	3,657	3.0	2.5
Suicide	426	13,245	10.9	9.1
Alzheimer's Disease	278	127	0.1	0.1
Nephritis and Nephrotic Syndrome	267	1,190	1.0	0.8
Pneumonia and Influenza	243	921	0.8	0.6
Chronic Liver Disease and Cirrhosis	207	3,494	2.9	2.4
Atherosclerosis	156	427	0.4	0.3
Homicide	141	5,545	4.6	3.8
All Other Causes	3,136	29,572	24.3	20.4
Female Deaths	13,149	74,604	100.0	51.1
Heart Disease	2,674	8,087	10.8	5.5
Cancer	2,455	17,646	23.7	12.1
Chronic Lower Respiratory Dis.	920	3,606	4.8	2.5
Cerebrovascular Disease	788	2,075	2.8	1.4
Unintentional Injuries	660	9,561	12.8	6.5
Alzheimer's Disease	608	237	0.3	0.2
Diabetes	388	2,568	3.4	1.8
Pneumonia and Influenza	297	709	1.0	0.5
Nephritis and Nephrotic Syndrome	264	1,020	1.4	0.7
Atherosclerosis	228	287	0.4	0.2
Suicide	118	4,028	5.4	2.8
Chronic Liver Disease and Cirrhosis	104	1,387	1.9	0.9
Homicide	38	1,604	2.2	1.1
All Other Causes	3,607	21,789	29.2	14.9

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

[†]Rate per 1,000 population.

Selected Causes of Death by Percent of Total Years of Potential Life Lost, Kansas 2017

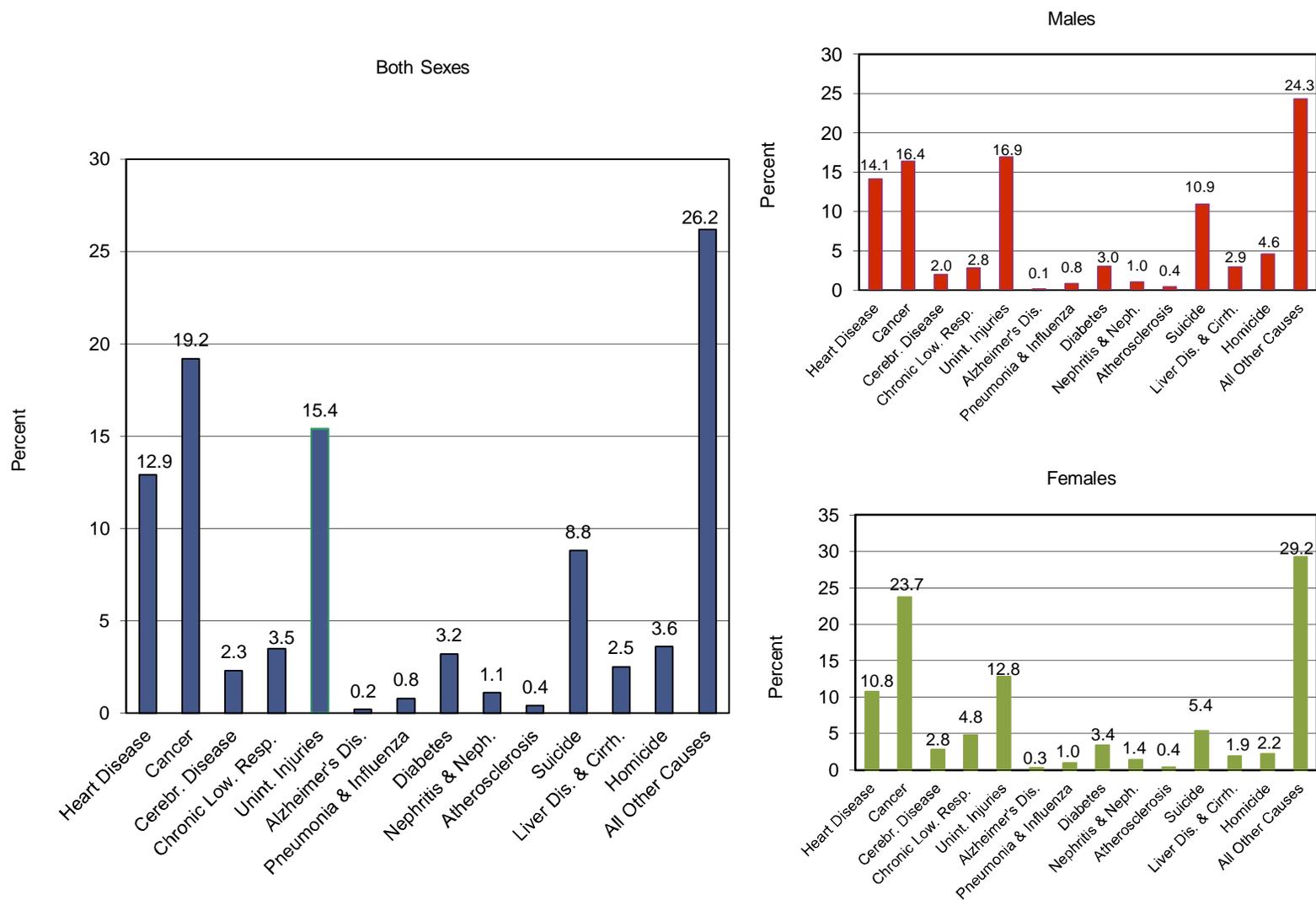


Figure E6

Table E21
Deaths from 39 Selected Causes by Number and Percent and Sex of Decedent
Related to Tobacco
Kansas, 2017

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	26,725	2,993	1,722	25.3	13,946	18,661	8,064
Male	13,576	1,782	1,093	31.5	6,257	9,132	4,444
Female	13,149	1,211	629	19.3	7,689	9,529	3,620
Tuberculosis	1	1	0	100.0	0	1	0
Male	1	1	0	100.0	0	1	0
Female	0	0	0		0	0	0
Syphilis	1	0	0		0	0	1
Male	1	0	0		0	0	1
Female	0	0	0		0	0	0
HIV/AIDS	22	1	1	12.5	14	16	6
Male	19	1	1	14.3	12	14	5
Female	3	0	0	0.0	2	2	1
Cancer of Stomach	69	7	7	26.9	38	52	17
Male	45	5	6	33.3	22	33	12
Female	24	2	1	15.8	16	19	5
Cancer of Colon, Rectum & Anus	507	23	23	13.4	297	343	164
Male	285	15	15	15.7	161	191	94
Female	222	8	8	10.5	136	152	70
Cancer of Pancreas	363	19	25	17.7	205	249	114
Male	181	11	13	20.2	95	119	62
Female	182	8	12	15.4	110	130	52
Cancer of Trachea, Bronchus & Lung	1,367	634	268	86.1	146	1,048	319
Male	753	366	151	89.9	58	575	178
Female	614	268	117	81.4	88	473	141
Cancer of Breast	342	12	10	9.0	223	245	97
Male	8	1	2	50.0	3	6	2
Female	334	11	8	7.9	220	239	95
Cancer of Cervix, Corpus & Ovary	259	5	5	5.4	176	186	73
Male	0	0	0		0	0	0
Female	259	5	5	5.4	176	186	73
Cancer of Prostate	271	9	12	11.2	166	187	84
Male	271	9	12	11.2	166	187	84
Female	0	0	0		0	0	0

Table E21
Deaths from 39 Selected Causes by Number and Percent and Sex of Decedent
Related to Tobacco
Kansas, 2017

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 Urinary Tract	299	29	39	33.3	136	204	95	
Male	207	20	30	36.0	89	139	68	
Female	92	9	9	27.7	47	65	27	
Non-Hodgkin's Lymphoma	174	6	7	10.4	112	125	49	
Male	101	6	5	15.7	59	70	31	
Female	73	0	2	3.6	53	55	18	
Leukemia	234	9	7	8.7	167	183	51	
Male	142	3	6	8.2	101	110	32	
Female	92	6	1	9.6	66	73	19	
Other Malignant Neoplasms	1,506	150	114	25.1	788	1,052	454	
Male	943	119	91	32.5	436	646	297	
Female	563	31	23	13.3	352	406	157	
Diabetes mellitus	864	98	78	28.9	434	610	254	
Male	476	75	51	39.0	197	323	153	
Female	388	23	27	17.4	237	287	101	
Alzheimer's Disease	886	6	12	2.5	697	715	171	
Male	278	2	9	5.2	200	211	67	
Female	608	4	3	1.4	497	504	104	
Hypertensive Heart Disease	376	30	24	23.3	178	232	144	
Male	156	21	14	41.2	50	85	71	
Female	220	9	10	12.9	128	147	73	
Ischemic Heart Disease	3,299	401	236	33.2	1,279	1,916	1,383	
Male	1,977	279	174	42.2	620	1,073	904	
Female	1,322	122	62	21.8	659	843	479	
Other Heart Disease	1,961	119	88	16.2	1,071	1,278	683	
Male	829	67	54	25.1	362	483	346	
Female	1,132	52	34	10.8	709	795	337	
Prim. Hypertension/ Hypertensive Renal Dis. & Sec. Hypertension	263	24	14	20.8	145	183	80	
Male	117	12	11	29.5	55	78	39	
Female	146	12	3	14.3	90	105	41	

Table E21
Deaths from 39 Selected Causes by Number and Percent and Sex of Decedent
Related to Tobacco
Kansas, 2017

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
Cerebrovascular Disease	1,327	73	75	16.7	737	885	442
Male	539	37	44	24.0	256	337	202
Female	788	36	31	12.2	481	548	240
Atherosclerosis	384	6	6	3.4	342	354	30
Male	156	2	2	2.8	137	141	15
Female	228	4	4	3.8	205	213	15
Other Disease of Circulatory System	191	32	25	48.7	60	117	74
Male	95	21	14	67.3	17	52	43
Female	96	11	11	33.8	43	65	31
Pneumonia & Influenza	540	33	21	14.7	313	367	173
Male	243	20	13	21.4	121	154	89
Female	297	13	8	9.9	192	213	84
Chronic Lower Respiratory Disease	1,816	905	309	84.3	226	1,440	376
Male	896	483	170	88.5	85	738	158
Female	920	422	139	79.9	141	702	218
Peptic Ulcer	32	1	0	4.5	21	22	10
Male	13	1	0	11.1	8	9	4
Female	19	0	0	0.0	13	13	6
Chronic Liver Disease & Cirrhosis	311	23	27	23.1	166	216	95
Male	207	13	20	23.2	109	142	65
Female	104	10	7	23.0	57	74	30
Nephritis, Nephrotic Syndrome & Nephrosis	531	24	20	13.0	294	338	193
Male	267	11	15	16.6	131	157	110
Female	264	13	5	9.9	163	181	83
Pregnancy, Childbirth, & the Puerperium	10	2	1	30.0	7	10	0
Male	0	0	0		0	0	0
Female	10	2	1	30.0	7	10	0
Certain Conditions Originating In the Perinatal Period	108	1	0	1.1	94	95	13
Male	64	0	0	0.0	57	57	7
Female	44	1	0	2.6	37	38	6

Table E21
Deaths from 39 Selected Causes by Number and Percent and Sex of Decedent
Related to Tobacco
Kansas, 2017

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
Congenital Anomalies	102	1	1	2.2	88	90	12
Male	48	1	0	2.4	40	41	7
Female	54	0	1	2.0	48	49	5
Sudden Infant Death Syndrome	13	0	0	0.0	9	9	4
Male	10	0	0	0.0	7	7	3
Female	3	0	0	0.0	2	2	1
Symptoms and Abnormal Findings	459	5	7	4.6	247	259	200
Male	251	4	5	8.0	103	112	139
Female	208	1	2	2.0	144	147	61
All Other Diseases	5,505	257	241	12.6	3,444	3,942	1,563
Male	2,497	146	153	17.6	1,399	1,698	799
Female	3,008	111	88	8.9	2,045	2,244	764
Motor Vehicle Accidents	447	2	0	0.5	362	364	83
Male	317	0	0	0.0	254	254	63
Female	130	2	0	1.8	108	110	20
All Other Accidents and Adverse Effects	1,126	39	17	8.2	623	679	447
Male	596	24	10	9.1	340	374	222
Female	530	15	7	7.2	283	305	225
Suicide	544	3	2	1.1	457	462	82
Male	426	3	2	1.4	365	370	56
Female	118	0	0	0.0	92	92	26
Homicide	179	2	0	1.2	167	169	10
Male	141	2	0	1.5	133	135	6
Female	38	0	0	0.0	34	34	4
All Other External Causes	36	1	0	5.6	17	18	18
Male	20	1	0	10.0	9	10	10
Female	16	0	0	0.0	8	8	8

* 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, 2017

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	299	0	1	0	0	0	1	11	49	65	101	71	0
Male	207	0	1	0	0	0	1	6	38	51	68	42	0
Female	92	0	0	0	0	0	0	5	11	14	33	29	0
Non-Hodgkin's Lymphoma	174	0	0	0	1	1	5	6	25	42	50	44	0
Male	101	0	0	0	0	1	5	4	15	27	28	21	0
Female	73	0	0	0	1	0	0	2	10	15	22	23	0
Leukemia	234	1	3	1	0	4	4	6	30	53	79	53	0
Male	142	0	2	1	0	4	2	3	21	30	53	26	0
Female	92	1	1	0	0	0	2	3	9	23	26	27	0
Other Malignant Neoplasms	1,506	0	0	10	7	12	39	116	355	387	358	222	0
Male	943	0	0	4	4	6	22	77	239	260	212	119	0
Female	563	0	0	6	3	6	17	39	116	127	146	103	0
Diabetes mellitus	864	0	0	0	0	13	28	51	144	232	213	183	0
Male	476	0	0	0	0	7	16	29	93	126	116	89	0
Female	388	0	0	0	0	6	12	22	51	106	97	94	0
Alzheimer's Disease	886	0	0	0	0	0	0	2	10	35	259	580	0
Male	278	0	0	0	0	0	0	0	4	13	104	157	0
Female	608	0	0	0	0	0	0	2	6	22	155	423	0
Hypertensive Heart Disease	376	0	0	0	0	0	7	17	34	60	58	200	0
Male	156	0	0	0	0	0	3	11	22	36	27	57	0
Female	220	0	0	0	0	0	4	6	12	24	31	143	0
Ischemic Heart Disease	3,299	0	0	0	0	10	42	157	465	640	756	1,229	0
Male	1,977	0	0	0	0	8	31	111	340	451	462	574	0
Female	1,322	0	0	0	0	2	11	46	125	189	294	655	0
Other Heart Disease	1,961	0	1	0	3	19	26	76	154	258	441	983	0
Male	829	0	1	0	2	12	10	53	94	138	190	329	0
Female	1,132	0	0	0	1	7	16	23	60	120	251	654	0
Prim. Hypertension/ Hypertensive Renal Dis. & Sec. Hypertension	263	0	0	0	0	4	1	14	34	37	50	123	0
Male	117	0	0	0	0	3	1	9	21	21	22	40	0
Female	146	0	0	0	0	1	0	5	13	16	28	83	0

Table E22
Deaths from 39 Selected Causes
by Sex by Age-Group of Decedent
Kansas, 2017

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	102	53	2	4	3	4	3	6	12	9	3	3	0
Male	48	26	1	0	0	4	1	2	7	4	2	1	0
Female	54	27	1	4	3	0	2	4	5	5	1	2	0
Sudden Infant Death Syndrome	13	13	0	0	0	0	0	0	0	0	0	0	0
Male	10	10	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	459	16	5	3	10	18	27	33	53	65	71	158	0
Male	251	11	2	2	6	12	21	24	40	40	45	48	0
Female	208	5	3	1	4	6	6	9	13	25	26	110	0
All Other Diseases	5,505	9	5	14	20	54	83	228	578	816	1,356	2,342	0
Male	2,497	4	2	7	14	25	42	138	326	461	665	813	0
Female	3,008	5	3	7	6	29	41	90	252	355	691	1,529	0
Motor Vehicle Accidents	447	0	6	12	77	74	62	54	67	34	41	20	0
Male	317	0	6	8	55	52	46	46	46	24	21	13	0
Female	130	0	0	4	22	22	16	8	21	10	20	7	0
All Other Accidents and Adverse Effects	1,126	14	8	9	40	72	95	108	132	125	163	360	0
Male	596	9	5	3	31	51	62	57	82	79	82	135	0
Female	530	5	3	6	9	21	33	51	50	46	81	225	0
Suicide	544	0	0	6	93	101	91	91	75	48	23	16	0
Male	426	0	0	5	68	78	73	68	61	41	19	13	0
Female	118	0	0	1	25	23	18	23	14	7	4	3	0
Homicide	179	2	6	0	47	46	26	21	23	5	1	2	0
Male	141	2	2	0	38	37	19	18	18	4	1	2	0
Female	38	0	4	0	9	9	7	3	5	1	0	0	0
All Other External Causes	36	1	3	0	3	10	1	9	6	2	0	1	0
Male	20	1	2	0	2	6	1	4	2	1	0	1	0
Female	16	0	1	0	1	4	0	5	4	1	0	0	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† and Age-Adjusted Rate‡
Kansas, 2013-2017

County of Residence	Year															5-Year	
	2013			2014			2015			2016			2017			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	Number	Crude Rate	Age Adj. Rate		
Kansas	25,347	875.9	755.6	25,731	886.0	757.4	26,611	914.0	772.5	26,129	898.7	753.5	26,725	917.4	761.3	898.4	760.1
Allen	199	1,516.3	1,032.1	179	1,386.6	909.4	174	1,368.2	877.7	155	1,219.1	801.5	164	1,310.0	855.7	1,361.3	897.5
Anderson	93	1,177.7	775.6	79	1,002.2	665.7	95	1,216.7	766.0	111	1,418.2	844.4	115	1,468.1	918.3	1,256.1	796.7
Atchison	170	1,015.0	808.9	183	1,108.2	870.4	197	1,201.4	936.3	191	1,166.1	936.3	161	985.8	759.5	1,095.0	862.4
Barber	61	1,233.1	887.6	66	1,347.8	870.7	70	1,451.4	929.2	51	1,087.9	674.6	70	1,526.4	1,007.5	1,328.3	874.5
Barton	261	948.8	696.7	287	1,048.0	743.6	298	1,099.5	788.5	294	1,098.0	772.4	293	1,106.7	742.0	1,059.5	748.4
Bourbon	196	1,319.7	945.8	192	1,299.8	910.6	210	1,427.4	987.9	190	1,299.9	877.0	218	1,477.6	1,031.1	1,364.9	951.1
Brown	136	1,360.4	926.9	117	1,192.1	808.4	97	992.2	663.5	111	1,146.2	770.5	139	1,441.8	966.4	1,226.7	826.3
Butler	634	963.5	846.8	606	915.0	796.1	642	961.9	833.4	639	953.4	818.5	635	949.5	817.5	948.7	823.0
Chase	34	1,259.3	794.6	41	1,523.0	981.5	28	1,045.2	602.8	44	1,648.6	944.6	29	1,080.9	626.0	1,311.2	788.2
Chautauqua	60	1,689.2	906.0	49	1,407.6	817.8	55	1,616.7	945.0	59	1,748.7	1,102.6	50	1,486.8	804.9	1,589.8	909.7
Cherokee	247	1,177.4	905.3	269	1,294.1	1,013.3	244	1,188.3	900.3	248	1,224.9	919.5	274	1,362.2	998.6	1,248.8	946.7
Cheyenne	31	1,150.7	550.9	33	1,225.4	583.1	37	1,381.1	633.9	37	1,390.5	607.6	31	1,155.4	579.2	1,260.3	587.2
Clark	29	1,322.4	681.1	38	1,772.4	1,005.9	37	1,765.3	987.6	29	1,399.6	886.9	31	1,546.9	1,008.6	1,560.6	909.9
Clay	115	1,368.1	769.4	110	1,322.6	781.0	112	1,341.8	780.1	103	1,264.9	744.3	85	1,068.1	583.9	1,275.2	733.5
Cloud	121	1,302.2	774.8	133	1,417.2	852.6	150	1,627.1	920.0	145	1,584.7	897.0	132	1,468.1	878.3	1,479.2	864.5
Coffey	109	1,295.8	870.4	78	924.9	652.6	105	1,252.4	845.4	96	1,138.4	743.5	93	1,130.8	762.9	1,148.4	774.2
Comanche	34	1,739.1	1,012.3	39	1,995.9	1,285.8	36	1,953.3	1,194.4	28	1,503.8	941.6	29	1,620.1	977.0	1,765.2	1,075.2
Cowley	440	1,215.3	945.0	434	1,206.8	894.1	464	1,296.5	956.1	434	1,213.9	907.7	405	1,145.3	858.9	1,215.7	912.9
Crawford	383	975.1	819.2	422	1,074.1	898.5	437	1,114.3	916.4	427	1,090.3	920.3	421	1,078.5	912.4	1,066.4	893.7
Decatur	39	1,331.1	563.6	37	1,272.4	502.3	41	1,398.4	577.9	46	1,624.3	723.3	49	1,698.4	804.0	1,463.4	632.1
Dickinson	224	1,142.3	766.4	219	1,129.2	736.2	259	1,341.8	863.6	241	1,264.2	798.0	235	1,243.3	789.1	1,223.6	791.0
Doniphan	77	980.8	683.9	76	965.2	724.0	87	1,115.8	758.2	78	1,017.7	713.1	101	1,307.1	896.9	1,076.8	757.1
Douglas	650	568.6	664.9	699	599.6	689.6	723	612.4	692.6	650	544.2	619.6	792	655.7	728.3	596.2	678.5
Edwards	30	1,018.7	640.6	40	1,320.1	928.1	37	1,246.6	780.8	28	953.0	631.7	34	1,175.3	738.3	1,143.9	742.6
Elk	45	1,694.9	954.1	37	1,373.4	725.9	45	1,727.4	916.7	38	1,492.0	911.5	46	1,841.5	975.9	1,623.2	883.9
Ellis	246	846.5	687.1	237	816.9	680.6	259	892.2	734.2	258	892.9	774.2	254	885.4	759.7	866.7	725.9
Ellsworth	89	1,391.1	848.8	73	1,142.1	670.8	102	1,608.1	1,038.9	86	1,359.0	859.9	97	1,532.4	951.8	1,406.1	872.5
Finney	217	584.9	752.0	199	535.2	651.5	229	617.0	731.6	210	571.9	667.3	218	587.9	666.5	579.4	692.0
Ford	244	700.8	769.3	229	658.1	702.8	241	697.8	710.5	241	709.4	742.5	259	753.3	775.1	703.8	739.9
Franklin	256	994.6	849.0	256	999.6	843.9	267	1,042.6	855.4	296	1,158.1	953.7	269	1,045.4	849.3	1,047.9	870.3
Geary	199	532.3	830.2	189	514.8	779.0	218	588.7	900.1	230	646.3	936.8	205	605.5	893.2	576.5	867.2
Gove	50	1,805.7	985.9	40	1,466.8	805.9	37	1,401.5	768.7	38	1,467.7	787.2	29	1,102.2	544.1	1,452.5	782.9
Graham	20	771.3	382.3	35	1,364.0	643.4	35	1,350.8	693.1	32	1,248.0	664.9	47	1,883.8	968.4	1,319.4	669.5
Grant	40	503.1	565.6	54	690.9	795.3	53	685.4	726.5	51	667.0	719.1	62	823.8	816.2	672.3	724.6
Gray	44	732.2	641.0	47	772.8	703.3	55	896.8	781.9	68	1,126.9	942.1	39	654.6	529.9	837.3	721.9
Greeley	16	1,240.3	865.3	16	1,229.8	938.0	25	1,879.7	1,063.2	15	1,157.4	710.1	15	1,201.0	575.0	1,345.5	813.1
Greenwood	97	1,510.0	902.7	96	1,517.1	866.9	104	1,665.6	947.8	109	1,772.1	1,047.9	116	1,894.5	1,150.3	1,669.3	984.4
Hamilton	26	996.6	946.0	23	883.6	971.0	31	1,253.0	1,297.7	19	749.2	822.6	25	947.0	958.4	964.1	990.9
Harper	76	1,296.9	770.7	80	1,375.0	883.4	103	1,770.7	1,059.1	83	1,460.0	886.4	90	1,610.0	977.5	1,501.6	912.0
Harvey	399	1,148.5	759.7	415	1,191.8	800.1	399	1,137.6	732.5	408	1,168.6	753.1	396	1,146.4	744.1	1,158.6	758.0
Haskell	31	748.6	763.9	26	633.2	618.4	30	738.2	723.9	29	723.9	742.9	30	740.2	652.6	716.7	693.6
Hodgeman	20	1,025.6	568.5	20	1,043.8	530.1	22	1,162.2	808.5	22	1,176.5	594.7	21	1,140.1	648.9	1,108.6	627.7
Jackson	125	935.2	710.6	123	908.5	682.7	158	1,184.6	883.9	129	970.6	767.5	162	1,216.4	928.8	1,042.6	794.0
Jefferson	169	898.3	712.8	185	981.2	732.1	201	1,061.8	797.9	178	941.9	692.8	213	1,121.2	840.0	1,001.1	754.9
Jewell	43	1,411.7	715.8	45	1,478.8	642.2	36	1,212.1	636.0	35	1,206.5	565.0	31	1,087.7	482.7	1,282.9	612.2
Johnson	3,714	655.1	629.3	3,649	635.4	599.0	3,858	665.0	620.4	3,735	639.1	586.0	3,980	673.2	618.5	653.6	610.4
Kearny	50	1,274.5	1,089.1	31	791.8	649.2	35	884.7	789.9	35	893.5	803.0	25	631.3	531.9	894.7	773.8
Kingman	99	1,262.1	725.3	104	1,351.0	778.9	95	1,235.9	785.6	102	1,366.0	806.9	91	1,236.4	699.4	1,290.2	760.7
Kiowa	30	1,189.1	750.5	32	1,273.4	747.4	17	663.0	404.2	20	805.5	487.0	26	1,046.3	700.3	994.6	615.0
Labette	260	1,243.1	908.9	273	1,302.5	930.2	254	1,221.0	866.6	285	1,394.1	979.1	258	1,280.7	903.3	1,287.9	918.2
Lane	17	988.4	553.3	24	1,422.6	771.6	30	1,796.4	1,068.1	32	1,956.0	1,112.6	30	1,924.3	1,010.7	1,607.8	901.3
Leavenworth	564	721.4	733.7	556	705.6	701.3	612	771.6	753.9	655	816.7	785.9	609	751.0	718.6	753.5	739.5
Lincoln	31	985.1	499.0	36	1,136.7	575.7	37	1,191.6	741.8	37	1,204.0	709.1	32	1,051.6	529.8	1,113.6	607.6
Linn	114	1,198.0	880.9	105	1,105.0	752.1	104	1,090.6	772.6	119	1,245.0	844.4	107	1,100.1	761.7	1,147.6	801.6
Logan	41	1,465.3	816.8	50	1,789.5	971.2	34	1,203.5	662.1	22	777.1	420.4	36	1,276.1	689.6	1,300.7	716.2

