Kansas

Annual Summary of Vital Statistics, 2016

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

Susan Mosier, MD, Secretary and State Health Officer

Division of Public Health
Bureau of Epidemiology and Public Health Informatics
Farah Ahmed, PhD, MPH, Interim State Epidemiologist and Interim Director
Elizabeth W. Saadi, Ph.D., State Registrar and Deputy Director

Prepared by: David Oakley, MA
Greg Crawford, BA
Cathryn Savage, PhD

Layout and desktop publishing by: Jeanne Jones, BA

Data for this report were collected by:

Office of Vital Statistics
Kay Haug, Director

"Remember to see the faces in the numbers."
---Anonymous

Our Vision – Healthy Kansans living in safe and sustainable environments

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

ANNUAL SUMMARY OF VITAL STATISTICS KANSAS, 2016

Sam Brownback, Governor

Susan Mosier, MD, Secretary
Department of Health and Environment

Prepared by the:
Division of Public Health
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Annual Summary 2016

Introduction

The 2016 *Annual Summary of Vital Statistics* is a general summary of data compiled from vital event records during calendar year 2016. 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 2016 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 2017, the United States Census Bureau (USCB) released its first population estimates for July 1, 2016. Kansas total population was estimated at 2,907,289, down 4,352 from the estimate of Kansas total population for 2015 (2,911,641) released in 2016. Despite appearances, the USCB did *not* estimate that the population of Kansas declined from 2015 to 2016. Instead, it revised its Kansas population estimate for 2015 downwards, to 2,906,721 residents. In light of these revisions, caution should be used when comparing county level populations reported for 2015 to those reported for 2016 (Table B4). [3]

Population Density and Peer Groups

The population density of Kansas was 35.6 inhabitants per square mile in 2016, a 12.3 percent increase from 31.7 persons per square mile in 1997. For comparison, the population density of the U.S. increased from 71.6 to 91.5 persons per square mile from 1997 to 2016, a 27.6 percent increase (Figure B4).

In 2016, 37 of the state's 105 counties had population densities of less than 6.0 persons per square mile. The most sparsely populated county was Wallace, with a density of 1.6 persons per square mile. The most densely populated county was Johnson, with 1,234.6 persons per square mile (Figure B6).

Kansas counties may be assigned to peer groups based on population density. (See the Technical Notes, Appendix 2 for peer group composition.) During the 2012-2016 period, the population of the urban peer group increased by 2.9 percent, while the frontier, rural, densely-

1. Healthy People 2020 [Internet]. Washington: U.S. Department of Health and Human Services; [updated 2017 Aug 10; cited 2017 Aug 10] Available from: http://www.healthypeople.gov/2020/default.aspx.
2. Winnable Battles [Internet]. Atlanta: Centers for Disease Control and Prevention; [updated 2017 Mar 30; cited 2017 Aug 10] Available from: http://www.cdc.gov/winnablebattles/.

3. Oakley D. "Census Bureau Estimates of 2016 Kansas Population Down From Estimates of 2015 Kansas Population Released Last Year. Did the Population of Kansas Actually Decline?" Kansas Health Statistics Report No. 72 (May 2017), pp. 9-10.

settled rural, and semi-urban peer groups decreased by 3.4, 2.0, 1.7, and 1.6 percent, respectively (Table B4).

Natural Increase

In 2016, the rate of natural increase (the birth rate minus the death rate) was 4.1 persons per 1,000 population, a decrease of 4.7 percent from 4.3 per 1,000 population in 2015. Over the past 20 years (1997-2016), the rate of natural increase has fluctuated between a maximum of 6.3 persons per 1,000 population (2007) and a minimum of 4.1 persons per 1,000 population (2016) (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.

Median Age

The median age of Kansans in 2016 was 36.5 years, a 4.3 percent increase from the median age of 35.0 in 1997. The median ages of Kansas males and females in 2016 were 35.3 and 37.8 respectively (Figure B3, Table B2).

Population Characteristics

The percent increase in the Kansas total population from 1997-2016 was 12.0 percent, including a 13.3 percent increase for Kansas males and an 10.9 percent increase for Kansas females. Shifts in the Kansas population distribution by age from 1997 to 2016 included a decrease in the 35-44 age group of 18.0 percent. An increase of 11.7 percent in residents 45-54 years of age, 79.7 percent in residents 55-64 years of age, and 36.9 percent in residents 65-74 years of age reflected the aging of the baby boomers.[4] Furthermore, there were 8.4, 4.2, 10.9, 8.1, and 11.0 percent increases in the 0-4, 5-14, 15-24, 25-34, and 75 and over age-groups respectively (Figure B5, Table B2).

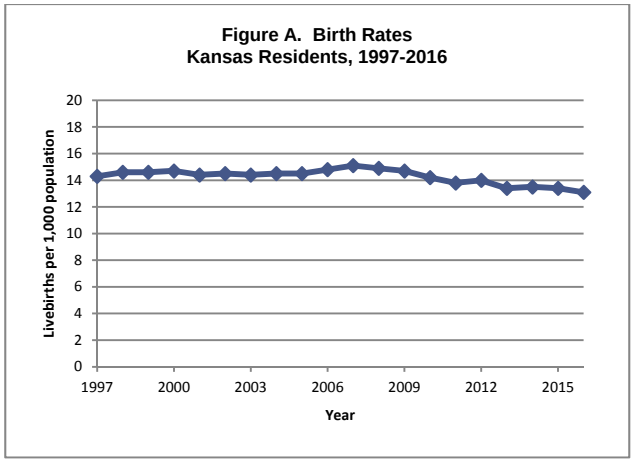
According to the 2016 Census Bureau estimates, 76.3 percent of Kansans were White non-Hispanic and 5.8 percent were Black non-Hispanic. Hispanics made up 11.6 percent of Kansas' population (Tables B3 and B5).

Live Births and Fertility

During 2016, there were 38,048 live births to residents of Kansas. This was a decrease of 2.8 percent from the 39,126 births reported in 2015. The birth rate decreased 2.2 percent, from 13.4 births per 1,000 population in 2015 to 13.1 births per 1,000 population in 2016 (Table C10).

The 2016 birth rate (13.1) 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 2013 and 2015 (13.4), 2014 (13.5), 2011 (13.8), and 1973 (13.9) (Figure C1).

Over the past 20 years (1997-2016), the Kansas birth rate has fluctuated between a peak of 15.1 births per 1,000 population (reported in 2007) and a low of 13.1 births per 1,000 population (reported in 2016) (Figure A). Recent low birth rates follow a sustained decline from 2008 to 2011 (Table C1, Figure C1).



Population Group Statistics

In 2016, there were 26,786 births to resident White non-Hispanic mothers, a decrease of 3.4 percent from the 27,717 births reported in 2015.

4. The common definition of 1946-1964 for the baby boom years implies that in 2016, baby boomers were between 52 and 70 years of age.

The birth rate for White non-Hispanic mothers decreased 3.2 percent, from 12.5 births per 1,000 population in 2015 to 12.1 births per 1,000 population in 2016 (Table A3, Table C20).

There were 6,300 births to Hispanic mothers in 2016, an increase of 0.2 percent from the 6,290 births reported in 2015. The birth rate for Hispanic mothers decreased 0.5 percent, from 18.7 births per 1,000 population in 2015 to 18.6 births per 1,000 population in 2016.

There were 2,494 births to Black non-Hispanic mothers in 2016, a decrease of 3.5 percent from the 2,585 births reported in 2015. The birth rate for Black non-Hispanic mothers decreased 1.3 percent, from 15.0 births per 1,000 population in 2015 to 14.8 births per 1,000 population in 2016 (Table A3, Table C20).

Fertility Rates

The number of Kansas females in the main child-bearing age bracket (ages 15-44) was 558,638 in 2016, down 3.1 percent from 576,703 in 1998 (the peak in the 1997–2016 period). The Kansas fertility rate in 2016 was 68.1 livebirths per female population in the 15-44 age bracket, 9.8 percent below the period high (75.5 in 2007), but above the period low (65.6 in 1997) (Table C2, Figure C2).

Of the 38,048 resident births in 2016, there were 19,579 males and 18,469 females, for a natal sex ratio of 106.0 male births to 100.0 female births. In most populations, this ratio is in the range of 104-106, although some populations experience ratios as low as 103 or as high as 107, even in the absence of deliberate sex selection [5] (Table C3).

Low Birth Weight

During 2016, low birth-weight (under 2,500 grams) infants accounted for 2,634 or 7.0 percent of births to Kansas resident mothers. Low birth-weights were more common for Black non-Hispanic mothers (13.7%) than for White non-Hispanic (6.4%) or Hispanic (6.4%) mothers. High birth-weight (4,000 grams and over) infants accounted for 3,452, or 9.1 percent of births to Kansas resident mothers. High birth-weights were more common for White non-Hispanic mothers (10.1%) than for Hispanic (7.6%) or Black non-Hispanic (4.0%) mothers (Table C8).

Small for Gestation

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 2016 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 38,048 resident births in 2016, 5.7 percent (2,148) were to mothers under the age of 20; 53.9 percent (20,508) were to mothers 20-29 years of age; 38.5 percent (14,636) were to mothers 30-39 years of age; and 2.0 percent (753) were to mothers aged 40 or over (Table C6).

Of the 26,786 resident births to White non-Hispanic mothers, 1,175 (4.4%) were to mothers under the age of twenty. Of the 2,494 births to Black non-Hispanic mothers, 224 (9.0%) were to mothers under the age of 20. Of the 6,300 births to Hispanic mothers, 634 (10.1%) births were to mothers under the age of 20 (Table A3).

First Trimester Care

Prenatal care data was provided for 37,605 out of 38,048 (98.5%) live births in 2015. Prenatal care began in the first trimester for 30,643 live births (81.2 percent of live births where prenatal care data was available), in the second trimester for 5,750 live births (15.2%), and in the third trimester for 1,212 live births (3.2%). No prenatal care was indicated for 116 live births (0.3%).

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5. 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

White non-Hispanic mothers started prenatal care in the first trimester in 84.8 percent of live births (22,561). Black non-Hispanic mothers started prenatal care in the first trimester in 73.7 percent of live births (1,805). Hispanic mothers started prenatal care in the first trimester in 70.7 percent of live births (4,388) (Table C7).

Prenatal Care Status

Of the 37,926 Kansas resident live births in 2016 for which the adequacy of prenatal care utilization (APNCU) category could be determined, 83.4 percent received adequate or better prenatal care, including 30.1 percent with adequate-plus care. Seventeen percent (16.7) received less than adequate prenatal care, including 10.9 percent with inadequate care (Table C14).

Mother's Weight Gain

Among singleton Kansas live births, 20.2 percent of mothers gained less than the recommended weight during pregnancy, 31.6 percent gained the recommended weight, and 48.2 percent gained more than the recommended amount (Table C19).

Marital Status

During 2016, 13,705 (36.0%) of the 38,048 resident live births in Kansas were to unmarried mothers. There were 7,958 (29.7%) out-of-wedlock births to White non-Hispanic mothers; 1,726 (69.2%) to Black non-Hispanic mothers; and 3,308 (52.5%) to Hispanic mothers (Table C22).

The percentage of out-of-wedlock births in Kansas decreased from 36.1 percent in 2015 to 36.0 percent in 2016. However, out-of-wedlock births were 30.4 percent higher than the 27.6 percent of live births reported in 1997 (Figure C7).

Delivery Method

Vaginal delivery was the most common final route of delivery for most Kansas resident live births in 2016 (26,810 live births, or 70.5% 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 (25,777 deliveries, or 67.8% of live births for which the final route was stated). Other vaginal deliveries (forceps assisted or vacuum extraction) accounted for 1,033 live births (2.7%). Cesarean deliveries accounted for 11,235 live births (29.5%). White non-Hispanic mothers delivered via cesarean section in 7,982 live births (29.8%), Black non-Hispanic mothers in 843 live births (33.8%), and Hispanic mothers in 1,692 live births (26.9%). 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 3,878 births in 2016, amounting to 10.2 percent of births for which tobacco usage was reported. Tobacco use was known for 37,961 of the 38,048 births (99.8%) in 2016.

Reported tobacco usage was highest in the three months immediately prior to pregnancy (4,564, or 12.0%) and decreased gradually with each trimester: to 3,826, or 10.1 percent in the first trimester; then to 3,379, or 8.9 percent in the second trimester; and finally to 3,217, or 8.5 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 2016 was 2,518, down 12.3 percent from 2,872 pregnancies in 2015. The pregnancy rate for mothers under 20 years of age in 2016 was 12.9 pregnancies per 1,000 female age-group population, a decline of 12.8 percent from a rate of 14.8 pregnancies per 1,000 female age-group population in 2015. This was the lowest pregnancy rate for this age-group in the past twenty years (1997-2016), down from a peak of 33.3 pregnancies per 1,000 female age-group population in 1997 (Table C23, Figure C8).

The pregnancy rate for females aged 15-17 years in 2016 was 11.2 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 2016 was 47.4 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 2016 was 21.9 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

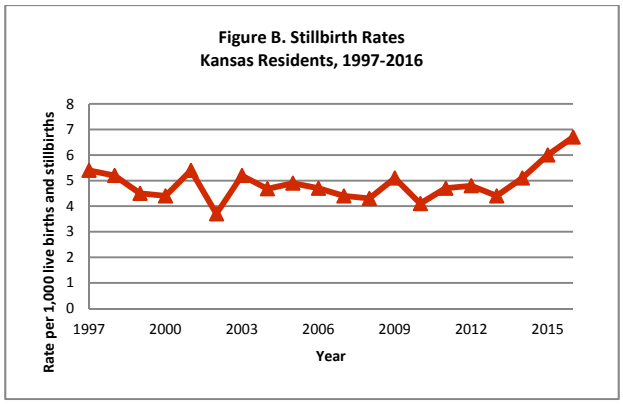
Stillbirths

Reporting standards for stillbirths changed mid-year 2015. 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 2016 are not strictly comparable to those of previous years.

During 2016, there were 255 stillbirths reported for Kansas resident mothers, an increase of 7.6 percent from the 237 stillbirths reported in 2015. The stillbirth rate was 6.7 per 1,000 live births and stillbirths, an increase of 10.4 percent from the rate of 6.0 stillbirths per 1,000 live births and stillbirths in 2015 (Tables D1, A3).

In 2016, the stillbirth rate (per 1,000 live births plus stillbirths) was 5.3 for White non-Hispanics, 15.4 for Black non-Hispanics, and 8.3 for Hispanics (Figure D1, Table A3).

Over the past 20 years (1997-2016), stillbirth rates have fluctuated, but Poisson regression (calculated with the Joinpoint program) indicates that the general trend was downward, but not statistically significant, for 1997-2013, and upwards and statistically significant for 2013-2016. The latter period can be discounted, however, since it includes the years where the stillbirth definition changed (Figure B).



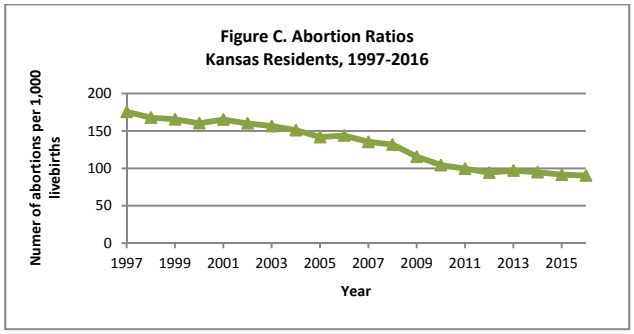
Of all stillbirths in 2016, 82.0 percent were attributed to conditions originating in the perinatal period and 10.6 percent to congenital anomalies (Table D1).

Abortions

In 2016, there were 3,439 abortions performed for Kansas residents, of which 3,409 were performed in Kansas, and 30 were performed out-of-state. There were also 3,381 abortions performed in Kansas for non-residents (Table D4).

Abortion Ratios

The abortion ratio for Kansas residents in 2016 decreased 1.2 percent from 91.5 in 2015 to 90.4 abortions per 1,000 live births. The 2016 abortion ratio is the lowest in the past 20 years (1997-2016), down from a peak of 175.6 abortions per 1,000 live births in 1997 (Figure C) (Table D3, Figure D2).



The abortion ratio for Kansas residents in 2016 varied substantially by age-group of mother. The highest ratio (318.2 per 1,000 live births) was recorded for mothers under 15 years of age, while the lowest (57.8 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 70.8 abortions per 1,000 live births (1,896) resident abortions); for Black non-Hispanics it was 219.7 (548 resident abortions); and for Hispanics it was 96.0 (605 resident abortions) (Table C20, Table D5).

Gestation at Termination

In 2016, 66.8 percent of Kansas resident abortions occurred prior to nine completed weeks of gestational age. Almost 90 percent (87.7) were performed prior to the 13th week of gestation. About four percent (3.9) of Kansas resident teenage women obtained an abortion after 16 weeks gestation. (Table D5).

Marital Status

More than 80 percent (84.3) of all reported abortions in 2016 were to unmarried women. Among Black non-Hispanic women in this group, 92.6 percent were unmarried, while 82.8 percent of White non-Hispanic women and 83.8 percent of Hispanic women were unmarried (Table D6).

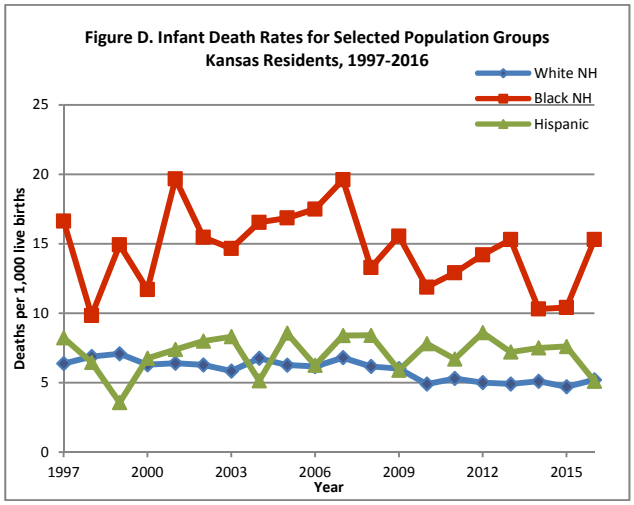
Infant Mortality

There were 223 infant deaths to Kansas residents in 2016, a decrease of 3.0 percent from 230 infant deaths in 2015 (Table D14).

The infant mortality rate for Kansas residents in 2016 was 5.9 infant deaths per 1,000 live births, unchanged from 2015. This surpasses 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 2016 was 5.2 deaths per 1,000 live births, an increase of 10.6 percent from the rate of 4.7 in 2015. The rate for Black non-Hispanic mothers was 15.2 deaths per 1,000 live births, an increase of 46.2 percent from the rate of 10.4 in 2015. The rate for Hispanic mothers was 5.1 deaths per 1,000 live births, a decrease of 32.9 percent from the rate of 7.6 in 2015. 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 (1997-2016). 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 2016, 37.7 percent of all infant deaths occurred in the first day of life, 53.4 percent occurred within the first seven days of life (the hebdomadal period), and 65.0 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 2015 to 2016; stillbirths increased by 7.6 percent, hebdomadal deaths decreased by 9.8 percent. There were 374 perinatal period III deaths in 2016, for a death rate of 9.8 deaths per 1,000 live births plus stillbirths, an increase of 5.4 percent from the 1997 rate of 9.3 (Table D10).

Of all infant deaths in 2016, 46.2 percent were attributed to conditions originating in the perinatal period, 22.0 percent to congenital anomalies, 12.1 percent to sudden infant death syndrome (SIDS), and 19.7 percent to all other causes (Table D13).

Maternal Mortality

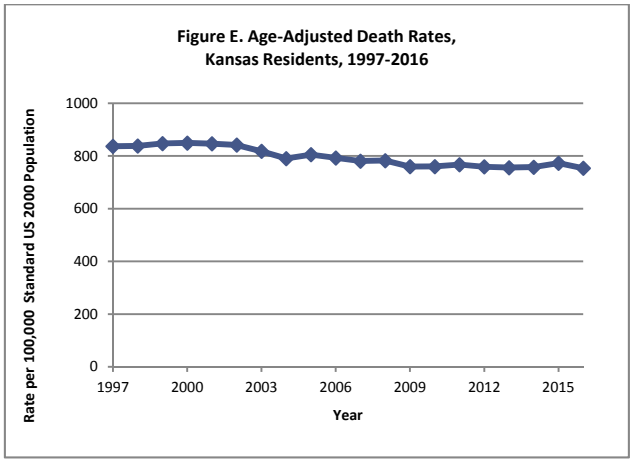
In the 2008 report, Kansas adopted the definition of “maternal death” used by the National

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 2016, there were eight maternal deaths and twelve other pregnancy associated deaths, an overall increase from 2015, when there were five maternal deaths and seven other pregnancy associated deaths (Figure D8).

General Mortality

There were 26,129 Kansas resident deaths recorded in 2016, a decrease of 1.8 percent from the 26,611 deaths recorded in 2015. The Kansas crude death rate in 2016 was 898.7 deaths per 100,000 population, which was 6.5 percent higher than the estimated U.S. crude rate of 844.1 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 2016 was 753.5 deaths per 100,000 standard U.S. 2000 population, down 2.5 percent from 772.5 in 2015. The age-adjusted death rate for males (878.7) was 35.6 percent higher than that for females (647.8) (Table E3).



The Kansas age-adjusted death rate in 2016 was at its lowest level for the past twenty years (1997-2016), and in 2016 was 11.2 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 2016 was 74.2 years, down 0.4 percent from 74.5 in 2015 (Table E4).

Average age at death varied by sex and population group. In 2016, males died 6.6 years younger than females (70.9 versus 77.5 years). The average age at death for the White non-Hispanic population was 75.5 years, 11.3 years older than that of the Black non-Hispanic population (64.2 years), and 14.8 years older than that of the Hispanic population (60.7 years) (Table E4).

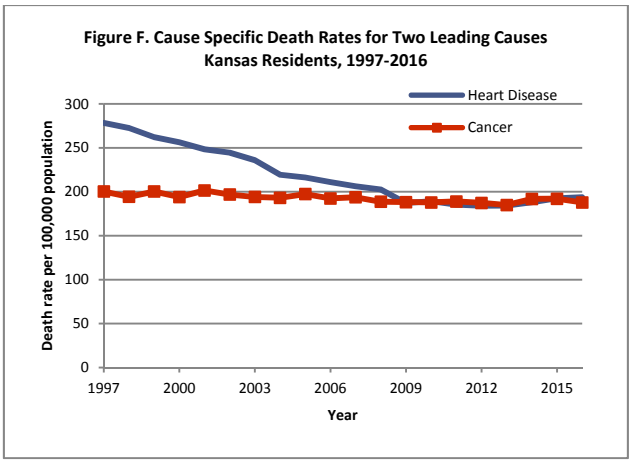
Over 60 percent (60.4) of White non-Hispanic Kansas residents who died in 2016 were 75 years of age or older, while only 35.9 percent of deceased Black non-Hispanic residents and 34.2 percent of deceased Hispanic residents had reached the age of 75 (Table E4).

Leading Causes of Death

The 10 leading causes of death in Kansas remained unchanged from 2014 to 2015, though their order changed in some cases. Nephritis, nephrotic syndrome and nephrosis replaced pneumonia and influenza as the eighth leading cause of death (by 11 deaths), but all other rankings in the ten leading causes remained unchanged.

The ten leading causes of death accounted for 71.6 percent of all Kansas resident deaths in 2016. Pneumonia and influenza was the only leading cause for which the change in rate from 2015 was statistically significant: it declined from 18.9 per 100,000 population in 2015 to 14.3 in 2016.

Kansas recorded 512 resident suicide deaths in 2016 compared to 477 in 2015 and 454 in 2014. The suicide age-adjusted death rate increased from 16.3 deaths per 100,000 population in 2015 to 17.8 deaths per 100,000 population in 2016, 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 2016, the heart disease death rate was 193.7 deaths per 100,000 population, while the cancer death rate was 187.8 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 (71.3 and 72.6 years, respectively), but males who died from heart disease did so at younger ages than did females (75.6 and 82.1 years, respectively). Males and females dying from chronic lower respiratory disease did so at about the same ages (76.4 and 77.0 years, respectively), but males dying of cerebrovascular disease did so at younger ages than did females (76.2 and 82.1 years, respectively). Males and females died from suicide at about the same average ages (44.4 and 43.7, respectively), but males died from unintentional injuries at much younger ages than females (55.2 and 65.1 years, respectively). Alzheimer's disease killed at the highest average ages for males and females (84.9 and 87.5 years respectively) (Table E7).

The leading causes of death also varied by age-group. In 2016, 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 78.0 percent of deaths in this age-group (Table E6).

Infectious Disease

Five hundred eighteen (518) Kansas residents died of pneumonia or influenza in 2016, for an age-adjusted death rate of 14.3 per 100,000 population, the lowest rate in the 1999-2016 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 website are crude rates, while the rates reported here are age-adjusted rates.

Fifteen (15) Kansas residents died of HIV/AIDS in 2016, for an age-adjusted death rate of 0.5 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 5,460 Kansas resident deaths in 2016, for an age-adjusted death rate of 157.9 per 100,000 population (Table E8). This meets 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 3,103 Kansas resident deaths in 2016, for an age-adjusted death rate of 87.5 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 38.4 per 100,000 population in 2016, down 0.3 percent from a rate of 38.5 per 100,000 population in 2015. Since 1997, death rates due to cerebrovascular disease have declined by 32.5 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 1,355 in 2016 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 2016, the age-adjusted unintentional injury death rate was 46.4 deaths per 100,000 population, a decrease of 2.9 percent from the rate of 47.8 in 2015. The 2016 rate was the second highest unintentional injury death rate in the past twenty years (Table E8, Figure E3).

Motor-vehicle injuries resulted in 428 deaths in 2016 (413 traffic and 15 non-traffic), accounting for 29.2 percent of 1,468 unintentional injury deaths. This was an increase of 8.6 percent from 394 motor-vehicle injury deaths in 2015 (Table E13).

The motor-vehicle traffic injury death rate in 2016 was 13.8 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 415 Kansas resident deaths in 2016 for an age-adjusted death rate of 11.6 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 2016, 512 Kansas residents died due to suicide, up 7.3 percent from 477 suicide deaths in 2016. Almost four-fifths (78.3%) of suicide victims were male. The two age groups with the largest number of suicides were 25-34 (106 deaths) and 35-44 (90 deaths). The three most common methods of suicide were firearms (255 deaths), suffocation (132 deaths), and poisoning (82 deaths) (Tables E8, E14, E22).

YPLL 75 Statistics

Mortality in Kansas was responsible for 191,508 years of potential life lost before age 75 in 2016 (see Technical Notes – Years of Potential Life Lost). Cancer, unintentional injury, and heart disease accounted for the most years of potential life lost (38,170, 29,177, and 25,702 years lost, respectively). Men lost more than twice the potential years of life to unintentional injuries than did women (20,075 years and 9,102 years, respectively) (Table E20).

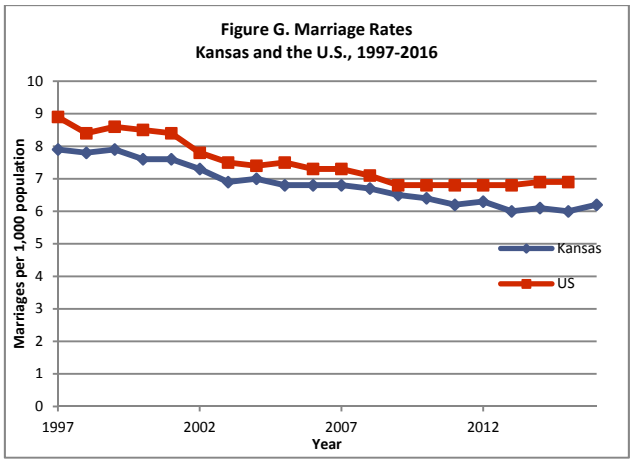
Tobacco and Mortality

Tobacco use contributed to 4,134 deaths in Kansas in 2016 (25.4 percent of the deaths where the tobacco contribution was known and reported on the death certificate). Tobacco use was a contributing factor in 31.2 percent of male deaths, and in 20.0 percent of female deaths. The causes of death showing the largest tobacco contribution were cancer of the trachea, bronchus and lung (89.2%), chronic lower respiratory disease (86.2%), and ischemic heart disease (36.3%). (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, tobac-

co's contribution may be subject to some under-reporting.

Marriages

In 2016, 17,948 marriages occurred in Kansas, an increase of 2.0 percent from the 2015 total of 17,595 marriages (Table F1).



The Kansas marriage rate in 2016 was 6.2 marriages per 1,000 population. This rate was 3.3 percent higher than the 6.0 percent rate recorded in 2015, but still 21.5 percent below the 1997 peak for the 1997-2016 period of 7.9 marriages per 1,000 population (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 2016, 58.6 percent of all marriages involved first-time partners (Table F4).

More marriages occurred in October (12.7%) than any other month in 2016. June and September were the second and third most popular months (Figure F3).

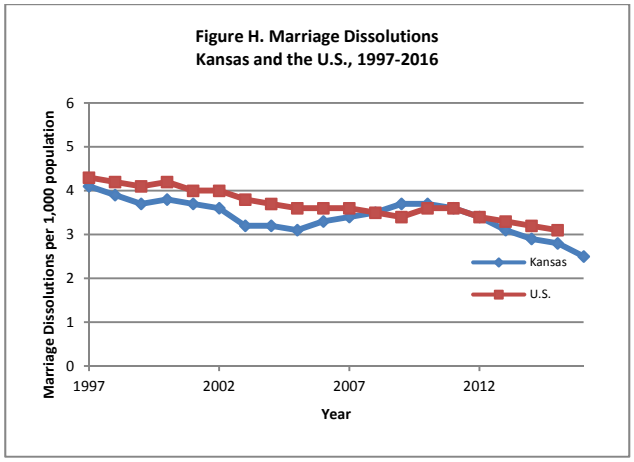
Age at Marriage

Kansas couples are delaying marriage. In 1997, 11.7 percent of the brides and 4.3 percent of the grooms were under 20 years of age. In 2016, however, only 4.6 percent of the brides and 1.9 percent of the grooms were under 20 (Table F5).

The average age of all brides in 2016 was 31.5 years and that of grooms was 33.6 years. Women marrying for the first time averaged 26.6 years while first time grooms averaged 28.5 years. Of those persons who remarried in 2016, women were, on average, 42.2 years old and men were 44.8 years of age (Figure F4).

Marriage Dissolutions

In 2016, 7,198 marriage dissolutions (7,056 divorces and 142 annulments) occurred in Kansas, a decline of 10.4 percent from the 2015 total of 8,036 (Table F1, Table F7).



The Kansas marriage dissolution rate in 2016 was 2.5 per 1,000 population, which was 39.0 percent lower than the 1997 rate of 4.1 (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 2016 have not been released at the time this summary was written (Table F1, Figure F2).

The ratio of marriages to divorces in Kansas in 2016 was 2.5:1 (Table F1).

Age at Marriage Dissolution

The most common age-group of husbands involved in marriage dissolutions in 2016 was 35-39; the most common age-group of wives involved in marriage dissolutions was 30-34. For couples of the same age-group, the most common age-group was 30-34 (Table F6).

The average age at marriage dissolution in 2016 was 39.1 years for wives and 41.3 years for husbands, as compared to 34.6 years for wives and 36.8 years for husbands in 1997 (Figure F5).

Marriage Dissolution Characteristics

In 2016, 33.5 percent of marriages ending in divorce or annulment lasted four years or less (Table F7).

There were 6,318 minor children affected as a result of marriage dissolutions in 2016. At least one minor child was reported to be involved in almost half (47.8%) of the marriage dissolutions (Table F8, Figure F6).

A. VITAL EVENTS

Table A1
Selected Vital Events and Percent Change
Kansas, 2016, 2015 and 1997

Vital Event	2016	2015	Percent Change 2015-2016	1996	Percent Change 1996-2015
Live Births	38,048	39,126	-2.8	37,191	2.3
Out-of-Wedlock Births	13,705	14,108	-2.9	10,260	33.6
Stillbirths	255	237	7.6	202	26.2
Hebdomadal Deaths	119	132	-9.8	147	-19.0
Perinatal Period III Deaths	374	369	1.4	349	7.2
Neonatal Deaths	145	160	-9.4	173	-16.2
Infant Deaths	223	230	-3.0	274	-18.6
Maternal Deaths	8	5	60.0	5	60.0
Deaths	26,129	26,611	-1.8	23,609	10.7
Marriages	17,948	17,595	2.0	20,537	-12.6
Marriage Dissolutions	7,198	8,036	-10.4	10,779	-33.2
Abortions	3,439	3,579	-3.9	6,532	-47.4

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

EVERY DAY DURING 2016*

Each day Kansas residents experienced approximately

104 Live births
37 Out-of wedlock births
6 Live births to teenagers
7 Low birthweight live births
<1 Infant death

71 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

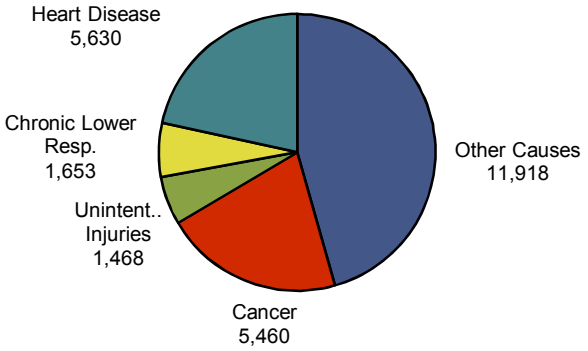
49 Marriages
20 Marriage dissolutions
19 Abortions

* based on 366 days in 2016

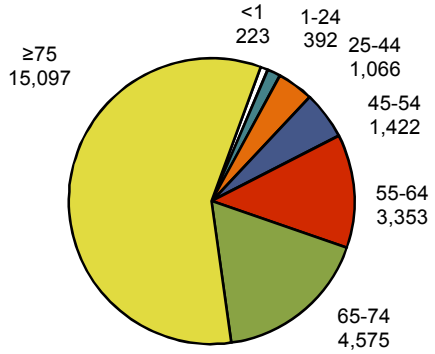
Figure A1

Kansas Vital Statistics for 2016

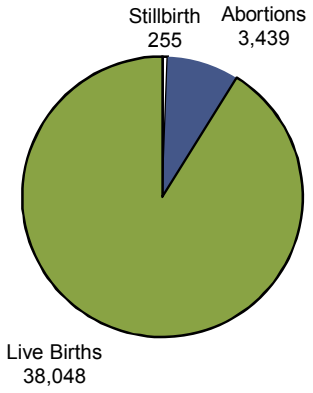
Deaths*
Total 26,129

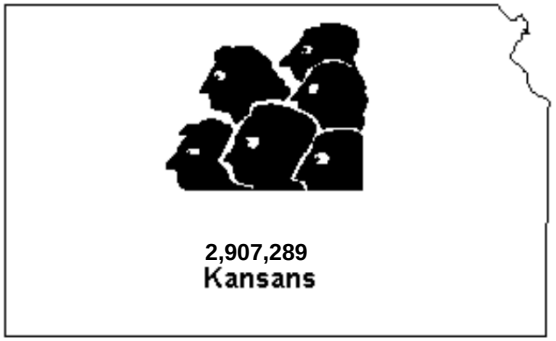


Deaths by Age-Group*
(Years) (1 n.s.)

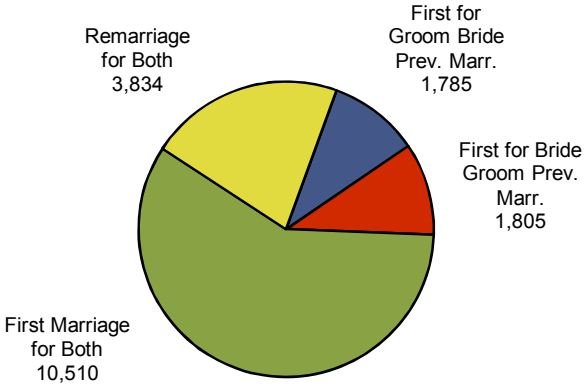


Pregnancy Outcomes*





Marriages† by Marriage Order
Total 17,948
(14 N.S.)



Marriage Dissolutions†
By Duration of Marriage
Total 7,198
(237 N.S.)

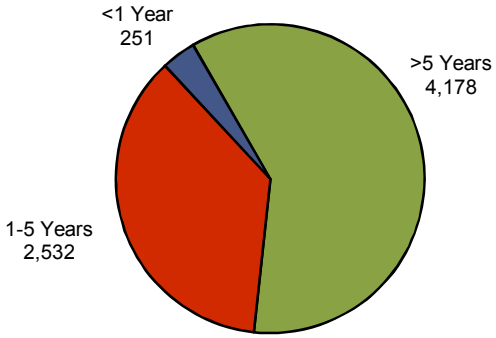


Figure A2

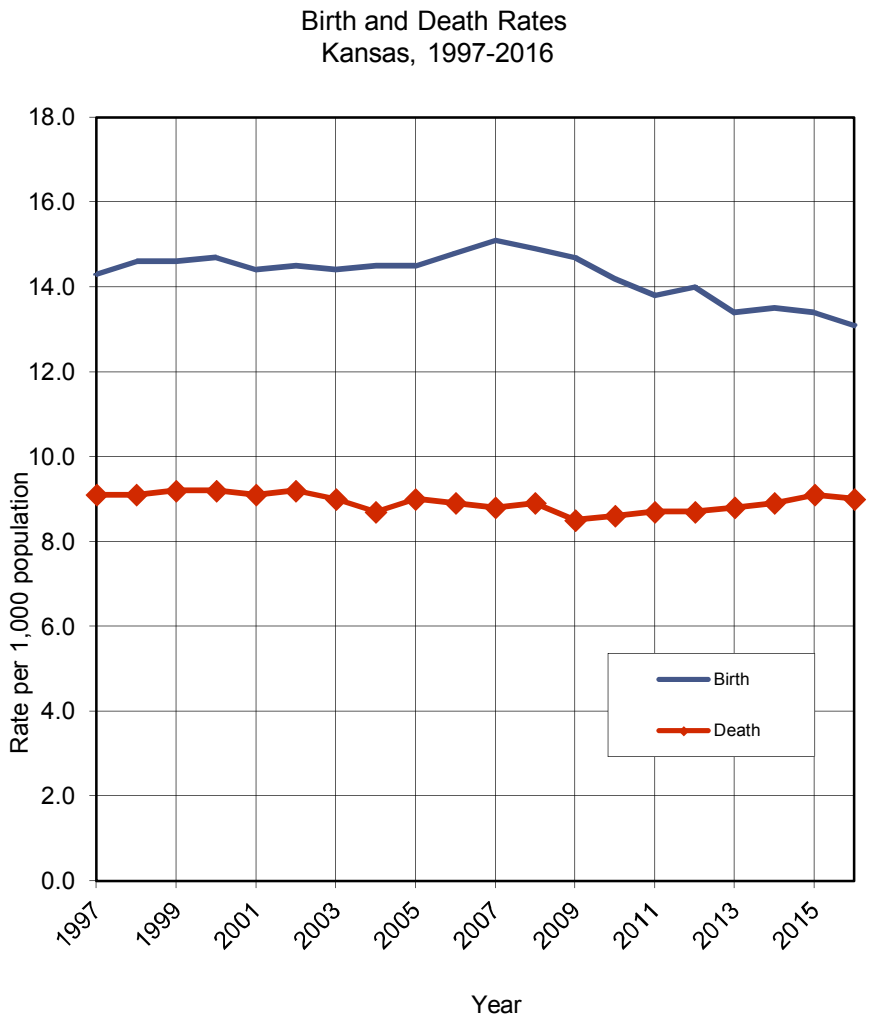
* Residence Data
† Occurrence Data

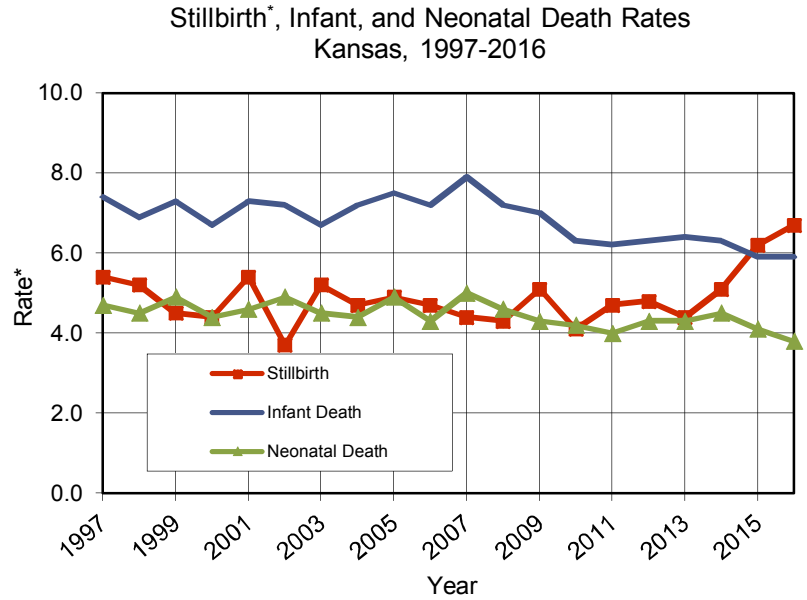
Table A2
Selected Vital Event Percents, Rates, and Ratios
Kansas, 1997-2016

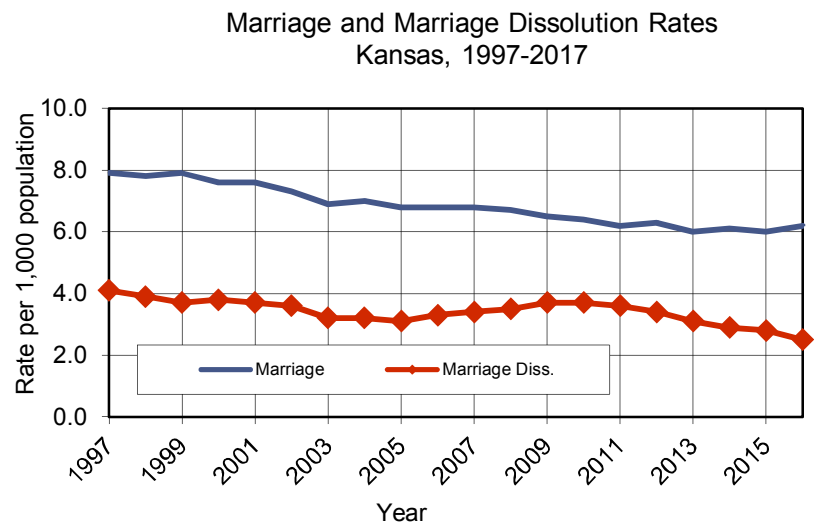
Vital Event	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Live Births																				
Number	37,191	38,372	38,748	39,654	38,832	39,338	39,353	39,553	39,701	40,896	41,951	41,815	41,388	40,439	39,628	40,304	38,805	39,193	39,126	38,048
Rate*	14.3	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
Out-of-Wedlock Births																				
Number	10,260	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
Percent†	27.6	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
Stillbirths																				
Number	202	199	175	177	209	146	206	186	194	192	186	182	213	168	188	195	173	201	237	255
Rate‡	5.4	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	6.2	6.7
Hebdomadal Deaths																				
Number	147	132	159	146	148	155	138	144	153	137	163	160	144	143	121	142	140	138	132	119
Rate§	4.0	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
Perinatal Period III Deaths																				
Number	349	331	334	323	357	301	344	330	347	329	349	342	357	311	309	337	313	339	369	374
Rate‡	9.3	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	9.4	9.8
Neonatal Deaths																				
Number	173	172	189	174	178	192	177	176	196	176	211	193	176	170	157	173	166	175	160	145
Rate§	4.7	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
Infant Deaths																				
Number	274	263	281	266	285	282	262	284	297	293	333	303	290	253	247	254	248	246	230	223
Rate§	7.4	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
Maternal Deaths ¶																				
Number	5	3	4	4	1	2	0	2	6	4	3	7	8	7	4	4	10	5	5	8
Rate#	13.4	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
Deaths																				
Number	23,609	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
Rate**	895.9	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
Marriages																				
Number	20,537	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
Rate*	7.9	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
Marriage Dissolutions																				
Number	10,618	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
Rate*	4.1	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
Abortions																				
Number	6,532	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
Ratio§	175.6	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

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, 1997-2016







* 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, 2016

Births and Birth Rates	Total	White Non-Hispanic	Black Non-Hispanic	Native American Non-Hispanic	Asian/Pacific Non-Hispanic	Other Non-Hispanic*	Hispanic Any Race	n.s.
Births	38,048	26,786	2,494	170	1,221	1,056	6,300	21
Birth Rates†	13.1	12.1	14.8	7.3	14.1	14.5	18.6	n/a/

Maternal Characteristics				Number				
	Total	White Non-Hispanic	Black Non-Hispanic	Native American Non-Hispanic	Asian/Pacific Non-Hispanic	Other Non-Hispanic*	Hispanic Any Race	n.s.
Births to mother <18 years of age	573	266	75	1	4	18	209	0
Births to mother <20 years of age	2,148	1,175	224	13	17	84	634	1
Births to mother with < HS diploma or GED	4,768	1,882	364	24	105	179	2,214	0
Out-of-wedlock births	13,705	7,958	1,726	95	155	456	3,308	7
Fourth and higher birth order#	5,533	3,422	466	38	98	129	1,374	6

Birth Outcomes				Number				
	Total	White Non-Hispanic	Black Non-Hispanic	Native American Non-Hispanic	Asian/Pacific Non-Hispanic	Other Non-Hispanic*	Hispanic Any Race	n.s.
Low birth weight infants (<2500 grams)	2,654	1,724	342	15	91	76	404	2
Very low birth weight infants (<1500 grams)	430	267	75	2	10	13	63	0
Births with gestational age < 37 weeks	3,457	2,382	336	18	107	95	516	3
				Rate				
	Total	White Non-Hispanic	Black Non-Hispanic	Native American Non-Hispanic	Asian/Pacific Non-Hispanic	Other Non-Hispanic*	Hispanic Any Race	n.s.
Infant deaths‡	5.9	5.2	15.2	5.9	2.5	8.5	5.1	n/a
Neonatal deaths‡	3.8	3.3	9.6	0.0	2.5	4.7	3.8	n/a
Postneonatal deaths‡	2.1	1.9	5.6	5.9	0.0	3.8	1.3	n/a
Stillbirths§	6.7	5.3	15.4	11.6	7.3	6.6	8.3	n/a
Perinatal§	9.8	8.0	22.9	11.6	8.9	9.4	12.0	n/a

Pregnancy Characteristics				Number				
	Total	White Non-Hispanic	Black Non-Hispanic	Native American Non-Hispanic	Asian/Pacific Non-Hispanic	Other Non-Hispanic*	Hispanic Any Race	n.s.
Births to women with prenatal care in first trimester	30,643	22,561	1,805	118	973	786	4,388	12
Births to women with late (3rd trimester) or no prenatal care	1,328	697	128	6	46	52	396	3
Plural births**	1,146	849	105	6	33	21	131	1

Deaths and Death Rates	Total	White Non-Hispanic	Black Non-Hispanic	Native American Non-Hispanic	Asian/Pacific Non-Hispanic	Other Non-Hispanic*	Hispanic Any Race	n.s.
Deaths	26,129	23,217	1,366	171	202	316	799	58
Death Rates¶	898.7	1,046.9	810.6	730.7	233.4	434.5	236.1	n/a
Age-Adjusted death rates¶	753.5	754.8	965.6	982.0	407.0	1,115.3	501.1	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.

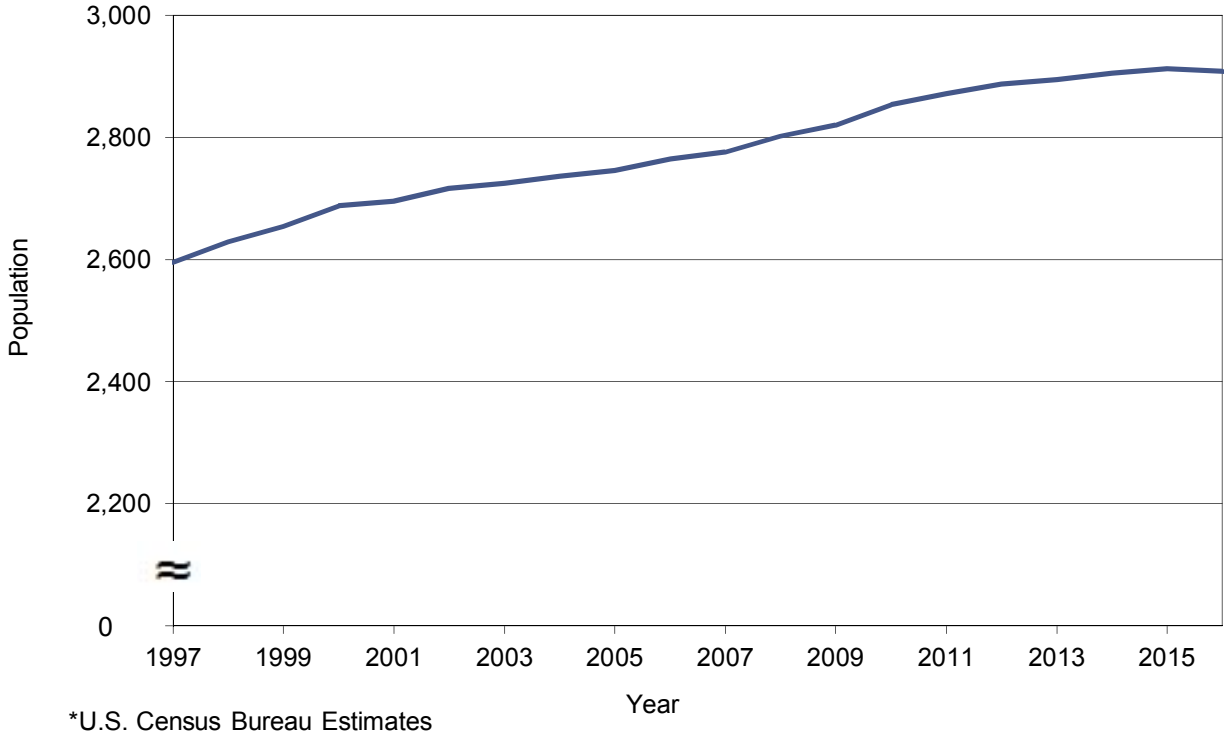
B. POPULATION

Table B1
Population by Year and Sex
Kansas Residents, 1967-2016

Years	Total	Male	Female
1967	2,236,750	*	*
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

* 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 1967-1969 are from the Annual Summary of the year, which did not break down by male and female.