Table E23
Deaths by County of Residence and Peer Group*
by Number, Crude† and Age-Adjusted Rate‡
Kansas, 2013-2017

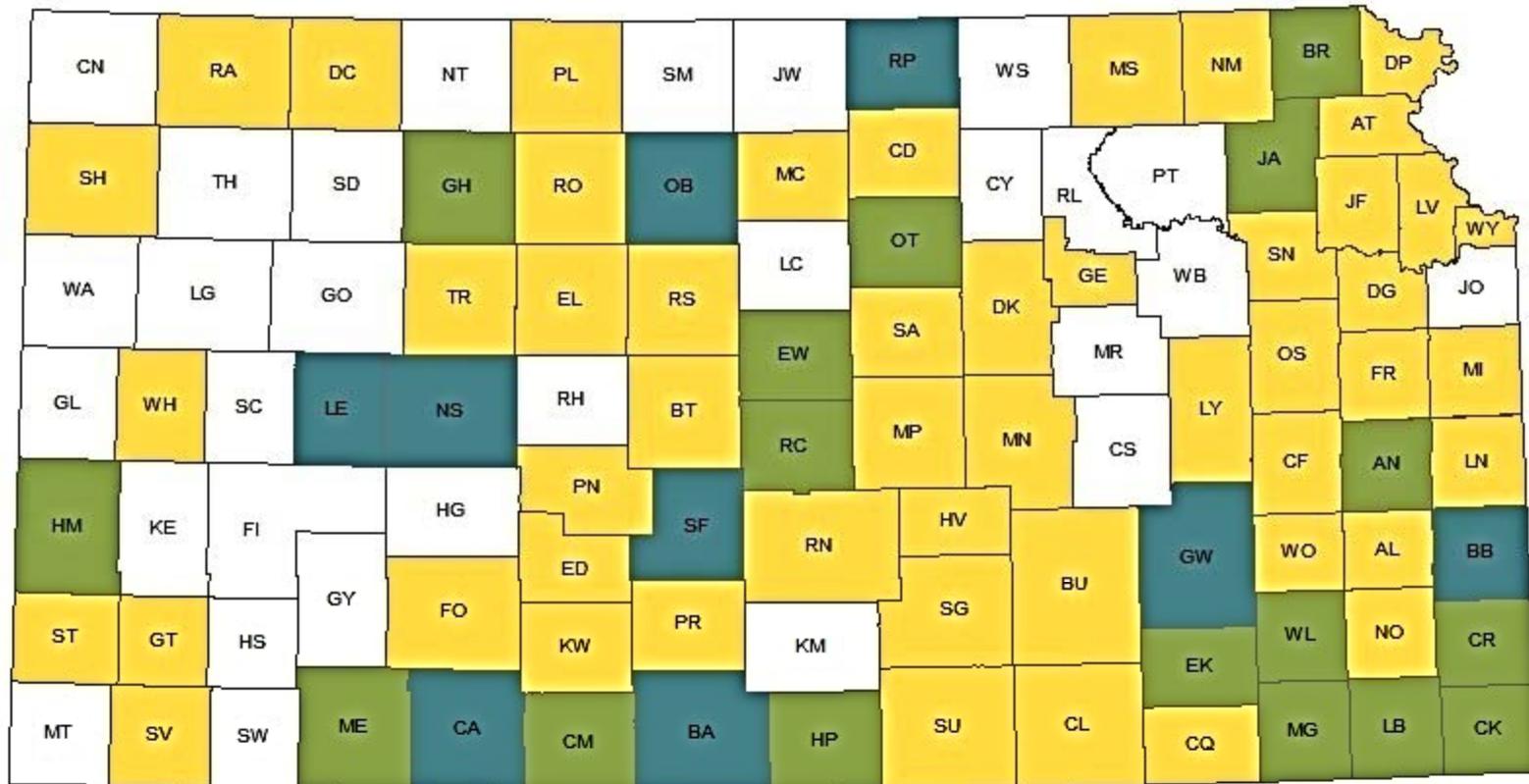
County of Residence	Year															5-Year	
	2013			2014			2015			2016			2017			Crude Rate	Age Adj. Rate
	Number	Crude Rate	Age Adj. Rate	Number	Crude Rate	Age Adj. Rate	Number	Crude Rate	Age Adj. Rate	Number	Crude Rate	Age Adj. Rate	Number	Crude Rate	Age Adj. Rate		
Lyon	295	880.3	803.1	273	822.0	731.0	300	899.8	789.6	252	752.0	646.9	300	898.4	758.2	850.5	746.1
McPherson	380	1,285.1	784.3	411	1,405.6	821.2	380	1,313.0	787.3	351	1,218.6	729.9	389	1,355.0	848.6	1,315.5	794.3
Marion	166	1,358.5	757.5	169	1,384.3	767.4	184	1,520.3	811.9	166	1,370.5	769.1	161	1,343.2	764.4	1,395.4	774.9
Marshall	121	1,209.8	651.8	129	1,289.2	784.3	120	1,207.7	636.0	128	1,301.3	705.9	139	1,426.4	825.0	1,286.2	720.9
Meade	55	1,266.4	757.6	42	964.0	669.3	48	1,108.5	709.3	52	1,233.4	856.8	60	1,394.4	912.8	1,192.6	780.0
Miami	253	770.5	657.1	309	941.4	781.1	321	986.1	815.3	303	919.2	755.9	335	1,001.2	776.1	923.9	757.4
Mitchell	96	1,505.2	935.7	73	1,161.7	631.1	83	1,321.2	693.1	67	1,073.2	546.1	94	1,533.9	852.2	1,318.9	731.7
Montgomery	400	1,166.5	824.1	424	1,244.7	910.5	458	1,374.8	974.5	459	1,401.7	994.2	459	1,409.9	966.7	1,317.0	933.2
Morris	68	1,184.5	608.2	69	1,211.0	672.7	89	1,576.6	852.5	81	1,453.4	717.3	75	1,374.9	685.0	1,358.9	708.5
Morton	42	1,336.3	952.5	37	1,189.7	875.8	40	1,330.2	931.5	31	1,088.5	738.4	32	1,167.9	664.5	1,225.8	838.7
Nemaha	134	1,318.8	728.1	130	1,281.0	714.7	117	1,144.0	578.7	120	1,171.8	676.9	138	1,363.9	777.6	1,255.5	695.4
Neosho	197	1,199.0	840.2	215	1,309.7	915.5	190	1,162.4	803.6	202	1,251.1	826.5	194	1,211.4	810.3	1,226.8	839.6
Ness	48	1,562.0	918.0	51	1,642.5	798.1	47	1,564.1	802.7	43	1,451.7	721.3	58	2,021.6	1,081.2	1,645.1	858.7
Norton	61	1,085.0	737.0	63	1,133.1	699.8	62	1,117.1	649.1	81	1,474.6	947.3	59	1,084.4	678.2	1,178.3	741.0
Osage	189	1,170.9	865.3	196	1,229.9	890.3	226	1,426.1	999.0	187	1,180.3	844.4	191	1,211.0	854.2	1,243.4	889.5
Osborne	65	1,702.5	857.3	62	1,650.7	919.9	79	2,145.0	1,082.9	66	1,812.2	916.1	63	1,745.2	1,019.1	1,809.9	956.0
Ottawa	70	1,158.6	877.1	60	989.3	728.0	77	1,288.7	896.8	85	1,435.8	1,028.9	81	1,381.5	978.7	1,249.0	901.6
Pawnee	72	1,032.9	686.2	94	1,359.2	924.3	77	1,126.1	773.9	81	1,201.2	757.4	95	1,422.2	868.9	1,227.0	802.0
Phillips	74	1,335.7	918.4	75	1,355.5	824.3	70	1,289.6	723.8	64	1,179.1	672.6	74	1,378.0	777.3	1,307.7	783.7
Pottawatomie	176	775.6	737.0	199	869.1	817.5	194	832.7	791.1	164	693.1	641.4	178	744.5	679.7	782.3	732.2
Pratt	135	1,366.7	922.9	110	1,116.8	724.3	119	1,227.9	821.5	126	1,314.7	887.2	105	1,099.8	712.1	1,225.5	812.0
Rawlins	50	1,931.2	889.4	37	1,431.9	577.1	43	1,715.9	887.3	41	1,608.5	701.8	37	1,481.8	799.5	1,634.6	771.2
Reno	772	1,202.7	822.9	762	1,194.5	829.1	743	1,166.1	807.3	722	1,142.0	786.1	769	1,230.2	828.7	1,187.0	814.8
Republic	88	1,825.7	883.3	96	1,998.8	1,035.4	88	1,862.4	832.1	81	1,723.8	772.1	96	2,046.5	1,066.8	1,891.5	917.6
Rice	129	1,288.6	918.9	130	1,298.1	954.5	122	1,222.8	890.0	114	1,159.6	844.6	131	1,356.1	919.7	1,264.8	904.8
Riley	313	415.2	609.6	324	430.9	610.9	339	450.5	622.4	378	515.4	701.7	370	498.8	652.6	461.8	639.8
Rooks	62	1,194.6	699.8	73	1,416.1	916.2	63	1,217.6	785.3	66	1,300.2	740.3	67	1,328.6	800.1	1,291.1	788.5
Rush	45	1,412.4	696.8	50	1,564.0	768.1	55	1,757.2	887.0	65	2,125.6	1,124.3	39	1,256.8	581.0	1,620.5	806.9
Russell	84	1,211.6	616.0	90	1,293.8	708.7	85	1,207.6	709.4	81	1,159.1	653.8	95	1,373.8	792.3	1,248.9	696.1
Saline	544	976.0	778.4	530	950.6	743.2	536	962.5	739.0	518	939.4	727.9	612	1,118.1	823.7	988.9	762.0
Scott	47	933.5	682.9	45	885.8	615.8	40	805.8	547.5	55	1,093.0	721.5	51	1,028.0	697.5	949.3	652.0
Sedgwick	4,111	813.4	789.1	4,299	844.9	806.8	4,421	864.2	819.0	4,513	881.5	825.8	4,439	864.1	793.8	853.7	807.0
Seward	121	517.3	665.4	143	609.4	785.9	128	552.9	677.0	136	598.9	735.3	114	514.5	634.8	558.9	700.3
Shawnee	1,714	958.4	766.3	1,865	1,045.4	819.7	1,879	1,051.3	823.1	1,870	1,049.7	807.0	1,880	1,055.1	808.1	1,031.9	804.7
Sheridan	23	900.9	579.5	37	1,457.3	919.7	32	1,273.9	612.8	30	1,195.7	575.5	23	910.2	519.8	1,147.2	645.1
Sherman	88	1,439.1	1,011.3	64	1,047.5	678.8	83	1,387.3	931.6	66	1,106.5	779.3	65	1,096.1	754.5	1,215.8	832.4
Smith	68	1,834.9	862.9	76	2,016.4	916.2	52	1,403.9	716.8	70	1,927.3	851.5	56	1,526.7	655.3	1,742.5	800.4
Stafford	54	1,238.8	772.5	60	1,396.3	831.4	66	1,558.1	924.8	40	950.6	609.1	68	1,616.4	1,034.2	1,351.7	833.4
Stanton	12	546.9	407.5	25	1,184.3	809.9	17	820.5	543.6	22	1,066.9	743.9	21	1,019.4	766.9	923.9	656.4
Stevens	45	773.7	658.9	58	999.8	848.1	53	912.8	780.6	45	805.9	695.4	52	926.6	729.5	884.0	742.7
Sumner	257	1,089.4	808.0	251	1,066.8	781.1	264	1,121.7	831.3	246	1,057.1	766.3	268	1,157.2	806.5	1,098.3	799.6
Thomas	81	1,019.1	721.0	75	950.4	724.7	87	1,100.7	821.4	69	874.3	624.3	67	860.3	609.4	961.4	700.5
Trego	40	1,342.3	670.2	52	1,791.9	997.2	50	1,708.2	888.1	55	1,915.0	989.3	42	1,456.3	835.5	1,640.9	867.6
Wabaunsee	73	1,035.3	773.8	58	826.0	630.2	68	978.3	746.8	68	986.8	720.6	50	727.4	512.6	911.2	674.0
Wallace	19	1,211.0	803.9	21	1,394.4	694.6	22	1,449.3	625.3	16	1,068.8	487.0	13	853.0	517.7	1,195.2	626.2
Washington	73	1,296.9	734.1	60	1,071.8	543.2	79	1,411.2	737.3	75	1,352.3	720.8	70	1,276.2	629.9	1,281.6	672.6
Wichita	29	1,323.0	824.0	23	1,057.0	734.7	25	1,159.0	691.4	22	1,041.7	668.5	23	1,082.4	705.8	1,133.6	721.3
Wilson	131	1,438.8	987.8	127	1,406.7	960.3	116	1,309.8	905.4	102	1,169.3	769.3	117	1,348.7	946.1	1,336.0	914.0
Woodson	65	2,018.0	1,177.8	45	1,425.4	794.5	53	1,701.4	975.5	52	1,643.0	976.2	42	1,334.6	711.4	1,626.1	929.3
Wyandotte	1,367	852.3	907.9	1,352	836.4	896.5	1,358	831.2	886.0	1,348	822.8	875.4	1,362	824.0	850.4	833.3	882.5
n.s.	0	n/a	n/a	1	n/a	n/a	2	n/a	n/a	2	n/a	n/a	2	n/a	n/a	n/a	n/a
Peer Group																	
Frontier	1,504	1,338.4	777.2	1,538	1,376.6	782.7	1,551	1,407.0	806.6	1,461	1,344.1	775.8	1,469	1,358.0	788.3	1,364.8	788.7
Rural	2,880	1,221.1	786.9	2,762	1,176.0	789.0	2,890	1,237.9	786.6	2,845	1,229.0	775.5	2,872	1,252.3	786.4	1,223.1	779.7
Densely - Settled Rural	4,690	984.7	800.6	4,773	1,005.6	796.3	4,957	1,049.0	828.7	4,670	994.9	783.4	4,849	1,036.3	809.7	1,014.0	805.5
Semi-Urban	4,153	892.4	779.8	4,237	912.6	774.5	4,360	939.3	804.0	4,380	952.9	808.9	4,471	977.3	812.5	934.7	799.4
Urban	12,120	755.6	729.7	12,420	767.4	714.4	12,851	787.8	741.9	12,771	779.6	725.1	13,062	791.5	727.7	776.5	730.7

* 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, 2017



Deaths per 100,000 Population, Age Adjusted

State Rate: 761.3

Legend

Under 700

700 - 899

900 - 999

1000 and over

Figure E7

Table E24
Deaths by County of Residence and Peer Group*
by Age-Group and Average Age at Death
Kansas, 2017

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	26,725	217	42	64	313	476	653	1,375	3,443	4,780	6,296	9,065	1	74.2
Allen	164	0	0	0	1	2	7	2	19	36	41	56	0	76.6
Anderson	115	1	0	0	1	0	4	4	11	20	33	41	0	76.5
Atchison	161	0	1	1	1	1	4	10	21	36	34	52	0	74.2
Barber	70	2	0	0	1	1	2	1	9	10	20	24	0	74.1
Barton	293	0	0	0	3	3	8	17	33	44	65	120	0	76.8
Bourbon	218	2	2	0	2	2	3	13	23	36	61	74	0	74.9
Brown	139	4	0	0	0	3	2	6	15	30	28	51	0	75.4
Butler	635	6	0	3	11	6	15	33	80	132	147	202	0	73.9
Chase	29	0	0	0	0	2	0	1	4	2	7	13	0	78.0
Chautauqua	50	0	0	0	1	0	0	4	6	9	12	18	0	75.8
Cherokee	274	0	0	0	6	3	6	14	43	58	74	70	0	73.3
Cheyenne	31	0	0	0	0	0	0	3	3	2	8	15	0	79.9
Clark	31	0	0	0	0	1	2	3	4	4	4	13	0	73.7
Clay	85	0	0	0	0	1	2	3	9	14	15	41	0	78.9
Cloud	132	3	0	0	0	1	3	5	14	20	29	57	0	76.3
Coffey	93	0	1	0	0	3	1	3	8	17	26	34	0	76.2
Comanche	29	0	0	0	1	1	0	0	5	5	11	6	0	73.3
Cowley	405	5	2	2	3	13	10	20	46	94	88	122	0	72.2
Crawford	421	4	0	0	3	1	9	28	56	74	120	126	0	74.4
Decatur	49	0	0	2	0	0	0	2	5	6	14	20	0	77.1
Dickinson	235	3	0	0	2	2	2	9	25	38	61	93	0	76.7
Doniphan	101	1	0	0	0	0	0	4	8	21	32	35	0	78.4
Douglas	792	11	1	0	6	19	17	47	96	140	167	288	0	74.6
Edwards	34	0	0	0	0	0	0	2	1	8	10	13	0	78.7
Elk	46	0	0	0	0	1	0	3	8	11	13	10	0	73.8
Ellis	254	1	1	2	3	3	9	13	19	35	69	99	0	76.0
Ellsworth	97	0	1	0	0	1	1	3	13	14	26	38	0	77.8
Finney	219	3	1	0	2	7	7	16	38	35	52	58	0	70.4
Ford	259	1	2	6	2	7	4	9	39	32	64	93	0	73.5
Franklin	269	1	1	0	2	1	2	13	34	51	68	96	0	76.4
Geary	205	5	0	1	7	8	14	17	18	43	45	47	0	66.8
Gove	29	0	0	0	1	0	1	0	0	3	9	15	0	80.7
Graham	47	1	0	0	0	1	2	0	5	4	18	16	0	75.6
Grant	62	0	2	0	1	1	0	6	9	13	16	14	0	70.3
Gray	39	0	0	0	1	2	0	0	6	4	11	15	0	76.0
Greeley	15	0	0	0	1	0	0	0	1	0	3	10	0	81.9
Greenwood	116	1	0	0	1	0	6	7	16	21	28	36	0	74.0
Hamilton	24	1	0	0	1	0	1	0	2	3	6	10	0	73.0
Harper	90	1	0	0	4	0	2	1	7	22	23	30	0	74.3
Harvey	396	3	1	1	5	10	5	15	35	70	85	166	0	76.6
Haskell	30	1	0	0	1	0	0	2	5	6	6	9	0	70.9
Hodgeman	21	0	0	0	1	1	0	0	2	1	9	7	0	75.0
Jackson	162	1	0	1	2	2	1	6	22	24	49	54	0	75.6
Jefferson	213	2	0	0	3	4	2	14	22	45	54	67	0	74.2
Jewell	31	0	0	0	1	0	0	0	3	9	8	10	0	77.5
Johnson	3,980	25	5	7	51	60	83	193	403	623	930	1,600	0	76.4
Kearny	25	0	0	1	0	1	0	0	1	6	7	9	0	77.2
Kingman	91	1	0	0	0	1	1	1	8	13	34	32	0	78.9
Kiowa	26	0	0	0	1	0	1	1	2	4	10	7	0	74.4
Labette	259	1	0	1	2	2	6	18	39	53	62	75	0	73.7
Lane	30	0	0	0	0	0	0	1	5	5	5	14	0	78.9
Leavenworth	609	11	0	0	5	5	12	37	75	124	173	167	0	73.4
Lincoln	32	0	0	0	0	0	0	2	6	7	4	13	0	76.6
Linn	107	0	0	0	1	4	3	8	21	18	27	25	0	71.7
Logan	37	0	0	0	0	0	0	0	5	2	13	17	0	82.1