Total Population
Kansas, 1997-2016* (in Thousands)



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

Figure B1

Rate of Natural Increase
Kansas, 1997-2016

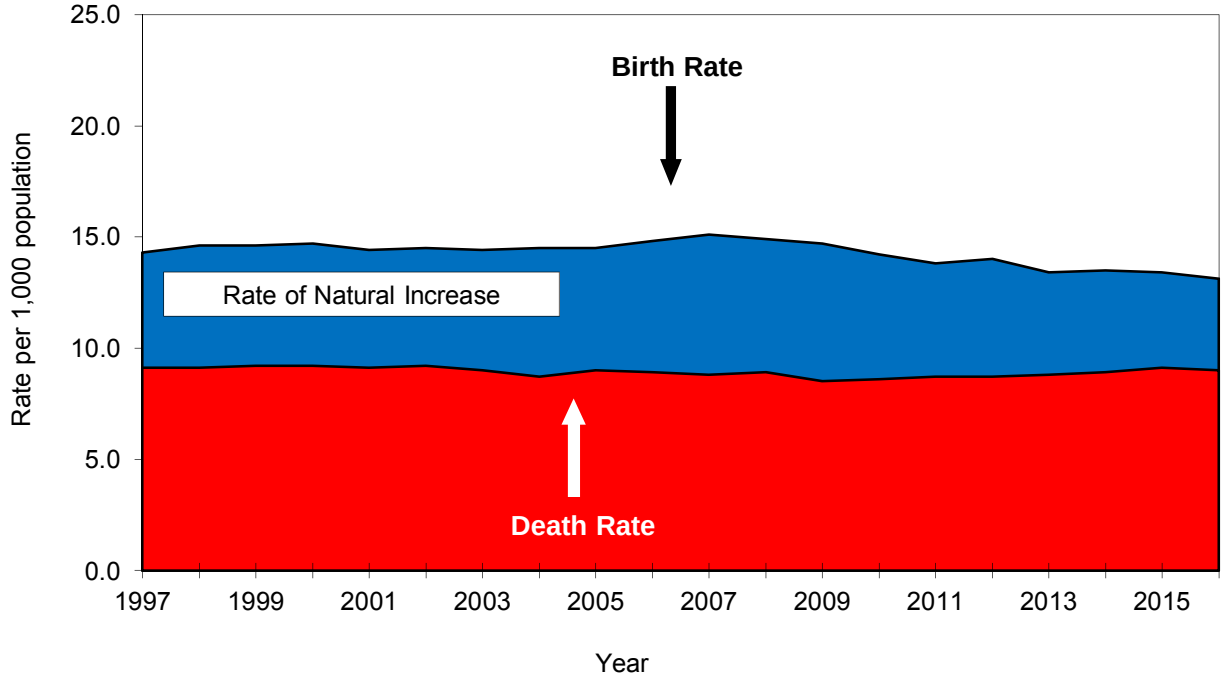


Figure B2

Median Age
Kansas, 1997-2016

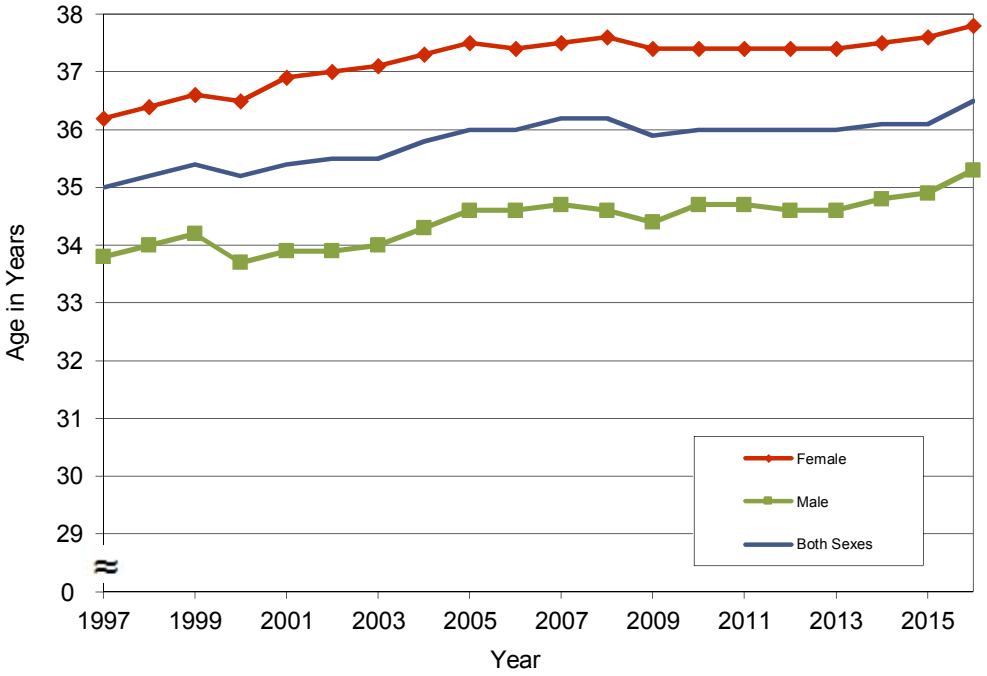
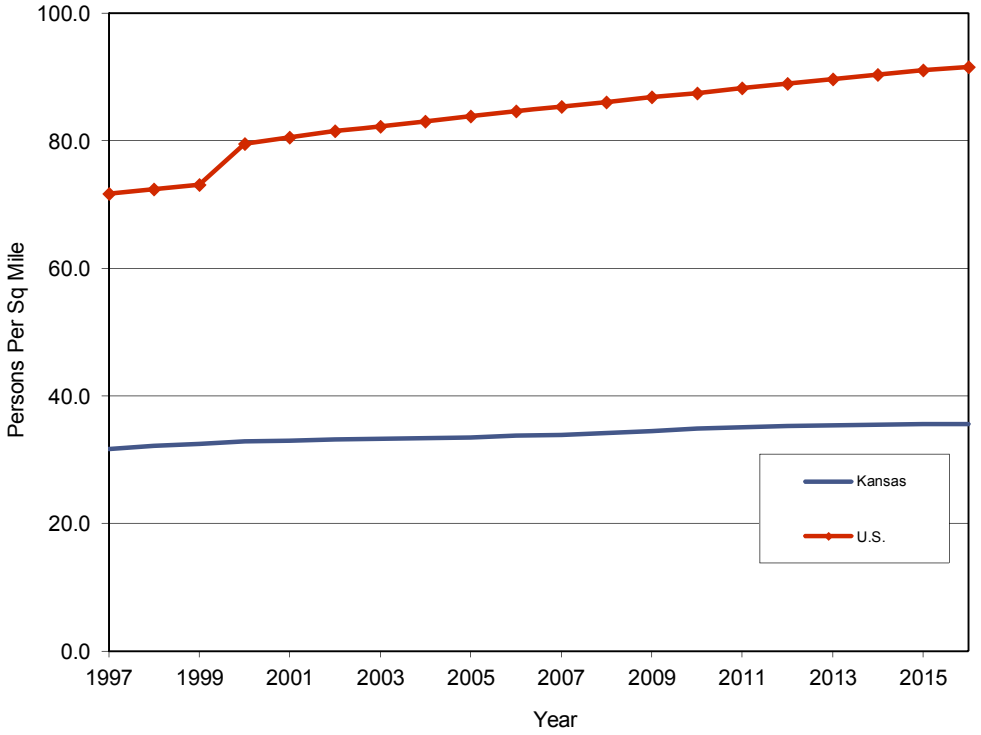


Figure B3

Population Density
Kansas and the U.S., 1997-2016



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, 1997-2016
(In Thousands)

Age-Group	Year																				Percent Change 1997-2016
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Both Sexes																					
0-4	179	182	184	189	189	188	189	189	188	194	196	203	205	205	204	203	200	201	197	194	8.4
5-14	385	389	388	400	401	386	385	376	367	380	379	380	383	401	401	403	405	404	402	401	4.2
15-24	376	389	398	400	401	414	417	419	416	415	411	411	424	408	412	415	419	421	424	417	10.9
25-34	356	347	340	349	350	352	352	359	364	355	361	368	369	378	383	387	387	388	387	385	8.1
35-44	423	426	427	420	421	404	393	388	382	375	367	360	349	347	343	343	344	345	346	347	-18.0
45-54	317	329	343	354	355	378	384	392	399	403	406	408	404	406	399	389	376	369	361	354	11.7
55-64	207	213	220	220	221	239	249	260	271	284	296	306	317	331	346	351	357	362	367	372	79.7
65-74	179	178	175	176	176	171	170	170	170	171	174	180	183	190	195	207	217	226	235	245	36.9
75 and Over	173	176	179	180	181	184	184	184	187	186	186	187	184	186	187	187	189	190	191	192	11.0
Total †	2,595	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	12.0
Median Age	35.0	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	4.3
Males																					
0-4	92	94	94	97	97	97	98	98	98	99	100	103	105	105	104	104	103	103	101	99	7.6
5-14	198	200	199	205	206	198	197	193	189	195	195	195	196	206	206	206	208	207	206	205	3.5
15-24	194	200	205	207	207	214	216	216	215	215	213	214	221	211	213	216	219	220	223	217	11.9
25-34	179	173	170	179	179	181	182	185	188	183	186	190	189	192	195	198	199	199	199	197	10.1
35-44	214	216	216	210	211	202	197	195	192	188	185	182	177	175	173	173	174	174	176	176	-17.8
45-54	157	162	169	178	178	189	192	196	199	201	202	203	200	201	198	193	187	183	180	177	12.7
55-64	100	103	106	107	107	116	122	128	134	140	146	151	156	164	171	173	175	178	180	182	82.0
65-74	81	81	79	80	80	78	78	78	78	79	80	84	85	89	92	98	103	107	112	117	44.4
75 and Over	63	64	66	66	66	68	69	70	72	70	70	71	70	73	74	74	75	76	77	78	23.8
Total†	1,278	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	13.3
Median Age	33.8	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	4.4
Females																					
0-4	87	89	90	92	92	91	91	91	90	95	96	99	101	101	100	99	98	98	96	95	9.2
5-14	187	189	188	194	195	188	187	183	179	185	185	185	187	196	196	197	198	197	196	196	4.8
15-24	182	189	193	193	194	200	201	202	201	200	198	197	203	197	197	199	200	201	202	200	9.9
25-34	177	174	170	170	171	171	171	173	176	172	176	178	180	185	191	189	189	189	188	188	6.2
35-44	209	211	211	210	211	202	196	193	190	187	183	179	171	172	170	170	170	170	171	171	-18.2
45-54	161	167	174	176	177	188	192	196	200	202	204	205	204	205	201	196	190	185	181	177	9.9
55-64	107	111	114	113	113	122	127	133	138	144	150	155	160	168	175	178	181	185	188	190	77.6
65-74	98	97	96	96	96	93	92	92	92	92	94	96	98	101	103	109	114	118	123	128	30.6
75 and Over	110	112	113	115	115	116	115	114	115	116	116	116	115	113	113	113	113	114	114	114	3.6
Total†	1,317	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	10.9
Median Age	36.2	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	4.4

* 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, 2016

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	2,907,289	1,095,713	1,121,887	86,950	81,563	11,622	11,780	41,894	44,667	36,268	36,464	175,312	163,169
<1	38,202	12,741	12,244	1,366	1,231	175	166	638	557	1,199	1,144	3,369	3,372
1-4	156,105	52,910	50,513	5,217	4,973	551	522	2,316	2,218	4,036	3,990	14,796	14,063
5-14	400,746	136,217	129,891	12,528	12,502	1,489	1,413	5,846	5,250	10,535	10,139	38,327	36,609
15-24	417,031	150,341	139,226	15,668	12,843	2,287	2,072	7,660	7,731	8,349	7,813	32,753	30,288
25-34	384,606	141,579	137,320	14,395	11,944	1,734	1,703	8,289	8,235	4,133	4,434	26,819	24,021
35-44	347,089	130,078	128,237	11,062	9,890	1,585	1,432	6,470	7,411	2,770	2,974	24,116	21,064
45-54	354,323	140,488	142,523	10,421	9,521	1,473	1,666	4,842	5,598	2,053	2,233	17,629	15,876
55-64	372,194	155,778	163,883	9,398	9,334	1,285	1,543	3,070	3,940	1,818	2,007	10,449	9,689
65-74	244,996	104,607	113,402	4,484	5,360	731	816	1,806	2,395	899	984	4,623	4,889
75-84	127,193	50,058	65,252	1,844	2,747	270	362	786	958	365	530	1,819	2,202
85+	64,804	20,916	39,396	567	1,218	42	85	171	374	111	216	612	1,096

*U.S. Census Bureau estimates for 2016.

Percent Change in Age-Group Population
Both Sexes, Kansas, 1997-2016

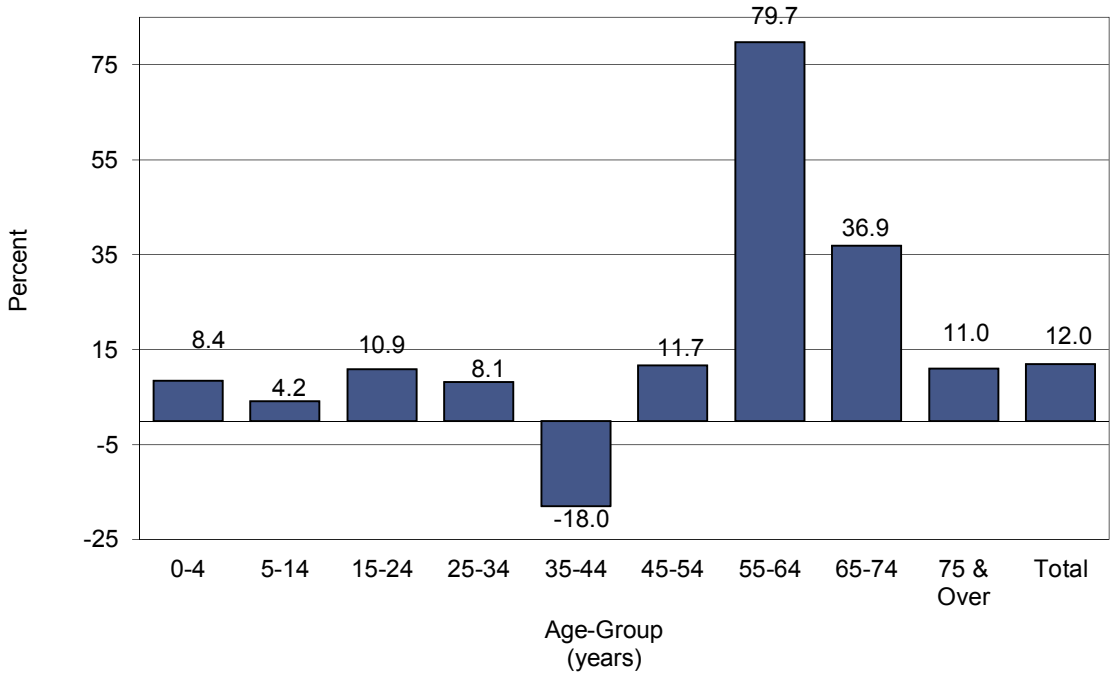


Figure B5

Table B4
Population by County and Peer Group*
Kansas, 2012-2016

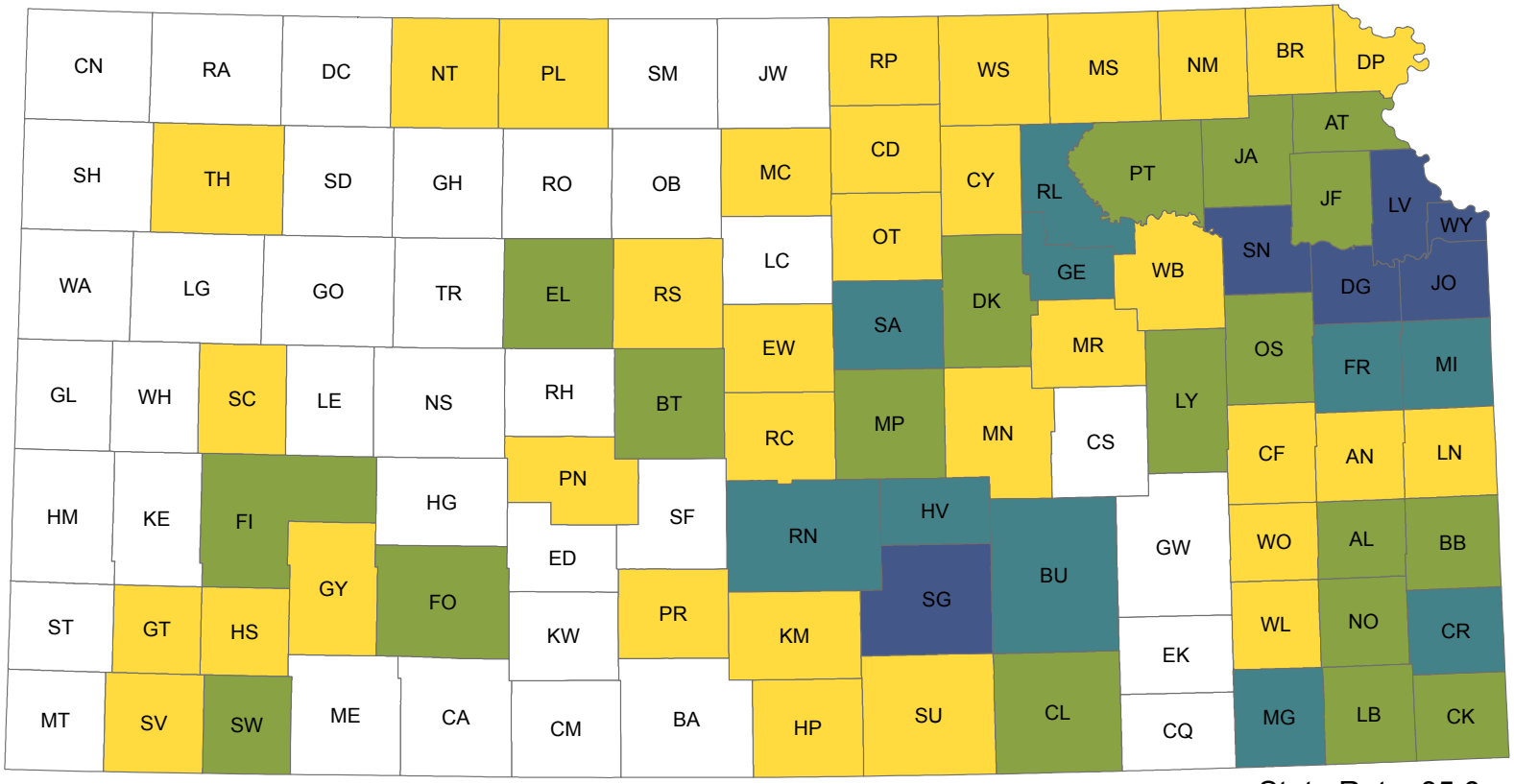
County of Residence	Year 2012	2013	2014	2015	2016	Percent Change 2012-2016
Kansas	2,885,905	2,893,957	2,904,021	2,911,641	2,907,289	0.7
Allen	13,319	13,124	12,909	12,717	12,714	-4.5
Anderson	7,917	7,897	7,883	7,808	7,827	-1.1
Atchison	16,813	16,749	16,513	16,398	16,380	-2.6
Barber	4,861	4,947	4,897	4,823	4,688	-3.6
Barton	27,557	27,509	27,385	27,103	26,775	-2.8
Bourbon	14,897	14,852	14,772	14,712	14,617	-1.9
Brown	9,881	9,997	9,815	9,776	9,684	-2.0
Butler	65,827	65,803	66,227	66,741	67,025	1.8
Chase	2,757	2,700	2,692	2,679	2,669	-3.2
Chautauqua	3,571	3,552	3,481	3,402	3,374	-5.5
Cherokee	21,226	20,978	20,787	20,533	20,246	-4.6
Cheyenne	2,678	2,694	2,693	2,679	2,661	-0.6
Clark	2,181	2,193	2,144	2,096	2,072	-5.0
Clay	8,531	8,406	8,317	8,347	8,143	-4.5
Cloud	9,397	9,292	9,385	9,219	9,150	-2.6
Coffey	8,502	8,412	8,433	8,384	8,433	-0.8
Comanche	1,913	1,955	1,954	1,843	1,862	-2.7
Cowley	36,288	36,204	35,963	35,788	35,753	-1.5
Crawford	39,361	39,278	39,290	39,217	39,164	-0.5
Decatur	2,871	2,930	2,908	2,932	2,832	-1.4
Dickinson	19,762	19,609	19,394	19,303	19,064	-3.5
Doniphan	7,864	7,851	7,874	7,797	7,664	-2.5
Douglas	112,864	114,322	116,585	118,053	119,440	5.8
Edwards	2,979	2,945	3,030	2,968	2,938	-1.4
Elk	2,720	2,655	2,694	2,605	2,547	-6.4
Ellis	29,053	29,061	29,013	29,029	28,893	-0.6
Ellsworth	6,494	6,398	6,392	6,343	6,328	-2.6
Finney	37,200	37,098	37,184	37,118	36,722	-1.3
Ford	34,752	34,819	34,795	34,536	33,971	-2.2
Franklin	25,906	25,740	25,611	25,609	25,560	-1.3
Geary	38,013	37,384	36,713	37,030	35,586	-6.4
Gove	2,729	2,769	2,727	2,640	2,589	-5.1
Graham	2,578	2,593	2,566	2,591	2,564	-0.5
Grant	7,923	7,950	7,816	7,733	7,646	-3.5
Gray	6,030	6,009	6,082	6,133	6,034	0.1
Greeley	1,298	1,290	1,301	1,330	1,296	-0.2
Greenwood	6,454	6,424	6,328	6,244	6,151	-4.7
Hamilton	2,639	2,609	2,603	2,474	2,536	-3.9
Harper	5,911	5,860	5,818	5,817	5,685	-3.8
Harvey	34,852	34,741	34,820	35,073	34,913	0.2
Haskell	4,256	4,141	4,106	4,064	4,006	-5.9
Hodgeman	1,963	1,950	1,916	1,893	1,870	-4.7
Jackson	13,449	13,366	13,539	13,338	13,291	-1.2
Jefferson	18,945	18,813	18,855	18,930	18,897	-0.3
Jewell	3,046	3,046	3,043	2,970	2,901	-4.8
Johnson	559,913	566,933	574,272	580,159	584,451	4.4
Kearny	3,968	3,923	3,915	3,956	3,917	-1.3
Kingman	7,863	7,844	7,698	7,687	7,467	-5.0
Kiowa	2,496	2,523	2,513	2,564	2,483	-0.5
Labette	21,284	20,916	20,960	20,803	20,444	-3.9
Lane	1,704	1,720	1,687	1,670	1,636	-4.0
Leavenworth	77,739	78,185	78,797	79,315	80,204	3.2
Lincoln	3,174	3,147	3,167	3,105	3,073	-3.2
Linn	9,441	9,516	9,502	9,536	9,558	1.2
Logan	2,784	2,798	2,794	2,825	2,831	1.7

Table B4
Population by County and Peer Group*
Kansas, 2012-2016

County of Residence	Year 2012	2013	2014	2015	2016	Percent Change 2012-2016
Lyon	33,748	33,510	33,212	33,339	33,510	-0.7
McPherson	29,356	29,569	29,241	28,941	28,804	-1.9
Marion	12,347	12,219	12,208	12,103	12,112	-1.9
Marshall	10,022	10,002	10,006	9,936	9,836	-1.9
Meade	4,396	4,343	4,357	4,330	4,216	-4.1
Miami	32,612	32,835	32,822	32,553	32,964	1.1
Mitchell	6,355	6,378	6,284	6,282	6,243	-1.8
Montgomery	34,459	34,292	34,065	33,314	32,746	-5.0
Morris	5,854	5,741	5,698	5,645	5,573	-4.8
Morton	3,169	3,143	3,110	3,007	2,848	-10.1
Nemaha	10,132	10,161	10,148	10,227	10,241	1.1
Neosho	16,406	16,430	16,416	16,346	16,146	-1.6
Ness	3,068	3,073	3,105	3,005	2,962	-3.5
Norton	5,612	5,622	5,560	5,550	5,493	-2.1
Osage	16,142	16,142	15,936	15,847	15,843	-1.9
Osborne	3,806	3,818	3,756	3,683	3,642	-4.3
Ottawa	6,072	6,042	6,065	5,975	5,920	-2.5
Pawnee	6,928	6,971	6,916	6,838	6,743	-2.7
Phillips	5,519	5,540	5,533	5,428	5,428	-1.6
Pottawatomie	22,302	22,691	22,897	23,298	23,661	6.1
Pratt	9,728	9,878	9,850	9,691	9,584	-1.5
Rawlins	2,560	2,589	2,584	2,506	2,549	-0.4
Reno	64,438	64,190	63,794	63,718	63,220	-1.9
Republic	4,858	4,820	4,803	4,725	4,699	-3.3
Rice	9,985	10,011	10,015	9,977	9,831	-1.5
Riley	75,508	75,394	75,194	75,247	73,343	-2.9
Rooks	5,223	5,190	5,155	5,174	5,076	-2.8
Rush	3,220	3,186	3,197	3,130	3,058	-5.0
Russell	6,946	6,933	6,956	7,039	6,988	0.6
Saline	55,988	55,740	55,755	55,691	55,142	-1.5
Scott	4,937	5,035	5,080	4,964	5,032	1.9
Sedgwick	503,889	505,415	508,803	511,574	511,995	1.6
Seward	23,547	23,390	23,465	23,152	22,709	-3.6
Shawnee	178,991	178,831	178,406	178,725	178,146	-0.5
Sheridan	2,538	2,553	2,539	2,512	2,509	-1.1
Sherman	6,113	6,115	6,110	5,983	5,965	-2.4
Smith	3,765	3,706	3,769	3,704	3,632	-3.5
Stafford	4,358	4,359	4,297	4,236	4,208	-3.4
Stanton	2,175	2,194	2,111	2,072	2,062	-5.2
Stevens	5,756	5,816	5,801	5,806	5,584	-3.0
Sumner	23,674	23,591	23,528	23,535	23,272	-1.7
Thomas	7,941	7,948	7,891	7,904	7,892	-0.6
Trego	2,986	2,980	2,902	2,927	2,872	-3.8
Wabaunsee	7,039	7,051	7,022	6,951	6,891	-2.1
Wallace	1,517	1,569	1,506	1,518	1,497	-1.3
Washington	5,758	5,629	5,598	5,598	5,546	-3.7
Wichita	2,256	2,192	2,176	2,157	2,112	-6.4
Wilson	9,105	9,105	9,028	8,856	8,723	-4.2
Woodson	3,278	3,221	3,157	3,115	3,165	-3.4
Wyandotte	159,129	160,384	161,636	163,369	163,831	3.0
Peer Group						
Frontier	112,514	112,373	111,727	110,233	108,698	-3.4
Rural	236,318	235,845	234,866	233,457	231,485	-2.0
Densely -Settled Rural	477,584	476,272	474,638	472,563	469,376	-1.7
Semi-Urban	466,964	465,397	464,291	464,193	459,663	-1.6
Urban	1,592,525	1,604,070	1,618,499	1,631,195	1,638,067	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, 2016



State Rate: 35.6

Legend

Under 6.0 | 6.0 - 19.9 | 20.0 - 39.9 | 40.0 - 149.9 | 150.0 and over

Figure B6

Table B5
Population by County of Residence and Peer Group†, by Population Group*
Kansas, 2016

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	2,907,289	2,217,600	168,513	23,402	86,561	72,732	338,481
Allen	12,714	11,505	262	90	91	329	437
Anderson	7,827	7,448	41	52	48	99	139
Atchison	16,380	14,469	821	96	111	389	494
Barber	4,688	4,329	36	40	24	73	186
Barton	26,775	21,836	377	124	83	422	3,933
Bourbon	14,617	13,204	432	112	158	348	363
Brown	9,684	8,075	122	790	55	245	397
Butler	67,025	59,775	1,255	563	875	1,417	3,140
Chase	2,669	2,435	33	22	6	50	123
Chautauqua	3,374	2,869	26	174	5	159	141
Cherokee	20,246	17,870	155	801	159	769	492
Cheyenne	2,661	2,405	7	6	43	20	180
Clark	2,072	1,728	4	23	39	54	224
Clay	8,143	7,708	44	45	42	124	180
Cloud	9,150	8,513	69	43	110	136	279
Coffey	8,433	7,865	68	74	81	128	217
Comanche	1,862	1,693	6	6	6	32	119
Cowley	35,753	28,556	988	608	752	1,025	3,824
Crawford	39,164	34,103	885	372	773	964	2,067
Decatur	2,832	2,694	18	9	8	37	66
Dickinson	19,064	17,353	196	102	138	416	859
Doniphan	7,664	6,878	260	91	53	158	224
Douglas	119,440	94,258	5,160	2,672	5,903	4,169	7,278
Edwards	2,938	2,258	11	20	8	42	599
Elk	2,547	2,301	3	37	14	80	112
Ellis	28,893	26,020	280	77	498	390	1,628
Ellsworth	6,328	5,441	334	38	36	79	400
Finney	36,722	15,465	919	173	1,592	411	18,162
Ford	33,971	13,892	812	135	489	345	18,298
Franklin	25,560	23,335	307	162	128	580	1,048
Geary	35,586	20,148	6,171	310	1,374	1,784	5,799
Gove	2,589	2,468	11	4	11	25	70
Graham	2,564	2,284	88	12	20	73	87
Grant	7,646	3,900	31	26	31	85	3,573
Gray	6,034	4,981	39	18	21	50	925
Greeley	1,296	1,039	3	7	4	10	233
Greenwood	6,151	5,658	28	71	22	133	239
Hamilton	2,536	1,599	12	16	11	39	859
Harper	5,685	5,141	30	71	21	79	343
Harvey	34,913	29,040	604	197	313	717	4,042
Haskell	4,006	2,668	16	17	54	42	1,209
Hodgeman	1,870	1,660	20	13	10	21	146
Jackson	13,291	11,219	91	942	75	396	568
Jefferson	18,897	17,724	107	158	52	354	502
Jewell	2,901	2,776	8	18	11	22	66
Johnson	584,451	470,067	27,653	1,804	28,303	12,930	43,694
Kearny	3,917	2,535	28	45	13	63	1,233
Kingman	7,467	7,006	20	51	38	96	256
Kiowa	2,483	2,212	25	23	31	41	151
Labette	20,444	17,459	832	400	103	756	894
Lane	1,636	1,441	17	11	5	38	124
Leavenworth	80,204	63,394	7,260	534	1,261	2,214	5,541
Lincoln	3,073	2,901	17	19	13	32	91
Linn	9,558	8,930	80	73	44	179	252
Logan	2,831	2,541	19	14	48	46	163

Table B5
Population by County of Residence and Peer Group†, by Population Group*
Kansas, 2016

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	33,510	23,789	723	211	893	814	7,080
McPherson	28,804	26,444	283	121	311	480	1,165
Marion	12,112	11,237	120	82	66	188	419
Marshall	9,836	9,326	37	33	45	155	240
Meade	4,216	3,351	42	37	24	49	713
Miami	32,964	30,609	393	206	155	577	1,024
Mitchell	6,243	5,934	15	23	51	59	161
Montgomery	32,746	26,144	1,739	983	301	1,528	2,051
Morris	5,573	5,123	31	32	27	97	263
Morton	2,848	2,042	28	28	42	39	669
Nemaha	10,241	9,788	65	48	37	126	177
Neosho	16,146	14,546	189	163	106	277	865
Ness	2,962	2,624	21	9	6	35	267
Norton	5,493	4,914	172	17	39	74	277
Osage	15,843	14,731	94	109	91	301	517
Osborne	3,642	3,467	10	16	40	41	68
Ottawa	5,920	5,575	64	27	12	82	160
Pawnee	6,743	5,664	353	43	35	121	527
Phillips	5,428	5,076	22	20	47	69	194
Pottawatomie	23,661	21,243	299	156	254	460	1,249
Pratt	9,584	8,515	129	46	55	167	672
Rawlins	2,549	2,317	13	7	12	35	165
Reno	63,220	53,449	1,936	402	355	1,281	5,797
Republic	4,699	4,508	23	13	27	50	78
Rice	9,831	8,220	135	61	79	181	1,155
Riley	73,343	56,539	4,721	360	3,741	2,260	5,722
Rooks	5,076	4,773	33	17	41	80	132
Rush	3,058	2,867	13	21	9	38	110
Russell	6,988	6,446	79	62	47	112	242
Saline	55,142	44,256	1,798	266	1,298	1,437	6,087
Scott	5,032	3,989	29	37	45	46	886
Sedgwick	511,995	350,280	45,060	4,300	22,701	16,142	73,512
Seward	22,709	6,950	895	91	675	283	13,815
Shawnee	178,146	132,411	14,104	1,609	2,701	5,891	21,430
Sheridan	2,509	2,347	11	6	4	23	118
Sherman	5,965	5,077	45	21	28	94	700
Smith	3,632	3,445	10	13	12	72	80
Stafford	4,208	3,506	14	34	18	61	575
Stanton	2,062	1,227	17	22	1	34	761
Stevens	5,584	3,423	35	44	21	55	2,006
Sumner	23,272	20,896	255	250	108	505	1,258
Thomas	7,892	7,192	62	33	76	101	428
Trego	2,872	2,731	18	11	21	35	56
Wabaunsee	6,891	6,389	45	54	21	133	249
Wallace	1,497	1,350	6	8	1	16	116
Washington	5,546	5,214	32	8	37	60	195
Wichita	2,112	1,447	19	4	4	17	621
Wilson	8,723	8,009	54	94	61	235	270
Woodson	3,165	2,942	14	35	4	71	99
Wyandotte	163,831	68,186	37,067	698	7,559	3,930	46,391
Peer Group†							
Frontier	108,698	94,397	720	844	615	1,759	10,363
Rural	231,485	205,160	2,410	2,110	1,413	3,524	16,868
Densely -Settled Rural	469,376	362,049	9,270	5,010	6,792	9,628	76,627
Semi-Urban	459,663	377,398	19,809	3,821	9,313	12,545	36,777
Urban	1,638,067	1,178,596	136,304	11,617	68,428	45,276	197,846

* U.S. Census Bureau 2016 population estimates.

† See Technical Notes for Peer Group definition.

Table B6
City Population*
Kansas, 2012-2016

City of Residence	Year 2012	2013	2014	2015	2016	Percent Change 2012-2016
Abilene	6,771	6,665	6,590	6,558	6,469	-4.5
Andover	12,099	12,265	12,509	12,745	12,980	7.3
Arkansas City	12,340	12,305	12,205	12,136	12,063	-2.2
Atchison	10,953	10,925	10,771	10,712	10,679	-2.5
Augusta	9,217	9,203	9,242	9,299	9,321	1.1
Baldwin City	4,526	4,540	4,585	4,669	4,677	3.3
Basehor	4,787	4,898	5,119	5,402	5,651	18.0
Baxter Springs	4,162	4,124	4,073	4,028	3,963	-4.8
Bel Aire	6,838	6,916	7,284	7,435	7,661	12.0
Beloit	3,830	3,846	3,792	3,790	3,769	-1.6
Bonner Springs	7,419	7,480	7,553	7,606	7,665	3.3
Burlington	2,652	2,630	2,635	2,615	2,610	-1.6
Chanute	9,161	9,255	9,295	9,252	9,139	-0.2
Clay Center	4,315	4,239	4,177	4,173	4,069	-5.7
Coffeyville	9,993	9,949	9,876	9,669	9,539	-4.5
Colby	5,406	5,416	5,388	5,417	5,419	0.2
Columbus	3,250	3,223	3,186	3,146	3,104	-4.5
Concordia	5,320	5,261	5,311	5,218	5,179	-2.7
Derby	22,943	23,047	23,234	23,509	23,633	3.0
De Soto	5,869	5,911	6,038	6,074	6,071	3.4
Dodge City	28,075	28,159	28,117	27,912	27,453	-2.2
Edwardsville	4,377	4,355	4,380	4,390	4,390	0.3
El Dorado	12,900	12,852	12,879	12,931	13,141	1.9
Ellsworth	3,116	3,077	3,076	3,057	3,047	-2.2
Emporia	24,958	24,799	24,560	24,649	24,816	-0.6
Eudora	6,184	6,211	6,303	6,378	6,379	3.2
Eureka	2,537	2,527	2,485	2,450	2,410	-5.0
Fairway	3,939	3,963	3,969	3,970	3,972	0.8
Fort Scott	7,934	7,934	7,874	7,838	7,773	-2.0
Frontenac	3,459	3,432	3,444	3,422	3,414	-1.3
Galena	3,029	2,994	2,966	2,930	2,886	-4.7
Garden City	26,985	26,966	27,004	27,005	26,747	-0.9
Gardner	20,318	20,473	20,667	20,868	21,110	3.9
Garnett	3,325	3,307	3,295	3,258	3,264	-1.8
Girard	2,796	2,779	2,773	2,760	2,748	-1.7
Goddard	4,532	4,582	4,692	4,719	4,710	3.9
Goodland	4,559	4,557	4,554	4,457	4,441	-2.6
Great Bend	15,923	15,901	15,840	15,717	15,535	-2.4
Hays	20,993	21,038	21,044	21,092	21,027	0.2
Haysville	10,951	11,004	11,112	11,212	11,245	2.7
Herington	2,493	2,449	2,413	2,396	2,362	-5.3
Hesston	3,742	3,736	3,734	3,813	3,803	1.6
Hiawatha	3,133	3,178	3,108	3,095	3,065	-2.2
Hillsboro	2,926	2,903	2,893	2,869	2,887	-1.3
Hoisington	2,691	2,685	2,664	2,623	2,586	-3.9
Holton	3,302	3,278	3,316	3,263	3,285	-0.5
Hugoton	3,927	3,979	3,966	3,964	3,835	-2.3
Hutchinson	41,962	41,889	41,642	41,569	41,310	-1.6
Independence	9,242	9,230	9,162	8,958	8,799	-4.8
Iola	5,698	5,613	5,553	5,470	5,454	-4.3
Junction City	25,817	25,388	24,665	24,621	24,180	-6.3
Kansas City	147,268	148,483	149,636	151,306	151,709	3.0

Table B6
City Population*
Kansas, 2012-2016

City of Residence	Year 2012	2013	2014	2015	2016	Percent Change 2012-2016
Kingman	3,169	3,158	3,094	3,086	3,000	-5.3
Lansing	11,591	11,642	11,713	11,767	11,849	2.2
Larned	4,023	4,046	4,023	3,967	3,900	-3.1
Lawrence	89,512	90,811	92,763	93,917	95,358	6.5
Leavenworth	35,816	35,891	36,000	35,980	36,154	0.9
Leawood	32,539	32,991	34,395	34,579	34,565	6.2
Lenexa	49,398	50,344	51,042	52,490	52,903	7.1
Liberal	21,084	20,956	21,012	20,746	20,350	-3.5
Lindsborg	3,464	3,481	3,438	3,383	3,338	-3.6
Louisburg	4,282	4,299	4,322	4,276	4,382	2.3
Lyons	3,733	3,737	3,737	3,725	3,671	-1.7
McPherson	13,218	13,322	13,189	13,144	13,164	-0.4
Maize	3,708	3,823	4,073	4,362	4,438	19.7
Manhattan	56,069	56,143	56,078	56,308	54,983	-1.9
Marysville	3,295	3,295	3,295	3,323	3,294	0.0
Merriam	11,174	11,281	11,290	11,288	11,245	0.6
Mission	9,467	9,516	9,501	9,491	9,443	-0.3
Mission Hills	3,564	3,582	3,597	3,601	3,600	1.0
Mulvane	6,267	6,287	6,289	6,314	6,316	0.8
Newton	19,189	19,117	19,120	19,216	19,105	-0.4
Norton	2,871	2,880	2,846	2,841	2,812	-2.1
Olathe	130,045	131,885	133,062	134,305	135,473	4.2
Osage City	2,903	2,899	2,862	2,844	2,837	-2.3
Osawatomie	4,388	4,385	4,357	4,297	4,308	-1.8
Ottawa	12,575	12,482	12,403	12,387	12,356	-1.7
Overland Park	178,919	181,260	184,525	186,515	188,966	5.6
Paola	5,550	5,630	5,593	5,527	5,568	0.3
Park City	7,446	7,499	7,556	7,618	7,632	2.5
Parsons	10,327	10,164	10,174	10,090	9,906	-4.1
Phillipsburg	2,520	2,541	2,556	2,524	2,543	0.9
Pittsburg	20,360	20,398	20,394	20,409	20,366	0.0
Prairie Village	21,769	21,892	21,877	21,877	21,805	0.2
Pratt	6,880	6,986	6,963	6,849	6,771	-1.6
Roeland Park	6,816	6,845	6,840	6,827	6,786	-0.4
Rose Hill	3,932	3,942	3,960	3,995	4,015	2.1
Russell	4,481	4,475	4,484	4,534	4,500	0.4
Sabetha	2,559	2,568	2,564	2,585	2,584	1.0
St Marys	2,656	2,677	2,664	2,662	2,664	0.3
Salina	48,045	47,846	47,867	47,813	47,336	-1.5
Scott City	3,817	3,889	3,927	3,838	3,890	1.9
Shawnee	63,622	64,323	64,599	65,046	65,194	2.5
Spring Hill	5,612	5,730	5,896	5,981	6,166	9.9
Tonganoxie	5,108	5,165	5,192	5,248	5,326	4.3
Topeka	127,939	127,679	127,215	127,265	126,808	-0.9
Ulysses	6,239	6,274	6,160	6,097	6,035	-3.3
Valley Center	6,965	7,011	7,057	7,222	7,343	5.4
Wamego	4,485	4,603	4,578	4,627	4,715	5.1
Wellington	7,997	7,967	7,942	7,987	7,889	-1.4
Wichita	385,577	386,552	388,413	389,965	389,902	1.1
Winfield	12,365	12,333	12,258	12,204	12,284	-0.7

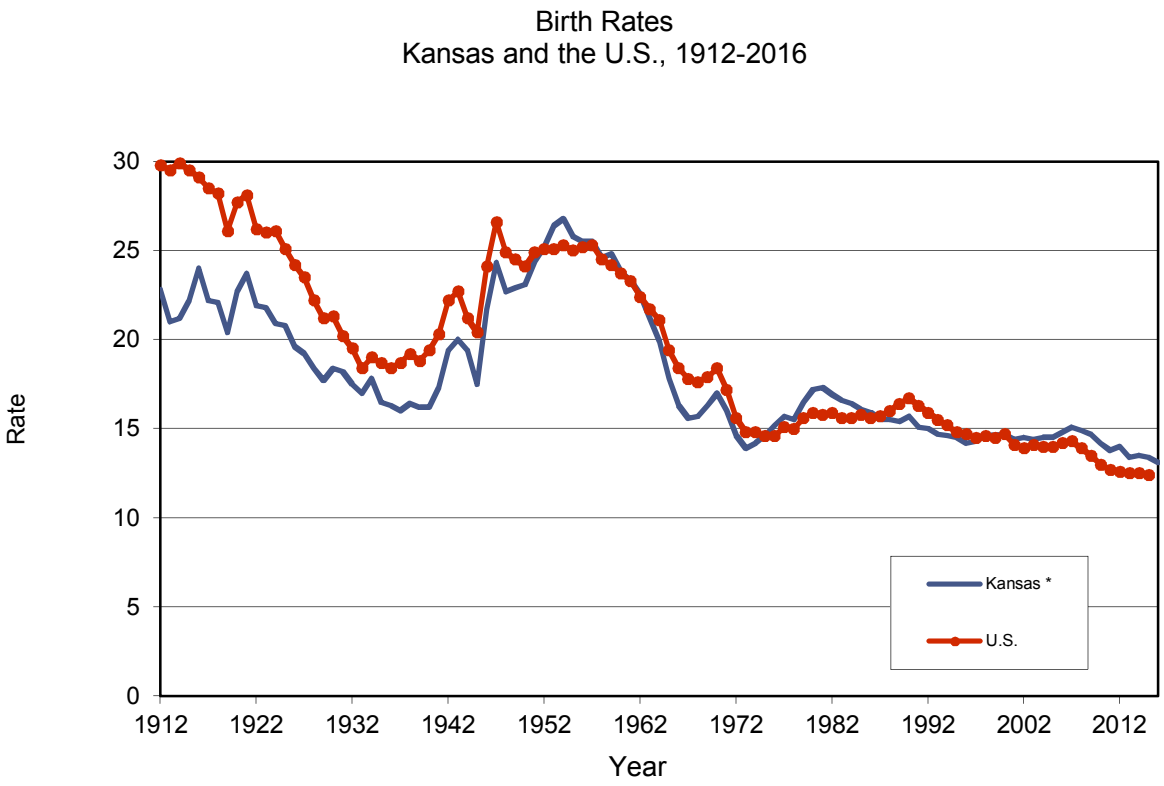
* Includes cities with populations of 2,500 or more as reported by the 2010 U.S. Census.
Source: U.S. Bureau of the Census.

C. LIVE BIRTHS AND FERTILITY

Table C1
Birth Rates*
Kansas† and the U.S., 1912-2016

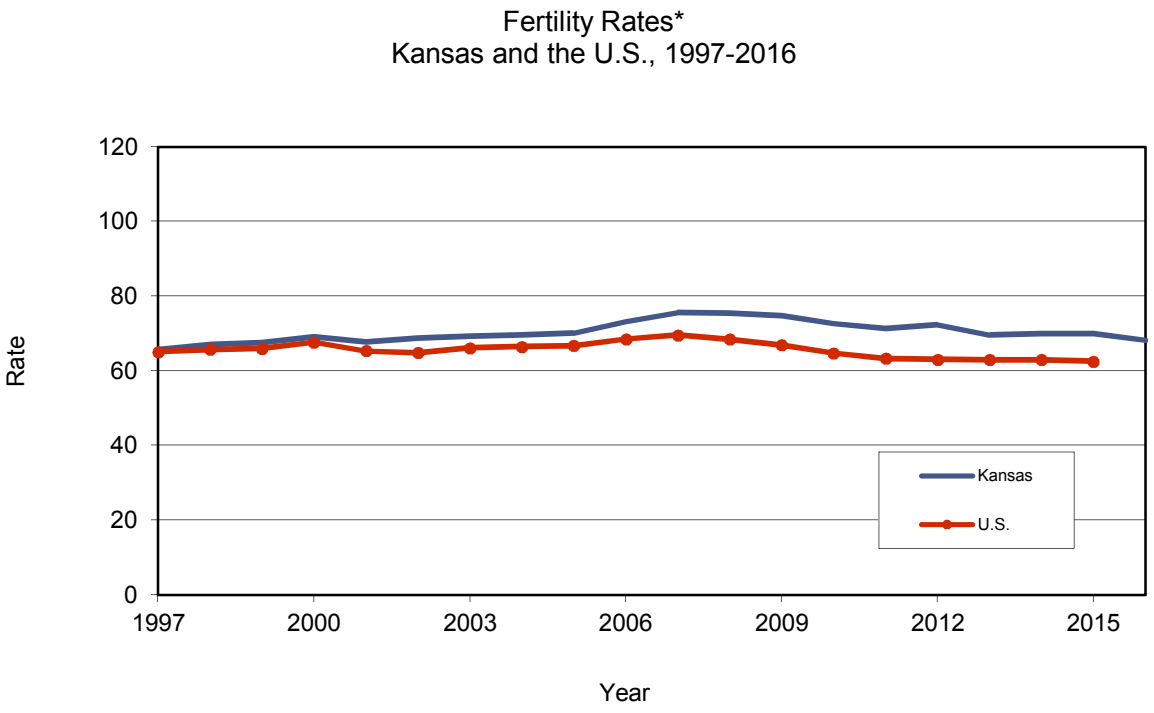
Year	Birth Rates Kansas	Birth Rates U.S.	Year	Birth Rates Kansas	Birth Rates U.S.
1912	22.8	29.8	1965	17.8	19.4
1913	21.0	29.5	1966	16.3	18.4
1914	21.2	29.9	1967	15.6	17.8
1915	22.2	29.5	1968	15.7	17.6
1916	24.0	29.1	1969	16.3	17.9
1917	22.2	28.5	1970	17.0	18.4
1918	22.1	28.2	1971	16.0	17.2
1919	20.4	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	
1964	19.9	21.1			

*Rate per 1,000 population
†1912-1933 Occurrence data
1934-2016 Residence data



*1912-1934 Occurrence data
1935-2016 Residence data

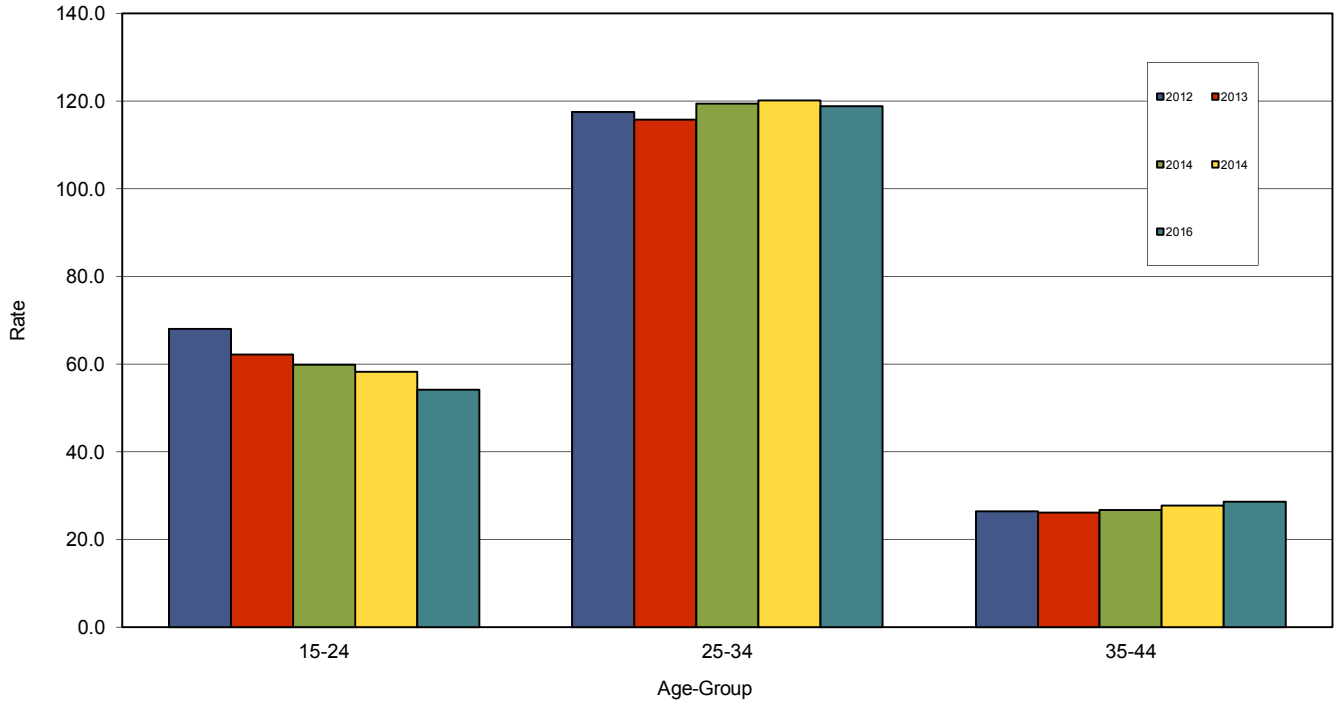
Figure C1



*Rate per 1,000 Female
Population 15-44

Figure C2

Age-Specific Fertility Rates by Year by Age-Group of Mother*
Kansas, 2012-2016



*Rate per 1,000 Female Age- Group Population

Figure C3

Table C2
Age-Specific Fertility Rates*
by Age-Group of Mother
Kansas, 1997-2016

Age-Group	Year																				Percent Change
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	1997-2016
Total	65.6	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	3.8
15-24	80.6	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	-32.9
25-34	103.8	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	14.5
35-44	19.3	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	47.7

*Rate per 1,000 female age-group population

Table C3
Live Births by Age-Group of Mother by Sex of Infant
Kansas, 2016

Age-Group of Mother	Total		Sex	
	Number	Percent	Male	Female
Total*	38,048	100	19,579	18,469
Under 15	22	0.1	12	10
15-17	551	1.4	291	260
18-19	1,575	4.1	824	751
20-24	8,696	22.9	4,460	4,236
25-29	11,812	31.0	6,089	5,723
30-34	10,487	27.6	5,417	5,070
35-39	4,149	10.9	2,095	2,054
40-44	721	1.9	371	350
45 & Over	32	0.1	19	13
n.s.	3	n/a	1	2

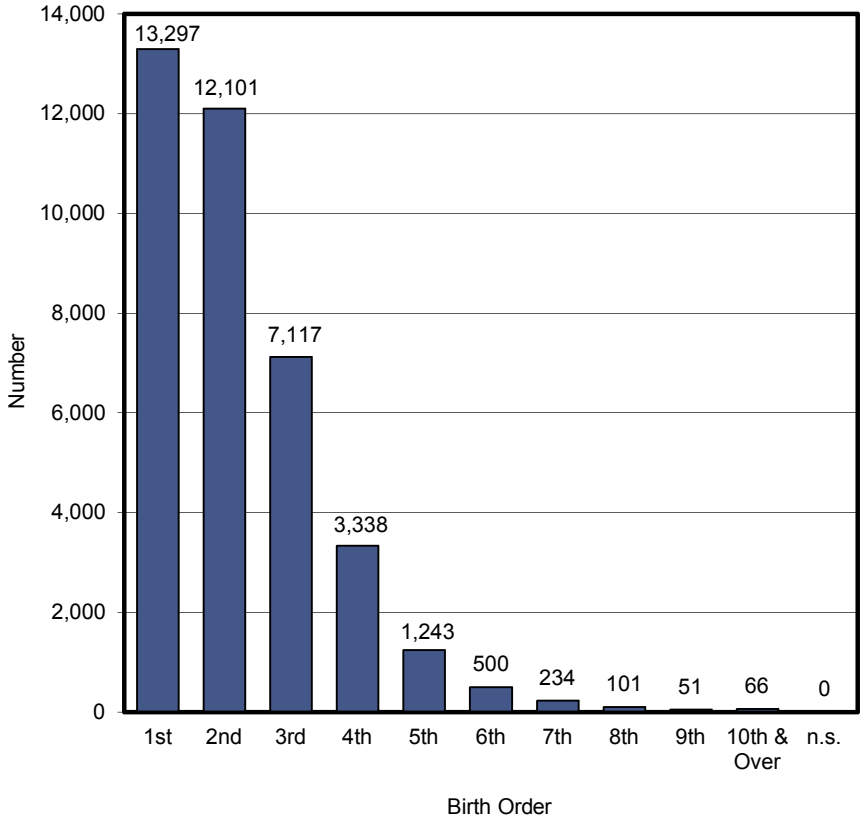
Table C4
Live Births by Age-Group of Father by Age-Group of Mother
Kansas, 2016

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..	38,048	573	22	2,126	8,696	11,812	10,487	4,149	721	32	3
Under 18....	193	126	7	176	10	0	0	0	0	0	0
10-14	3	3	1	2	0	0	0	0	0	0	0
15-19	889	282	6	675	191	10	5	1	1	0	0
20-24	5,159	94	1	780	3,610	638	100	27	3	0	0
25-29	9,583	15	0	133	2,722	5,488	1,082	145	12	0	1
30-34	10,494	0	0	32	653	3,600	5,388	753	67	0	1
35-39	5,762	0	0	7	180	880	2,593	1,962	138	2	0
40-44	1,880	1	0	5	67	213	580	733	270	11	1
45 & Over	878	0	0	3	34	111	256	284	175	15	0
n.s.	3,400	178	14	489	1,239	872	483	244	55	4	0

Table C5
Live Births by Age-Group of Mother by Birth Weight in Grams
Kansas, 2016

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	38,048	47	182	201	1.1	535	1,689	7.0	6,436	14,630	10,875	2,995	407	50	1
10-14	22	0	0	2	9.1	0	1	13.6	5	13	1	0	0	0	0
15-19	2,126	6	7	12	1.2	37	119	8.5	442	876	529	87	10	1	0
20-24	8,696	9	46	40	1.1	127	405	7.2	1704	3,529	2,264	506	60	6	0
25-29	11,812	18	51	64	1.1	155	461	6.3	1933	4,618	3,445	930	124	12	1
30-34	10,487	6	56	53	1.1	137	425	6.5	1583	3850	3213	996	149	19	0
35-39	4,149	6	21	25	1.3	62	220	8.1	647	1455	1240	410	55	8	0
40-44	721	2	0	5	1.0	17	54	10.8	113	276	176	66	8	4	0
45 & Over	32	0	1	0	3.1	0	4	15.6	8	11	7	0	1	0	0
n.s.	3	0	0	0	n/a	0	0	n/a	1	2	0	0	0	0	0

Live Births by Birth Order*
Kansas, 2016



* Sum of prior live births plus current birth.