Table E24
Deaths by County of Residence and Peer Group*
by Age-Group and Average Age at Death
Kansas, 2017

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	300	2	0	1	2	4	7	8	42	63	71	100	0	74.9
McPherson	389	1	0	1	8	7	4	10	37	69	88	164	0	77.1
Marion	161	0	0	0	0	2	2	7	24	35	38	53	0	76.0
Marshall	139	1	0	0	0	1	3	5	14	22	37	56	0	78.3
Meade	60	0	0	0	1	2	1	1	3	11	16	25	0	77.5
Miami	335	1	0	0	8	4	9	25	59	63	67	99	0	72.0
Mitchell	94	1	0	1	0	1	1	3	6	15	26	40	0	78.2
Montgomery	459	3	0	1	7	13	5	27	77	81	102	142	1	72.9
Morris	75	0	0	1	0	1	1	2	9	12	12	37	0	78.9
Morton	32	0	0	1	0	0	0	2	6	3	5	15	0	77.1
Nemaha	138	0	0	1	0	1	3	5	12	22	28	66	0	79.1
Neosho	194	1	0	0	2	3	5	5	18	29	58	73	0	77.3
Ness	58	1	0	0	2	1	1	2	2	8	13	28	0	76.2
Norton	59	0	0	0	1	1	2	5	8	4	15	23	0	75.2
Osage	191	3	0	0	5	2	3	11	30	33	45	59	0	72.8
Osborne	63	0	0	0	0	3	2	4	6	5	22	21	0	75.4
Ottawa	81	0	0	0	1	0	1	3	8	18	18	32	0	78.2
Pawnee	95	0	0	0	0	1	1	4	14	18	25	32	0	76.7
Phillips	74	0	0	0	0	1	2	2	5	12	16	36	0	79.9
Pottawatomie	178	2	0	0	4	3	3	9	16	40	37	64	0	74.3
Pratt	105	0	0	0	1	2	3	4	12	18	26	39	0	76.4
Rawlins	37	0	0	1	2	0	0	1	4	6	12	11	0	73.5
Reno	769	5	2	4	7	10	13	34	109	141	191	253	0	74.6
Republic	96	0	0	0	0	1	4	6	4	11	30	40	0	78.6
Rice	131	2	0	0	0	1	2	4	11	26	31	54	0	77.7
Riley	370	3	0	0	3	10	11	15	48	62	74	144	0	75.2
Rooks	67	0	0	0	0	0	3	4	10	12	8	30	0	76.4
Rush	39	0	0	0	0	0	0	2	8	4	6	19	0	79.0
Russell	95	0	1	0	0	0	3	7	10	17	22	35	0	75.6
Saline	612	7	1	1	3	14	8	37	86	116	130	209	0	73.8
Scott	51	0	0	0	0	2	2	1	7	11	9	19	0	76.0
Sedgwick	4,439	44	10	11	52	80	151	268	683	843	988	1,309	0	72.1
Seward	114	1	0	1	2	6	7	7	11	16	31	32	0	70.3
Shawnee	1,879	22	2	3	24	38	58	95	268	357	435	577	0	72.8
Sheridan	23	0	0	0	1	1	0	0	2	3	7	9	0	77.2
Sherman	65	0	0	0	2	0	2	2	7	13	16	23	0	76.0
Smith	56	0	0	0	0	0	0	2	7	2	20	25	0	81.3
Stafford	68	0	0	1	2	0	3	3	16	5	17	21	0	72.6
Stanton	21	0	0	0	0	1	0	1	0	5	7	7	0	78.1
Stevens	52	0	0	0	0	2	1	3	6	12	8	20	0	74.7
Sumner	268	1	1	0	1	6	3	8	36	51	60	101	0	76.4
Thomas	67	0	0	0	0	1	0	4	9	7	15	31	0	78.9
Trego	42	0	0	0	0	0	1	1	3	4	23	10	0	78.8
Wabaunsee	50	0	0	0	1	0	1	2	7	15	11	13	0	73.4
Wallace	13	0	0	0	0	1	0	0	2	4	3	3	0	71.5
Washington	70	1	0	0	0	1	0	2	5	13	13	35	0	79.8
Wichita	23	0	0	0	0	1	0	1	2	3	7	9	0	79.0
Wilson	117	0	0	1	3	5	3	5	13	22	31	34	0	71.6
Woodson	42	0	0	0	0	0	0	1	5	8	13	15	0	78.9
Wyandotte	1,362	13	4	6	27	55	58	95	242	253	279	330	0	68.5
n.s.	1	0	0	0	0	0	0	0	1	0	0	0	0	n/a
Peer Group														
Frontier	1,469	6	0	6	20	19	28	56	171	210	401	552	0	76.4
Rural	2,872	16	5	4	16	41	54	117	315	509	698	1,097	0	76.6
Densely -Settled Rural	4,851	31	10	16	56	82	101	223	587	888	1,196	1,661	0	74.7
Semi-Urban	4,471	38	5	11	56	77	91	244	602	833	1,029	1,484	1	74.0
Urban	13,061	126	22	27	165	257	379	735	1,767	2,340	2,972	4,271	0	73.3

* See Technical Notes for Peer Group definition.

Table E25
Deaths by County of Residence and Peer Group*
by Population Group
Kansas, 2017

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	26,725	23,557	1,421	194	232	340	918	63	
Allen	164	159	4	0	0	1	0	0	
Anderson	115	112	3	0	0	0	0	0	
Atchison	161	147	10	1	1	1	1	0	
Barber	70	67	0	0	1	0	2	0	
Barton	293	279	2	0	0	1	11	0	
Bourbon	218	212	3	1	0	1	1	0	
Brown	139	124	1	12	1	0	1	0	
Butler	635	597	3	5	2	20	8	0	
Chase	29	27	0	0	0	2	0	0	
Chautauqua	50	49	0	1	0	0	0	0	
Cherokee	274	268	2	1	1	1	1	0	
Cheyenne	31	31	0	0	0	0	0	0	
Clark	31	31	0	0	0	0	0	0	
Clay	85	83	0	0	1	0	1	0	
Cloud	132	129	0	0	0	0	3	0	
Coffey	93	92	0	0	0	0	1	0	
Comanche	29	27	0	0	0	0	2	0	
Cowley	405	360	8	8	4	15	10	0	
Crawford	421	404	6	2	0	7	2	0	
Decatur	49	47	0	0	0	0	2	0	
Dickinson	235	228	3	1	0	1	2	0	
Doniphan	101	97	0	4	0	0	0	0	
Douglas	792	723	25	17	10	4	12	1	
Edwards	34	33	0	0	0	0	1	0	
Elk	46	46	0	0	0	0	0	0	
Ellis	254	249	2	1	0	0	2	0	
Ellsworth	97	91	1	0	0	2	3	0	
Finney	219	156	3	1	7	4	48	0	
Ford	259	207	4	0	1	1	46	0	
Franklin	269	259	3	4	0	2	1	0	
Geary	205	142	25	3	15	3	17	0	
Gove	29	28	0	1	0	0	0	0	
Graham	47	40	6	0	0	1	0	0	
Grant	62	47	0	0	0	0	15	0	
Gray	39	39	0	0	0	0	0	0	
Greeley	15	15	0	0	0	0	0	0	
Greenwood	116	108	1	1	0	2	4	0	
Hamilton	24	20	0	1	0	0	3	0	
Harper	90	87	0	1	0	1	1	0	
Harvey	396	369	9	0	0	4	14	0	
Haskell	30	27	0	0	0	0	3	0	
Hodgeman	21	21	0	0	0	0	0	0	
Jackson	162	143	0	14	0	2	3	0	
Jefferson	213	207	1	1	0	1	3	0	
Jewell	31	31	0	0	0	0	0	0	
Johnson	3,980	3,626	140	8	57	57	88	4	
Kearny	25	23	0	0	0	0	2	0	
Kingman	91	90	0	0	0	0	1	0	
Kiowa	26	25	0	0	1	0	0	0	
Labette	259	236	13	1	2	2	5	0	
Lane	30	30	0	0	0	0	0	0	
Leavenworth	609	528	51	5	8	7	9	1	
Lincoln	32	31	0	0	0	0	1	0	
Linn	107	104	0	1	0	0	2	0	
Logan	37	36	0	0	0	0	1	0	

Table E25
Deaths by County of Residence and Peer Group*
by Population Group
Kansas, 2017

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	300	268	5	1	3	6	17	0	
McPherson	389	379	3	3	0	1	3	0	
Marion	161	159	0	0	0	2	0	0	
Marshall	139	136	1	0	0	2	0	0	
Meade	60	55	0	0	0	2	3	0	
Miami	335	318	8	3	0	3	2	1	
Mitchell	94	88	0	1	0	4	1	0	
Montgomery	459	418	25	6	2	1	7	0	
Morris	75	74	0	0	0	0	1	0	
Morton	32	27	0	0	0	0	5	0	
Nemaha	138	136	1	0	1	0	0	0	
Neosho	194	191	1	0	0	0	2	0	
Ness	58	57	0	0	0	1	0	0	
Norton	59	58	0	0	0	0	1	0	
Osage	191	178	2	2	0	6	3	0	
Osborne	63	63	0	0	0	0	0	0	
Ottawa	81	81	0	0	0	0	0	0	
Pawnee	95	88	4	0	0	0	3	0	
Phillips	74	74	0	0	0	0	0	0	
Pottawatomie	178	171	1	1	0	2	3	0	
Pratt	105	102	0	0	0	0	3	0	
Rawlins	37	37	0	0	0	0	0	0	
Reno	769	710	16	3	2	13	24	1	
Republic	96	95	0	0	0	0	1	0	
Rice	131	124	0	2	0	1	4	0	
Riley	370	328	10	1	8	11	11	1	
Rooks	67	66	0	1	0	0	0	0	
Rush	39	38	0	0	0	1	0	0	
Russell	95	93	1	0	0	0	1	0	
Saline	612	554	24	3	6	6	15	4	
Scott	51	46	0	1	0	2	2	0	
Sedgwick	4,439	3,627	420	32	69	63	194	34	
Seward	114	79	9	1	2	1	22	0	
Shawnee	1,879	1,535	170	25	14	30	93	12	
Sheridan	23	22	0	0	0	1	0	0	
Sherman	65	62	0	0	0	0	3	0	
Smith	56	56	0	0	0	0	0	0	
Stafford	68	63	0	0	0	2	3	0	
Stanton	21	20	0	0	0	0	1	0	
Stevens	52	47	1	0	0	1	3	0	
Sumner	268	254	0	4	0	5	5	0	
Thomas	67	64	0	1	0	1	1	0	
Trego	42	42	0	0	0	0	0	0	
Wabaunsee	50	47	1	0	0	1	0	1	
Wallace	13	13	0	0	0	0	0	0	
Washington	70	70	0	0	0	0	0	0	
Wichita	23	17	0	0	0	0	6	0	
Wilson	117	114	1	2	0	0	0	0	
Woodson	42	42	0	0	0	0	0	0	
Wyandotte	1,362	783	388	5	13	28	142	3	
n.s.	1	1	0	0	0	0	0	0	
Peer Group									
Frontier	1,469	1,404	7	5	2	12	39	0	
Rural	2,872	2,763	15	21	3	17	52	1	
Densely -Settled Rural	4,851	4,468	76	46	21	52	188	0	
Semi-Urban	4,471	4,099	129	30	35	70	101	7	
Urban	13,061	10,822	1,194	92	171	189	538	55	

* 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, 2017

County of Residence	Did Tobacco Use Contribute to this death?				Total Deaths	Yes + Probably as Percent of Known
	Yes	Probably	No	Unknown		
Kansas	2,993	1,722	13,946	8,064	26,725	25.3
Allen	14	13	86	51	164	23.9
Anderson	15	5	71	24	115	22.0
Atchison	26	14	79	42	161	33.6
Barber	4	2	39	25	70	13.3
Barton	40	14	156	83	293	25.7
Bourbon	25	19	139	35	218	24.0
Brown	28	9	66	36	139	35.9
Butler	55	38	271	271	635	25.5
Chase	3	1	19	6	29	17.4
Chautauqua	4	1	21	24	50	19.2
Cherokee	35	24	111	104	274	34.7
Cheyenne	5	1	17	8	31	26.1
Clark	4	3	20	4	31	25.9
Clay	13	3	43	26	85	27.1
Cloud	17	8	78	29	132	24.3
Coffey	8	6	61	18	93	18.7
Comanche	5	2	20	2	29	25.9
Cowley	58	21	207	119	405	27.6
Crawford	71	34	213	103	421	33.0
Decatur	11	5	25	8	49	39.0
Dickinson	30	12	151	42	235	21.8
Doniphan	15	7	60	19	101	26.8
Douglas	91	45	450	206	792	23.2
Edwards	11	5	11	7	34	59.3
Elk	5	10	16	15	46	48.4
Ellis	23	26	126	79	254	28.0
Ellsworth	20	3	58	16	97	28.4
Finney	12	15	129	63	219	17.3
Ford	26	21	145	67	259	24.5
Franklin	46	27	151	45	269	32.6
Geary	34	18	111	42	205	31.9
Gove	5	3	19	2	29	29.6
Graham	8	4	29	6	47	29.3
Grant	4	3	37	18	62	15.9
Gray	5	2	27	5	39	20.6
Greeley	2	5	8	0	15	46.7
Greenwood	6	8	58	44	116	19.4
Hamilton	2	2	17	3	24	19.0
Harper	6	2	33	49	90	19.5
Harvey	49	27	214	106	396	26.2
Haskell	1	4	17	8	30	22.7
Hodgeman	1	1	16	3	21	11.1
Jackson	12	8	78	64	162	20.4
Jefferson	27	8	86	92	213	28.9
Jewell	8	1	9	13	31	50.0
Johnson	311	200	2,230	1,239	3,980	18.6
Kearny	3	0	20	2	25	13.0
Kingman	9	4	61	17	91	17.6
Kiowa	6	2	11	7	26	42.1
Labette	37	13	137	72	259	26.7
Lane	1	2	18	9	30	14.3
Leavenworth	101	45	262	201	609	35.8
Lincoln	7	3	13	9	32	43.5
Linn	14	11	55	27	107	31.3
Logan	8	1	21	7	37	30.0

Table E26
Deaths by County of Residence and Peer Group *
by Number and Percent Related to Tobacco
Kansas, 2017

County of Residence	Did Tobacco Use Contribute to this death?				Total Deaths	Yes + Probably as Percent of Known
	Yes	Probably	No	Unknown		
Lyon	40	19	157	84	300	27.3
McPherson	35	21	260	73	389	17.7
Marion	19	9	84	49	161	25.0
Marshall	23	9	76	31	139	29.6
Meade	8	2	41	9	60	19.6
Miami	38	21	186	90	335	24.1
Mitchell	16	6	58	14	94	27.5
Montgomery	36	31	219	173	459	23.4
Morris	21	1	38	15	75	36.7
Morton	5	0	19	8	32	20.8
Nemaha	12	7	78	41	138	19.6
Neosho	27	9	118	40	194	23.4
Ness	7	2	35	14	58	20.5
Norton	8	2	35	14	59	22.2
Osage	19	14	94	64	191	26.0
Osborne	12	8	31	12	63	39.2
Ottawa	10	5	48	18	81	23.8
Pawnee	14	9	44	28	95	34.3
Phillips	7	4	46	17	74	19.3
Pottawatomie	30	11	88	49	178	31.8
Pratt	9	11	61	24	105	24.7
Rawlins	4	1	18	14	37	21.7
Reno	88	35	380	266	769	24.5
Republic	9	4	49	34	96	21.0
Rice	12	10	87	22	131	20.2
Riley	42	28	248	52	370	22.0
Rooks	8	4	32	23	67	27.3
Rush	4	2	19	14	39	24.0
Russell	12	4	54	25	95	22.9
Saline	95	56	360	101	612	29.5
Scott	3	2	20	26	51	20.0
Sedgwick	407	324	2,055	1,653	4,439	26.2
Seward	9	8	54	43	114	23.9
Shawnee	216	133	915	615	1,879	27.6
Sheridan	1	3	16	3	23	20.0
Sherman	14	3	41	7	65	29.3
Smith.	13	2	38	3	56	28.3
Stafford	3	7	24	34	68	29.4
Stanton	6	2	13	0	21	38.1
Stevens	8	3	31	10	52	26.2
Sumner	43	8	140	77	268	26.7
Thomas	7	2	38	20	67	19.1
Trego	8	0	33	1	42	19.5
Wabaunsee	9	4	15	22	50	46.4
Wallace	1	0	8	4	13	11.1
Washington	12	2	41	15	70	25.5
Wichita	1	3	12	7	23	25.0
Wilson	15	11	51	40	117	33.8
Woodson	2	2	22	16	42	15.4
Wyandotte	158	87	689	428	1,362	26.2
n.s.	0	0	1	0	1	n/a
Peer Group						
Frontier	204	101	807	357	1,469	27.4
Rural	368	167	1,583	754	2,872	25.3
Densely -Settled Rural	583	305	2,601	1,362	4,851	25.5
Semi-Urban	554	315	2,353	1,249	4,471	27.0
Urban	1,284	834	6,601	4,342	13,061	24.3

* See Technical Notes for Peer Group definition.