Figure C4

Table C6
Live Births by Birth Order by Age-Group of Mother
Kansas, 2016

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	38,048	573	22	2,126	8,696	11,812	10,487	4,149	721	32	3
First	13,297	541	22	1,820	4,208	4,028	2,433	683	96	7	0
Second	12,101	31	0	273	2,948	4,010	3,548	1,160	155	6	1
Third	7,117	1	0	31	1,114	2,334	2,411	1,057	161	8	1
Fourth	3,338	0	0	2	327	962	1,270	645	125	6	1
Fifth	1,243	0	0	0	77	310	505	281	67	3	0
Sixth	500	0	0	0	16	116	183	143	42	0	0
Seventh	234	0	0	0	5	34	80	85	30	0	0
Eighth	101	0	0	0	0	11	30	45	14	1	0
Ninth	51	0	0	0	1	6	13	23	8	0	0
Tenth & Over	66	0	0	0	0	1	14	27	23	1	0
n.s.	0	0	0	0	0	0	0	0	0	0	0

Table C7
Live Births by Population Group of Mother
by Trimester Prenatal Care Began
Kansas, 2016

Population Group of Mother	Total	Trimester Care Began								
		1st		2nd		3rd		None		n.s.
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	
Total	38,048	30,643	81.2	5,750	15.2	1,212	3.2	116	0.3	327
White Non-Hispanic	26,786	22,561	84.8	3,357	12.6	626	2.4	71	0.3	171
Black Non-Hispanic	2,494	1,805	73.7	515	21.0	109	4.5	19	0.8	46
Native American Non-Hispanic	170	118	71.1	42	25.3	6	3.6	0	0.0	4
Asian/Pacific Islander Non-Hispanic	1,221	973	80.4	191	15.8	44	3.6	2	0.2	11
Other/Multi-Race Non-Hispanic	1,056	786	74.6	215	20.4	46	4.4	6	0.6	3
Hispanic	6,300	4,388	70.7	1,425	23.0	379	6.1	17	0.3	91
n.s.	21	12	60.0	5	25.0	2	10.0	1	5.0	1

Table C8
Live Births by Population Group of Mother by Birth Weight in Grams
Kansas, 2016

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	38,048	47	182	201	1.1	535	1,689	7.0	6,436	14,630	10,875	2,995	407	50	1
White Non-Hispanic	26,786	26	113	128	1.0	371	1,086	6.4	4,132	10,098	8,117	2,353	329	33	0
Black Non-Hispanic	2,494	11	32	32	3.0	71	196	13.7	647	930	476	88	9	2	0
Native American Non-Hispanic	170	0	1	1	1.2	1	12	8.8	22	58	56	17	2	0	0
Asian/Pacific Islander Non-Hispanic	1,221	1	4	5	0.8	15	66	7.5	279	555	233	55	6	2	0
Other/Multi-Race Non-Hispanic	1,056	1	2	10	1.2	15	48	7.2	226	406	271	68	7	2	0
Hispanic	6,300	8	30	25	1.0	61	280	6.4	1,125	2,575	1,717	414	54	11	0
n.s.	21	0	0	0	0.0	1	1	10.0	5	8	5	0	0	0	1

Table C9
Live Births by Population Group of Mother by Final Route of Delivery
Kansas, 2016

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	38,048	25,777	263	770	70.5	3,412	7,817	6	29.5	30.4	3
White Non-Hispanic	26,786	18,059	192	552	70.2	2,430	5,547	5	29.8	30.5	1
Black Non-Hispanic	2,494	1,598	6	46	66.2	279	564	0	33.8	33.1	1
Native American Non-Hispanic	170	118	0	5	72.4	14	33	0	27.6	29.8	0
Asian/Pacific Islander Non-Hispanic	1,221	819	12	30	70.5	114	246	0	29.5	31.7	0
Other/Multi-Race Non-Hispanic	1,056	730	11	13	71.4	99	203	0	28.6	32.8	0
Hispanic	6,300	4,444	42	122	73.1	475	1,216	1	26.9	28.1	0
n.s.	21	9	0	2	55.0	1	8	0	45.0	11.1	1

Table C10
Live Births by County of Residence and Peer Group*
by Number and Rate†
Kansas, 2012-2016

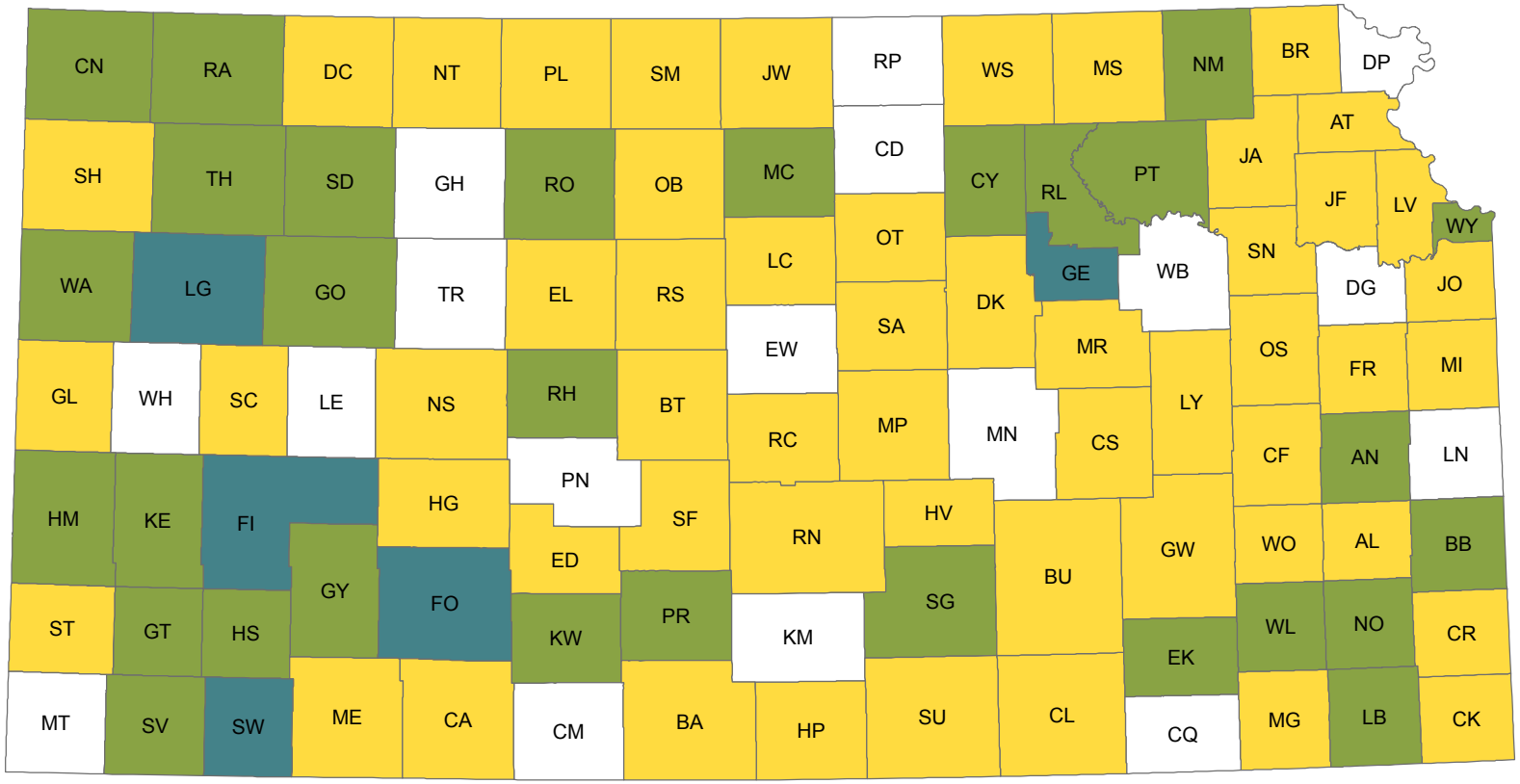
County of Residence	Year										5-Year Rate
	2012		2013		2014		2015		2016		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
Kansas	40,304	14.0	38,805	13.4	39,193	13.5	39,126	13.4	38,048	13.1	13.5
Allen	154	11.6	143	10.9	157	12.2	144	11.3	137	10.8	11.3
Anderson	85	10.7	94	11.9	104	13.2	84	10.8	111	14.2	12.2
Atchison	204	12.1	191	11.4	205	12.4	208	12.7	203	12.4	12.2
Barber	66	13.6	60	12.1	63	12.9	59	12.2	56	11.9	12.6
Barton	401	14.6	350	12.7	340	12.4	362	13.4	331	12.4	13.1
Bourbon	203	13.6	218	14.7	228	15.4	211	14.3	194	13.3	14.3
Brown	136	13.8	139	13.9	119	12.1	133	13.6	112	11.6	13.0
Butler	801	12.2	751	11.4	749	11.3	744	11.1	757	11.3	11.5
Chase	26	9.4	26	9.6	30	11.1	24	9.0	32	12.0	10.2
Chautauqua	40	11.2	34	9.6	32	9.2	42	12.3	28	8.3	10.1
Cherokee	227	10.7	219	10.4	239	11.5	252	12.3	217	10.7	11.1
Cheyenne	26	9.7	27	10.0	30	11.1	39	14.6	39	14.7	12.0
Clark	30	13.8	20	9.1	18	8.4	25	11.9	24	11.6	10.9
Clay	97	11.4	113	13.4	108	13.0	89	10.7	117	14.4	12.6
Cloud	135	14.4	103	11.1	102	10.9	127	13.8	91	9.9	12.0
Coffey	82	9.6	94	11.2	87	10.3	76	9.1	95	11.3	10.3
Comanche	23	12.0	21	10.7	24	12.3	21	11.4	13	7.0	10.7
Cowley	456	12.6	456	12.6	459	12.8	445	12.4	397	11.1	12.3
Crawford	493	12.5	489	12.4	560	14.3	477	12.2	480	12.3	12.7
Decatur	37	12.9	33	11.3	36	12.4	34	11.6	31	10.9	11.8
Dickinson	205	10.4	218	11.1	222	11.4	236	12.2	225	11.8	11.4
Doniphan	85	10.8	81	10.3	63	8.0	97	12.4	74	9.7	10.2
Douglas	1,262	11.2	1,219	10.7	1,216	10.4	1,327	11.2	1,177	9.9	10.7
Edwards	39	13.1	32	10.9	39	12.9	29	9.8	31	10.6	11.4
Elk	27	9.9	27	10.2	33	12.2	21	8.1	35	13.7	10.8
Ellis	406	14.0	360	12.4	336	11.6	364	12.5	357	12.4	12.6
Ellsworth	67	10.3	52	8.1	55	8.6	65	10.2	63	10.0	9.5
Finney	703	18.9	656	17.7	690	18.6	725	19.5	655	17.8	18.5
Ford	673	19.4	681	19.6	663	19.1	649	18.8	646	19.0	19.2
Franklin	324	12.5	332	12.9	313	12.2	320	12.5	298	11.7	12.4
Geary	1,060	27.9	1,029	27.5	1,052	28.7	1,118	30.2	967	27.2	28.3
Gove	30	11.0	30	10.8	42	15.4	37	14.0	40	15.4	13.3
Graham	29	11.2	24	9.3	24	9.4	21	8.1	20	7.8	9.2
Grant	112	14.1	123	15.5	132	16.9	121	15.6	123	16.1	15.6
Gray	87	14.4	103	17.1	81	13.3	81	13.2	86	14.3	14.5
Greeley	19	14.6	25	19.4	19	14.6	16	12.0	15	11.6	14.4
Greenwood	59	9.1	62	9.7	66	10.4	69	11.1	67	10.9	10.2
Hamilton	41	15.5	37	14.2	43	16.5	34	13.7	37	14.6	14.9
Harper	66	11.2	83	14.2	86	14.8	80	13.8	65	11.4	13.1
Harvey	463	13.3	445	12.8	414	11.9	411	11.7	379	10.9	12.1
Haskell	58	13.6	52	12.6	49	11.9	56	13.8	55	13.7	13.1
Hodgeman	28	14.3	21	10.8	25	13.0	14	7.4	23	12.3	11.6
Jackson	176	13.1	156	11.7	171	12.6	172	12.9	169	12.7	12.6
Jefferson	196	10.3	195	10.4	177	9.4	184	9.7	202	10.7	10.1
Jewell	31	10.2	27	8.9	33	10.8	31	10.4	36	12.4	10.5
Johnson	7,437	13.3	7,320	12.9	7,394	12.9	7,528	13.0	7,350	12.6	12.9
Kearny	55	13.9	63	16.1	62	15.8	63	15.9	61	15.6	15.4
Kingman	80	10.2	90	11.5	73	9.5	98	12.7	74	9.9	10.8
Kiowa	32	12.8	39	15.5	28	11.1	37	14.4	37	14.9	13.8
Labette	297	14.0	270	12.9	264	12.6	257	12.4	293	14.3	13.2
Lane	22	12.9	23	13.4	19	11.3	13	7.8	16	9.8	11.0
Leavenworth	966	12.4	955	12.2	987	12.5	1,013	12.8	999	12.5	12.5
Lincoln	33	10.4	25	7.9	34	10.7	28	9.0	37	12.0	10.0
Linn	97	10.3	91	9.6	111	11.7	109	11.4	95	9.9	10.6
Logan	30	10.8	33	11.8	37	13.2	43	15.2	54	19.1	14.0

Table C10
Live Births by County of Residence and Peer Group*
by Number and Rate†
Kansas, 2012-2016

County of Residence	Year										5-Year Rate
	2012		2013		2014		2015		2016		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
Lyon	421	12.5	419	12.5	406	12.2	416	12.5	417	12.4	12.4
McPherson	366	12.5	320	10.8	343	11.7	336	11.6	308	10.7	11.5
Marion	112	9.1	109	8.9	130	10.6	109	9.0	118	9.7	9.5
Marshall	124	12.4	125	12.5	123	12.3	138	13.9	112	11.4	12.5
Meade	45	10.2	69	15.9	56	12.9	68	15.7	54	12.8	13.5
Miami	364	11.2	297	9.0	410	12.5	354	10.9	345	10.5	10.8
Mitchell	74	11.6	72	11.3	92	14.6	77	12.3	84	13.5	12.6
Montgomery	502	14.6	427	12.5	453	13.3	447	13.4	385	11.8	13.1
Morris	73	12.5	59	10.3	62	10.9	54	9.6	63	11.3	10.9
Morton	52	16.4	37	11.8	40	12.9	24	8.0	25	8.8	11.7
Nemaha	126	12.4	154	15.2	157	15.5	146	14.3	140	13.7	14.2
Neosho	230	14.0	204	12.4	218	13.3	189	11.6	217	13.4	12.9
Ness	41	13.4	33	10.7	38	12.2	33	11.0	37	12.5	12.0
Norton	53	9.4	51	9.1	57	10.3	61	11.0	66	12.0	10.3
Osage	157	9.7	150	9.3	174	10.9	158	10.0	183	11.6	10.3
Osborne	37	9.7	50	13.1	46	12.2	49	13.3	40	11.0	11.9
Ottawa	68	11.2	58	9.6	50	8.2	60	10.0	61	10.3	9.9
Pawnee	68	9.8	63	9.0	64	9.3	67	9.8	64	9.5	9.5
Phillips	74	13.4	65	11.7	73	13.2	50	9.2	68	12.5	12.0
Pottawatomie	370	16.6	353	15.6	345	15.1	362	15.5	394	16.7	15.9
Pratt	149	15.3	122	12.4	147	14.9	142	14.7	126	13.1	14.1
Rawlins	33	12.9	22	8.5	34	13.2	26	10.4	34	13.3	11.7
Reno	742	11.5	743	11.6	737	11.6	683	10.7	683	10.8	11.2
Republic	48	9.9	49	10.2	52	10.8	49	10.4	43	9.2	10.1
Rice	119	11.9	128	12.8	125	12.5	132	13.2	110	11.2	12.3
Riley	1,177	15.6	999	13.3	1,073	14.3	1,017	13.5	976	13.3	14.0
Rooks	62	11.9	60	11.6	59	11.4	58	11.2	68	13.4	11.9
Rush	31	9.6	30	9.4	21	6.6	37	11.8	40	13.1	10.1
Russell	85	12.2	94	13.6	82	11.8	74	10.5	81	11.6	11.9
Saline	766	13.7	772	13.9	752	13.5	729	13.1	662	12.0	13.2
Scott	62	12.6	61	12.1	73	14.4	51	10.3	63	12.5	12.4
Sedgwick	7,889	15.7	7,487	14.8	7,358	14.5	7,284	14.2	7,309	14.3	14.7
Seward	462	19.6	441	18.9	444	18.9	428	18.5	429	18.9	19.0
Shawnee	2,431	13.6	2,352	13.2	2,340	13.1	2,269	12.7	2,189	12.3	13.0
Sheridan	26	10.2	31	12.1	24	9.5	28	11.1	33	13.2	11.2
Sherman	82	13.4	80	13.1	82	13.4	84	14.0	73	12.2	13.2
Smith	40	10.6	28	7.6	28	7.4	50	13.5	40	11.0	10.0
Stafford	40	9.2	49	11.2	54	12.6	55	13.0	53	12.6	11.7
Stanton	29	13.3	38	17.3	26	12.3	39	18.8	25	12.1	14.8
Stevens	89	15.5	99	17.0	67	11.5	77	13.3	74	13.3	14.1
Sumner	279	11.8	272	11.5	252	10.7	290	12.3	255	11.0	11.5
Thomas	118	14.9	98	12.3	138	17.5	107	13.5	119	15.1	14.7
Trego	24	8.0	33	11.1	36	12.4	46	15.7	28	9.7	11.4
Wabaunsee	107	15.2	98	13.9	70	10.0	90	12.9	67	9.7	12.4
Wallace	20	13.2	23	14.7	16	10.6	20	13.2	23	15.4	13.4
Washington	68	11.8	79	14.0	66	11.8	86	15.4	67	12.1	13.0
Wichita	31	13.7	25	11.4	28	12.9	20	9.3	21	9.9	11.5
Wilson	123	13.5	109	12.0	109	12.1	98	11.1	114	13.1	12.3
Woodson	28	8.5	29	9.0	35	11.1	31	10.0	38	12.0	10.1
Wyandotte	2,770	17.4	2,678	16.7	2,785	17.2	2,763	16.9	2,694	16.4	16.9
n.s.	0	N/A	1	N/A	0	N/A	2	N/A	4	N/A	N/A
Peer Group											
Frontier	1,316	11.7	1,297	11.5	1,325	11.9	1,337	12.1	1,326	12.2	11.9
Rural	2,870	12.1	2,859	12.1	2,879	12.3	2,818	12.1	2,765	11.9	12.1
Densely -Settled Rural	6,671	14.0	6,353	13.3	6,396	13.5	6,485	13.7	6,303	13.4	13.6
Semi-Urban	6,692	14.3	6,284	13.5	6,513	14.0	6,300	13.6	5,932	12.9	13.7
Urban	22,755	14.3	22,011	13.7	22,080	13.6	22,184	13.6	21,718	13.3	13.7

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

Birth Rates
By County of Residence
Kansas, 2016



Live Births per 1,000 population

State Rate: 13.1

Legend

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

Figure C5

Table C11
Live Births by County of Residence and Peer Group*
by Age-Group of Mother
Kansas, 2016

County of Residence	Age-Group of Mother									
	Total	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	n.s.
Kansas	38,048	22	2,126	8,696	11,812	10,487	4,149	721	32	3
Allen	137	1	12	45	35	32	10	2	0	0
Anderson	111	0	8	24	42	24	11	2	0	0
Atchison	203	0	17	53	71	42	18	2	0	0
Barber	56	0	3	19	16	17	0	1	0	0
Barton	331	1	24	96	120	70	18	2	0	0
Bourbon	194	0	20	62	69	31	10	2	0	0
Brown	112	0	6	37	33	31	5	0	0	0
Butler	757	0	36	167	237	225	76	16	0	0
Chase	32	0	2	6	13	9	1	1	0	0
Chautauqua	28	0	3	5	7	8	4	1	0	0
Cherokee	217	0	20	70	62	48	15	2	0	0
Cheyenne	39	0	4	11	11	8	5	0	0	0
Clark	24	0	2	3	11	5	3	0	0	0
Clay	117	0	4	16	49	31	17	0	0	0
Cloud	91	0	4	24	37	19	6	1	0	0
Coffey	95	0	5	29	37	16	5	3	0	0
Comanche	13	0	0	3	7	3	0	0	0	0
Cowley	397	0	32	125	137	65	35	3	0	0
Crawford.	480	1	33	150	152	102	36	6	0	0
Decatur	31	0	0	16	8	4	3	0	0	0
Dickinson	225	0	14	61	75	52	18	5	0	0
Doniphan	74	0	5	16	28	17	6	2	0	0
Douglas	1,177	0	33	215	333	382	189	23	2	0
Edwards	31	0	2	7	15	4	3	0	0	0
Elk	35	0	2	8	12	7	5	1	0	0
Ellis	357	0	7	72	131	97	40	8	1	1
Ellsworth	63	0	2	13	19	24	3	2	0	0
Finney	655	0	58	191	187	139	67	12	1	0
Ford	646	0	45	184	199	142	64	12	0	0
Franklin	298	0	19	91	96	68	20	4	0	0
Geary	967	1	52	365	303	177	55	14	0	0
Gove	40	0	2	7	21	8	2	0	0	0
Graham	20	0	0	8	4	5	3	0	0	0
Grant	123	0	8	35	38	22	17	3	0	0
Gray	86	0	2	20	31	23	9	1	0	0
Greeley	15	0	1	3	4	6	1	0	0	0
Greenwood	67	0	4	20	25	9	9	0	0	0
Hamilton	37	0	2	13	13	5	2	1	0	1
Harper	65	0	2	14	24	18	7	0	0	0
Harvey	379	0	30	93	116	88	43	9	0	0
Haskell	55	0	3	16	20	11	3	2	0	0
Hodgeman	23	0	1	2	8	9	3	0	0	0
Jackson	169	0	8	51	51	46	11	2	0	0
Jefferson	202	0	13	50	67	48	17	6	1	0
Jewell	36	0	1	10	14	6	5	0	0	0
Johnson	7,350	0	143	755	2,055	2,937	1,251	199	9	1
Kearny	61	0	3	18	20	17	2	1	0	0
Kingman	74	0	4	26	21	17	5	1	0	0
Kiowa	37	0	2	8	18	7	2	0	0	0
Labette	293	0	25	92	92	66	16	2	0	0
Lane	16	0	1	3	6	3	2	1	0	0
Leavenworth	999	0	55	209	287	314	116	16	2	0
Lincoln	37	0	1	11	10	7	8	0	0	0
Linn	95	0	9	22	33	19	11	1	0	0
Logan	54	0	2	15	21	10	2	4	0	0

Table C11
Live Births by County of Residence and Peer Group*
by Age-Group of Mother
Kansas, 2016

County of Residence	Age-Group of Mother									
	Total	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	n.s.
Lyon	417	1	32	111	135	92	39	7	0	0
McPherson	308	0	16	66	106	82	34	4	0	0
Marion	118	0	7	22	41	36	11	1	0	0
Marshall	112	0	7	25	38	28	13	1	0	0
Meade	54	0	6	13	18	12	4	1	0	0
Miami	345	0	19	71	110	103	31	10	1	0
Mitchell	84	0	7	19	25	27	6	0	0	0
Montgomery	385	0	29	122	123	66	39	6	0	0
Morris	63	0	1	18	22	13	7	2	0	0
Morton	25	0	3	4	10	5	3	0	0	0
Nemaha	140	0	4	22	60	39	12	3	0	0
Neosho	217	0	16	73	72	38	15	3	0	0
Ness	37	0	5	8	12	7	5	0	0	0
Norton	66	0	3	22	19	16	3	3	0	0
Osage	183	0	13	53	57	41	16	3	0	0
Osborne	40	0	1	18	12	7	0	2	0	0
Ottawa	61	0	3	19	23	12	3	1	0	0
Pawnee	64	0	3	20	21	13	7	0	0	0
Phillips	68	0	3	16	22	18	7	1	1	0
Pottawatomie	394	0	15	73	111	120	66	7	2	0
Pratt	126	0	9	33	39	32	11	2	0	0
Rawlins	34	0	1	7	10	14	1	1	0	0
Reno	683	2	45	214	209	151	52	10	0	0
Republic	43	1	2	13	18	7	2	0	0	0
Rice	110	0	11	26	38	25	9	1	0	0
Riley	976	0	33	250	332	259	88	14	0	0
Rooks	68	0	1	18	28	14	7	0	0	0
Rush	40	0	1	7	17	12	2	1	0	0
Russell	81	0	4	26	24	17	9	1	0	0
Saline	662	1	43	167	229	153	55	11	3	0
Scott	63	0	4	19	19	13	8	0	0	0
Sedgwick	7,309	5	494	1,762	2,270	1,920	726	127	5	0
Seward	429	0	41	126	129	85	40	8	0	0
Shawnee	2,189	3	153	530	691	562	205	44	1	0
Sheridan	33	0	2	6	17	3	5	0	0	0
Sherman	73	0	1	18	24	17	10	3	0	0
Smith	40	0	1	10	9	14	5	1	0	0
Stafford	53	0	5	13	20	10	5	0	0	0
Stanton	25	0	0	8	13	3	1	0	0	0
Stevens	74	0	4	24	21	18	4	3	0	0
Sumner	255	0	16	69	102	40	23	5	0	0
Thomas	119	0	10	27	46	22	12	2	0	0
Trego	28	0	3	8	6	8	3	0	0	0
Wabaunsee	67	1	3	15	21	23	3	1	0	0
Wallace	23	0	0	7	8	7	1	0	0	0
Washington	67	0	3	10	25	19	8	2	0	0
Wichita	21	0	1	3	10	4	3	0	0	0
Wilson.	114	0	11	38	36	25	3	1	0	0
Woodson	38	0	5	7	12	9	4	1	0	0
Wyandotte	2,694	4	230	755	801	623	228	50	3	0
n.s.	4	0	0	0	0	3	0	1	0	0
Peer Group										
Frontier	1,326	0	69	344	478	294	120	20	0	1
Rural	2,765	2	161	697	954	667	241	42	1	0
Densely -Settled Rural	6,303	3	449	1,739	2,036	1,393	578	99	5	1
Semi-Urban	5,932	5	339	1,690	1,907	1,392	495	100	4	0
Urban	21,718	12	1,108	4,226	6,437	6,738	2,715	459	22	1

Table C12
Live Births by County of Residence and Peer Group*
By Weeks Gestation
Kansas, 2016