Table E27
Selected Causes of Death by County of Residence and Peer Group
Kansas, 2017

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	26,725	1	538	5,391	1,370	1,398	342	564	299
Allen	164	0	3	37	11	10	2	3	3
Anderson	115	0	4	17	7	5	1	1	1
Atchison	161	0	3	31	13	7	1	1	1
Barber	70	0	0	9	0	3	1	0	2
Barton	293	0	9	55	10	15	6	9	4
Bourbon	218	0	3	55	14	16	5	1	3
Brown	139	0	3	27	5	10	0	3	1
Butler	635	0	15	124	27	35	14	8	9
Chase	29	0	0	6	0	1	1	1	0
Chautauqua	50	0	1	7	3	2	0	0	1
Cherokee	274	0	4	49	14	18	1	3	3
Cheyenne	31	0	1	1	1	0	0	0	0
Clark	31	0	0	5	2	2	0	0	0
Clay	85	0	0	14	4	2	0	1	0
Cloud	132	0	2	23	8	9	1	2	0
Coffey	93	0	2	19	7	5	0	2	1
Comanche	29	0	0	4	2	0	0	1	0
Cowley	405	0	9	81	23	26	2	12	2
Crawford	421	0	11	98	31	35	4	5	3
Decatur	49	0	0	10	2	5	0	1	1
Dickinson	235	0	3	50	13	11	5	7	4
Doniphan	101	0	2	25	4	7	3	1	1
Douglas	792	0	10	151	36	31	10	15	4
Edwards	34	0	1	7	1	1	0	2	1
Elk	46	0	0	5	1	2	0	0	0
Ellis	254	0	4	41	16	9	1	1	3
Ellsworth	97	0	1	17	3	4	1	4	0
Finney	218	0	4	36	8	11	2	3	2
Ford	259	0	7	50	15	11	3	7	8
Franklin	269	0	5	60	11	20	4	5	0
Geary	205	0	4	37	10	12	1	2	1
Gove	29	0	0	3	0	1	0	1	0
Graham	47	0	1	8	0	2	1	0	0
Grant	62	0	1	16	8	2	2	2	1
Gray	39	0	0	6	1	3	0	0	0
Greeley	15	0	0	0	0	0	0	0	0
Greenwood	116	0	1	17	2	3	2	2	0
Hamilton	25	0	0	3	3	0	0	0	0
Harper	90	0	2	20	6	5	2	1	0
Harvey	396	0	8	77	18	18	6	8	2
Haskell	30	0	0	8	2	1	1	1	1
Hodgeman	21	0	1	5	0	1	1	0	1
Jackson	162	0	0	27	11	8	0	1	0
Jefferson	213	0	4	47	10	14	0	6	3
Jewell	31	0	0	8	1	4	0	0	0
Johnson	3,980	0	68	827	212	197	58	89	47
Kearny	25	0	0	4	1	0	1	1	0
Kingman	91	0	0	22	4	2	1	1	1
Kiowa	26	0	0	5	1	3	0	0	1
Labette	258	0	5	44	15	10	3	5	3
Lane	30	0	1	8	3	2	0	0	1
Leavenworth	609	0	8	132	35	44	3	13	4
Lincoln	32	0	1	7	1	5	0	1	0
Linn	107	0	3	27	12	4	2	3	0
Logan	36	0	1	5	1	3	0	0	0

Table E27
Selected Causes of Death by County of Residence and Peer Group
Kansas, 2017

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	300	0	6	63	23	13	2	6	2
McPherson	389	0	6	84	17	14	12	16	6
Marion	161	0	0	37	11	6	3	5	3
Marshall	139	0	2	25	3	8	2	2	3
Meade	60	0	0	10	2	3	1	1	0
Miami	335	0	6	64	15	24	6	2	7
Mitchell	94	0	1	15	3	3	1	2	1
Montgomery	459	0	6	86	23	24	4	8	5
Morris	75	0	3	12	2	4	1	1	2
Morton	32	0	0	7	1	4	0	0	1
Nemaha	138	0	0	29	8	7	1	2	4
Neosho	194	0	3	32	5	11	1	2	0
Ness	58	0	0	13	8	1	0	0	0
Norton	59	0	1	9	2	2	0	1	2
Osage	191	0	4	45	12	14	3	2	1
Osborne	63	0	0	13	3	6	0	0	0
Ottawa	81	0	3	14	2	3	3	0	3
Pawnee	95	0	1	25	5	5	0	5	2
Phillips	74	0	1	9	3	2	0	2	0
Pottawatomie	178	0	5	42	12	9	2	2	5
Pratt	105	0	0	15	5	4	2	2	0
Rawlins	37	0	0	5	1	2	1	0	0
Reno	769	0	22	159	44	41	8	20	11
Republic	96	0	2	16	3	4	2	2	0
Rice	131	0	3	21	5	5	0	4	3
Riley	370	0	9	80	15	23	10	6	5
Rooks	67	0	1	11	3	1	1	2	0
Rush	39	0	1	9	0	6	0	0	1
Russell	95	0	1	19	1	5	0	5	2
Saline	612	0	6	147	31	40	8	14	16
Scott	51	0	1	10	2	0	1	1	2
Sedgwick	4,439	1	134	910	234	232	56	113	45
Seward	114	0	3	23	8	2	1	2	2
Shawnee	1,880	0	38	364	95	94	27	39	17
Sheridan	23	0	0	5	1	0	1	0	1
Sherman	65	0	1	20	4	5	0	3	3
Smith	56	0	1	8	2	0	1	0	1
Stafford	68	0	3	11	2	4	0	1	0
Stanton	21	0	0	5	1	1	0	0	0
Stevens	52	0	1	12	3	1	0	2	0
Sumner	268	0	5	56	10	14	4	10	3
Thomas	67	0	2	12	2	3	0	3	0
Trego	42	0	0	11	3	4	0	1	0
Wabaunsee	50	0	0	10	2	5	0	0	0
Wallace	13	0	0	6	1	1	0	0	1
Washington	70	0	1	28	6	3	0	4	3
Wichita	23	0	0	3	1	2	0	0	0
Wilson	117	0	2	28	6	6	1	3	1
Woodson	42	0	2	4	2	1	0	1	0
Wyandotte	1,362	0	35	272	68	69	24	31	11
n.s.	2	0	0	0	0	0	0	0	0
Peer Group									
Frontier	1,469	0	16	264	58	80	12	18	16
Rural	2,872	0	45	566	143	129	28	68	37
Densely -Settled Rural	4,849	0	92	973	264	250	59	100	59
Semi-Urban	4,471	0	92	932	225	272	65	78	59
Urban	13,062	1	293	2,656	680	667	178	300	128

* 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, 2017

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	234	1,184	864	886	7,801	5,636	26	376	3,299	1,935
Allen	2	6	10	4	49	39	0	0	21	18
Anderson	0	2	4	8	43	30	0	3	14	13
Atchison	0	8	5	2	47	35	1	3	17	14
Barber	0	3	1	1	18	16	0	0	7	9
Barton	2	9	7	16	78	61	0	4	34	23
Bourbon	4	12	6	19	64	49	0	3	22	24
Brown	1	7	3	6	48	34	0	1	22	11
Butler	4	27	16	15	175	143	1	6	82	54
Chase	1	2	1	2	8	7	0	1	4	2
Chautauqua	0	1	2	5	17	15	0	1	13	1
Cherokee	3	7	6	10	99	70	0	5	44	21
Cheyenne	0	0	1	0	13	10	0	0	9	1
Clark	0	1	2	1	8	6	0	0	5	1
Clay	2	5	3	2	30	23	0	0	16	7
Cloud	1	2	7	2	35	25	1	2	15	7
Coffey	1	3	1	6	33	26	0	0	13	13
Comanche	0	1	3	1	7	4	0	0	3	1
Cowley	1	15	21	20	118	92	0	5	51	36
Crawford	5	15	11	19	110	87	1	4	55	27
Decatur	0	1	2	2	15	12	0	2	7	3
Dickinson	1	9	7	2	68	54	0	6	34	14
Doniphan	2	7	4	4	34	27	0	0	20	7
Douglas	15	40	28	38	250	169	1	19	93	56
Edwards	0	2	1	0	10	8	0	0	7	1
Elk	1	1	1	0	17	16	0	0	12	4
Ellis	1	10	5	11	76	57	1	3	31	22
Ellsworth	1	4	3	1	31	20	2	0	11	7
Finney	3	7	9	7	51	38	0	1	18	19
Ford	2	4	12	3	72	58	0	2	43	13
Franklin	4	16	8	7	101	67	1	2	39	25
Geary	2	9	8	8	63	47	0	2	32	13
Gove	0	1	1	4	8	6	0	1	2	3
Graham	2	3	0	0	13	10	0	0	8	2
Grant	0	1	3	0	18	13	0	0	6	7
Gray	0	2	0	1	13	8	0	0	6	2
Greeley	0	0	1	1	2	2	0	1	1	0
Greenwood	2	6	4	2	41	31	0	2	18	11
Hamilton	0	0	1	2	9	8	1	1	3	3
Harper	0	6	2	2	21	16	0	1	5	10
Harvey	4	21	14	18	113	83	0	5	58	20
Haskell	0	2	0	2	5	3	0	0	2	1
Hodgeman	0	2	1	0	5	3	0	0	2	1
Jackson	0	7	6	2	60	45	0	1	32	12
Jefferson	2	12	6	15	53	37	0	1	20	16
Jewell	2	1	1	0	10	6	0	0	3	3
Johnson	37	187	86	116	1,292	794	3	43	400	348
Kearny	0	1	0	5	6	6	0	0	4	2
Kingman	1	12	3	7	25	17	0	0	15	2
Kiowa	0	0	1	0	5	4	0	0	2	2
Labette	1	7	10	11	83	59	0	3	35	21
Lane	1	1	1	2	5	5	0	0	3	2
Leavenworth	5	28	22	21	181	136	0	8	82	46
Lincoln	0	0	1	1	10	9	0	1	3	5
Linn	1	5	2	6	29	25	0	0	20	5
Logan	0	1	0	2	14	9	0	1	5	3

Table E27
 Selected Causes of Death by County of Residence and Peer Group
 Kansas, 2017

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
Lyon	1	16	15	14	109	92	0	5	50	37
McPherson	3	16	10	18	103	82	1	5	48	28
Marion	2	7	10	4	48	35	0	4	19	12
Marshall	0	7	2	8	43	33	1	2	20	10
Meade	1	2	1	5	21	17	0	4	10	3
Miami	3	7	12	8	102	77	0	3	41	33
Mitchell	1	4	6	1	36	27	0	2	20	5
Montgomery	3	19	23	8	169	141	0	14	107	20
Morris	0	2	0	4	24	18	0	2	9	7
Morton	0	1	1	0	10	10	0	0	7	3
Nemaha	1	6	7	11	44	27	0	0	18	9
Neosho	1	12	2	5	55	44	0	1	29	14
Ness	0	4	3	1	15	12	0	3	7	2
Norton	0	2	3	0	17	14	0	1	9	4
Osage	0	13	4	7	42	30	1	1	18	10
Osborne	0	4	2	2	22	21	0	1	18	2
Ottawa	2	1	2	1	23	17	0	1	12	4
Pawnee	1	7	6	9	23	15	0	0	10	5
Phillips	0	2	1	5	24	22	0	1	12	9
Pottawatomie	2	10	5	9	54	44	0	1	27	16
Pratt	0	2	4	5	31	26	0	0	14	12
Rawlins	0	1	0	1	15	13	0	0	7	6
Reno	5	30	37	24	203	147	0	14	81	52
Republic	0	5	4	1	23	17	0	0	10	7
Rice	0	4	2	7	42	32	0	1	15	16
Riley	4	17	7	20	105	80	1	6	39	34
Rooks	0	4	0	4	25	16	0	0	14	2
Rush	0	2	2	1	16	9	0	1	4	4
Russell	0	6	5	4	33	24	0	0	15	9
Saline	10	28	16	22	172	108	0	12	55	41
Scott	1	3	1	1	14	12	0	1	11	0
Sedgwick	44	186	161	99	1,136	864	3	45	547	269
Seward	2	6	7	3	27	22	0	4	12	6
Shawnee	6	86	51	79	503	368	5	63	179	121
Sheridan	0	2	1	0	8	7	0	0	5	2
Sherman	1	4	4	1	16	10	0	0	7	3
Smith	1	3	1	0	23	14	0	5	5	4
Stafford	1	3	3	5	13	8	0	1	4	3
Stanton	0	3	0	2	4	3	0	1	2	0
Stevens	2	4	3	1	15	8	0	0	4	4
Sumner	4	11	14	5	67	43	0	7	31	5
Thomas	0	4	0	1	21	17	0	0	12	5
Trego	0	3	1	0	17	16	0	1	12	3
Wabaunsee	1	2	3	0	17	13	0	2	8	3
Wallace	0	3	0	0	6	5	0	0	5	0
Washington	1	11	0	2	19	15	0	1	11	3
Wichita	0	0	1	2	8	3	0	1	2	0
Wilson	2	9	0	3	34	28	0	1	20	7
Woodson	0	0	3	2	13	8	0	0	6	2
Wyandotte	11	58	54	29	382	242	1	14	142	85
n.s.	0	0	0	0	0	0	0	0	0	0
Peer Group										
Frontier	13	67	46	55	460	357	1	29	230	97
Rural	22	139	93	113	875	648	4	26	400	218
Densely -Settled Rural	37	204	171	187	1,409	1,078	4	61	637	376
Semi-Urban	44	189	152	149	1,313	980	4	68	589	319
Urban	118	585	402	382	3,744	2,573	13	192	1,443	925

* The ICD-10 codes associate* 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, 2017

County of Residence	Selected Causes of Death *								
	Primary Hypertension/ Hypertensive Renal Disease & Secondary Hypertension	Cerebro-vascular Diseases	Athero-sclerosis	Other Diseases of Arter-ies, Arteri-oles and Capillaries	Pneumonia and Influenza	Chronic Lower Respiratory Diseases	Peptic Ulcer	Chronic Liver Disease and Cirrhosis	Nephritis, Nephrotic Syndr. and Nephrosis
Kansas	263	1,327	384	191	540	1,816	32	311	531
Allen	0	8	1	1	5	16	1	1	2
Anderson	0	9	4	0	2	11	0	0	5
Atchison	3	9	0	0	8	19	0	1	3
Barber	0	2	0	0	0	1	0	1	6
Barton	2	10	1	4	8	22	1	9	6
Bourbon	1	11	1	2	2	7	0	1	6
Brown	0	10	0	4	4	14	1	0	2
Butler	3	24	2	3	18	45	2	13	15
Chase	0	0	0	1	0	2	0	1	2
Chautauqua	1	0	0	1	0	4	0	1	1
Cherokee	9	16	1	3	9	23	0	2	6
Cheyenne	0	3	0	0	1	5	0	0	0
Clark	0	1	0	1	0	0	0	1	0
Clay	1	6	0	0	2	5	0	1	3
Cloud	0	9	0	1	1	14	0	0	3
Coffey	0	6	1	0	1	3	0	1	2
Comanche	0	3	0	0	1	5	0	0	1
Cowley	3	20	0	3	12	21	1	3	4
Crawford	5	15	1	2	13	37	0	10	11
Decatur	1	2	0	0	0	3	0	0	0
Dickinson	2	11	1	0	6	27	1	3	6
Doniphan	1	6	0	0	3	8	0	1	3
Douglas	6	58	9	8	14	48	2	7	6
Edwards	1	0	0	1	2	2	0	0	1
Elk	0	1	0	0	0	5	1	0	1
Ellis	1	13	2	3	4	17	0	4	2
Ellsworth	2	7	0	2	1	14	1	0	3
Finney	3	6	0	4	4	13	0	9	13
Ford	2	11	0	1	2	20	0	3	9
Franklin	6	10	15	3	4	19	0	0	6
Geary	6	9	1	0	4	14	0	7	4
Gove	0	2	0	0	1	5	0	0	0
Graham	0	2	0	1	1	6	0	0	2
Grant	3	2	0	0	1	4	0	0	0
Gray	1	4	0	0	2	2	0	0	1
Greeley	0	0	0	0	0	3	0	0	0
Greenwood	2	8	0	0	2	6	0	0	6
Hamilton	0	0	0	1	0	1	0	1	1
Harper	1	3	0	1	1	7	0	3	3
Harvey	2	25	1	2	15	25	0	7	8
Haskell	0	2	0	0	1	1	0	0	1
Hodgeman	0	2	0	0	0	2	0	0	0
Jackson	5	8	1	1	3	18	0	1	4
Jefferson	2	11	2	1	10	12	1	2	2
Jewell	0	3	0	1	0	0	0	0	0
Johnson	29	216	238	15	68	200	3	34	72
Kearny	0	0	0	0	0	1	0	1	0
Kingman	0	7	1	0	2	5	0	1	1
Kiowa	0	0	0	1	0	3	0	0	0
Labette	4	17	1	2	8	16	0	2	0
Lane	0	0	0	0	1	2	0	2	0
Leavenworth	4	28	8	5	7	53	1	8	9
Lincoln	1	0	0	0	0	4	0	0	0
Linn	0	4	0	0	4	4	0	3	2
Logan	3	2	0	0	0	4	0	0	1

Table E27
Selected Causes of Death by County of Residence and Peer Group
Kansas, 2017

County of Residence	Selected Causes of Death *								
	Primary Hypertension/ Renal Disease & Secondary Hypertension	Cerebro-vascular Diseases	Athero-sclerosis	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	1	11	1	4	5	19	0	2	5
McPherson	1	16	0	4	8	26	1	3	7
Marion	1	11	0	1	3	15	0	3	1
Marshall	0	8	0	2	4	10	0	0	0
Meade	2	2	0	0	0	5	0	0	1
Miami	1	14	8	2	7	30	0	4	3
Mitchell	2	7	0	0	5	8	0	2	1
Montgomery	4	20	2	2	5	20	3	4	8
Morris	2	2	0	2	0	6	0	1	1
Morton	0	0	0	0	1	0	0	0	1
Nemaha	2	13	1	1	6	9	0	0	2
Neosho	2	8	0	1	7	19	0	2	3
Ness	3	0	0	0	2	7	0	0	1
Norton	1	2	0	0	2	5	0	0	2
Osage	0	11	1	0	2	14	0	2	1
Osborne	0	0	0	1	2	5	0	0	1
Ottawa	3	2	0	1	2	5	0	0	1
Pawnee	3	3	0	2	2	5	0	2	1
Phillips	0	2	0	0	1	6	0	0	1
Pottawatomie	1	7	1	1	1	13	0	1	0
Pratt	0	4	0	1	2	7	0	1	2
Rawlins	0	2	0	0	2	3	0	0	1
Reno	8	35	3	10	30	54	1	6	11
Republic	1	5	0	0	1	4	0	1	1
Rice	1	8	0	1	3	12	0	1	7
Riley	3	19	0	3	11	17	0	4	6
Rooks	3	5	1	0	0	5	0	1	2
Rush	2	2	1	2	0	4	0	0	0
Russell	1	6	1	1	3	2	0	2	3
Saline	10	45	6	3	15	41	0	6	18
Scott	0	0	0	2	0	5	0	1	1
Sedgwick	41	198	5	28	80	301	5	71	106
Seward	2	3	0	0	2	6	0	3	3
Shawnee	17	87	9	22	30	142	3	23	33
Sheridan	0	1	0	0	2	1	0	0	1
Sherman	1	4	0	1	0	4	0	0	0
Smith	1	8	0	0	0	5	0	0	0
Stafford	1	4	0	0	0	6	0	0	2
Stanton	0	1	0	0	1	2	0	0	0
Stevens	2	4	0	1	0	1	0	0	0
Sumner	1	23	0	0	5	20	1	3	7
Thomas	0	3	0	1	3	1	0	0	1
Trego	0	0	0	1	0	4	0	0	0
Wabaunsee	1	2	0	1	1	2	0	0	2
Wallace	1	0	0	0	0	0	0	0	1
Washington	0	4	0	0	0	6	0	0	1
Wichita	1	4	0	0	0	1	0	0	2
Wilson	0	5	0	1	3	10	0	0	2
Woodson	0	3	2	0	3	3	0	1	0
Wyandotte	20	61	50	9	20	92	2	16	32
n.s.	0	0	0	0	0	0	0	0	0
Peer Group									
Frontier	24	64	2	13	19	116	1	9	35
Rural	28	163	10	26	66	206	2	24	56
Densely -Settled Rural	46	236	14	35	114	356	7	58	92
Semi-Urban	48	216	39	30	122	302	6	61	90
Urban	117	648	319	87	219	836	16	159	258

* The ICD-10 codes associate * 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, 2017

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	10	102	108	472	447	1,126	544	179	5,026
Allen	0	0	0	1	3	4	2	1	25
Anderson	0	0	1	0	4	2	0	0	14
Atchison	0	0	0	0	5	8	1	1	27
Barber	0	3	0	0	2	6	3	1	18
Barton	0	2	0	1	6	9	4	0	60
Bourbon	0	1	0	5	4	4	3	1	37
Brown	0	1	3	2	2	4	1	0	18
Butler	0	1	4	21	9	28	19	2	113
Chase	0	0	0	0	1	0	0	0	6
Chautauqua	0	0	0	0	0	2	1	0	9
Cherokee	0	0	0	5	7	6	2	4	42
Cheyenne	0	0	0	1	1	2	0	0	5
Clark	0	0	0	0	3	0	1	0	10
Clay	0	0	0	0	3	2	0	0	20
Cloud	0	2	0	6	2	2	1	0	32
Coffey	0	0	0	2	2	6	0	0	15
Comanche	0	0	0	0	2	1	0	0	4
Cowley	0	2	3	5	8	15	6	3	73
Crawford	0	1	3	2	2	6	7	0	80
Decatur	0	0	0	1	3	3	1	0	9
Dickinson	0	0	3	2	2	7	2	1	45
Doniphan	0	1	0	1	0	2	0	0	13
Douglas	0	2	5	12	11	51	17	7	133
Edwards	0	0	0	0	1	3	0	0	6
Elk	0	0	0	1	1	6	1	0	7
Ellis	0	1	0	4	6	18	3	0	58
Ellsworth	0	0	0	2	0	6	0	1	16
Finney	0	2	1	8	4	16	4	2	36
Ford	1	2	0	4	10	12	7	0	45
Franklin	0	1	1	2	1	9	1	1	43
Geary	1	1	4	1	5	7	11	1	25
Gove	0	1	0	0	0	1	0	0	5
Graham	0	1	0	0	1	0	1	0	13
Grant	0	0	0	3	2	3	0	0	11
Gray	0	0	0	1	2	0	0	0	11
Greeley	0	1	0	0	1	0	0	0	6
Greenwood	0	1	0	1	5	6	1	0	23
Hamilton	0	0	1	0	0	1	1	0	3
Harper	0	1	0	4	4	2	2	0	16
Harvey	0	2	1	4	4	24	3	7	66
Haskell	0	1	0	0	1	3	0	0	7
Hodgeman	0	0	0	0	2	0	0	0	5
Jackson	0	1	1	4	3	11	1	0	20
Jefferson	0	2	0	0	3	5	8	2	41
Jewell	0	0	0	9	0	2	0	0	1
Johnson	2	9	10	76	39	146	103	15	814
Kearny	0	0	0	0	1	1	0	0	6
Kingman	0	0	0	0	0	2	3	0	20
Kiowa	0	0	0	1	0	0	2	0	9
Labette	0	1	0	1	4	9	4	2	59
Lane	0	0	0	1	0	2	0	1	4
Leavenworth	1	1	4	15	7	19	11	4	105
Lincoln	0	0	0	0	0	1	0	0	7
Linn	0	0	0	1	3	2	2	1	18
Logan	0	0	0	1	0	3	0	0	6

Table E27
Selected Causes of Death by County of Residence and Peer Group
Kansas, 2017

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	0	3	0	2	2	11	9	2	33
McPherson	0	0	0	2	11	21	6	1	82
Marion	0	1	0	0	2	6	2	0	29
Marshall	0	1	1	2	3	7	2	0	29
Meade	0	0	0	1	1	3	0	0	12
Miami	0	0	0	9	6	20	12	3	49
Mitchell	0	0	1	0	2	1	0	0	15
Montgomery	0	1	2	6	12	16	9	3	78
Morris	0	0	0	2	2	3	0	0	17
Morton	0	1	0	1	0	0	0	0	10
Nemaha	0	0	0	1	5	2	1	0	21
Neosho	0	0	0	5	7	6	5	0	43
Ness	0	0	1	0	1	3	2	0	9
Norton	0	0	0	2	1	2	2	0	13
Osage	0	2	1	6	6	7	6	0	42
Osborne	0	0	0	1	2	2	3	0	8
Ottawa	0	0	0	10	1	2	0	1	16
Pawnee	0	0	0	0	1	6	1	0	13
Phillips	0	0	0	2	0	3	1	0	20
Pottawatomie	0	1	0	3	6	6	4	0	28
Pratt	1	1	0	1	2	7	4	0	22
Rawlins	0	0	0	1	3	1	0	0	5
Reno	1	2	2	18	12	33	10	2	142
Republic	0	1	0	16	0	6	3	0	17
Rice	0	2	1	2	0	0	7	0	21
Riley	0	1	2	5	4	11	8	2	78
Rooks	0	0	0	0	1	4	2	0	11
Rush	0	0	0	0	0	1	0	0	5
Russell	0	0	0	1	1	3	1	1	16
Saline	0	1	5	13	4	30	10	2	104
Scott	0	0	0	2	2	3	0	1	9
Sedgwick	2	18	30	70	70	228	104	37	876
Seward	0	0	1	7	2	9	5	0	13
Shawnee	0	10	13	21	19	94	41	28	387
Sheridan	0	0	0	0	0	0	0	1	4
Sherman	0	0	0	0	3	0	2	0	14
Smith	0	0	0	0	0	2	1	0	15
Stafford	0	0	0	0	2	5	2	0	16
Stanton	0	0	0	0	1	1	0	0	5
Stevens	0	0	0	1	1	4	0	0	13
Sumner	0	1	0	2	4	8	3	0	67
Thomas	0	1	0	2	1	6	3	0	13
Trego	0	0	0	0	2	1	1	0	5
Wabaunsee	0	0	0	0	2	3	2	0	8
Wallace	0	0	0	0	0	0	0	0	0
Washington	0	0	0	1	0	2	0	0	10
Wichita	0	0	0	0	1	1	0	0	4
Wilson	0	0	0	2	4	5	3	2	19
Woodson	0	0	0	0	0	0	2	0	9
Wyandotte	1	9	3	41	42	41	25	35	231
n.s.	0	0	0	0	1	0	0	0	0
Peer Group									
Frontier	0	8	2	20	41	64	25	3	285
Rural	1	12	7	68	55	105	43	7	528
Densely -Settled Rural	1	22	10	68	103	194	85	20	889
Semi-Urban	2	11	24	81	59	184	90	23	778
Urban	6	49	65	235	188	579	301	126	2,546

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

Table E28
Life-Expectancy at Birth by County of Residence and Peer Group*
2013-2017

County of Residence	Life Expectancy	County of Residence	Life Expectancy
Kansas	76.1		
Allen	74.4	Lyon	76.0
Anderson	75.1	McPherson	76.1
Atchison	74.8	Marion	75.8
Barber	74.5	Marshall	76.7
Barton	75.8	Meade	75.6
Bourbon	74.0	Miami	76.2
Brown	75.3	Mitchell	76.4
Butler	75.4	Montgomery	73.4
Chase	74.8	Morris	76.9
Chautauqua	72.9	Morton	72.8
Cherokee	73.9	Nemaha	76.8
Cheyenne	78.7	Neosho	75.2
Clark	73.7	Ness	73.1
Clay	75.4	Norton	75.3
Cloud	75.1	Osage	74.3
Coffey	76.1	Osborne	72.8
Comanche	71.0	Ottawa	75.5
Cowley	73.7	Pawnee	74.8
Crawford	74.7	Phillips	75.8
Decatur	77.5	Pottawatomie	76.9
Dickinson	75.5	Pratt	74.7
Doniphan	77.0	Rawlins	75.0
Douglas	77.7	Reno	75.0
Edwards	77.4	Republic	72.9
Elk	71.9	Rice	73.8
Ellis	76.8	Riley	78.2
Ellsworth	75.3	Rooks	75.7
Finney	76.6	Rush	75.6
Ford	76.3	Russell	76.8
Franklin	75.7	Saline	75.6
Geary	74.1	Scott	77.5
Gove	75.1	Sedgwick	75.3
Graham	77.0	Seward	76.6
Grant	76.6	Shawnee	75.1
Gray	76.4	Sheridan	75.9
Greeley	72.3	Sherman	74.7
Greenwood	72.6	Smith	75.7
Hamilton	75.4	Stafford	74.1
Harper	72.9	Stanton	78.0
Harvey	76.1	Stevens	75.8
Haskell	77.9	Sumner	75.4
Hodgeman	76.1	Thomas	77.2
Jackson	75.9	Trego	75.2
Jefferson	75.8	Wabaunsee	77.4
Jewell	77.6	Wallace	77.5
Johnson	78.9	Washington	76.5
Kearny	76.2	Wichita	76.5
Kingman	75.9	Wilson	72.9
Kiowa	77.5	Woodson	73.5
Labette	73.3	Wyandotte	73.8
Lane	75.5	Peer Group	
Leavenworth	76.5	Frontier	75.2
Lincoln	77.2	Rural	75.6
Linn	74.0	Densely -Settled Rural	75.5
Logan	78.0	Semi-Urban	75.6
		Urban	76.6

* See Technical Notes for Peer Group definition.

Table E29
Deaths by Selected City of Residence
by Number and Crude Rate*
Kansas, 2013-2017

City of Residence	Year										5-Year Rate
	2013		2014		2015		2016		2017		
	Number	Rate									
Abilene	92	1,380.3	92	1,396.1	108	1,646.8	113	1,746.8	88	1,379.3	1,509.4
Andover	110	896.9	99	791.4	92	721.9	105	808.9	102	778.0	798.6
Arkansas City	160	1,300.3	165	1,351.9	167	1,376.1	175	1,450.7	147	1,238.8	1,343.8
Atchison	120	1,098.4	126	1,169.8	145	1,353.6	143	1,339.1	122	1,147.0	1,221.1
Augusta	105	1,140.9	120	1,298.4	108	1,161.4	111	1,190.9	130	1,384.6	1,235.6
Baldwin City	46	1,013.2	42	916.0	47	1,006.6	44	940.8	48	1,033.6	982.0
Basehor	43	877.9	39	761.9	46	851.5	40	707.8	57	947.6	830.7
Baxter Springs	55	1,333.7	51	1,252.1	65	1,613.7	39	984.1	54	1,364.3	1,310.4
Bel Aire	57	824.2	67	919.8	72	968.4	69	900.7	72	909.8	905.7
Beloit	63	1,638.1	39	1,028.5	53	1,398.4	47	1,247.0	64	1,725.1	1,406.9
Bonner Springs	70	935.8	72	953.3	72	946.6	69	900.2	54	693.7	884.8
Burlington	53	2,015.2	24	910.8	45	1,720.8	33	1,264.4	39	1,527.6	1,487.4
Chanute	117	1,264.2	137	1,473.9	110	1,188.9	112	1,225.5	111	1,226.0	1,276.2
Clay Center	70	1,651.3	77	1,843.4	85	2,036.9	77	1,892.4	57	1,432.2	1,773.4
Coffeyville	147	1,477.5	134	1,356.8	156	1,613.4	164	1,719.3	189	1,993.5	1,628.4
Colby	62	1,144.8	62	1,150.7	74	1,366.1	49	904.2	46	858.0	1,085.1
Columbus	44	1,365.2	54	1,694.9	43	1,366.8	56	1,804.1	54	1,744.2	1,593.1
Concordia	80	1,520.6	80	1,506.3	97	1,858.9	81	1,564.0	75	1,470.9	1,584.3
Derby	176	763.7	216	929.7	205	872.0	215	909.7	201	849.1	865.1
De Soto	69	1,167.3	43	712.2	55	905.5	39	642.4	38	622.2	807.9
Dodge City	173	614.4	176	626.0	179	641.3	171	622.9	194	699.9	640.8
Edwardsville	61	1,400.7	51	1,164.4	50	1,139.0	47	1,070.6	69	1,534.0	1,262.9
El Dorado	174	1,353.9	166	1,288.9	177	1,368.8	172	1,308.9	174	1,339.2	1,331.9
Ellsworth	48	1,560.0	32	1,040.3	50	1,635.6	31	1,017.4	47	1,539.0	1,358.5
Emporia	225	907.3	201	818.4	220	892.5	182	733.4	207	837.2	837.7
Eudora	43	692.3	60	951.9	50	783.9	36	564.4	47	742.6	746.8
Eureka	51	2,018.2	51	2,052.3	59	2,408.2	61	2,531.1	67	2,790.5	2,354.8
Fairway	22	555.1	12	302.3	16	403.0	18	453.2	22	556.0	453.8
Fort Scott	138	1,739.3	124	1,574.8	140	1,786.2	122	1,569.5	141	1,804.7	1,695.0
Frontenac	46	1,340.3	46	1,335.7	59	1,724.1	44	1,288.8	45	1,318.5	1,401.5
Galena	58	1,937.2	66	2,225.2	42	1,433.4	42	1,455.3	45	1,551.7	1,723.9
Garden City	174	645.3	158	585.1	181	670.2	169	631.8	181	673.0	641.1
Gardner	83	405.4	84	406.4	102	488.8	99	469.0	125	579.2	470.9
Garnett	49	1,481.7	46	1,396.1	51	1,565.4	61	1,868.9	59	1,813.7	1,624.2
Girard	36	1,295.4	49	1,767.0	36	1,304.3	42	1,528.4	32	1,182.6	1,416.5
Goddard	41	894.8	47	1,001.7	36	762.9	66	1,401.3	38	800.7	972.3
Goodland	71	1,558.0	50	1,097.9	69	1,548.1	57	1,283.5	49	1,110.9	1,320.2
Great Bend	174	1,094.3	172	1,085.9	179	1,138.9	184	1,184.4	183	1,192.6	1,138.7
Hays	187	888.9	179	850.6	194	919.8	189	898.8	188	901.9	892.0
Haysville	122	1,108.7	109	980.9	113	1,007.8	127	1,129.4	115	1,019.7	1,049.2
Herington	34	1,388.3	33	1,367.6	33	1,377.3	21	889.1	36	1,543.7	1,313.6
Hesston	59	1,579.2	61	1,633.6	46	1,206.4	48	1,262.2	56	1,480.7	1,431.0
Hiawatha	64	2,013.8	44	1,415.7	50	1,615.5	46	1,500.8	57	1,811.2	1,673.8
Hillsboro	44	1,515.7	54	1,866.6	61	2,126.2	45	1,558.7	41	1,438.6	1,701.2
Hoisington	25	931.1	30	1,126.1	29	1,105.6	29	1,121.4	32	1,250.5	1,105.4
Holton	66	2,013.4	55	1,658.6	68	2,084.0	50	1,522.1	66	2,020.8	1,858.8
Hugoton	31	779.1	46	1,159.9	42	1,059.5	37	964.8	41	1,070.2	1,006.4
Hutchinson	544	1,298.7	534	1,282.4	512	1,231.7	484	1,171.6	526	1,290.1	1,254.9
Independence	142	1,538.5	136	1,484.4	138	1,540.5	142	1,613.8	123	1,409.1	1,517.4
Iola	92	1,639.1	94	1,692.8	84	1,535.6	82	1,503.5	72	1,344.8	1,545.0
Junction City	168	661.7	155	628.4	180	731.1	187	773.4	172	748.2	707.5
Kansas City	1,233	830.4	1,225	818.7	1,232	814.2	1,229	810.1	1,238	809.5	816.5

Table E29
Deaths by Selected City of Residence
by Number and Crude Rate*
Kansas, 2013-2017

City of Residence	Year										5-Year Rate
	2013		2014		2015		2016		2017		
	Number	Rate									
Kingman	50	1,583.3	61	1,971.6	51	1,652.6	52	1,733.3	43	1,468.1	1,683.4
Lansing	64	549.7	68	580.6	76	645.9	113	953.7	77	644.5	675.5
Larned	50	1,235.8	69	1,715.1	63	1,588.1	55	1,410.3	80	2,075.2	1,601.7
Lawrence	489	538.5	500	539.0	532	566.5	483	506.5	607	626.5	555.8
Leavenworth	273	760.6	271	752.8	256	711.5	287	793.8	272	751.2	754.0
Leawood	243	736.6	252	732.7	254	734.5	233	674.1	280	807.9	737.2
Lenexa	357	709.1	346	677.9	349	664.9	378	714.5	438	817.9	717.5
Liberal	116	553.5	132	628.2	113	544.7	126	619.2	106	534.7	576.3
Lindsborg	51	1,465.1	53	1,541.6	51	1,507.5	46	1,378.1	48	1,468.8	1,472.7
Louisburg	41	953.7	39	902.4	54	1,262.9	41	935.6	36	802.3	969.4
Lyons	51	1,364.7	51	1,364.7	58	1,557.0	43	1,171.3	45	1,262.3	1,345.3
McPherson	160	1,201.0	158	1,198.0	157	1,194.5	134	1,017.9	162	1,227.2	1,167.8
Maize	18	470.8	17	417.4	17	389.7	24	540.8	26	570.6	479.9
Manhattan	256	456.0	242	431.5	256	454.6	304	552.9	292	532.5	485.0
Marysville	51	1,547.8	46	1,396.1	45	1,354.2	44	1,335.8	58	1,773.2	1,480.8
Merriam	118	1,046.0	103	912.3	109	965.6	82	729.2	88	784.9	887.8
Mission	102	1,071.9	67	705.2	96	1,011.5	94	995.4	86	914.0	939.6
Mission Hills	18	502.5	16	444.8	20	555.4	19	527.8	12	335.9	473.5
Mulvane	49	779.4	55	874.5	78	1,235.4	66	1,045.0	68	1,069.4	1,001.1
Newton	217	1,135.1	228	1,192.5	229	1,191.7	223	1,167.2	216	1,144.7	1,166.3
Norton	44	1,527.8	49	1,721.7	45	1,583.9	58	2,062.6	43	1,549.5	1,688.6
Olathe	681	516.4	684	514.0	722	537.6	698	515.2	770	560.1	528.9
Osage City	44	1,517.8	60	2,096.4	54	1,898.7	46	1,621.4	54	1,931.3	1,812.1
Osawatomie	51	1,163.1	53	1,216.4	54	1,256.7	52	1,207.1	70	1,628.7	1,293.6
Ottawa	144	1,153.7	146	1,177.1	140	1,130.2	151	1,222.1	147	1,191.1	1,174.8
Overland Park	1,267	699.0	1,253	679.0	1,315	705.0	1,298	686.9	1,347	704.2	694.9
Paola	78	1,385.4	95	1,698.6	70	1,266.5	94	1,688.2	89	1,595.0	1,527.0
Park City	37	493.4	34	450.0	39	511.9	44	576.5	45	582.2	523.2
Parsons	152	1,495.5	161	1,582.5	147	1,456.9	145	1,463.8	138	1,413.8	1,483.2
Phillipsburg	42	1,652.9	33	1,291.1	43	1,703.6	40	1,572.9	41	1,632.2	1,569.9
Pittsburg	189	926.6	198	970.9	230	1,127.0	213	1,045.9	216	1,068.5	1,027.7
Prairie Village	189	863.3	175	799.9	181	827.4	161	738.4	189	845.0	815.0
Pratt	109	1,560.3	83	1,192.0	90	1,314.1	94	1,388.3	88	1,304.1	1,352.1
Roeland Park	46	672.0	40	584.8	42	615.2	45	663.1	40	590.7	625.2
Rose Hill	36	913.2	32	808.1	37	926.2	42	1,046.1	28	703.5	879.8
Russell	61	1,363.1	68	1,516.5	65	1,433.6	65	1,444.4	79	1,770.1	1,505.2
Sabetha	45	1,752.3	49	1,911.1	47	1,818.2	44	1,702.8	55	2,140.9	1,864.8
St Marys	22	821.8	26	976.0	24	901.6	27	1,013.5	28	1,058.6	954.0
Salina	494	1,032.5	484	1,011.1	483	1,010.2	460	971.8	560	1,191.6	1,043.1
Scott City	39	1,002.8	40	1,018.6	34	885.9	51	1,311.1	43	1,116.6	1,067.3
Shawnee	389	604.8	429	664.1	447	687.2	405	621.2	382	583.1	632.0
Spring Hill	43	750.4	59	1,000.7	52	869.4	44	713.6	42	634.6	789.7
Tonganoxie	55	1,064.9	54	1,040.1	55	1,048.0	46	863.7	59	1,083.8	1,019.9
Topeka	1,414	1,107.5	1,525	1,198.8	1,565	1,229.7	1,519	1,197.9	1,569	1,239.5	1,194.5
Ulysses	37	589.7	45	730.5	39	639.7	43	712.5	49	828.8	698.9
Valley Center	50	713.2	43	609.3	59	816.9	54	735.4	58	794.5	734.7
Wamego	56	1,216.6	38	830.1	45	972.6	42	890.8	54	1,148.2	1,011.8
Wellington	110	1,380.7	101	1,271.7	96	1,202.0	97	1,229.6	120	1,534.1	1,323.0
Wichita	3,293	851.9	3,445	886.9	3,523	903.4	3,555	911.8	3,569	913.7	893.6
Winfield	198	1,605.4	159	1,297.1	190	1,556.9	151	1,229.2	175	1,445.8	1,426.9

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

**F. MARRIAGES AND
MARRIAGE
DISSOLUTIONS**

Table F1
 Marriages and Marriage Dissolutions
 by Number and Rate*, Kansas Occurrence, 1968-2017

Year	Marriage		Year	Marriage Dissolutions	
	Number	Rate		Number	Rate
1968	21,748	9.6	1968	7,144	3.2
1969	22,304	9.8	1969	7,956	3.5
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

* Rates are per 1000 population.

Marriage Rates Kansas and the U.S., 1913-2017

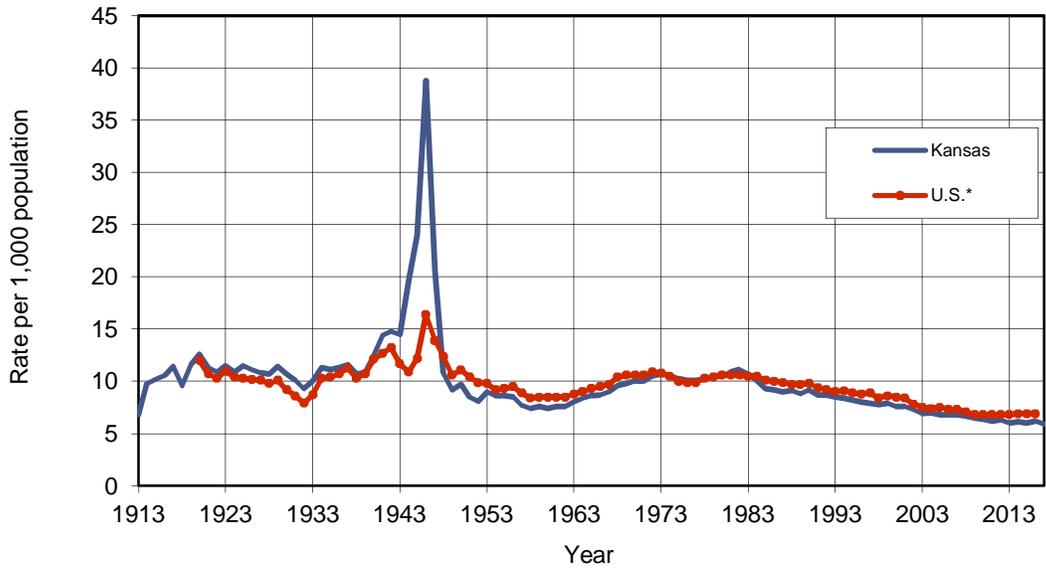


Figure F1

*1913-1919 not available, 1991-2016 Rates Provisional, 2017 Rates not yet available.