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	38,048	11	35	181	280	1,605	1,345	9,266	14,951	10,218	141	15	9.1
Allen	137	0	0	1	1	6	1	33	63	30	2	0	6.6
Anderson	111	0	0	0	0	1	3	22	57	27	1	0	3.6
Atchison	203	0	1	0	3	5	6	52	73	61	2	0	7.4
Barber	56	0	0	0	0	4	0	9	26	17	0	0	7.1
Barton	331	0	0	0	6	22	12	97	135	59	0	0	12.1
Bourbon	194	0	1	2	1	11	10	58	81	28	1	1	13.0
Brown	112	0	0	1	1	4	4	21	47	34	0	0	8.9
Butler	757	0	0	2	7	40	33	179	321	173	1	1	10.8
Chase	32	0	0	0	0	0	0	6	17	9	0	0	0.0
Chautauqua	28	0	0	0	0	2	3	5	14	4	0	0	17.9
Cherokee	217	0	0	0	0	10	15	55	96	41	0	0	11.5
Cheyenne	39	0	0	0	1	3	4	9	13	8	1	0	20.5
Clark	24	0	0	0	0	1	1	4	7	11	0	0	8.3
Clay	117	0	1	2	1	6	0	20	51	36	0	0	8.5
Cloud	91	0	0	0	0	1	1	25	32	32	0	0	2.2
Coffey	95	0	0	0	0	1	2	13	47	32	0	0	3.2
Comanche	13	0	0	0	1	0	1	5	5	1	0	0	15.4
Cowley	397	0	0	3	0	26	26	124	139	79	0	0	13.9
Crawford	480	0	1	2	5	21	30	173	173	74	1	0	12.3
Decatur	31	0	0	0	0	1	1	11	8	10	0	0	6.5
Dickinson	225	0	0	2	2	22	7	52	78	60	2	0	14.7
Doniphan	74	0	0	0	0	3	2	16	28	24	1	0	6.8
Douglas	1,177	0	2	7	9	57	30	288	478	298	8	0	8.9
Edwards	31	0	0	0	0	3	1	5	14	8	0	0	12.9
Elk	35	0	0	0	0	2	3	16	8	6	0	0	14.3
Ellis	357	0	0	2	3	20	10	86	146	89	1	0	9.8
Ellsworth	63	0	0	0	0	2	1	12	32	16	0	0	4.8
Finney	655	0	0	1	5	31	25	150	270	167	6	0	9.5
Ford	646	0	0	2	8	15	16	165	248	189	3	0	6.3
Franklin	298	0	0	3	1	12	14	67	121	77	3	0	10.1
Geary	967	0	1	7	4	39	33	263	325	294	1	0	8.7
Gove	40	0	0	2	0	0	2	10	14	12	0	0	10.0
Graham	20	0	0	0	0	0	0	4	11	5	0	0	0.0
Grant	123	0	0	0	1	3	11	35	45	27	0	1	12.3
Gray	86	0	0	2	0	2	3	16	36	27	0	0	8.1
Greeley	15	0	0	0	0	1	0	2	10	2	0	0	6.7
Greenwood	67	0	0	0	1	3	2	20	30	11	0	0	9.0
Hamilton	37	0	0	0	0	1	0	6	21	9	0	0	2.7
Harper	65	0	0	0	1	1	2	19	25	17	0	0	6.2
Harvey	379	0	0	2	2	11	6	94	167	95	0	2	5.6
Haskell	55	0	0	1	0	0	1	12	29	12	0	0	3.6
Hodgeman	23	0	0	0	0	1	1	10	6	5	0	0	8.7
Jackson	169	0	0	2	1	3	11	55	63	33	1	0	10.1
Jefferson	202	0	0	1	3	4	3	45	97	47	2	0	5.4
Jewell	36	0	0	1	0	0	1	7	15	12	0	0	5.6
Johnson	7,350	5	2	15	32	313	223	1,665	2,787	2,273	32	3	8.0
Kearny	61	0	0	0	0	4	3	12	27	15	0	0	11.5
Kingman	74	0	0	0	1	2	2	14	34	21	0	0	6.8
Kiowa	37	0	0	0	0	0	0	6	17	14	0	0	0.0
Labette	293	0	1	3	1	8	11	76	131	60	2	0	8.2
Lane	16	0	0	1	0	0	0	5	6	3	1	0	6.3
Leavenworth	999	1	0	6	4	48	53	262	363	261	1	0	11.2
Lincoln	37	0	0	0	0	1	3	5	14	13	1	0	10.8
Linn	95	0	0	0	0	2	6	24	38	25	0	0	8.4
Logan	54	0	0	0	0	3	0	23	17	11	0	0	5.6

Table C12
Live Births by County of Residence and Peer Group*
By Weeks Gestation
Kansas, 2016

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	417	0	0	2	6	12	18	105	145	126	3	0	9.1
McPherson	308	1	0	2	2	21	14	63	125	78	2	0	13.0
Marion	118	0	0	0	0	8	9	21	51	28	1	0	14.4
Marshall	112	0	0	0	1	1	4	27	44	34	1	0	5.4
Meade	54	0	0	0	1	3	1	12	21	16	0	0	9.3
Miami	345	0	0	5	1	21	7	64	161	84	2	0	9.9
Mitchell	84	0	0	1	0	3	9	16	26	29	0	0	15.5
Montgomery	385	0	1	2	2	17	11	100	160	90	1	1	8.6
Morris	63	0	0	1	0	0	3	7	30	22	0	0	6.3
Morton	25	0	0	1	0	0	0	10	7	6	0	1	4.2
Nemaha	140	0	0	1	1	3	6	28	54	46	1	0	7.9
Neosho	217	0	0	1	5	8	2	61	91	49	0	0	7.4
Ness	37	0	0	0	0	4	0	7	16	10	0	0	10.8
Norton	66	0	0	0	0	2	1	16	29	17	1	0	4.5
Osage	183	0	0	0	1	10	4	33	92	41	2	0	8.2
Osborne	40	0	0	0	1	1	0	10	18	10	0	0	5.0
Ottawa	61	0	0	0	1	4	2	9	26	19	0	0	11.5
Pawnee	64	0	0	0	0	2	3	14	27	17	1	0	7.8
Phillips	68	0	0	1	1	3	3	16	29	13	2	0	11.8
Pottawatomie	394	0	0	2	2	14	10	84	134	145	1	2	7.1
Pratt	126	0	0	0	2	5	6	28	46	39	0	0	10.3
Rawlins	34	0	0	0	1	1	1	13	11	7	0	0	8.8
Reno	683	0	0	2	6	33	22	173	275	171	1	0	9.2
Republic	43	0	0	0	1	0	4	8	17	13	0	0	11.6
Rice	110	0	0	0	3	1	1	40	41	24	0	0	4.5
Riley	976	0	1	2	12	37	25	219	365	311	4	0	7.9
Rooks	68	0	0	0	0	0	3	14	32	18	1	0	4.4
Rush	40	0	0	0	0	3	0	10	17	10	0	0	7.5
Russell	81	0	0	0	0	2	3	21	24	30	1	0	6.2
Saline	662	0	1	4	0	20	28	137	274	192	6	0	8.0
Scott	63	0	0	0	1	4	3	17	21	16	1	0	12.7
Sedgwick	7,309	3	14	32	63	319	282	1,895	2,817	1,865	18	1	9.8
Seward	429	1	0	0	4	9	12	101	169	129	2	2	6.1
Shawnee	2,189	0	1	19	18	83	69	523	1,014	452	10	0	8.7
Sheridan	33	0	0	0	1	1	1	8	13	9	0	0	9.1
Sherman	73	0	0	1	0	3	3	19	25	22	0	0	9.6
Smith	40	0	0	0	0	1	3	10	19	7	0	0	10.0
Stafford	53	0	0	1	0	0	2	9	24	17	0	0	5.7
Stanton	25	0	0	0	0	1	1	6	11	6	0	0	8.0
Stevens	74	0	0	3	0	0	1	13	35	22	0	0	5.4
Sumner	255	0	0	2	1	9	14	65	104	60	0	0	10.2
Thomas	119	0	1	1	0	4	2	31	48	31	1	0	6.7
Trego	28	0	0	0	0	1	1	6	14	6	0	0	7.1
Wabaunsee	67	0	0	0	2	3	0	14	29	19	0	0	7.5
Wallace	23	0	0	0	0	0	1	5	11	6	0	0	4.3
Washington	67	0	0	0	1	1	5	12	28	20	0	0	10.4
Wichita	21	0	0	0	0	1	2	4	7	7	0	0	14.3
Wilson	114	0	0	1	0	6	4	28	51	24	0	0	9.6
Woodson	38	0	0	0	0	1	0	11	18	8	0	0	2.6
Wyandotte	2,694	0	6	21	33	137	100	653	947	793	4	0	11.0
n.s.	4	0	0	0	0	0	0	2	2	0	0	0	n/a
Peer Group													
Frontier	1,326	0	0	7	7	50	45	323	546	343	4	1	8.2
Rural	2,765	0	2	15	19	78	105	610	1,147	777	11	1	7.9
Densely - Settled Rural	6,303	2	3	28	55	269	229	1,576	2,508	1,595	33	5	9.3
Semi-Urban	5,932	0	5	31	40	251	209	1,469	2,342	1,561	20	4	9.0
Urban	21,718	9	25	100	159	957	757	5,286	8,406	5,942	73	4	9.2

Table C13
Live Births by County of Residence and Peer Group*
by Month Prenatal Care Began
Kansas, 2016

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	38,048	1,072	14,933	14,638	80.8	3,396	1,518	836	583	408	221	327	116
Allen	137	7	54	58	86.9	9	6	0	1	1	0	1	0
Anderson	111	3	48	35	77.5	11	9	1	2	0	0	2	0
Atchison	203	4	67	73	71.3	29	9	9	5	3	3	0	1
Barber	56	0	20	20	71.4	8	5	0	1	1	1	0	0
Barton	331	11	102	137	75.5	42	18	10	5	1	3	2	0
Bourbon	194	3	88	53	74.2	20	5	9	3	6	4	3	0
Brown	112	0	31	43	66.1	19	13	3	2	0	1	0	0
Butler	757	15	375	258	85.7	50	29	13	5	5	0	6	1
Chase	32	1	9	15	78.1	4	0	2	0	1	0	0	0
Chautauqua	28	2	11	9	81.5	4	0	1	0	0	0	0	1
Cherokee	217	2	66	93	74.5	23	15	8	6	2	1	0	1
Cheyenne	39	2	15	14	79.5	4	3	1	0	0	0	0	0
Clark	24	4	2	10	66.7	5	1	0	1	1	0	0	0
Clay	117	1	30	67	83.8	10	4	3	1	0	0	1	0
Cloud	91	0	32	44	83.5	4	2	5	2	1	1	0	0
Coffey	95	8	37	42	91.6	7	0	1	0	0	0	0	0
Comanche	13	0	3	5	61.5	3	1	1	0	0	0	0	0
Cowley	397	17	187	108	78.8	32	16	18	7	3	6	2	1
Crawford	480	15	143	178	70.3	78	31	12	8	8	2	3	2
Decatur	31	2	13	9	80.0	2	3	0	1	0	0	0	1
Dickinson	225	4	77	96	78.7	24	7	7	1	1	4	4	0
Doniphan	74	3	27	30	81.1	9	4	1	0	0	0	0	0
Douglas	1,177	21	490	453	82.0	112	42	21	9	17	3	8	1
Edwards	31	0	13	11	77.4	4	1	0	1	0	0	1	0
Elk	35	0	15	15	85.7	3	2	0	0	0	0	0	0
Ellis	357	3	60	241	85.2	23	14	10	3	1	1	1	0
Ellsworth	63	1	28	22	81.0	8	3	1	0	0	0	0	0
Finney	655	17	133	242	59.8	122	58	34	17	17	13	2	0
Ford	646	54	198	153	63.0	87	40	31	22	19	9	30	3
Franklin	298	13	133	96	81.2	26	11	5	2	10	1	1	0
Geary	967	24	298	423	77.0	83	45	30	36	10	15	3	0
Gove	40	0	6	24	75.0	6	3	0	1	0	0	0	0
Graham	20	0	4	13	85.0	2	1	0	0	0	0	0	0
Grant	123	2	35	43	65.0	15	10	3	8	6	0	1	0
Gray	86	9	21	37	77.9	13	2	2	0	1	0	1	0
Greeley	15	0	4	3	46.7	1	1	2	4	0	0	0	0
Greenwood	67	2	23	23	71.6	8	5	2	1	0	0	3	0
Hamilton	37	1	7	13	56.8	5	5	1	3	2	0	0	0
Harper	65	1	34	15	76.9	10	0	2	1	1	1	0	0
Harvey	379	10	114	203	86.5	19	9	9	7	4	1	2	1
Haskell	55	1	10	23	61.8	8	3	7	1	2	0	0	0
Hodgeman	23	3	6	12	91.3	0	2	0	0	0	0	0	0
Jackson	169	2	28	99	76.3	24	7	5	2	1	0	1	0
Jefferson	202	4	49	111	81.2	23	9	2	4	0	0	0	0
Jewell	36	1	11	17	80.6	5	1	0	1	0	0	0	0
Johnson	7,350	294	3,643	2,586	89.2	463	151	61	44	44	16	10	38
Kearny	61	1	15	28	72.1	7	3	3	1	1	2	0	0
Kingman	74	2	26	26	73.0	12	3	3	1	1	0	0	0
Kiowa	37	0	4	26	81.1	4	2	0	0	1	0	0	0
Labette	293	10	128	61	68.6	37	17	14	11	6	3	3	3
Lane	16	1	2	11	87.5	1	0	0	1	0	0	0	0
Leavenworth	999	16	453	385	86.4	57	21	14	10	12	8	12	11
Lincoln	37	0	15	17	86.5	3	2	0	0	0	0	0	0
Linn	95	5	39	33	81.9	9	4	2	1	0	1	0	1
Logan	54	0	20	23	79.6	5	2	4	0	0	0	0	0

Table C13
Live Births by County of Residence and Peer Group*
by Month Prenatal Care Began
Kansas, 2016

County of Residence	Total	Month Care Began											
		1st	2nd	3rd	% Care in 1st Trimester	4th	5th	6th	7th	8th	9th or Later	None	n.s.
Lyon	417	21	179	138	81.3	31	20	12	5	4	5	1	1
McPherson	308	5	141	125	88.3	18	7	2	7	1	0	1	1
Marion	118	2	29	62	78.8	15	3	2	1	3	0	1	0
Marshall	112	5	19	73	86.6	12	0	0	0	2	1	0	0
Meade	54	2	22	12	66.7	6	4	4	2	1	0	1	0
Miami	345	22	160	126	89.5	16	9	2	2	2	0	5	1
Mitchell	84	0	23	40	75.0	15	0	2	1	1	1	1	0
Montgomery	385	28	132	107	70.3	45	21	9	20	7	8	3	5
Morris	63	1	17	28	73.0	8	2	3	4	0	0	0	0
Morton	25	2	6	8	64.0	1	3	2	0	1	0	2	0
Nemaha	140	0	47	69	82.9	17	4	2	1	0	0	0	0
Neosho	217	8	61	95	75.9	12	13	14	8	2	2	1	1
Ness	37	0	7	21	75.7	4	2	2	0	0	0	1	0
Norton	66	1	23	31	83.3	4	3	0	0	3	1	0	0
Osage	183	5	40	96	77.0	26	2	4	4	2	0	4	0
Osborne	40	1	10	27	95.0	0	1	1	0	0	0	0	0
Ottawa	61	1	28	23	85.2	3	3	2	0	1	0	0	0
Pawnee	64	0	17	38	85.9	5	3	0	1	0	0	0	0
Phillips	68	1	16	31	70.6	15	3	2	0	0	0	0	0
Pottawatomie	394	6	42	254	77.0	51	20	4	5	2	4	4	2
Pratt	126	0	25	73	77.8	17	8	1	1	0	0	1	0
Rawlins	34	0	9	19	82.4	2	3	1	0	0	0	0	0
Reno	683	19	289	225	78.0	65	26	28	12	9	6	4	0
Republic	43	0	12	26	88.4	1	1	2	1	0	0	0	0
Rice	110	3	41	43	79.1	8	4	5	0	5	1	0	0
Riley	976	12	200	571	80.2	67	45	34	14	16	11	6	0
Rooks	68	1	12	45	85.3	6	2	1	1	0	0	0	0
Rush	40	0	8	29	92.5	0	0	1	0	1	0	1	0
Russell	81	0	13	58	87.7	4	3	0	2	1	0	0	0
Saline	662	10	285	267	85.0	40	27	13	5	1	5	8	1
Scott	63	1	14	26	65.1	11	4	4	1	2	0	0	0
Sedgwick	7,309	129	3,718	2,334	84.6	513	219	104	102	64	35	85	6
Seward	429	10	131	112	59.1	66	46	25	22	8	2	6	1
Shawnee	2,189	59	376	1,239	76.5	258	104	47	34	37	9	26	0
Sheridan	33	0	9	16	75.8	4	3	0	0	1	0	0	0
Sherman	73	1	30	26	79.2	9	1	1	3	1	0	0	1
Smith	40	0	16	17	82.5	5	1	1	0	0	0	0	0
Stafford	53	0	15	28	81.1	4	2	2	0	2	0	0	0
Stanton	25	0	10	8	72.0	2	3	0	1	1	0	0	0
Stevens	74	1	23	25	66.2	9	6	4	2	2	2	0	0
Sumner	255	12	117	86	84.3	15	8	5	4	1	2	5	0
Thomas	119	1	34	65	84.7	9	3	3	1	0	2	0	1
Trego	28	1	5	16	78.6	1	2	3	0	0	0	0	0
Wabaunsee	67	0	5	46	76.1	6	7	0	2	0	0	1	0
Wallace	23	0	9	5	63.6	4	2	1	0	1	0	0	1
Washington	67	0	20	35	82.1	6	2	2	1	1	0	0	0
Wichita	21	0	6	9	71.4	3	1	1	1	0	0	0	0
Wilson	114	5	48	43	84.2	8	6	1	0	0	2	1	0
Woodson	38	4	14	11	76.3	1	4	1	0	2	0	1	0
Wyandotte	2,694	90	917	845	69.4	345	192	103	69	30	22	54	27
n.s.	4	0	1	1	n/a	1	0	0	0	0	0	0	1
Peer Group													
Frontier	1,326	28	392	604	77.5	135	73	38	24	16	3	9	4
Rural	2,765	59	839	1,276	78.7	300	122	69	38	35	14	11	2
Densely -Settled Rural	6,303	208	1,975	2,461	73.9	723	341	224	142	81	62	71	15
Semi-Urban	5,932	168	2,129	2,454	80.2	489	253	155	111	72	49	41	11
Urban	21,718	609	9,597	7,842	83.4	1,748	729	350	268	204	93	195	83

Table C14
Live Births by County of Residence and Peer Group*
by Adequacy of Prenatal Care Utilization (APNCU) Index†
Kansas, 2016

County of Residence	Live Births	APNCU Category‡								n.s.
		Adequate Plus		Adequate		Intermediate		Inadequate		
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	
Kansas	38,048	11,425	30.1	20,199	53.3	2,187	5.8	4,115	10.9	122
Allen	137	51	37.5	58	42.6	14	10.3	13	9.6	1
Anderson	111	37	33.3	53	47.7	6	5.4	15	13.5	0
Atchison	203	39	19.2	116	57.1	13	6.4	35	17.2	0
Barber	56	8	14.3	38	67.9	2	3.6	8	14.3	0
Barton	331	157	47.4	120	36.3	12	3.6	42	12.7	0
Bourbon	194	98	50.5	61	31.4	4	2.1	31	16.0	0
Brown	112	29	25.9	58	51.8	3	2.7	22	19.6	0
Butler	757	158	20.9	520	68.8	18	2.4	60	7.9	1
Chase	32	14	43.8	14	43.8	1	3.1	3	9.4	0
Chautauqua	28	12	44.4	12	44.4	2	7.4	1	3.7	1
Cherokee	217	81	37.7	85	39.5	15	7.0	34	15.8	2
Cheyenne	39	10	25.6	22	56.4	3	7.7	4	10.3	0
Clark	24	4	16.7	12	50.0	5	20.8	3	12.5	0
Clay	117	34	29.1	69	59.0	4	3.4	10	8.5	0
Cloud	91	23	25.3	51	56.0	5	5.5	12	13.2	0
Coffey	95	34	35.8	58	61.1	2	2.1	1	1.1	0
Comanche	13	4	30.8	6	46.2	1	7.7	2	15.4	0
Cowley	397	182	46.0	147	37.1	14	3.5	53	13.4	1
Crawford	480	147	30.8	219	45.8	43	9.0	69	14.4	2
Decatur	31	5	16.7	19	63.3	2	6.7	4	13.3	1
Dickinson	225	72	32.1	116	51.8	13	5.8	23	10.3	1
Doniphan	74	23	31.1	42	56.8	4	5.4	5	6.8	0
Douglas	1,177	511	43.5	537	45.7	27	2.3	100	8.5	2
Edwards	31	8	25.8	17	54.8	3	9.7	3	9.7	0
Elk	35	15	42.9	17	48.6	1	2.9	2	5.7	0
Ellis	357	85	23.8	225	63.0	15	4.2	32	9.0	0
Ellsworth	63	19	30.2	36	57.1	4	6.3	4	6.3	0
Finney	655	175	26.7	280	42.7	49	7.5	151	23.1	0
Ford	646	109	16.9	236	36.6	138	21.4	161	25.0	2
Franklin	298	94	31.5	160	53.7	11	3.7	33	11.1	0
Geary	967	195	20.2	516	53.4	114	11.8	141	14.6	1
Gove	40	9	22.5	21	52.5	5	12.5	5	12.5	0
Graham	20	4	20.0	15	75.0	0	0.0	1	5.0	0
Grant	123	34	27.6	49	39.8	11	8.9	29	23.6	0
Gray	86	27	31.4	45	52.3	8	9.3	6	7.0	0
Greeley	15	4	26.7	3	20.0	1	6.7	7	46.7	0
Greenwood	67	25	37.3	30	44.8	1	1.5	11	16.4	0
Hamilton	37	7	18.9	12	32.4	7	18.9	11	29.7	0
Harper	65	13	20.0	41	63.1	6	9.2	5	7.7	0
Harvey	379	149	39.4	186	49.2	9	2.4	34	9.0	1
Haskell	55	10	18.2	25	45.5	5	9.1	15	27.3	0
Hodgeman	23	6	26.1	13	56.5	2	8.7	2	8.7	0
Jackson	169	62	36.7	80	47.3	9	5.3	18	10.7	0
Jefferson	202	89	44.1	93	46.0	5	2.5	15	7.4	0
Jewell	36	4	11.1	25	69.4	5	13.9	2	5.6	0
Johnson	7,350	2,743	37.5	3,867	52.9	353	4.8	342	4.7	45
Kearny	61	18	29.5	30	49.2	3	4.9	10	16.4	0
Kingman	74	16	21.6	48	64.9	2	2.7	8	10.8	0
Kiowa	37	4	10.8	26	70.3	4	10.8	3	8.1	0
Labette	293	74	25.5	134	46.2	22	7.6	60	20.7	3
Lane	16	5	31.3	8	50.0	1	6.3	2	12.5	0
Leavenworth	999	352	35.7	511	51.9	41	4.2	81	8.2	14
Lincoln	37	6	16.2	25	67.6	2	5.4	4	10.8	0
Linn	95	38	40.4	48	51.1	0	0.0	8	8.5	1
Logan	54	20	37.0	23	42.6	4	7.4	7	13.0	0

Table C14
Live Births by County of Residence and Peer Group*
by Adequacy of Prenatal Care Utilization (APNCU) Index†
Kansas, 2016

County of Residence	Live Births	APNCU Category‡								n.s.
		Adequate Plus		Adequate		Intermediate		Inadequate		
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	
Lyon	417	246	59.1	115	27.6	8	1.9	47	11.3	1
McPherson	308	131	42.7	143	46.6	13	4.2	20	6.5	1
Marion	118	44	37.3	57	48.3	7	5.9	10	8.5	0
Marshall	112	24	21.6	73	65.8	11	9.9	3	2.7	1
Meade	54	10	18.5	27	50.0	4	7.4	13	24.1	0
Miami	345	109	31.6	208	60.3	7	2.0	21	6.1	0
Mitchell	84	17	20.2	52	61.9	9	10.7	6	7.1	0
Montgomery	385	114	29.8	171	44.8	20	5.2	77	20.2	3
Morris	63	13	21.0	36	58.1	4	6.5	9	14.5	1
Morton	25	4	16.0	11	44.0	2	8.0	8	32.0	0
Nemaha	140	37	26.4	89	63.6	7	5.0	7	5.0	0
Neosho	217	60	27.9	100	46.5	12	5.6	43	20.0	2
Ness	37	10	27.0	16	43.2	5	13.5	6	16.2	0
Norton	66	14	21.5	36	55.4	9	13.8	6	9.2	1
Osage	183	79	43.2	82	44.8	5	2.7	17	9.3	0
Osborne	40	10	25.0	23	57.5	5	12.5	2	5.0	0
Ottawa	61	14	23.0	37	60.7	4	6.6	6	9.8	0
Pawnee	64	26	40.6	29	45.3	4	6.3	5	7.8	0
Phillips	68	25	36.8	28	41.2	8	11.8	7	10.3	0
Pottawatomie	394	109	27.8	226	57.7	17	4.3	40	10.2	2
Pratt	126	36	28.6	70	55.6	9	7.1	11	8.7	0
Rawlins	34	11	32.4	13	38.2	5	14.7	5	14.7	0
Reno	683	292	42.8	271	39.7	34	5.0	85	12.5	1
Republic	43	17	39.5	17	39.5	5	11.6	4	9.3	0
Rice	110	39	35.5	50	45.5	5	4.5	16	14.5	0
Riley	976	231	23.7	523	53.6	93	9.5	129	13.2	0
Rooks	68	11	16.2	49	72.1	4	5.9	4	5.9	0
Rush	40	11	27.5	24	60.0	2	5.0	3	7.5	0
Russell	81	17	21.0	52	64.2	5	6.2	7	8.6	0
Saline	662	145	21.9	400	60.5	57	8.6	59	8.9	1
Scott	63	27	42.9	22	34.9	3	4.8	11	17.5	0
Sedgwick	7,309	1,288	17.6	5,148	70.5	220	3.0	649	8.9	4
Seward	429	89	20.8	204	47.7	23	5.4	112	26.2	1
Shawnee	2,189	930	42.5	882	40.3	96	4.4	281	12.8	0
Sheridan	33	7	21.2	21	63.6	1	3.0	4	12.1	0
Sherman	73	23	31.9	37	51.4	5	6.9	7	9.7	1
Smith	40	20	50.0	13	32.5	4	10.0	3	7.5	0
Stafford	53	18	34.0	27	50.9	2	3.8	6	11.3	0
Stanton	25	6	24.0	11	44.0	3	12.0	5	20.0	0
Stevens	74	11	14.9	40	54.1	6	8.1	17	23.0	0
Sumner	255	58	22.7	157	61.6	14	5.5	26	10.2	0
Thomas	119	33	28.2	63	53.8	11	9.4	10	8.5	2
Trego	28	4	14.3	18	64.3	1	3.6	5	17.9	0
Wabaunsee	67	22	33.3	34	51.5	1	1.5	9	13.6	1
Wallace	23	4	18.2	13	59.1	1	4.5	4	18.2	1
Washington	67	19	28.4	35	52.2	7	10.4	6	9.0	0
Wichita	21	3	14.3	13	61.9	2	9.5	3	14.3	0
Wilson	114	38	33.3	62	54.4	4	3.5	10	8.8	0
Woodson	38	10	26.3	16	42.1	2	5.3	10	26.3	0
Wyandotte	2,694	756	28.3	1,076	40.2	346	12.9	497	18.6	19
n.s.	4	1	n/a	1	n/a	1	n/a	1	n/a	0
Peer Group										
Frontier	1,326	344	26.0	704	53.3	101	7.6	173	13.1	4
Rural	2,765	797	28.9	1,479	53.6	177	6.4	305	11.1	7
Densely -Settled R	6,303	2,069	32.9	2,820	44.9	419	6.7	978	15.6	17
Semi-Urban	5,932	1,634	27.6	3,174	53.6	406	6.9	708	12.0	10
Urban	21,718	6,580	30.4	12,021	55.6	1,083	5.0	1,950	9.0	84