Marriage Dissolution Rates Kansas and the U.S., 1951-2017

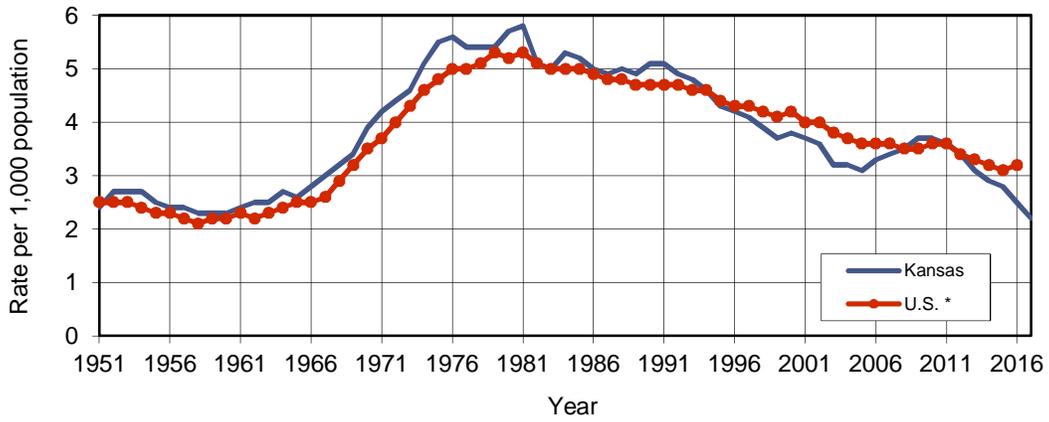


Figure F2

*1991-2016 Rates Provisional, 2017 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, 2017

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	17,274	12,430	836	97	520	461	2,870	60
White Non-Hispanic	12,247	10,926	103	62	206	228	705	17
Black Non-Hispanic	1,129	290	644	6	23	67	94	5
Native American Non-Hispanic	88	60	2	14	1	1	10	0
Asian/Pacific Non-Hispanic	369	70	7	0	255	12	25	0
Other Non-Hispanic*	474	258	34	2	13	109	57	1
Hispanic Any Race	2,905	807	42	13	22	44	1,973	4
n.s.	62	19	4	0	0	0	6	33

* 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, 2017

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	6,494	4,906	375	31	152	72	682	276
White Non-Hispanic	4,711	4,385	32	21	46	29	157	41
Black Non-Hispanic	513	137	317	2	10	17	25	5
Native American Non-Hispanic	30	22	3	2	0	0	1	2
Asian/Pacific Non-Hispanic	126	39	2	0	76	1	5	3
Other Non-Hispanic*	67	31	7	0	3	15	8	3
Hispanic Any Race	767	237	12	6	15	9	477	11
n.s.	280	55	2	0	2	1	9	211

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

Number of Marriages by Month
Kansas, 2017

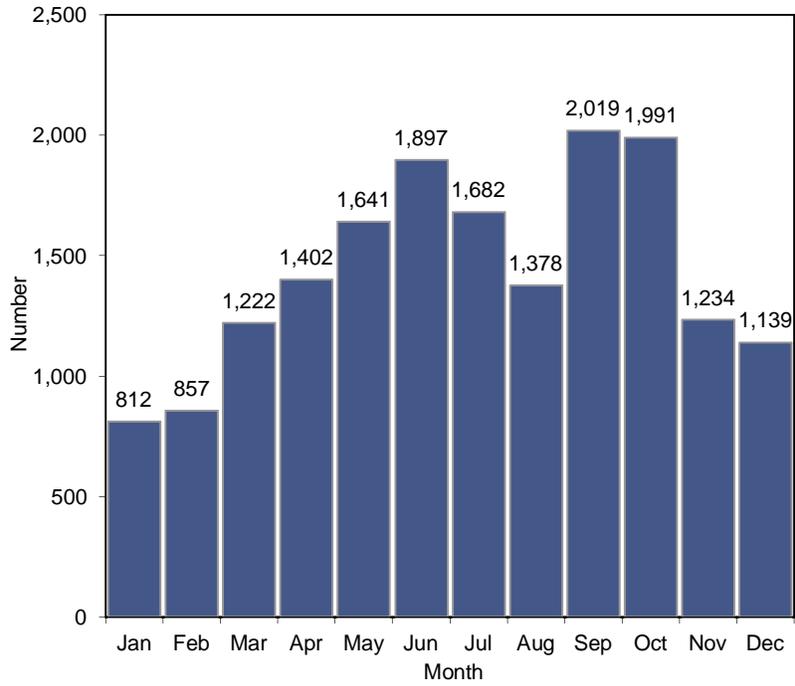


Figure F3

Table F4
Marriages by Premarital Status of Groom
by Premarital Status of Bride
Kansas, 2017

Premarital Status of Groom	Total	Premarital Status of Bride				
		Never Married	Divorced	Annulled	Widowed	n.s.
Total	17,274	11,928	4,849	86	410	1
Never Married	11,974	10,205	1,667	34	67	1
Divorced	4,772	1,620	2,920	39	193	0
Annulled	91	44	35	9	3	0
Widowed	436	59	227	4	146	0
n.s.	1	0	0	0	1	0

Average Age at Marriage
Kansas, 1998-2017

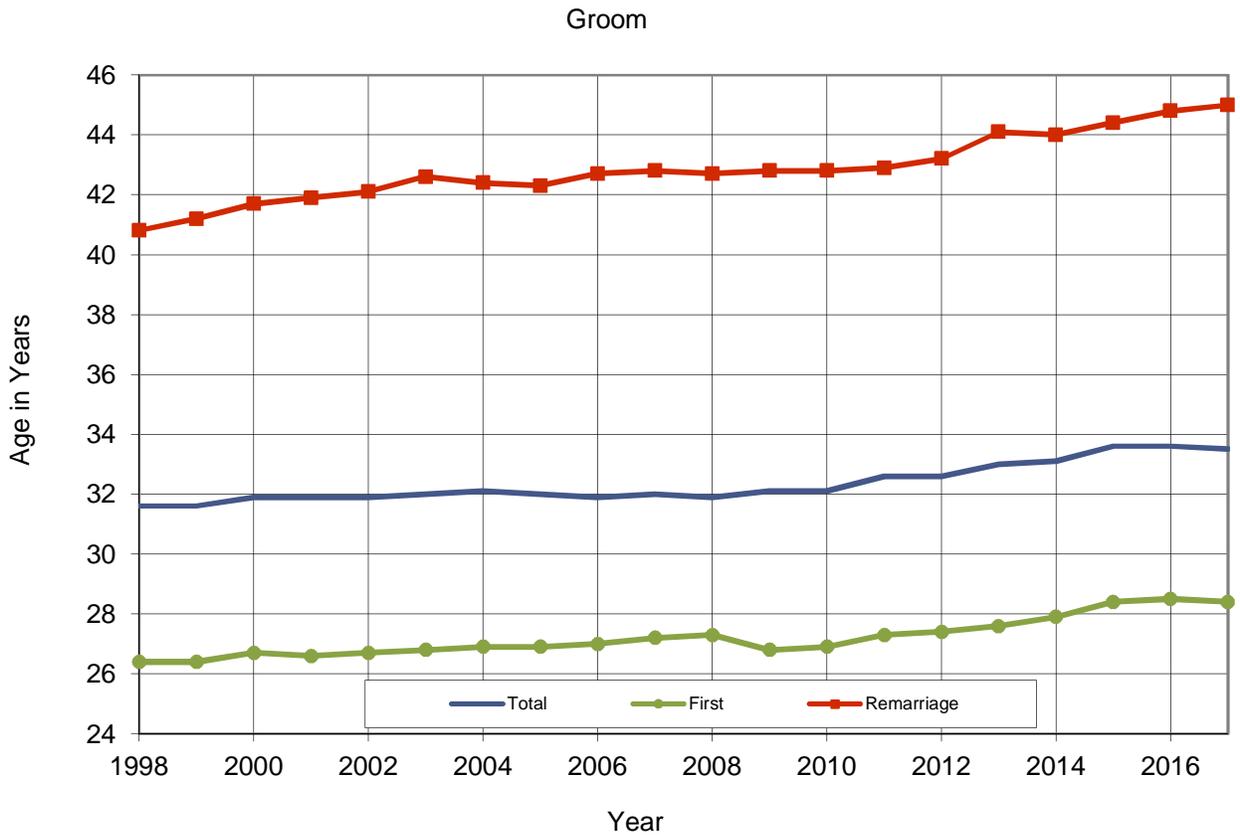
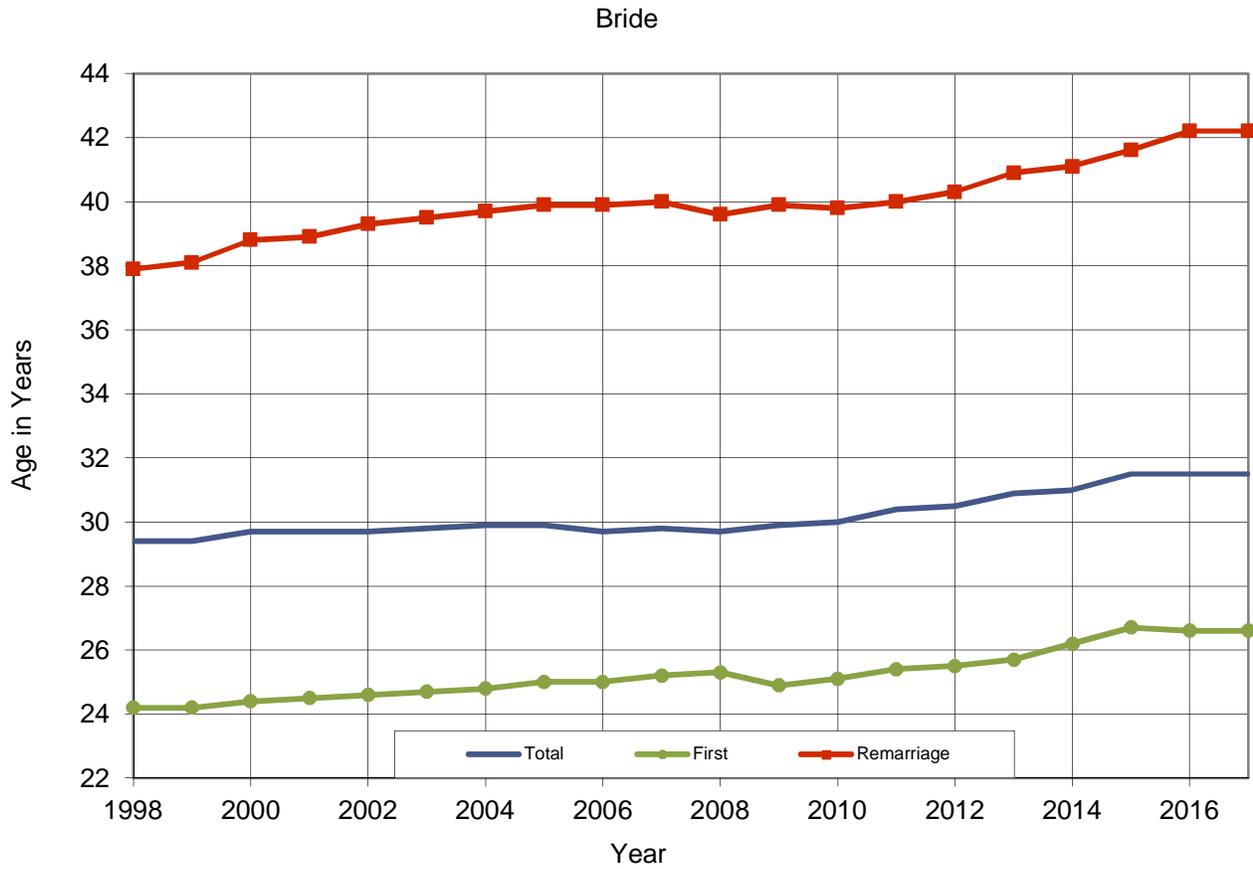


Figure F4

Table F6
 Marriage Dissolutions by Age-Group of Husband by Age-Group of Wife
 Kansas, 2017

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	6,494	29	552	1,016	1,090	1,060	829	668	474	330	195	99	23	30	99
15-19	10	3	6	0	0	0	0	0	0	0	1	0	0	0	0
20-24	360	22	268	54	8	2	1	2	0	0	0	0	0	0	3
25-29	843	2	224	477	94	25	8	5	0	1	1	0	0	0	6
30-34	1,078	2	36	339	493	152	32	10	5	0	1	0	0	0	8
35-39	1,044	0	9	92	330	460	99	25	16	1	0	0	0	0	12
40-44	860	0	4	28	101	266	325	90	19	14	2	0	0	0	11
45-49	728	0	1	10	34	85	228	259	66	23	5	2	0	1	14
50-54	553	0	0	3	10	36	75	173	174	56	14	3	0	1	8
55-59	439	0	1	4	4	11	33	78	124	135	39	7	0	1	2
60-64	250	0	0	0	3	6	10	21	39	61	75	26	1	1	7
65-69	137	0	0	1	0	2	4	3	17	20	40	44	3	1	2
70-74	55	0	0	0	2	2	0	1	6	8	9	13	12	1	1
75 & Over	48	0	0	0	0	0	1	1	1	4	6	4	7	24	0
n.s.	89	0	3	8	11	13	13	0	7	7	2	0	0	0	25

Average Age at Marriage Dissolution
Kansas, 1998-2017

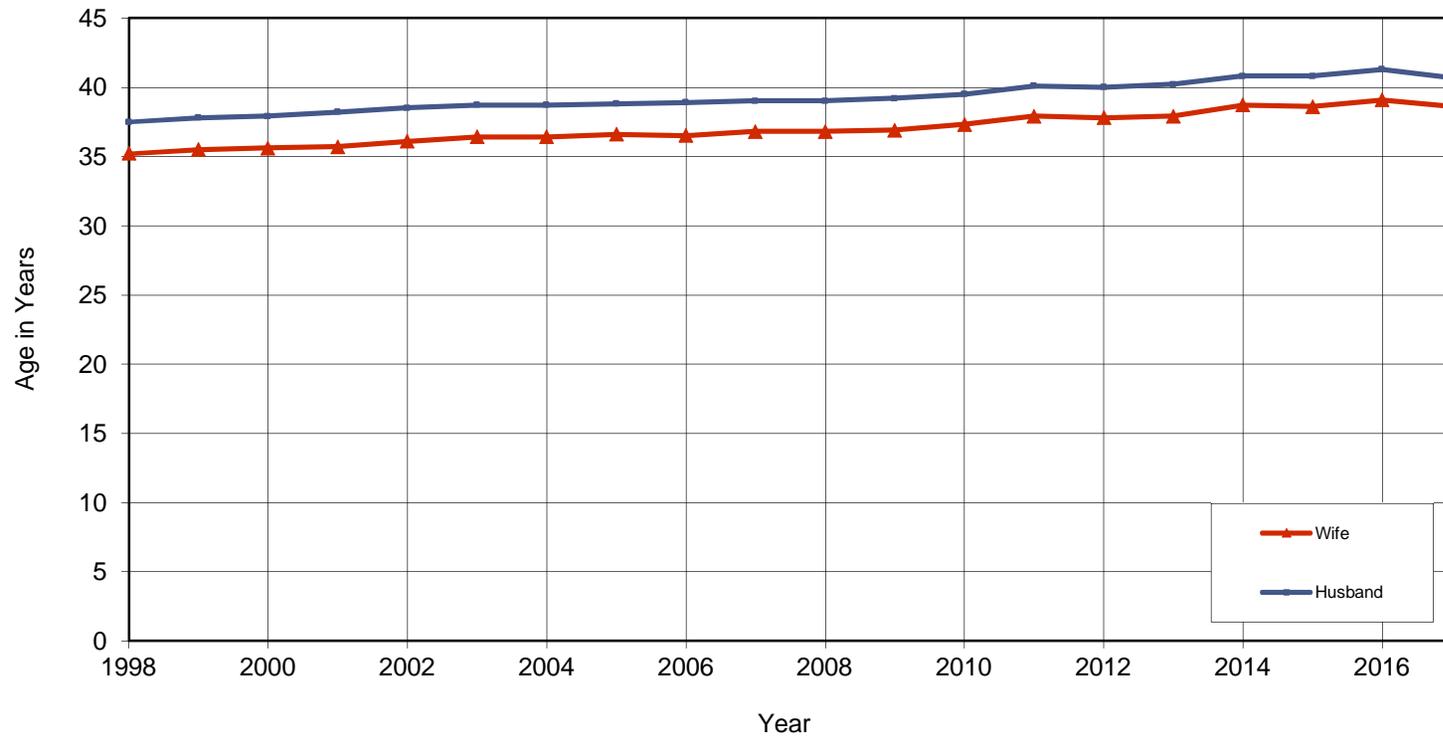


Figure F5

Table F7
 Marriage Dissolutions
 by Duration of Marriage in Years
 Kansas, 2017

Duration of Marriage	Total	Divorces	Annulments
Total	6,494	6,402	92
Under 1	211	168	43
1	467	442	25
2	469	466	3
3	459	457	2
4	440	435	5
5	421	421	0
6	365	362	3
7	354	352	2
8	288	288	0
9	270	267	3
10	258	258	0
11	216	216	0
12	196	196	0
13	159	159	0
14	142	142	0
15	138	138	0
16	157	157	0
17	113	113	0
18	118	118	0
19	107	107	0
20-24	414	414	0
25-29	244	244	0
30-34	138	138	0
35-39	76	76	0
40 & Over	69	69	0
n.s.	205	199	6

Marriage Dissolutions
Percent Distribution by Number of Minor Children
 Kansas, 2017

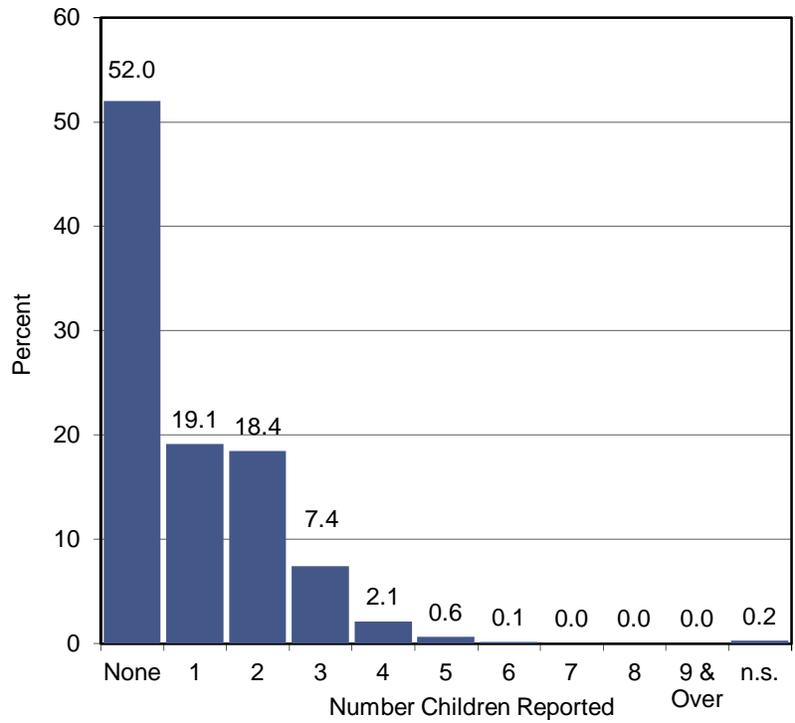


Figure F6

Table F8
Marriage Dissolutions by Number of Minor Children Reported
and Number of Minor Children Affected
 Kansas, 2017

Number of Minor Children Reported	Divorces		Annulments		Total Children Affected
	Number	Percent	Number	Percent	Number*
Total	6,402	100	92	100.0	5,885
None	3,293	51.6	81	88.0	0
1	1,235	19.3	4	4.3	1,239
2	1,196	18.7	2	2.2	2,396
3	477	7.5	3	3.3	1,440
4 or More	185	2.9	2	2.2	810
n.s.	16	n/a	0	n/a	0

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

Table F9
 Marriages by County of Marriage and Peer Group*
 by Number and Rate†
 Kansas, 2013-2017

County of Marriage	2013		2014		2015		2016		2017		5-Year Rate
	Number	Rate									
Kansas	17,328	6.0	17,655	6.1	17,595	6.0	17,948	6.2	17,274	5.9	6.0
Allen	67	5.1	64	5.0	59	4.6	59	4.6	56	4.5	4.8
Anderson	36	4.6	53	6.7	31	4.0	40	5.1	34	4.3	4.9
Atchison	96	5.7	84	5.1	90	5.5	79	4.8	77	4.7	5.2
Barber	30	6.1	39	8.0	36	7.5	31	6.6	22	4.8	6.6
Barton	168	6.1	192	7.0	176	6.5	171	6.4	156	5.9	6.4
Bourbon	88	5.9	101	6.8	109	7.4	95	6.5	87	5.9	6.5
Brown	66	6.6	62	6.3	63	6.4	48	5.0	58	6.0	6.1
Butler	415	6.3	424	6.4	404	6.1	428	6.4	453	6.8	6.4
Chase	23	8.5	35	13.0	33	12.3	33	12.4	39	14.5	12.1
Chautauqua	28	7.9	21	6.0	20	5.9	19	5.6	18	5.4	6.2
Cherokee	104	5.0	85	4.1	107	5.2	87	4.3	72	3.6	4.4
Cheyenne	18	6.7	15	5.6	8	3.0	11	4.1	5	1.9	4.3
Clark	12	5.5	13	6.1	7	3.3	7	3.4	4	2.0	4.1
Clay	53	6.3	46	5.5	45	5.4	58	7.1	61	7.7	6.4
Cloud	45	4.8	58	6.2	53	5.7	48	5.2	51	5.7	5.5
Coffey	61	7.3	53	6.3	50	6.0	47	5.6	43	5.2	6.1
Comanche	12	6.1	8	4.1	12	6.5	7	3.8	8	4.5	5.0
Cowley	232	6.4	228	6.3	214	6.0	212	5.9	212	6.0	6.1
Crawford	182	4.6	209	5.3	219	5.6	210	5.4	216	5.5	5.3
Decatur	20	6.8	18	6.2	12	4.1	15	5.3	17	5.9	5.7
Dickinson	123	6.3	139	7.2	130	6.7	108	5.7	108	5.7	6.3
Doniphan	44	5.6	35	4.4	29	3.7	31	4.0	30	3.9	4.3
Douglas	728	6.4	899	7.7	812	6.9	792	6.6	758	6.3	6.8
Edwards	17	5.8	21	6.9	13	4.4	16	5.4	13	4.5	5.4
Elk	12	4.5	14	5.2	15	5.8	7	2.7	17	6.8	5.0
Ellis	216	7.4	170	5.9	170	5.9	168	5.8	169	5.9	6.2
Ellsworth	42	6.6	39	6.1	38	6.0	25	4.0	40	6.3	5.8
Finney	229	6.2	242	6.5	223	6.0	288	7.8	262	7.1	6.7
Ford	253	7.3	256	7.4	244	7.1	286	8.4	249	7.2	7.5
Franklin	136	5.3	154	6.0	144	5.6	149	5.8	126	4.9	5.5
Geary	603	16.1	527	14.4	535	14.4	500	14.1	484	14.3	14.7
Gove	15	5.4	9	3.3	14	5.3	7	2.7	5	1.9	3.7
Graham	12	4.6	10	3.9	15	5.8	14	5.5	11	4.4	4.8
Grant	58	7.3	42	5.4	35	4.5	28	3.7	19	2.5	4.7
Gray	32	5.3	38	6.2	26	4.2	26	4.3	25	4.2	4.9
Greeley	6	4.7	5	3.8	2	1.5	10	7.7	11	8.8	5.3
Greenwood	56	8.7	31	4.9	37	5.9	32	5.2	32	5.2	6.0
Hamilton	17	6.5	14	5.4	8	3.2	5	2.0	12	4.5	4.4
Harper	26	4.4	28	4.8	28	4.8	30	5.3	34	6.1	5.1
Harvey	212	6.1	209	6.0	230	6.6	240	6.9	220	6.4	6.4
Haskell	20	4.8	15	3.7	30	7.4	17	4.2	16	3.9	4.8
Hodgeman	3	1.5	6	3.1	7	3.7	5	2.7	14	7.6	3.7
Jackson	77	5.8	66	4.9	66	4.9	71	5.3	43	3.2	4.8
Jefferson	110	5.8	97	5.1	95	5.0	165	8.7	142	7.5	6.4
Jewell	18	5.9	19	6.2	13	4.4	19	6.5	16	5.6	5.7
Johnson	2,430	4.3	2,588	4.5	2,586	4.5	2,795	4.8	2,598	4.4	4.5
Kearny	23	5.9	18	4.6	18	4.6	18	4.6	20	5.1	4.9
Kingman	41	5.2	41	5.3	49	6.4	43	5.8	39	5.3	5.6
Kiowa	15	5.9	24	9.6	13	5.1	14	5.6	12	4.8	6.2
Labette	115	5.5	96	4.6	104	5.0	86	4.2	89	4.4	4.7
Lane	7	4.1	4	2.4	4	2.4	9	5.5	3	1.9	3.3
Leavenworth	455	5.8	465	5.9	506	6.4	504	6.3	495	6.1	6.1
Lincoln	13	4.1	16	5.1	17	5.5	20	6.5	14	4.6	5.1
Linn	39	4.1	41	4.3	49	5.1	65	6.8	73	7.5	5.6
Logan	25	8.9	9	3.2	16	5.7	19	6.7	17	6.0	6.1