* 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, 2016

County of Residence	Total	Under 500	500 - 999	1000 - 1499	% Under 1500 gr (VLBW)	1500 - 1999	2000 - 2499	% Under 2500 gr (LBW)	2500 - 2999	3000 - 3499	3500 - 3999	4000 - 4499	4500 - 4999	5000 & Over	n.s.
	Birth Weight in Grams														
Kansas	38,048	47	182	201	1.1	535	1,689	7.0	6,436	14,630	10,875	2,995	407	50	1
Allen	137	0	2	0	1.5	1	2	3.6	21	65	38	8	0	0	0
Anderson	111	0	0	0	0.0	0	4	3.6	16	49	28	11	2	1	0
Atchison	203	0	0	2	1.0	3	14	9.4	28	68	62	24	2	0	0
Barber	56	0	0	1	1.8	1	3	8.9	8	17	20	4	2	0	0
Barton	331	0	0	6	1.8	5	17	8.5	74	133	77	17	2	0	0
Bourbon	194	1	2	0	1.5	3	17	11.9	31	85	40	11	4	0	0
Brown	112	0	1	1	1.8	1	4	6.3	19	41	33	11	0	1	0
Butler	757	0	1	6	0.9	14	32	7.0	117	272	224	77	13	1	0
Chase	32	0	0	0	0.0	0	0	0.0	3	11	15	3	0	0	0
Chautauqua	28	0	0	0	0.0	0	2	7.1	5	14	4	2	1	0	0
Cherokee	217	0	0	0	0.0	4	12	7.4	38	86	61	11	5	0	0
Cheyenne	39	0	0	0	0.0	1	2	7.7	10	17	6	3	0	0	0
Clark	24	0	0	0	0.0	0	2	8.3	4	9	6	2	1	0	0
Clay	117	1	2	1	3.4	2	5	9.4	15	49	34	8	0	0	0
Cloud	91	0	0	0	0.0	0	5	5.5	11	40	26	9	0	0	0
Coffey	95	0	0	0	0.0	0	0	0.0	16	38	29	10	2	0	0
Comanche	13	0	0	1	7.7	0	0	7.7	3	3	3	3	0	0	0
Cowley	397	0	1	2	0.8	4	21	7.1	79	176	92	21	1	0	0
Crawford	480	2	3	2	1.5	6	15	5.8	96	201	124	25	5	1	0
Decatur	31	0	0	0	0.0	1	1	6.5	5	15	6	3	0	0	0
Dickinson	225	0	2	2	1.8	2	22	12.4	30	83	62	21	1	0	0
Doniphan	74	0	0	0	0.0	2	5	9.5	13	24	24	5	1	0	0
Douglas	1,177	1	9	5	1.3	20	56	7.7	192	438	352	91	12	1	0
Edwards	31	0	0	0	0.0	2	2	12.9	7	5	11	3	1	0	0
Elk	35	0	0	0	0.0	1	1	5.7	1	19	10	3	0	0	0
Ellis	357	0	3	1	1.1	7	14	7.0	54	131	104	32	7	4	0
Ellsworth	63	0	0	0	0.0	0	2	3.2	9	32	16	4	0	0	0
Finney	655	1	0	2	0.5	10	34	7.2	149	253	161	38	5	2	0
Ford	646	1	1	6	1.2	6	30	6.8	125	280	153	38	5	1	0
Franklin	298	0	1	4	1.7	5	10	6.7	45	113	90	23	7	0	0
Geary	967	1	6	6	1.3	6	44	6.5	185	367	278	66	4	4	0
Gove	40	0	2	0	5.0	0	0	5.0	4	19	8	6	1	0	0
Graham	20	0	0	0	0.0	0	0	0.0	2	8	8	1	0	1	0
Grant	123	0	0	2	1.6	1	5	6.5	28	50	31	5	1	0	0
Gray	86	0	2	0	2.3	0	2	4.7	10	38	25	8	1	0	0
Greeley	15	0	0	0	0.0	0	0	0.0	4	7	2	2	0	0	0
Greenwood	67	0	0	1	1.5	1	2	6.0	13	26	17	7	0	0	0
Hamilton	37	0	0	0	0.0	0	1	2.7	8	17	9	2	0	0	0
Harper	65	0	1	0	1.5	1	0	3.1	15	28	17	2	1	0	0
Harvey	379	0	2	2	1.1	2	18	6.3	60	117	138	36	4	0	0
Haskell	55	0	1	0	1.8	0	1	3.6	13	23	14	2	1	0	0
Hodgeman	23	0	0	0	0.0	0	2	8.7	2	10	9	0	0	0	0
Jackson	169	1	1	1	1.8	1	7	6.5	25	70	55	8	0	0	0
Jefferson	202	0	2	2	2.0	2	7	6.4	24	65	73	24	3	0	0
Jewell	36	0	1	0	2.8	0	0	2.8	5	16	9	5	0	0	0
Johnson	7,350	7	18	20	0.6	91	303	6.0	1,123	2,817	2,239	644	83	5	0
Kearny	61	0	0	0	0.0	2	5	11.5	13	19	15	7	0	0	0
Kingman	74	0	0	0	0.0	1	1	2.7	16	16	28	10	2	0	0
Kiowa	37	0	0	0	0.0	0	0	0.0	4	14	11	6	1	1	0
Labette	293	0	3	1	1.4	2	13	6.5	49	124	83	16	2	0	0
Lane	16	1	0	0	6.3	0	0	6.3	2	6	4	3	0	0	0
Leavenworth	999	1	6	4	1.1	16	48	7.5	168	356	294	91	12	3	0
Lincoln	37	0	0	0	0.0	1	2	8.1	5	13	13	3	0	0	0
Linn	95	0	0	0	0.0	1	4	5.3	22	41	18	6	3	0	0
Logan	54	0	0	0	0.0	2	2	7.4	7	23	16	1	2	1	0

Table C15
Live Births by County of Residence and Peer Group*
by Birth Weight in Grams
Kansas, 2016

County of Residence	Total	Under 500	500 - 999	1000 - 1499	% Under 1500 gr (VLBW)	1500 - 1999	2000 - 2499	% Under 2500 gr (LBW)	2500 - 2999	3000 - 3499	3500 - 3999	4000 - 4499	4500 - 4999	5000 & Over	n.s.
	Birth Weight in Grams														
Lyon	417	0	4	1	1.2	7	16	6.7	62	176	112	29	10	0	0
McPherson	308	1	2	1	1.3	11	11	8.4	40	118	101	20	3	0	0
Marion	118	0	0	0	0.0	4	6	8.5	25	42	35	6	0	0	0
Marshall	112	0	0	1	0.9	0	8	8.0	13	34	41	10	5	0	0
Meade	54	0	1	0	1.9	0	5	11.1	6	24	14	4	0	0	0
Miami	345	0	2	2	1.2	6	11	6.1	41	130	111	40	1	1	0
Mitchell	84	0	0	1	1.2	0	4	6.0	12	32	29	6	0	0	0
Montgomery	385	0	3	0	0.8	5	18	6.8	73	170	87	26	2	1	0
Morris	63	0	1	0	1.6	0	0	1.6	7	24	23	7	1	0	0
Morton	25	0	1	0	4.0	0	0	4.0	3	9	7	4	1	0	0
Nemaha	140	0	0	1	0.7	1	4	4.3	20	51	51	10	2	0	0
Neosho	217	0	0	4	1.8	5	9	8.3	38	90	58	10	2	1	0
Ness	37	0	0	0	0.0	2	0	5.4	5	17	13	0	0	0	0
Norton	66	0	0	0	0.0	1	1	3.0	11	30	22	1	0	0	0
Osage	183	0	0	3	1.6	2	10	8.2	30	71	44	22	0	1	0
Osborne	40	0	1	0	2.5	0	1	5.0	6	14	15	3	0	0	0
Ottawa	61	0	0	0	0.0	2	1	4.9	14	23	16	4	1	0	0
Pawnee	64	0	0	0	0.0	0	5	7.8	11	24	17	4	3	0	0
Phillips	68	0	1	0	1.5	0	7	11.8	10	19	25	5	1	0	0
Pottawatomie	394	0	1	2	0.8	1	12	4.1	69	131	110	63	5	0	0
Pratt	126	0	0	3	2.4	3	3	7.1	23	41	39	14	0	0	0
Rawlins	34	0	0	1	2.9	0	1	5.9	6	11	12	2	1	0	0
Reno	683	0	3	3	0.9	9	31	6.7	107	258	204	59	6	3	0
Republic	43	0	0	0	0.0	1	4	11.6	5	19	11	2	1	0	0
Rice	110	0	1	2	2.7	0	2	4.5	19	47	35	2	2	0	0
Riley	976	1	4	5	1.0	14	50	7.6	151	366	294	78	12	1	0
Rooks	68	0	0	1	1.5	0	2	4.4	12	26	22	4	1	0	0
Rush	40	0	0	1	2.5	2	0	7.5	7	15	10	5	0	0	0
Russell	81	0	0	0	0.0	1	1	2.5	14	31	26	8	0	0	0
Saline	662	1	3	1	0.8	8	28	6.2	126	264	173	53	4	1	0
Scott	63	0	0	1	1.6	3	4	12.7	17	15	19	4	0	0	0
Sedgwick	7,309	18	34	45	1.3	121	336	7.6	1,285	2,734	2,057	588	83	7	1
Seward	429	1	1	2	0.9	1	18	5.4	78	175	124	25	3	1	0
Shawnee	2,189	1	19	10	1.4	19	97	6.7	356	900	602	157	25	3	0
Sheridan	33	0	0	1	3.0	0	2	9.1	6	11	11	1	1	0	0
Sherman	73	0	1	0	1.4	0	5	8.2	14	26	23	4	0	0	0
Smith	40	0	0	0	0.0	0	1	2.5	11	15	11	1	1	0	0
Stafford	53	0	1	0	1.9	0	1	3.8	6	21	19	5	0	0	0
Stanton	25	0	0	0	0.0	0	4	16.0	1	8	11	1	0	0	0
Stevens	74	0	3	0	4.1	0	1	5.4	9	33	23	4	1	0	0
Sumner	255	0	0	1	0.4	9	8	7.1	32	109	74	21	1	0	0
Thomas	119	1	1	0	1.7	0	5	5.9	21	38	42	9	2	0	0
Trego	28	0	0	0	0.0	0	1	3.6	2	16	6	3	0	0	0
Wabaunsee	67	0	0	0	0.0	2	1	4.5	10	29	16	7	2	0	0
Wallace	23	0	0	0	0.0	0	1	4.3	3	9	8	2	0	0	0
Washington	67	0	0	1	1.5	2	2	7.5	6	22	27	6	1	0	0
Wichita	21	0	0	0	0.0	1	1	9.5	3	5	9	2	0	0	0
Wilson	114	0	1	1	1.8	0	11	11.4	19	44	28	9	1	0	0
Woodson	38	0	0	0	0.0	0	1	2.6	5	14	15	3	0	0	0
Wyandotte	2,694	5	20	25	1.9	61	137	9.2	554	1,039	668	160	22	3	0
n.s.	4	0	0	0	n/a	0	0	n/a	1	3	0	0	0	0	0
Peer Group															
Frontier	1,326	1	8	7	1.2	17	52	6.4	206	515	393	110	14	3	0
Rural	2,765	2	15	15	1.2	27	104	5.9	461	1,057	839	207	36	2	0
Densely -Settled Rural	6,303	6	25	39	1.1	88	299	7.3	1,089	2,513	1,708	464	62	10	0
Semi-Urban	5,932	5	28	31	1.1	75	257	6.7	1,001	2,258	1,723	483	58	13	0
Urban	21,718	33	106	109	1.1	328	977	7.2	3,678	8,284	6,212	1,731	237	22	1

* See Technical Notes for Peer Group definition.

Table C16
Live Births by County of Residence and Peer Group*
by Initiation of Breastfeeding†
Kansas, 2016

County of Residence	Live Births	Initiated Breastfeeding		Did Not Initiate Breastfeeding		n.s.‡
		Number	Percent	Number	Percent	
Kansas	38,048	33,429	88.1	4,508	11.9	111
Allen	137	113	82.5	24	17.5	0
Anderson	111	92	82.9	19	17.1	0
Atchison	203	147	72.8	55	27.2	1
Barber	56	50	89.3	6	10.7	0
Barton	331	283	85.5	48	14.5	0
Bourbon	194	175	90.2	19	9.8	0
Brown	112	92	82.1	20	17.9	0
Butler	757	697	92.2	59	7.8	1
Chase	32	28	87.5	4	12.5	0
Chautauqua	28	22	78.6	6	21.4	0
Cherokee	217	165	76.4	51	23.6	1
Cheyenne	39	34	87.2	5	12.8	0
Clark	24	20	83.3	4	16.7	0
Clay	117	101	86.3	16	13.7	0
Cloud	91	81	89.0	10	11.0	0
Coffey	95	80	84.2	15	15.8	0
Comanche	13	8	61.5	5	38.5	0
Cowley	397	334	84.3	62	15.7	1
Crawford	480	348	73.0	129	27.0	3
Decatur	31	29	93.5	2	6.5	0
Dickinson	225	189	84.0	36	16.0	0
Doniphan	74	55	74.3	19	25.7	0
Douglas	1,177	1,058	90.0	118	10.0	1
Edwards	31	26	83.9	5	16.1	0
Elk	35	33	94.3	2	5.7	0
Ellis	357	302	85.1	53	14.9	2
Ellsworth	63	50	79.4	13	20.6	0
Finney	655	561	85.6	94	14.4	0
Ford	646	505	78.3	140	21.7	1
Franklin	298	241	81.7	54	18.3	3
Geary	967	860	89.4	102	10.6	5
Gove	40	36	92.3	3	7.7	1
Graham	20	18	90.0	2	10.0	0
Grant	123	101	82.1	22	17.9	0
Gray	86	77	89.5	9	10.5	0
Greeley	15	15	100.0	0	0.0	0
Greenwood	67	58	86.6	9	13.4	0
Hamilton	37	28	77.8	8	22.2	1
Harper	65	55	84.6	10	15.4	0
Harvey	379	345	91.3	33	8.7	1
Haskell	55	46	83.6	9	16.4	0
Hodgeman	23	19	82.6	4	17.4	0
Jackson	169	143	84.6	26	15.4	0
Jefferson	202	174	86.1	28	13.9	0
Jewell	36	34	94.4	2	5.6	0
Johnson	7,350	6,962	95.0	365	5.0	23
Kearny	61	51	83.6	10	16.4	0
Kingman	74	67	90.5	7	9.5	0
Kiowa	37	34	91.9	3	8.1	0
Labette	293	239	81.8	53	18.2	1
Lane	16	14	87.5	2	12.5	0
Leavenworth	999	879	89.1	108	10.9	12
Lincoln	37	31	83.8	6	16.2	0
Linn	95	85	89.5	10	10.5	0
Logan	54	50	92.6	4	7.4	0

Table C16
Live Births by County of Residence and Peer Group*
by Initiation of Breastfeeding†
Kansas, 2016

County of Residence	Live Births	Initiated Breastfeeding		Did Not Initiate Breastfeeding		n.s.‡
		Number	Percent	Number	Percent	
Lyon	417	355	85.1	62	14.9	0
McPherson	308	276	89.9	31	10.1	1
Marion	118	110	93.2	8	6.8	0
Marshall	112	97	86.6	15	13.4	0
Meade	54	41	75.9	13	24.1	0
Miami	345	303	87.8	42	12.2	0
Mitchell	84	69	82.1	15	17.9	0
Montgomery	385	253	65.7	132	34.3	0
Morris	63	54	85.7	9	14.3	0
Morton	25	19	76.0	6	24.0	0
Nemaha	140	117	83.6	23	16.4	0
Neosho	217	178	82.0	39	18.0	0
Ness	37	36	97.3	1	2.7	0
Norton	66	60	90.9	6	9.1	0
Osage	183	149	81.9	33	18.1	1
Osborne	40	33	82.5	7	17.5	0
Ottawa	61	52	85.2	9	14.8	0
Pawnee	64	58	90.6	6	9.4	0
Phillips	68	62	91.2	6	8.8	0
Pottawatomie	394	361	91.9	32	8.1	1
Pratt	126	107	84.9	19	15.1	0
Rawlins	34	30	88.2	4	11.8	0
Reno	683	587	86.2	94	13.8	2
Republic	43	40	93.0	3	7.0	0
Rice	110	93	84.5	17	15.5	0
Riley	976	875	90.0	97	10.0	4
Rooks	68	63	92.6	5	7.4	0
Rush	40	32	82.1	7	17.9	1
Russell	81	69	85.2	12	14.8	0
Saline	662	550	83.1	112	16.9	0
Scott	63	51	81.0	12	19.0	0
Sedgwick	7,309	6,511	89.4	775	10.6	23
Seward	429	339	79.2	89	20.8	1
Shawnee	2,189	1,809	82.7	378	17.3	2
Sheridan	33	30	90.9	3	9.1	0
Sherman	73	61	84.7	11	15.3	1
Smith	40	36	90.0	4	10.0	0
Stafford	53	51	96.2	2	3.8	0
Stanton	25	24	96.0	1	4.0	0
Stevens	74	67	90.5	7	9.5	0
Sumner	255	222	87.1	33	12.9	0
Thomas	119	108	91.5	10	8.5	1
Trego	28	27	96.4	1	3.6	0
Wabaunsee	67	59	88.1	8	11.9	0
Wallace	23	21	91.3	2	8.7	0
Washington	67	61	91.0	6	9.0	0
Wichita	21	19	90.5	2	9.5	0
Wilson	114	90	78.9	24	21.1	0
Woodson	38	28	73.7	10	26.3	0
Wyandotte	2,694	2,344	87.5	335	12.5	15
n.s.	4	2	n/a	2	n/a	0
Peer Group						
Frontier	1,326	1,161	87.8	161	12.2	4
Rural	2,765	2,379	86.1	385	13.9	1
Densely -Settled Rural	6,303	5,265	83.7	1,027	16.3	11
Semi-Urban	5,932	5,059	85.6	854	14.4	19
Urban	21,718	19,563	90.4	2,079	9.6	76

* 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, 2016

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	38,048	4,564	3,826	3,379	3,217	3,878	10.2	87
Allen	137	30	24	20	19	24	17.5	0
Anderson	111	21	18	17	16	18	16.2	0
Atchison	203	53	41	37	38	43	21.3	1
Barber	56	12	11	11	11	11	19.6	0
Barton	331	69	62	57	56	63	19.1	1
Bourbon	194	45	39	36	35	39	20.2	1
Brown	112	30	22	21	17	22	19.6	0
Butler	757	109	101	89	85	103	13.6	1
Chase	32	5	2	2	2	3	9.4	0
Chautauqua	28	5	4	4	4	4	14.3	0
Cherokee	217	54	43	44	42	46	21.2	0
Cheyenne	39	1	0	0	0	0	0.0	2
Clark	24	1	1	1	0	1	4.2	0
Clay	117	23	21	20	16	21	17.9	0
Cloud	91	21	14	12	11	15	16.5	0
Coffey	95	19	13	11	10	13	13.7	0
Comanche	13	4	3	3	3	3	23.1	0
Cowley	397	72	58	48	44	60	15.2	1
Crawford	480	72	65	62	60	66	13.8	0
Decatur	31	9	6	4	4	6	19.4	0
Dickinson	225	51	40	36	30	40	17.9	1
Doniphan	74	18	13	12	11	14	18.9	0
Douglas	1,177	137	108	90	86	110	9.4	1
Edwards	31	4	3	3	3	3	9.7	0
Elk	35	5	5	4	4	5	14.3	0
Ellis	357	59	41	34	32	41	11.5	1
Ellsworth	63	15	9	6	5	9	14.3	0
Finney	655	37	26	23	18	26	4.0	1
Ford	646	11	7	7	7	7	1.1	1
Franklin	298	56	51	42	39	51	17.2	1
Geary	967	120	82	62	55	82	8.5	3
Gove	40	8	3	3	3	3	7.5	0
Graham	20	4	3	2	2	3	15.0	0
Grant	123	10	6	4	4	6	4.9	0
Gray	86	6	3	3	2	3	3.5	0
Greeley	15	2	2	2	2	2	13.3	0
Greenwood	67	21	18	18	16	18	26.9	0
Hamilton	37	2	1	1	1	1	2.7	0
Harper	65	11	11	11	10	11	16.9	0
Harvey	379	51	46	41	40	46	12.2	1
Haskell	55	5	4	4	4	4	7.3	0
Hodgeman	23	3	1	1	1	1	4.3	0
Jackson	169	28	21	19	16	21	12.5	1
Jefferson	202	43	32	26	23	32	15.8	0
Jewell	36	3	3	2	2	3	8.6	1
Johnson	7,350	264	205	156	137	208	2.8	8
Kearny	61	7	3	2	3	4	6.6	0
Kingman	74	8	8	7	7	8	10.8	0
Kiowa	37	6	4	4	4	4	10.8	0
Labette	293	66	55	48	41	56	19.2	1
Lane	16	0	0	0	0	0	0.0	0
Leavenworth	999	139	123	107	101	125	12.5	0
Lincoln	37	12	11	11	11	11	29.7	0
Linn	95	21	19	18	17	19	20.0	0
Logan	54	8	5	2	2	5	9.3	0

Table C17
Live Births by County of Residence and Peer Group*
by Mother's Reported Cigarette Use
Kansas, 2016

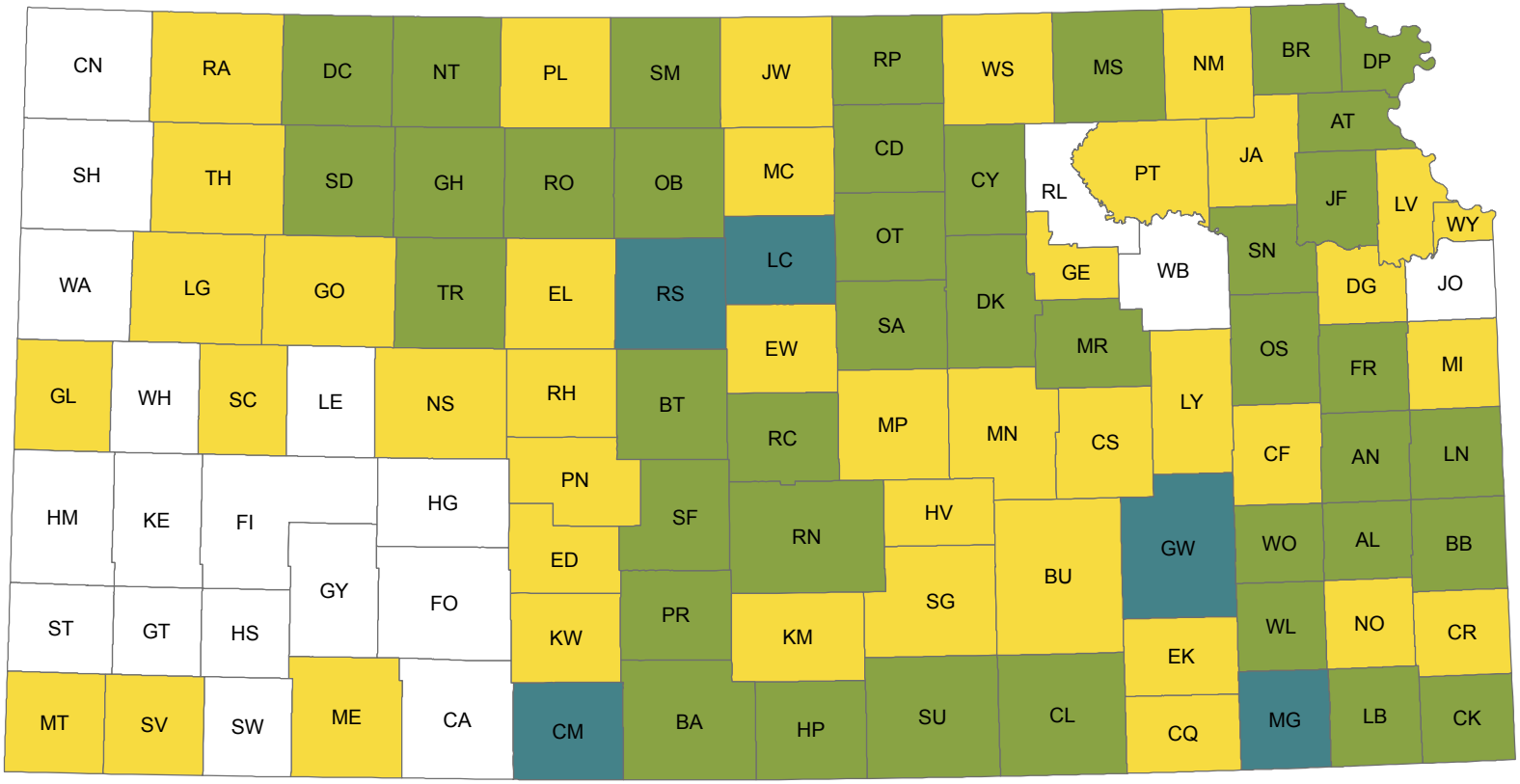
County of Residence	Total	3 Months Prior to Pregnancy	First Trimester of Pregnancy	Second Trimester of Pregnancy	Third Trimester of Pregnancy	Any Time During Pregnancy		n.s.
						Number	Percent	
Lyon	417	60	50	37	34	50	12.0	2
McPherson	308	46	37	34	30	38	12.4	1
Marion	118	11	9	10	9	10	8.5	0
Marshall	112	24	17	15	15	17	15.2	0
Meade	54	7	6	6	6	6	11.1	0
Miami	345	40	36	29	29	36	10.4	0
Mitchell	84	12	10	8	9	11	13.1	0
Montgomery	385	101	86	74	74	89	23.7	10
Morris	63	14	11	9	8	11	17.7	1
Morton	25	4	2	2	3	3	12.0	0
Nemaha	140	17	16	15	15	16	11.4	0
Neosho	217	33	23	20	16	24	11.1	1
Ness	37	4	3	1	2	3	8.1	0
Norton	66	12	10	8	8	10	15.2	0
Osage	183	48	40	37	36	40	21.9	0
Osborne	40	10	8	6	6	8	20.0	0
Ottawa	61	13	12	8	7	12	19.7	0
Pawnee	64	10	9	8	9	9	14.1	0
Phillips	68	10	8	8	8	8	11.8	0
Pottawatomie	394	38	29	21	21	30	7.6	1
Pratt	126	25	23	21	20	24	19.0	0
Rawlins	34	6	3	3	2	4	11.8	0
Reno	683	121	104	94	89	105	15.4	1
Republic	43	9	8	6	7	8	18.6	0
Rice	110	19	17	13	12	17	15.5	0
Riley	976	87	62	52	49	63	6.5	2
Rooks	68	19	15	13	12	15	22.1	0
Rush	40	6	5	5	5	5	12.5	0
Russell	81	24	23	21	20	23	28.4	0
Saline	662	155	117	99	95	118	17.9	1
Scott	63	10	8	8	8	8	12.7	0
Sedgwick	7,309	778	765	739	731	766	10.5	8
Seward	429	26	16	15	11	16	3.8	5
Shawnee	2,189	455	349	297	282	356	16.4	17
Sheridan	33	7	5	4	4	5	15.2	0
Sherman	73	8	4	1	1	4	5.5	0
Smith	40	9	8	5	5	8	20.0	0
Stafford	53	10	9	9	7	9	17.0	0
Stanton	25	2	1	0	0	1	4.0	0
Stevens	74	7	8	6	3	8	10.8	0
Sumner	255	55	54	52	52	55	21.7	1
Thomas	119	19	14	13	10	15	12.6	0
Trego	28	9	5	3	2	5	17.9	0
Wabaunsee	67	8	4	3	3	4	6.0	0
Wallace	23	2	1	1	1	1	4.3	0
Washington	67	7	6	6	5	6	9.0	0
Wichita	21	1	1	1	1	1	4.8	0
Wilson	114	26	21	19	21	21	18.6	1
Woodson	38	10	8	8	8	8	21.1	0
Wyandotte	2,694	233	219	195	193	224	8.3	7
n.s.	4	1	1	1	1	1	n/a	0
Peer Group								
Frontier	1,326	226	165	140	135	169	12.8	3
Rural	2,765	477	390	347	324	395	14.3	2
Densely -Settled Rural	6,303	942	751	663	612	765	12.2	21
Semi-Urban	5,932	912	750	644	615	759	12.8	20
Urban	21,718	2,006	1,769	1,584	1,530	1,789	8.3	41

* See Technical Notes for Peer Group definition.