Table F9
 Marriages by County of Marriage and Peer Group*
 by Number and Rate†
 Kansas, 2013-2017

County of Marriage	2013		2014		2015		2016		2017		5-Year Rate
	Number	Rate									
Lyon	190	5.7	186	5.6	193	5.8	199	5.9	197	5.9	5.8
McPherson	175	5.9	199	6.8	175	6.0	179	6.2	160	5.6	6.1
Marion	67	5.5	60	4.9	52	4.3	57	4.7	52	4.3	4.8
Marshall	71	7.1	59	5.9	47	4.7	64	6.5	50	5.1	5.9
Meade	21	4.8	23	5.3	21	4.8	19	4.5	21	4.9	4.9
Miami	227	6.9	231	7.0	215	6.6	209	6.3	216	6.5	6.7
Mitchell	42	6.6	44	7.0	37	5.9	26	4.2	28	4.6	5.7
Montgomery	189	5.5	203	6.0	199	6.0	209	6.4	174	5.3	5.8
Morris	34	5.9	45	7.9	41	7.3	30	5.4	30	5.5	6.4
Morton	17	5.4	12	3.9	11	3.7	16	5.6	16	5.8	4.8
Nemaha	61	6.0	98	9.7	75	7.3	63	6.2	60	5.9	7.0
Neosho	99	6.0	115	7.0	98	6.0	100	6.2	108	6.7	6.4
Ness	14	4.6	11	3.5	8	2.7	14	4.7	18	6.3	4.3
Norton	36	6.4	36	6.5	34	6.1	28	5.1	31	5.7	6.0
Osage	78	4.8	87	5.5	69	4.4	67	4.2	65	4.1	4.6
Osborne	18	4.7	15	4.0	19	5.2	22	6.0	20	5.5	5.1
Ottawa	25	4.1	20	3.3	24	4.0	29	4.9	26	4.4	4.2
Pawnee	29	4.2	42	6.1	47	6.9	35	5.2	27	4.0	5.3
Phillips	28	5.1	29	5.2	31	5.7	26	4.8	30	5.6	5.3
Pottawatomie	91	4.0	104	4.5	83	3.6	113	4.8	112	4.7	4.3
Pratt	55	5.6	60	6.1	61	6.3	45	4.7	49	5.1	5.6
Rawlins	18	7.0	11	4.3	11	4.4	17	6.7	16	6.4	5.7
Reno	416	6.5	392	6.1	428	6.7	396	6.3	423	6.8	6.5
Republic	28	5.8	23	4.8	26	5.5	30	6.4	23	4.9	5.5
Rice	38	3.8	36	3.6	41	4.1	56	5.7	55	5.7	4.6
Riley	740	9.8	731	9.7	768	10.2	766	10.4	692	9.3	9.9
Rooks	32	6.2	20	3.9	24	4.6	28	5.5	32	6.3	5.3
Rush	8	2.5	18	5.6	13	4.2	12	3.9	8	2.6	3.8
Russell	35	5.0	50	7.2	33	4.7	19	2.7	48	6.9	5.3
Saline	333	6.0	335	6.0	324	5.8	353	6.4	324	5.9	6.0
Scott	29	5.8	26	5.1	31	6.2	19	3.8	41	8.3	5.8
Sedgwick	3,176	6.3	3,207	6.3	3,308	6.5	3,227	6.3	3,209	6.2	6.3
Seward	193	8.3	178	7.6	177	7.6	192	8.5	157	7.1	7.8
Shawnee	1,037	5.8	1,066	6.0	1,072	6.0	1,077	6.0	995	5.6	5.9
Sheridan	6	2.4	13	5.1	7	2.8	9	3.6	12	4.7	3.7
Sherman	42	6.9	40	6.5	44	7.4	21	3.5	41	6.9	6.2
Smith	22	5.9	24	6.4	19	5.1	18	5.0	18	4.9	5.5
Stafford	22	5.0	22	5.1	26	6.1	22	5.2	21	5.0	5.3
Stanton	15	6.8	8	3.8	19	9.2	30	14.5	20	9.7	8.8
Stevens	35	6.0	23	4.0	20	3.4	27	4.8	36	6.4	4.9
Sumner	168	7.1	186	7.9	175	7.4	156	6.7	140	6.0	7.0
Thomas	51	6.4	58	7.4	68	8.6	75	9.5	39	5.0	7.4
Trego	15	5.0	18	6.2	21	7.2	19	6.6	20	6.9	6.4
Wabaunsee	35	5.0	38	5.4	36	5.2	48	7.0	46	6.7	5.8
Wallace	18	11.5	15	10.0	18	11.9	6	4.0	4	2.6	8.0
Washington	43	7.6	36	6.4	38	6.8	39	7.0	42	7.7	7.1
Wichita	12	5.5	12	5.5	19	8.8	12	5.7	11	5.2	6.1
Wilson	58	6.4	59	6.5	38	4.3	42	4.8	41	4.7	5.4
Woodson	21	6.5	17	5.4	25	8.0	11	3.5	25	7.9	6.3
Wyandotte	1,130	7.0	1,119	6.9	1,157	7.1	1,354	8.3	1,340	8.1	7.5
n.s.	1	n/a	0	n/a	0	n/a	0	n/a	0	n/a	n/a
Peer Group											
Frontier	662	5.9	611	5.5	600	5.4	583	5.4	588	5.4	5.5
Rural	1,340	5.7	1,375	5.9	1,302	5.6	1,244	5.4	1,272	5.5	5.6
Densely -Settled Rural	2,916	6.1	2,910	6.1	2,786	5.9	2,912	6.2	2,691	5.8	6.0
Semi-Urban	3,453	7.4	3,415	7.4	3,466	7.5	3,460	7.5	3,328	7.3	7.4
Urban	8,956	5.6	9,344	5.8	9,441	5.8	9,749	6.0	9,395	5.7	5.8

* 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, 2013-2017

County of Action	Year										5-Year Rate
	2013		2014		2015		2016		2017		
	Number	Rate									
Kansas	9,085	3.1	8,441	2.9	8,036	2.8	7,198	2.5	6,494	2.2	2.7
Allen	30	2.3	32	2.5	26	2.0	43	3.4	28	2.2	2.5
Anderson	25	3.2	30	3.8	26	3.3	35	4.5	46	5.9	4.1
Atchison	56	3.3	34	2.1	36	2.2	29	1.8	29	1.8	2.2
Barber	18	3.6	22	4.5	10	2.1	7	1.5	10	2.2	2.8
Barton	60	2.2	66	2.4	73	2.7	74	2.8	72	2.7	2.6
Bourbon	60	4.0	35	2.4	50	3.4	55	3.8	48	3.3	3.4
Brown	22	2.2	21	2.1	17	1.7	12	1.2	22	2.3	1.9
Butler	143	2.2	129	1.9	148	2.2	141	2.1	132	2.0	2.1
Chase	3	1.1	4	1.5	9	3.4	1	0.4	1	0.4	1.3
Chautauqua	9	2.5	3	0.9	10	2.9	9	2.7	9	2.7	2.3
Cherokee	68	3.2	73	3.5	72	3.5	64	3.2	40	2.0	3.1
Cheyenne	10	3.7	6	2.2	7	2.6	6	2.3	9	3.4	2.8
Clark	5	2.3	1	0.5	5	2.4	2	1.0	4	2.0	1.6
Clay	25	3.0	13	1.6	26	3.1	19	2.3	17	2.1	2.4
Cloud	32	3.4	35	3.7	25	2.7	44	4.8	27	3.0	3.5
Coffey	85	10.1	75	8.9	115	13.7	103	12.2	137	16.7	12.3
Comanche	4	2.0	2	1.0	5	2.7	0	0.0	4	2.2	1.6
Cowley	160	4.4	144	4.0	143	4.0	104	2.9	97	2.7	3.6
Crawford	109	2.8	96	2.4	112	2.9	84	2.1	77	2.0	2.4
Decatur	5	1.7	4	1.4	8	2.7	9	3.2	6	2.1	2.2
Dickinson	79	4.0	82	4.2	81	4.2	67	3.5	73	3.9	4.0
Doniphan	16	2.0	21	2.7	18	2.3	11	1.4	5	0.6	1.8
Douglas	235	2.1	212	1.8	197	1.7	161	1.3	187	1.5	1.7
Edwards	14	4.8	9	3.0	14	4.7	14	4.8	8	2.8	4.0
Elk	6	2.3	10	3.7	4	1.5	2	0.8	7	2.8	2.2
Ellis	66	2.3	57	2.0	69	2.4	50	1.7	53	1.8	2.0
Ellsworth	33	5.2	43	6.7	42	6.6	37	5.8	39	6.2	6.1
Finney	78	2.1	62	1.7	77	2.1	99	2.7	76	2.0	2.1
Ford	128	3.7	94	2.7	81	2.3	79	2.3	83	2.4	2.7
Franklin	114	4.4	97	3.8	76	3.0	65	2.5	52	2.0	3.2
Geary	367	9.8	291	7.9	341	9.2	358	10.1	323	9.5	9.3
Gove	4	1.4	9	3.3	5	1.9	5	1.9	7	2.7	2.2
Graham	8	3.1	9	3.5	3	1.2	10	3.9	7	2.8	2.9
Grant	20	2.5	21	2.7	22	2.8	18	2.4	15	2.0	2.5
Gray	14	2.3	14	2.3	13	2.1	13	2.2	8	1.3	2.1
Greeley	5	3.9	4	3.1	4	3.0	4	3.1	1	0.8	2.8
Greenwood	6	0.9	13	2.1	10	1.6	7	1.1	4	0.7	1.3
Hamilton	9	3.4	7	2.7	7	2.8	10	3.9	4	1.5	2.9
Harper	14	2.4	10	1.7	18	3.1	22	3.9	19	3.4	2.9
Harvey	90	2.6	88	2.5	116	3.3	76	2.2	72	2.1	2.5
Haskell	4	1.0	5	1.2	7	1.7	5	1.2	8	2.0	1.4
Hodgeman	8	4.1	6	3.1	4	2.1	3	1.6	6	3.3	2.9
Jackson	26	1.9	22	1.6	13	1.0	20	1.5	11	0.8	1.4
Jefferson	38	2.0	25	1.3	16	0.8	15	0.8	41	2.2	1.4
Jewell	20	6.6	13	4.3	9	3.0	10	3.4	7	2.5	4.0
Johnson	1,317	2.3	1,229	2.1	939	1.6	805	1.4	760	1.3	1.7
Kearny	11	2.8	13	3.3	9	2.3	11	2.8	6	1.5	2.5
Kingman	35	4.5	15	1.9	19	2.5	19	2.5	16	2.2	2.7
Kiowa	1	0.4	3	1.2	4	1.6	7	2.8	2	0.8	1.4
Labette	52	2.5	44	2.1	57	2.7	48	2.3	47	2.3	2.4
Lane	7	4.1	11	6.5	10	6.0	6	3.7	8	5.1	5.1
Leavenworth	277	3.5	261	3.3	244	3.1	225	2.8	210	2.6	3.1
Lincoln	11	3.5	11	3.5	8	2.6	8	2.6	9	3.0	3.0
Linn	37	3.9	28	2.9	36	3.8	32	3.3	41	4.2	3.6
Logan	17	6.1	7	2.5	4	1.4	8	2.8	5	1.8	2.9

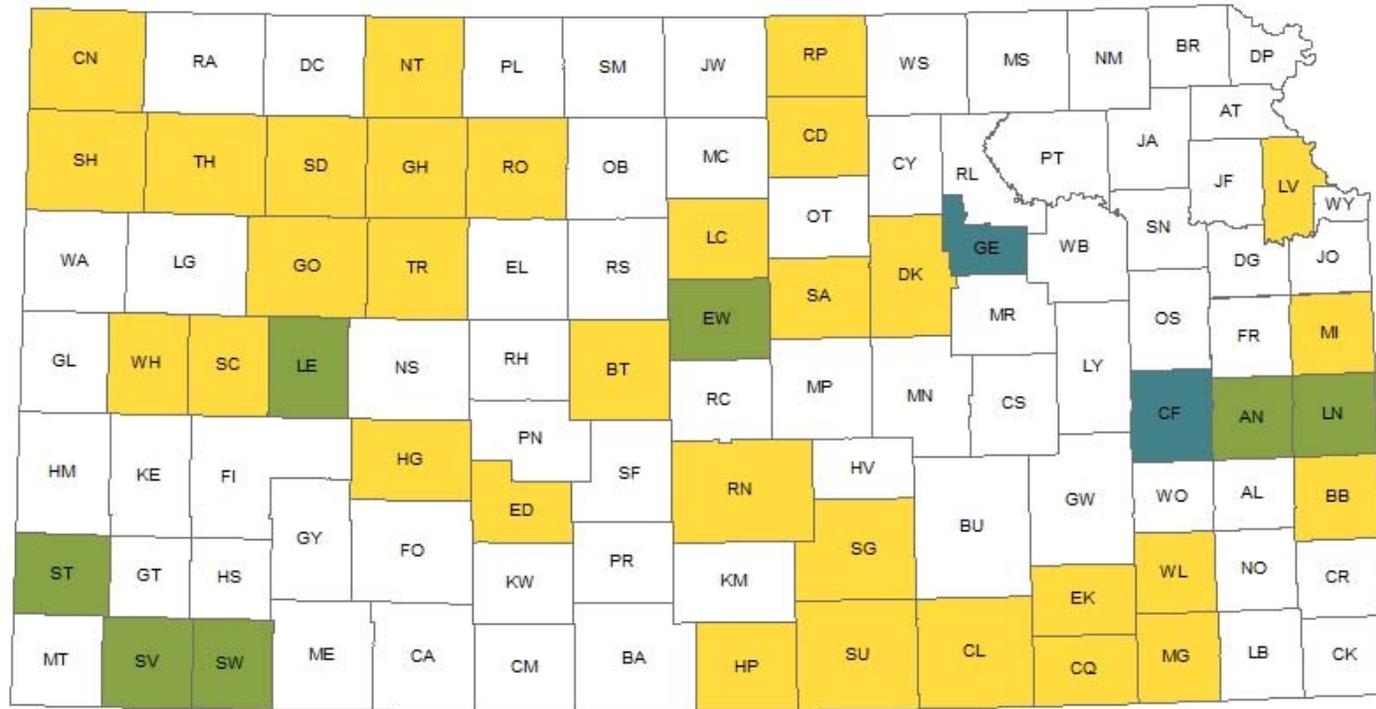
Table F10
 Marriage Dissolutions by County of Action and Peer Group*
 by Number and Rate†
 Kansas, 2013-2017

County of Action	Year										5-Year Rate
	2013		2014		2015		2016		2017		
	Number	Rate									
Lyon	53	1.6	65	2.0	91	2.7	69	2.1	48	1.4	2.0
McPherson	84	2.8	74	2.5	72	2.5	67	2.3	51	1.8	2.4
Marion	21	1.7	18	1.5	20	1.7	16	1.3	15	1.3	1.5
Marshall	26	2.6	26	2.6	24	2.4	27	2.7	15	1.5	2.4
Meade	10	2.3	9	2.1	9	2.1	9	2.1	10	2.3	2.2
Miami	107	3.3	111	3.4	97	3.0	90	2.7	110	3.3	3.1
Mitchell	21	3.3	17	2.7	19	3.0	11	1.8	10	1.6	2.5
Montgomery	146	4.3	127	3.7	113	3.4	114	3.5	102	3.1	3.6
Morris	14	2.4	14	2.5	8	1.4	13	2.3	12	2.2	2.2
Morton	10	3.2	10	3.2	6	2.0	3	1.1	4	1.5	2.2
Nemaha	20	2.0	9	0.9	19	1.9	15	1.5	15	1.5	1.5
Neosho	41	2.5	29	1.8	42	2.6	30	1.9	28	1.7	2.1
Ness	7	2.3	17	5.5	8	2.7	14	4.7	7	2.4	3.5
Norton	31	5.5	28	5.0	37	6.7	15	2.7	21	3.9	4.8
Osage	62	3.8	64	4.0	45	2.8	41	2.6	39	2.5	3.2
Osborne	9	2.4	6	1.6	6	1.6	7	1.9	6	1.7	1.8
Ottawa	15	2.5	11	1.8	13	2.2	19	3.2	9	1.5	2.2
Pawnee	27	3.9	17	2.5	26	3.8	17	2.5	13	1.9	2.9
Phillips	17	3.1	15	2.7	13	2.4	12	2.2	8	1.5	2.4
Pottawatomie	64	2.8	47	2.1	35	1.5	31	1.3	22	0.9	1.7
Pratt	37	3.7	31	3.1	21	2.2	24	2.5	16	1.7	2.7
Rawlins	7	2.7	8	3.1	8	3.2	6	2.4	6	2.4	2.8
Reno	231	3.6	213	3.3	181	2.8	132	2.1	157	2.5	2.9
Republic	17	3.5	11	2.3	15	3.2	17	3.6	13	2.8	3.1
Rice	17	1.7	20	2.0	11	1.1	23	2.3	14	1.4	1.7
Riley	309	4.1	228	3.0	215	2.9	156	2.1	178	2.4	2.9
Rooks	11	2.1	15	2.9	8	1.5	6	1.2	14	2.8	2.1
Rush	9	2.8	10	3.1	8	2.6	8	2.6	4	1.3	2.5
Russell	24	3.5	20	2.9	19	2.7	15	2.1	12	1.7	2.6
Saline	246	4.4	214	3.8	196	3.5	187	3.4	187	3.4	3.7
Scott	14	2.8	15	3.0	11	2.2	17	3.4	13	2.6	2.8
Sedgwick	2,222	4.4	2,247	4.4	2,148	4.2	1,789	3.5	1,429	2.8	3.9
Seward	97	4.1	91	3.9	89	3.8	70	3.1	94	4.2	3.8
Shawnee	417	2.3	367	2.1	360	2.0	456	2.6	296	1.7	2.1
Sheridan	1	0.4	4	1.6	4	1.6	2	0.8	7	2.8	1.4
Sherman	20	3.3	26	4.3	26	4.3	24	4.0	23	3.9	4.0
Smith	5	1.3	11	2.9	6	1.6	6	1.7	8	2.2	1.9
Stafford	9	2.1	8	1.9	6	1.4	5	1.2	9	2.1	1.7
Stanton	6	2.7	3	1.4	10	4.8	6	2.9	11	5.3	3.4
Stevens	19	3.3	23	4.0	36	6.2	19	3.4	23	4.1	4.2
Sumner	71	3.0	75	3.2	58	2.5	76	3.3	61	2.6	2.9
Thomas	31	3.9	36	4.6	27	3.4	26	3.3	22	2.8	3.6
Trego	9	3.0	4	1.4	4	1.4	5	1.7	10	3.5	2.2
Wabaunsee	19	2.7	17	2.4	12	1.7	9	1.3	7	1.0	1.8
Wallace	2	1.3	5	3.3	2	1.3	3	2.0	3	2.0	2.0
Washington	13	2.3	13	2.3	12	2.1	4	0.7	8	1.5	1.8
Wichita	7	3.2	5	2.3	3	1.4	4	1.9	6	2.8	2.3
Wilson	31	3.4	32	3.5	34	3.8	26	3.0	23	2.7	3.3
Woodson	8	2.5	7	2.2	9	2.9	4	1.3	5	1.6	2.1
Wyandotte	295	1.8	297	1.8	294	1.8	282	1.7	255	1.5	1.7
n.s.	0	n/a	n/a								
Peer Group											
Frontier	303	2.7	308	2.8	263	2.4	247	2.3	252	2.3	2.5
Rural	768	3.3	690	2.9	752	3.2	688	3.0	669	2.9	3.1
Densely -Settled Rural	1,389	2.9	1,236	2.6	1,244	2.6	1,142	2.4	1,046	2.2	2.6
Semi-Urban	1,862	4.0	1,594	3.4	1,595	3.4	1,403	3.1	1,390	3.0	3.4
Urban	4,763	3.0	4,613	2.9	4,182	2.6	3,718	2.3	3,137	1.9	2.5

* See Technical Notes for Peer Group definition.

† Rate per 1,000 population

Marriage Dissolution Rates by County of Occurrence Kansas, 2017



Marriage Dissolutions per 1,000 population

State Rate: 2.2

Legend



Figure F8

TECHNICAL NOTES

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Revisions and Updates

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)
A. VITAL EVENTS		
A1	1	Selected Vital Events and Percent Change, Kansas, 2015, 2014, and 1996
A1	1	Every Day During 2015
A2	2	Kansas Vital Events for 2015
A2	2	Selected Vital Event Rates, Kansas, 1996-2015
A3	3	Selected Vital Event Rates, Kansas, 1996-2015
A3	3	Selected Vital Events by Population Group, Kansas, 2015
B. POPULATION		
B1	NEW	Population by Year and by Sex, Kansas, 1966-2015
B1	4	Total Population, Kansas, 1996-2015 (in Thousands)
B2	5	Rate of Natural Increase, Kansas, 1996-2015
B3	6	Median Age, Kansas, 1996-2015
B4	8	Population Density, Kansas and the U.S., 1996-2015
B2	6	Population by Nine Selected Age-Groups and Sex, Kansas, 1996_2015 (in Thousands)
B3	7	Population by 11 Selected Age-Groups, by Population Group and Sex, Kansas, 2015
B5	7	Percent Change in Age-Group population, Both Sexes, Kansas, 1996-2015
B4	4	Population by County and Peer Group, by Population Group, Kansas, 2015
B6	9	Population Density by County of Residence, Kansas, 2015 [MAP]
B5	8	Population by County of Residence and Peer Group, by Population Group, Kansas, 2015
B6	5	City Population, Kansas, 2011-2015
C. LIVE BIRTHS AND FERTILITY		
C1	11	Birth Rates, Kansas and the U.S., 1912-2015
C1	10	Birth Rates, Kansas and the U.S., 1912-2015
C2	11	Fertility Rates, Kansas and the U.S., 1995-2015
C3	12	Age-Specific Fertility Rates by Year by Age-Group of Mother, Kansas, 2011-2015
C2	12	Age-Specific Fertility Rates by Age-Group of Mother, Kansas, 1996-2015
C3	13	Live Births by Age-Group of Mother by Sex of Infant, Kansas, 2015

C4	14	Live Births by Age-Group of Father by Age-Group of Mother, Kansas, 2015
C5	24	Live Births by Age-Group of Mother by Birth Weight in Grams, Kansas, 2015
C4	15	Live Births by Birth Order, Kansas, 2015
C6	25	Live Births by Birth Order by Age-Group of Mother, Kansas, 2015
C7	26	Live Births by Population Group of Mother by Trimester Prenatal Care Began, Kansas, 2015
C8	27	Live Births by Population Group of Mother by Birth Weight in Grams, Kansas, 2015
C9	28	Live Births by Population Group of Mother by Final Route of Delivery, Kansas, 2015
C10	9	Live Births by County of Residence and Peer Group, by Number and Rate, Kansas, 2015
C5	13	Birth Rates by County of Residence, Kansas, 2015 [MAP]
C11	15	Live Births by County of Residence and Peer Group by Age-Group of Mother, Kansas, 2015
C12	16	Live Births by County of Residence and Peer Group by Weeks Gestation, Kansas, 2015
C13	17	Live Births by County of Residence and Peer Group by Month Prenatal Care Began, Kansas, 2015
C14	18	Live Births by County of Residence and Peer Group by Adequacy of Prenatal Care Utilization (APNCU) Index, Kansas, 2015
C15	19	Live Births by County of Residence and Peer Group by Birth Weight in Grams, Kansas, 2015
C16	20	Live Births by County of Residence and Peer Group by Initiation of Breastfeeding, Kansas, 2015
C17	21	Live Births by County of Residence and Peer Group by Mother's Reported Cigarette Use, Kansas, 2015
C6	14	Percent of Maternal Cigarette Use During Pregnancy by County of Residence, Kansas, 2015 [MAP]
C18	22	Live Births by County of Residence and Peer Group by Birth Weight Category for Gestational Age, Kansas, 2015
C19	23	Mother's Weight Gain in Pregnancy for Singleton Births, by County of Residence and Peer Group, Kansas, 2015
C20	29	Live Births by County of Residence and Peer Group by Population Group of Mother, Kansas, 2015
C21	10	Live Births by Selected City of Residence, by Number and Rate, Kansas, 2011-2015
C7	16	Out-of-Wedlock Birth Ratios, Kansas and the U.S., 1919-2015
C22	30	Out-of-Wedlock Births by County of Residence and Peer Group by Age-Group and Population Group of Mother
C23	31	Teenage Pregnancy Numbers and Rates by Year by Selected Age-Groups, Kansas, 996-2015
C8	19	Teenage Pregnancy Rates by Age-Group, Kansas, 1996-2015
C9	17	Teen and Non-Teen Live Births: Percent Distribution by Month Prenatal Care Began, Kansas, 2015
C10	18	Teenage Live Births by Population Group, Kansas, 2015
C24	32	Teenage Pregnancy Numbers and Rates by Year for Selected Population Groups and Age-Groups, Kansas, 2011-2015
C25	33	Teenage Pregnancies by County of Residence and Peer Group by Age-Group and Component, Kansas, 2015

C26	34	Teenage Pregnancies for 10-17 Year Olds by County of Residence and Peer Group, by Component, Kansas, 2015
D. FETAL AND INFANT MORTALITY		
D1	45	Stillbirths by Cause of Death and Weeks Gestation, Kansas, 2015
D1	20	Stillbirths by Selected Characteristics, Kansas, 2015
D2	35	Stillbirths by County of Residence and Peer Group, by Age-Group of Mother, Kansas, 2105
D3	36	Total Reported Abortions and Ratios of Abortions to Live Births, Kansas, 1971-2015
D2	21	Ratios of Abortions to Live Births, Kansas, 1971-2015
D3	22	Ratios of Abortions to Live Births by Age-Group of Patient, Kansas, 1996 and 2015
D4	38	Total Reported Abortions by Selected Characteristics by Age-Group of Patient, Kansas, 2015
D5	39	Kansas Resident Abortions by Selected Characteristics, Kansas, 2015
D4	23	Reported Abortions by Selected Characteristics
D6	40	Total Reported Abortions by Population Group by Marital Status, Kansas, 2015
D7	41	Total Reported Abortions by Population Group by Weeks Gestation
D5	24	Total Reported Abortions by Termination Procedure by Weeks Gestation, Kansas, 2015
D8	42	Total Reported Abortions by Termination Procedure by Weeks Gestation, Kansas, 2015
D9	37	Abortions by County of Residence and Peer Group, by Age-Group of Mother, Kansas, 2015
D10	46	Perinatal Period III Deaths by Component, Kansas, 1996-2016
D11	47	Perinatal Period III Deaths by County of Residence by Component, Kansas, 2015
D12	48	Infant Mortality Rates by Population Group, Kansas, 1996-2015
D6	27	Infant Mortality Rates by Population Group, Five Year Rolling Averages, Kansas, 1991-2015
D13	50	Infant Deaths by Cause of Death by Age-Group of Infant, Kansas, 2015
D7	28	Infant Deaths for Three Age Subgroups, Kansas, 1996-2015
D8	29	Pregnancy Associated Deaths [this is moms]
D14	49	Infant Deaths by County of Residence and Peer Group, by Year of Death, Kansas, 2011-2015
D15	D15	Infant Deaths by County of Residence and Peer Group, by Component, Kansas, 2015
E. GENERAL MORTALITY		
E1	NEW	Deaths by Year and by Population Group, by Number, Crude and Age-Adjusted Rate, Kansas, 2011-2015
E1	26	Crude Death Rates, Kansas and the U.S., 1912-2015
E2	52	Age-Specific Death Rates by Sex, Kansas, 1996-2015
E2	30	Age-Adjusted Death Rates, Kansas and the U.S., 1996-2015
E3	53	Age-Adjusted Death Rates by Sex, Kansas and the U.S., 1996-2015
E4	56	Deaths by Population Group and Sex, by Age-Group and Average Age at Death, Kansas, 2015
E5	57	Ten Leading Causes of Death by Population Group and Sex of Decedent, Kansas, 2015
E6	58	Selected Causes of Death by Age-Group and Average Age at Death, Kansas, 2015

E7	59	Ten Leading Causes of Death, Number, Rate and Average Age at Death, by Sex, Kansas, 2015
E8	60	Death Rates, Age-Adjusted Death Rates and 95% Confidence Intervals for Selected leading Causes of Death, Kansas, 2014-2015
E3	31	Death Rates for Selected Leading Causes of Death, Kansas, 1996-2015
E4	32	Leading Causes of Death by Age-Group, Kansas, 2015
E9	61	Pneumonia and Influenza Mortality, Number and Age-Adjusted Rates, Kansas Residents, 1999-2015
E5	33	Pneumonia and Influenza Deaths by Month and Five-Year Median for Month, Kansas Residents, 2015
E10	62	Heart Disease Deaths by Component and Sex of Decedent, by Age-Group of Decedent, Kansas, 2015
E11	63	Malignant Neoplasm Deaths by Site of Lesion and Sex of Decedent, by Age-Group of Decedent, Kansas, 2015
E12	64	Cerebrovascular Disease Deaths by Component and Sex of Decedent, by Age-Group of Decedent, Kansas, 2015
E13	65	Unintentional Injury Deaths by Component and Sex of Decedent, by Age-Group of decedent, Kansas, 2015
E14	66	Selected External Causes of Death by Injury Matrix Group and Intent, Kansas, 2015
E15	NEW	Work-related injury deaths by Occupation/Industry of Decedent, Kansas, 2015
E16	67	Selected Chronic Disease Deaths by Component and Sex of Decedent, by Age-Group of Decedent, Kansas, 2006- 2015
E17	NEW	Diabetes Mellitus as Underlying and Contributing Cause of Death, Kansas, 2015
E18	68	Deaths by Occupation of Decedent by Selected Causes of Death, Kansas, 2015
E19	69	Deaths by Industry of Decedent by Selected Causes of Death, Kansas, 2015
E20	70	Selected Causes of Death and Years of Potential Life Lost (YPLL) Before Age 75, Kansas, 2015
E6	34	Percent Years of Potential Life Lost before Age 75
E21	72	Deaths from 39 Selected Causes by Number and Percent and Sex of Decedent Related to Tobacco, Kansas, 2015
E22	73	Deaths from 39 Selected Causes and Sex by Age-Group of Decedent
E23	43	Deaths by County of Residence and Peer Group, by Number, Crude and Age-Adjusted Rate, Kansas, 2011-2015
E7	25	Age-Adjusted Death Rates by County of Residence, Kansas, 2015 [MAP]
E24	54	Deaths by County of Residence and Peer Group, by Age-Group and Average Age at Death, Kansas, 2015
E25	55	Deaths by County of Residence and Peer Group, by Population Group, Kansas, 2015
E26	71	Deaths by County of Residence and Peer Group, by Number and Percent Related to Tobacco, Kansas, 2015
E27	74	Selected Causes of Death by County of Residence and Peer Group, Kansas, 2015
E28	44	Deaths by Selected City of Residence, by Number and Crude Rate, Kansas, 2011-2015
F. MARRIAGES AND MARRIAGE DISSOLUTIONS		
F1	NEW	Marriage and Marriage Dissolution Numbers and Rates by Year of Occurrence, Kansas, 1966-2015
F1	37	Marriage Rates, Kansas and the U.S., 1913-2015

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

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”.¹

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.²

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.³

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.⁴

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

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 75.⁵ 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 changes 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 1997.⁶ 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.

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

The 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.⁷ 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].⁸ Death data from 1999 forward are classified by ICD-10, and trends in mortality will be comparable. Such data trends are not comparable if the statistics bridge 1998-1999.

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

Age-Adjusted Death Rates

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

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

Comparing Age-Adjusted Death Rates

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

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

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

$$\begin{aligned} R_1 &= \text{the first rate} \\ R_2 &= \text{the second rate} \\ N_1 &= \text{the first number of events} \\ N_2 &= \text{the second number of events} \end{aligned}$$

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:⁹

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".¹⁰

Infants born small for gestational age but constitutionally normal may represent 40% or more of the SGA infants at term.¹¹ However, "In early preterm gestations, the definition of SGA may be justified as a proxy for IUGR".¹² 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.¹³

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).¹⁴

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 (fetus weighs over 350 grams) 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 pages.stern.nyu.edu/~dbackus/BCH/ms/Espen_lifeexpectancy.pdf .
Years of Potential Life Lost (YPLL75):	A measurement of the number of years of potential life lost by each death occurring before the age of 75.

RATES AND RATIOS

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

Frontier					
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
Rural					
Anderson	Brown	Clay	Cloud	Coffey	Ellsworth
Grant	Gray	Harper	Haskell	Kingman	Linn
Marion	Marshall	Mitchell	Morris	Nemaha	Norton
Ottawa	Pawnee	Phillips	Pratt	Republic	Rice
Russell	Scott	Stevens	Thomas	Wabaunsee	Washington
Wilson	Woodson				
Densely-Settled Rural					
Allen	Atchison	Barton	Bourbon	Cherokee	Cowley
Dickinson	Doniphan	Ellis	Finney	Ford	<i>Jackson</i>
Jefferson	Labette	<i>Lyon</i>	McPherson	Neosho	Osage
Pottawatomie	Seward	Sumner			
Semi-Urban					
Butler	Crawford	Franklin	Geary	Harvey	Miami
Montgomery	Reno	Riley	Saline		
Urban					
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)
25. CAUSE/CONDITIONS CONTRIBUTING TO FETAL DEATH			
25a. INITIATING CAUSE/CONDITION (Among the choices below, please select the <u>one</u> which most likely began the sequence of events resulting in the death of the fetus.)			
Maternal Conditions/Diseases (Specify) _____			
Complications of Placenta, Cord, or Membranes – <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	
<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	
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		43a. MOTHER (Most recent)		43c. MOTHER	
42b. FATHER		43b. FATHER (Usual)		43d. FATHER	
44. EDUCATION (Check the box that best describes the highest degree or level of school completed at the time of delivery.)					
44a. MOTHER'S EDUCATION		44a. FATHER'S EDUCATION			
<input type="checkbox"/> 8 th 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"/> 8 th 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 th - 12 th 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)	
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)	
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)	
45c. DATE OF LAST LIVE BIRTH (Month, Year)		46c. DATE OF LAST OTHER PREGNANCY OUTCOME (Month, Year)		50. OBSTETRIC ESTIMATE OF GESTATION (Completed Weeks)	
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 smoked per day . If none, enter "0". Average number of cigarettes or packs of cigarettes smoked per day : No. No. Three months before pregnancy: _____ cigarettes or _____ packs First three months of pregnancy: _____ cigarettes or _____ packs Second three months of pregnancy: _____ cigarettes or _____ packs Third Trimester of pregnancy: _____ cigarettes or _____ packs			57. PRINCIPAL SOURCE OF PAYMENT FOR THIS DELIVERY <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>59. NUTRITION OF MOTHER</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>60. MEDICAL RISK FACTORS (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>61. METHOD OF DELIVERY</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>62. MATERNAL MORBIDITY (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>63. INFECTIONS PRESENT AND/OR TREATED (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>64. CONGENITAL ANOMALIES OF THE NEWBORN (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: _____ 1st _____ 2nd _____ 3rd (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)	

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.)		40. PARENT'S RACE (Check one or more races to indicate what you consider yourself to be.)					
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		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)		42c. MOTHER			
41b. FATHER		42b. FATHER (Usual)		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		43b. FATHER'S EDUCATION					
<input type="checkbox"/> 8 th 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 th - 12 th 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)		46. PRENATAL CARE? <input type="checkbox"/> Yes <input type="checkbox"/> No			
44a. Now living Number _____ <input type="checkbox"/> None	44b. Now dead Number _____ <input type="checkbox"/> None	45a. Before 20 weeks Number _____ <input type="checkbox"/> None	45b. 20 weeks & over Number _____ <input type="checkbox"/> None	47. DATE OF FIRST PRENATAL CARE VISIT (Month, Day, Year)			
44c. DATE OF LAST LIVE BIRTH (Month, Year)		45c. DATE OF LAST OTHER PREGNANCY OUTCOME (Month, Year)		48. DATE OF LAST PRENATAL CARE VISIT (Month, Day, Year)			
49. PRENATAL VISITS-Total Number (If none, enter "0")		50. DATE LAST NORMAL MENSES BEGAN (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		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 per day during each time period. If none, enter "0". Average number of cigarettes or packs of cigarettes smoked per day for each period: No. No. Three months before pregnancy: _____ cigarettes or _____ packs First three months of pregnancy: _____ cigarettes or _____ packs Second three months of pregnancy: _____ cigarettes or _____ packs Third Trimester of pregnancy: _____ cigarettes or _____ packs					
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				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) FACILITY TRANSFERRED FROM:				62. INFANT TRANSFERRED (Within 24 hours of delivery) <input type="checkbox"/> Yes <input type="checkbox"/> No (If yes, enter facility name) FACILITY TRANSFERRED TO:			

CHILD'S NAME _____

MOTHER'S NAME _____

PRENATAL (Birth)	LABOR-DELIVERY/NEWBORN				
63. NUTRITION OF MOTHER 1. Height _____ 2. Prepregnancy Weight _____ 3. Weight at delivery _____ 4. Did mother get WIC food for herself? Yes _____ No _____ Unknown _____	66. OBSTETRICAL PROCEDURES (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	70. INFECTIONS PRESENT AND/OR TREATED (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			
	64. MEDICAL RISK FACTORS (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	67. ONSET OF LABOR (Check all that apply.) 1. <input type="checkbox"/> Premature Rupture of the Membranes (prolonged, ≥ 12 hours) 2. <input type="checkbox"/> Precipitous Labor (< 3 hrs) 3. <input type="checkbox"/> Prolonged Labor (≥ 20 hrs) 4. <input type="checkbox"/> None of the above	71. ABNORMAL CONDITIONS OF NEWBORN (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		
65. METHOD OF DELIVERY 1. Forceps attempted? Yes _____ No _____ Successful Yes _____ No _____ 2. Vacuum extraction attempted? Yes _____ No _____ Successful Yes _____ No _____ 3. Fetal presentation at delivery <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 _____	68. CHARACTERISTICS OF LABOR AND DELIVERY (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 ≥ 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	72. VACCINES ADMINISTERED TO NEWBORN 1. <input type="checkbox"/> Hepatitis B Date Given: _____ 2. <input type="checkbox"/> Other* Specify: _____ Date Given: _____			
	69. MATERNAL MORBIDITY (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	73. APGAR SCORE <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			
		74. CONGENITAL ANOMALIES OF THE NEWBORN (Check all that apply.) 1. <input type="checkbox"/> Anencephaly 2. <input type="checkbox"/> Meningomyelocele/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:</p> <p>_____ 1st _____ 2nd _____ 3rd (Trimester) _____ At Delivery _____ Not Performed</p> <p>If no test made, state reason:</p>	<p>Test required by K.S.A. 65-180 Infant Neonatal Screening specimen taken:</p> <p>_____ Yes _____ No</p> <p>Kit Number _____</p> <p>If no test made, state reason:</p>	<p>Test required by K.S.A. 65-1157A Newborn Hearing Screening Accomplished:</p> <p>_____ Yes _____ No</p>
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Infant's patient number: _____

Infant's Primary Care Physician

First	Middle	Last	Title (MD, DO, etc.)
-------	--------	------	----------------------

<p>If screening accomplished, Date hearing screened _____</p> <p>Month / Day / Year</p>	<p>The results of the hearing screening ✓:</p> <p>Right ear: _____ Pass _____ Refer for further testing Left ear: _____ Pass _____ Refer for further testing</p>
---	--

Physiologic equipment used ✓: _____ OAE _____ AABR _____ ABR

If screening not accomplished, ✓ one reason:

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

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								
13 TERMINATION PROCEDURES									
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 Days	7c. UNDER 1 DAY Hours Minutes	8. PLACE OF BIRTH (City and State or Foreign Country)		
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. _____						_____	
Sequentially list conditions, if any, leading to immediate cause listed on line a. Enter the UNDERLYING CAUSE (disease or injury that initiated the events resulting in death) LAST.						_____	
b. _____						_____	
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</p> <p><input type="checkbox"/> Black or African American</p> <p><input type="checkbox"/> American Indian or Alaska Native (Name of the enrolled or principal tribes)</p> <p>_____</p>	<p><input type="checkbox"/> 8th grade or less</p> <p><input type="checkbox"/> 9th - 12th grade; no diploma</p> <p><input checked="" type="checkbox"/> High school graduate or GED</p> <p><input type="checkbox"/> Some College credit, but no degree</p> <p><input type="checkbox"/> Associate degree (e.g., AA, AS)</p> <p><input type="checkbox"/> Bachelor's degree (e.g., BA, AB, BS)</p> <p><input type="checkbox"/> Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)</p> <p><input type="checkbox"/> Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)</p> <p><input type="checkbox"/> Unknown</p>
<p><input type="checkbox"/> No, not Spanish/Hispanic/Latino</p> <p><input type="checkbox"/> Yes, Mexican/Mexican American/Chicano</p> <p><input type="checkbox"/> Yes, Puerto Rican</p> <p><input type="checkbox"/> Yes, Cuban</p> <p><input type="checkbox"/> Yes, Central American</p> <p><input type="checkbox"/> Yes, South American</p> <p><input type="checkbox"/> Yes, other Spanish/Hispanic/Latino (Specify)</p> <p>_____</p> <p><input type="checkbox"/> Unknown</p>	<p><input type="checkbox"/> Asian Indian</p> <p><input type="checkbox"/> Chinese</p> <p><input type="checkbox"/> Filipino</p> <p><input type="checkbox"/> Japanese</p> <p><input type="checkbox"/> Korean</p> <p><input type="checkbox"/> Vietnamese</p> <p><input type="checkbox"/> Other Asian (Specify)</p> <p>_____</p> <p>_____</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</p> <p><input type="checkbox"/> Guamanian or Chamorro</p> <p><input checked="" type="checkbox"/> Samoan</p> <p><input type="checkbox"/> Other Pacific Islander (Specify)</p> <p>_____</p> <p><input checked="" type="checkbox"/> Other (Specify)</p> <p>_____</p> <p>_____</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 th 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 th - 12 th 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)
46b. BRIDE'S EDUCATION	<input type="checkbox"/> 8 th 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 th - 12 th 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)

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"/> Unknown	<input type="checkbox"/> Other (Specify) _____	<input type="checkbox"/> Unknown

27. EDUCATION (Check the box that best describes the highest degree or level of school completed.)			
27a. HUSBAND'S EDUCATION	<input type="checkbox"/> 8 th grade or less	<input type="checkbox"/> 9 th - 12 th grade; no diploma	<input type="checkbox"/> High school graduate or GED
<input type="checkbox"/> Unknown	<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)	
27b. WIFE'S EDUCATION	<input type="checkbox"/> 8 th grade or less	<input type="checkbox"/> 9 th - 12 th grade; no diploma	<input type="checkbox"/> High school graduate or GED
<input type="checkbox"/> Unknown	<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)	