Percent of Maternal Cigarette Use During Pregnancy

By County of Residence

Kansas, 2016



Percent of Mothers Indicating Use of Tobacco

Statewide Percent: 10.2

Legend

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

Figure C6

Table C18
Live Births by County of Residence and Peer Group*
by Birth Weight Category for Gestational Age†
Kansas, 2016

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	38,048	34,261	90.1	3,772	9.9	15
Allen	137	128	93.4	9	6.6	0
Anderson	111	99	89.2	12	10.8	0
Atchison	203	178	87.7	25	12.3	0
Barber	56	50	89.3	6	10.7	0
Barton	331	293	88.5	38	11.5	0
Bourbon	194	176	91.2	17	8.8	1
Brown	112	98	87.5	14	12.5	0
Butler	757	696	92.1	60	7.9	1
Chase	32	30	93.8	2	6.3	0
Chautauqua	28	25	89.3	3	10.7	0
Cherokee	217	188	86.6	29	13.4	0
Cheyenne	39	37	94.9	2	5.1	0
Clark	24	20	83.3	4	16.7	0
Clay	117	106	90.6	11	9.4	0
Cloud	91	86	94.5	5	5.5	0
Coffey	95	84	88.4	11	11.6	0
Comanche	13	12	92.3	1	7.7	0
Cowley	397	357	89.9	40	10.1	0
Crawford	480	436	90.8	44	9.2	0
Decatur	31	27	87.1	4	12.9	0
Dickinson	225	205	91.1	20	8.9	0
Doniphan	74	63	85.1	11	14.9	0
Douglas	1,177	1,065	90.5	112	9.5	0
Edwards	31	30	96.8	1	3.2	0
Elk	35	35	100.0	0	0.0	0
Ellis	357	322	90.2	35	9.8	0
Ellsworth	63	60	95.2	3	4.8	0
Finney	655	563	86.0	92	14.0	0
Ford	646	562	87.0	84	13.0	0
Franklin	298	269	90.3	29	9.7	0
Geary	967	869	89.9	98	10.1	0
Gove	40	37	92.5	3	7.5	0
Graham	20	19	95.0	1	5.0	0
Grant	123	107	87.7	15	12.3	1
Gray	86	78	90.7	8	9.3	0
Greeley	15	13	86.7	2	13.3	0
Greenwood	67	64	95.5	3	4.5	0
Hamilton	37	33	89.2	4	10.8	0
Harper	65	55	84.6	10	15.4	0
Harvey	379	342	90.7	35	9.3	2
Haskell	55	48	87.3	7	12.7	0
Hodgeman	23	22	95.7	1	4.3	0
Jackson	169	161	95.3	8	4.7	0
Jefferson	202	189	93.6	13	6.4	0
Jewell	36	33	91.7	3	8.3	0
Johnson	7,350	6,717	91.4	630	8.6	3
Kearny	61	50	82.0	11	18.0	0
Kingman	74	64	86.5	10	13.5	0
Kiowa	37	34	91.9	3	8.1	0
Labette	293	259	88.4	34	11.6	0
Lane	16	14	87.5	2	12.5	0
Leavenworth	999	909	91.0	90	9.0	0
Lincoln	37	32	86.5	5	13.5	0
Linn	95	84	88.4	11	11.6	0
Logan	54	51	94.4	3	5.6	0

Table C18
Live Births by County of Residence and Peer Group*
by Birth Weight Category for Gestational Age†
Kansas, 2016

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	417	381	91.4	36	8.6	0
McPherson	308	296	96.1	12	3.9	0
Marion	118	111	94.1	7	5.9	0
Marshall	112	103	92.0	9	8.0	0
Meade	54	47	87.0	7	13.0	0
Miami	345	323	93.6	22	6.4	0
Mitchell	84	79	94.0	5	6.0	0
Montgomery	385	349	90.9	35	9.1	1
Morris	63	59	93.7	4	6.3	0
Morton	25	22	91.7	2	8.3	1
Nemaha	140	129	92.1	11	7.9	0
Neosho	217	191	88.0	26	12.0	0
Ness	37	35	94.6	2	5.4	0
Norton	66	59	89.4	7	10.6	0
Osage	183	159	86.9	24	13.1	0
Osborne	40	37	92.5	3	7.5	0
Ottawa	61	55	90.2	6	9.8	0
Pawnee	64	57	89.1	7	10.9	0
Phillips	68	62	91.2	6	8.8	0
Pottawatomie	394	362	92.3	30	7.7	2
Pratt	126	114	90.5	12	9.5	0
Rawlins	34	32	94.1	2	5.9	0
Reno	683	624	91.4	59	8.6	0
Republic	43	36	83.7	7	16.3	0
Rice	110	98	89.1	12	10.9	0
Riley	976	883	90.5	93	9.5	0
Rooks	68	60	88.2	8	11.8	0
Rush	40	35	87.5	5	12.5	0
Russell	81	76	93.8	5	6.2	0
Saline	662	581	87.8	81	12.2	0
Scott	63	54	85.7	9	14.3	0
Sedgwick	7,309	6,560	89.8	748	10.2	1
Seward	429	378	88.5	49	11.5	2
Shawnee	2,189	1,967	89.9	222	10.1	0
Sheridan	33	31	93.9	2	6.1	0
Sherman	73	65	89.0	8	11.0	0
Smith	40	34	85.0	6	15.0	0
Stafford	53	49	92.5	4	7.5	0
Stanton	25	20	80.0	5	20.0	0
Stevens	74	67	90.5	7	9.5	0
Sumner	255	234	91.8	21	8.2	0
Thomas	119	108	90.8	11	9.2	0
Trego	28	26	92.9	2	7.1	0
Wabaunsee	67	64	95.5	3	4.5	0
Wallace	23	21	91.3	2	8.7	0
Washington	67	60	89.6	7	10.4	0
Wichita	21	19	90.5	2	9.5	0
Wilson	114	98	86.0	16	14.0	0
Woodson	38	36	94.7	2	5.3	0
Wyandotte	2,694	2,327	86.4	367	13.6	0
n.s.	4	4	n/a	0	n/a	0
Peer Group						
Frontier	1,326	1,201	90.6	124	9.4	1
Rural	2,765	2,494	90.2	270	9.8	1
Densely -Settled Rural	6,303	5,645	89.6	653	10.4	5
Semi-Urban	5,932	5,372	90.6	556	9.4	4
Urban	21,718	19,545	90.0	2,169	10.0	4

* 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, 2016

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	36,902	7,378	20.2	11,577	31.6	17,659	48.2	288
Allen	135	31	23.1	38	28.4	65	48.5	1
Anderson	109	23	21.5	39	36.4	45	42.1	2
Atchison	191	32	17.0	60	31.9	96	51.1	3
Barber	54	13	24.1	17	31.5	24	44.4	0
Barton	321	87	27.2	103	32.2	130	40.6	1
Bourbon	186	46	25.1	44	24.0	93	50.8	3
Brown	110	23	21.1	30	27.5	56	51.4	1
Butler	733	138	19.0	234	32.2	355	48.8	6
Chase	32	8	25.0	15	46.9	9	28.1	0
Chautauqua	28	2	7.7	6	23.1	18	69.2	2
Cherokee	210	46	22.0	68	32.5	95	45.5	1
Cheyenne	39	8	21.6	8	21.6	21	56.8	2
Clark	24	5	20.8	13	54.2	6	25.0	0
Clay	112	19	17.3	34	30.9	57	51.8	2
Cloud	91	15	16.7	29	32.2	46	51.1	1
Coffey	93	21	22.8	24	26.1	47	51.1	1
Comanche	13	4	30.8	4	30.8	5	38.5	0
Cowley	393	97	24.8	124	31.7	170	43.5	2
Crawford	468	96	20.5	145	31.0	227	48.5	0
Decatur	31	6	19.4	12	38.7	13	41.9	0
Dickinson	219	61	28.1	59	27.2	97	44.7	2
Doniphan	68	13	19.1	26	38.2	29	42.6	0
Douglas	1,136	199	17.7	344	30.6	583	51.8	10
Edwards	29	5	17.2	10	34.5	14	48.3	0
Elk	33	9	27.3	5	15.2	19	57.6	0
Ellis	343	66	19.4	123	36.2	151	44.4	3
Ellsworth	61	14	23.0	15	24.6	32	52.5	0
Finney	632	165	26.1	202	32.0	265	41.9	0
Ford	623	148	23.9	188	30.4	282	45.6	5
Franklin	298	73	24.9	87	29.7	133	45.4	5
Geary	939	217	23.3	264	28.3	452	48.4	6
Gove	40	8	20.0	14	35.0	18	45.0	0
Graham	20	5	25.0	5	25.0	10	50.0	0
Grant.	121	39	32.5	40	33.3	41	34.2	1
Gray	84	17	20.5	25	30.1	41	49.4	1
Greeley	15	4	26.7	6	40.0	5	33.3	0
Greenwood	67	14	20.9	15	22.4	38	56.7	0
Hamilton	37	12	32.4	9	24.3	16	43.2	0
Harper	63	16	25.4	20	31.7	27	42.9	0
Harvey	375	68	18.3	131	35.3	172	46.4	4
Haskell	55	13	23.6	20	36.4	22	40.0	0
Hodgeman	23	8	34.8	10	43.5	5	21.7	0
Jackson	161	29	18.0	50	31.1	82	50.9	0
Jefferson	194	40	20.9	55	28.8	96	50.3	3
Jewell	36	7	20.0	7	20.0	21	60.0	1
Johnson	7,073	1,141	16.3	2,399	34.2	3,473	49.5	60
Kearny	57	19	33.3	15	26.3	23	40.4	0
Kingman	74	11	14.9	22	29.7	41	55.4	0
Kiowa	37	6	16.2	9	24.3	22	59.5	0
Labette	285	78	27.6	88	31.1	117	41.3	2
Lane	16	3	18.8	5	31.3	8	50.0	0
Leavenworth	950	137	14.5	304	32.1	505	53.4	4
Lincoln	37	9	24.3	18	48.6	10	27.0	0
Linn	94	21	22.3	32	34.0	41	43.6	0
Logan	52	6	11.8	17	33.3	28	54.9	1

Table C19
Mother's Weight Gain in Pregnancy for Singleton Births,
by County of Residence and Peer Group*,
Kansas, 2016

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	407	80	19.8	113	27.9	212	52.3	2
McPherson	291	69	23.9	87	30.1	133	46.0	2
Marion	116	27	23.5	42	36.5	46	40.0	1
Marshall	110	17	15.5	25	22.7	68	61.8	0
Meade	52	11	21.2	13	25.0	28	53.8	0
Miami	335	47	14.1	101	30.3	185	55.6	2
Mitchell	82	21	25.6	27	32.9	34	41.5	0
Montgomery	377	105	28.4	98	26.5	167	45.1	7
Morris	63	21	33.9	20	32.3	21	33.9	1
Morton	23	7	30.4	6	26.1	10	43.5	0
Nemaha	138	22	15.9	52	37.7	64	46.4	0
Neosho	210	69	32.9	85	40.5	56	26.7	0
Ness	37	5	13.5	17	45.9	15	40.5	0
Norton	66	12	18.8	18	28.1	34	53.1	2
Osage	179	34	19.1	40	22.5	104	58.4	1
Osborne	40	7	17.5	13	32.5	20	50.0	0
Ottawa	61	10	16.4	19	31.1	32	52.5	0
Pawnee	62	13	21.0	22	35.5	27	43.5	0
Phillips	66	14	21.2	17	25.8	35	53.0	0
Pottawatomie	392	74	19.1	107	27.6	206	53.2	5
Pratt	122	19	15.6	42	34.4	61	50.0	0
Rawlins	34	4	11.8	13	38.2	17	50.0	0
Reno	664	131	19.8	182	27.5	349	52.7	2
Republic	41	9	22.0	9	22.0	23	56.1	0
Rice	108	27	25.2	37	34.6	43	40.2	1
Riley	942	192	20.5	318	33.9	428	45.6	4
Rooks	64	11	17.2	24	37.5	29	45.3	0
Rush	36	10	28.6	8	22.9	17	48.6	1
Russell	81	18	22.2	28	34.6	35	43.2	0
Saline	646	131	20.4	208	32.4	302	47.1	5
Scott	61	15	24.6	14	23.0	32	52.5	0
Sedgwick	7,088	1,419	20.2	2,267	32.3	3,330	47.5	72
Seward	425	104	24.9	136	32.6	177	42.4	8
Shawnee	2,137	428	20.2	577	27.2	1,116	52.6	16
Sheridan	31	4	12.9	10	32.3	17	54.8	0
Sherman	69	15	21.7	21	30.4	33	47.8	0
Smith	40	9	23.7	13	34.2	16	42.1	2
Stafford	53	12	22.6	14	26.4	27	50.9	0
Stanton	25	7	28.0	5	20.0	13	52.0	0
Stevens	72	10	13.9	27	37.5	35	48.6	0
Sumner	249	36	14.5	92	36.9	121	48.6	0
Thomas	117	19	16.2	41	35.0	57	48.7	0
Trego	28	5	17.9	7	25.0	16	57.1	0
Wabaunsee	63	12	19.4	13	21.0	37	59.7	1
Wallace	23	3	13.0	5	21.7	15	65.2	0
Washington	67	10	14.9	24	35.8	33	49.3	0
Wichita	21	8	38.1	4	19.0	9	42.9	0
Wilson	110	29	26.6	29	26.6	51	46.8	1
Woodson	38	8	21.1	7	18.4	23	60.5	0
Wyandotte	2,616	605	23.3	794	30.5	1,201	46.2	16
n.s.	4	2	n/a	0	n/a	2	n/a	0
Peer Group								
Frontier	1,296	279	21.7	393	30.5	615	47.8	9
Rural	2,711	565	21.0	843	31.3	1,287	47.8	16
Densely -Settled Rural	6,114	1,405	23.1	1,888	31.1	2,777	45.7	44
Semi-Urban	5,777	1,198	20.9	1,768	30.8	2,770	48.3	41
Urban	21,000	3,929	18.9	6,685	32.1	10,208	49.0	178

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

Table C20
Live Births by County of Residence and Peer Group*
by Population Group of Mother
Kansas, 2016

County of Residence	Total	Population Group						
		White Non-Hispanic	Black Non-Hispanic	Native American Non-Hispanic	Asian/Pacific Islander Non-Hispanic	Other Non-Hispanic†	Hispanic Any Race	n.s.
Kansas	38,048	26,786	2,494	170	1,221	1,056	6,300	21
Allen	137	125	2	0	0	5	5	0
Anderson	111	109	0	0	0	0	2	0
Atchison	203	182	10	2	0	6	3	0
Barber	56	49	1	0	0	0	6	0
Barton	331	235	5	1	0	7	83	0
Bourbon	194	174	7	0	3	6	4	0
Brown	112	85	0	16	0	5	6	0
Butler	757	680	9	5	11	10	42	0
Chase	32	29	0	0	0	1	2	0
Chautauqua	28	23	0	1	0	2	2	0
Cherokee	217	187	3	5	0	11	11	0
Cheyenne	39	34	0	0	0	0	5	0
Clark	24	19	0	0	1	0	4	0
Clay	117	109	1	0	0	3	4	0
Cloud	91	84	1	0	0	1	5	0
Coffey	95	92	1	0	0	0	2	0
Comanche	13	10	0	0	0	0	3	0
Cowley	397	293	10	3	12	11	68	0
Crawford	480	394	14	2	6	11	52	1
Decatur	31	28	0	0	0	0	3	0
Dickinson	225	205	0	1	1	5	13	0
Doniphan	74	70	0	1	0	2	1	0
Douglas	1,177	915	41	27	65	40	88	1
Edwards	31	25	0	0	0	0	6	0
Elk	35	28	0	2	0	1	4	0
Ellis	357	310	4	0	12	6	23	2
Ellsworth	63	62	0	0	0	0	1	0
Finney	655	229	24	0	23	3	376	0
Ford	646	186	21	0	3	2	434	0
Franklin	298	274	3	1	1	5	14	0
Geary	967	587	133	6	24	53	163	1
Gove	40	33	0	0	1	0	6	0
Graham	20	17	0	0	1	2	0	0
Grant	123	51	0	1	0	1	69	1
Gray	86	71	0	0	0	0	15	0
Greeley	15	12	0	0	0	0	3	0
Greenwood	67	61	0	0	1	2	3	0
Hamilton	37	15	0	0	0	1	21	0
Harper	65	55	2	1	0	0	7	0
Harvey	379	311	5	0	5	7	51	0
Haskell	55	32	0	0	0	1	21	1
Hodgeman	23	21	0	0	0	1	1	0
Jackson	169	128	2	20	0	5	14	0
Jefferson	202	192	1	0	0	5	4	0
Jewell	36	35	0	0	0	0	1	0
Johnson	7,350	5,589	381	5	460	190	721	4
Kearny	61	29	1	0	1	0	30	0
Kingman	74	72	0	0	0	0	2	0
Kiowa	37	36	1	0	0	0	0	0
Labette	293	244	15	7	0	13	14	0
Lane	16	12	0	1	0	0	3	0
Leavenworth	999	809	78	4	23	33	52	0
Lincoln	37	34	0	0	0	0	3	0
Linn	95	93	0	0	0	0	2	0
Logan	54	51	0	0	1	0	2	0

Table C20
Live Births by County of Residence and Peer Group*
by Population Group of Mother
Kansas, 2016

County of Residence	Total	Population Group						
		White Non-Hispanic	Black Non-Hispanic	Native American Non-Hispanic	Asian/Pacific Islander Non-Hispanic	Other Non-Hispanic†	Hispanic Any Race	n.s.
Lyon	417	262	6	1	8	19	121	0
McPherson	308	279	3	0	4	5	17	0
Marion	118	109	0	0	0	3	6	0
Marshall	112	105	1	1	2	2	1	0
Meade	54	32	2	0	0	1	19	0
Miami	345	316	5	1	4	4	15	0
Mitchell	84	81	0	0	0	0	3	0
Montgomery	385	307	15	4	2	24	32	1
Morris	63	57	0	0	0	2	4	0
Morton	25	16	0	0	0	0	9	0
Nemaha	140	131	1	0	2	1	5	0
Neosho	217	193	2	0	4	5	13	0
Ness	37	28	0	0	0	0	9	0
Norton	66	62	0	0	0	1	2	1
Osage	183	166	0	1	0	6	9	1
Osborne	40	38	0	0	0	0	2	0
Ottawa	61	57	0	0	0	2	2	0
Pawnee	64	57	0	1	0	2	4	0
Phillips	68	59	1	0	0	2	6	0
Pottawatomie	394	350	1	0	5	11	27	0
Pratt	126	107	2	0	0	0	17	0
Rawlins	34	31	0	0	0	0	3	0
Reno	683	552	13	5	5	24	84	0
Republic	43	43	0	0	0	0	0	0
Rice	110	84	0	0	0	2	24	0
Riley	976	689	88	3	71	45	80	0
Rooks	68	63	0	0	0	3	2	0
Rush	40	39	0	0	0	0	1	0
Russell	81	73	0	1	0	4	3	0
Saline	662	484	20	0	15	14	128	1
Scott	63	49	1	0	0	0	13	0
Sedgwick	7,309	4,709	797	18	282	167	1,332	4
Seward	429	87	10	2	6	7	317	0
Shawnee	2,189	1,441	214	15	31	88	398	2
Sheridan	33	28	0	0	0	0	5	0
Sherman	73	60	1	0	1	0	11	0
Smith	40	39	0	0	0	0	1	0
Stafford	53	44	0	0	1	0	8	0
Stanton	25	17	0	0	0	0	8	0
Stevens	74	38	0	1	1	1	33	0
Sumner	255	240	2	0	1	1	11	0
Thomas	119	102	0	0	1	1	15	0
Trego	28	26	0	0	0	1	1	0
Wabaunsee	67	63	0	0	0	1	3	0
Wallace	23	23	0	0	0	0	0	0
Washington	67	57	0	0	0	3	7	0
Wichita	21	14	0	0	0	0	7	0
Wilson	114	108	0	0	0	1	5	0
Woodson	38	34	0	0	0	0	4	0
Wyandotte	2,694	900	533	4	120	146	991	0
n.s.	4	2	0	0	0	0	2	0
Peer Group								
Frontier	1,326	1,099	6	4	8	15	194	0
Rural	2,765	2,391	11	22	6	39	293	3
Densely -Settled Rural	6,303	4,337	128	44	82	141	1,568	3
Semi-Urban	5,932	4,594	305	27	144	197	661	4
Urban	21,718	14,363	2,044	73	981	664	3,582	11

* 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, 2012-2016

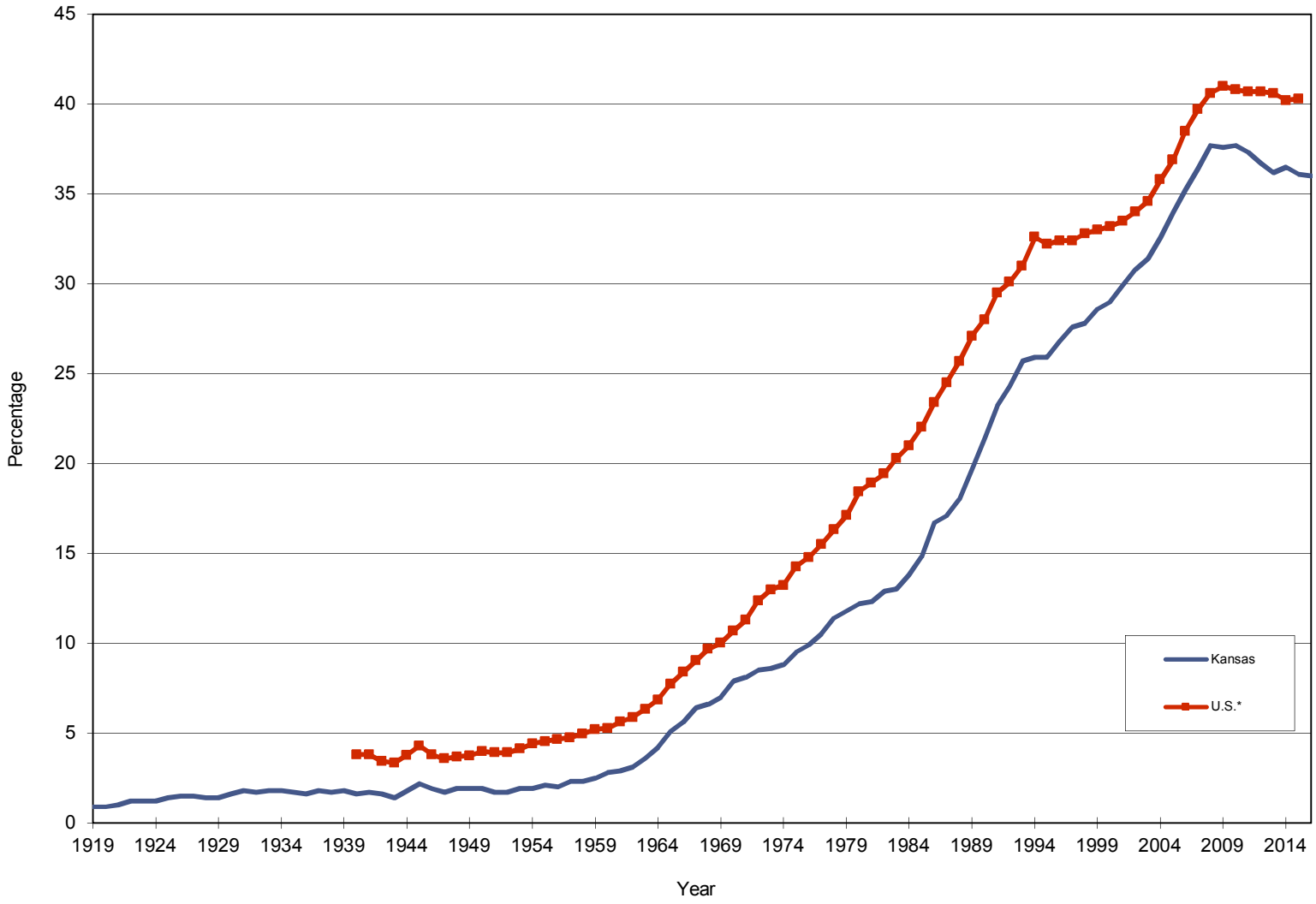
City of Residence	Year 2012 Number	2012 Rate	2013 Number	2013 Rate	2014 Number	2014 Rate	2015 Number	2015 Rate	2016 Number	2016 Rate	5-Year Rate
Abilene	92	13.6	85	12.8	89	13.5	89	13.6	92	14.2	13.5
Andover	164	13.6	170	13.9	167	13.4	164	12.9	181	13.9	13.5
Arkansas City	208	16.9	213	17.3	200	16.4	191	15.7	184	15.3	16.3
Atchison	156	14.2	140	12.8	148	13.7	157	14.7	153	14.3	14.0
Augusta	150	16.3	143	15.5	135	14.6	127	13.7	122	13.1	14.6
Baldwin City	46	10.2	31	6.8	41	8.9	46	9.9	44	9.4	9.0
Basehor	54	11.3	62	12.7	71	13.9	61	11.3	81	14.3	12.7
Baxter Springs	66	15.9	49	11.9	49	12.0	57	14.2	52	13.1	13.4
Bel Aire	81	11.8	55	8.0	84	11.5	96	12.9	78	10.2	10.9
Beloit	43	11.2	45	11.7	51	13.4	50	13.2	51	13.5	12.6
Bonner Springs	105	14.2	109	14.6	117	15.5	103	13.5	107	14.0	14.3
Burlington	31	11.7	29	11.0	25	9.5	27	10.3	32	12.3	11.0
Chanute	152	16.6	131	14.2	130	14.0	116	12.5	122	13.3	14.1
Clay Center	54	12.5	63	14.9	51	12.2	52	12.5	68	16.7	13.7
Coffeyville	160	16.0	155	15.6	152	15.4	137	14.2	118	12.4	14.7
Colby	87	16.1	72	13.3	104	19.3	80	14.8	82	15.1	15.7
Columbus	43	13.2	38	11.8	43	13.5	52	16.5	35	11.3	13.3
Concordia	79	14.8	67	12.7	57	10.7	74	14.2	62	12.0	12.9
Derby	331	14.4	326	14.1	301	13.0	301	12.8	346	14.6	13.8
De Soto	72	12.3	82	13.9	66	10.9	70	11.5	74	12.2	12.1
Dodge City	612	21.8	607	21.6	604	21.5	580	20.8	585	21.3	21.4
Edwardsville	38	8.7	50	11.5	47	10.7	47	10.7	46	10.5	10.4
El Dorado	221	17.1	166	12.9	177	13.7	188	14.5	167	12.7	14.2
Ellsworth	31	9.9	24	7.8	26	8.5	29	9.5	22	7.2	8.6
Emporia	358	14.3	335	13.5	334	13.6	336	13.6	343	13.8	13.8
Eudora	94	15.2	78	12.6	84	13.3	93	14.6	83	13.0	13.7
Eureka	22	8.7	28	11.1	37	14.9	34	13.9	22	9.1	11.5
Fairway	59	15.0	61	15.4	66	16.6	72	18.1	49	12.3	15.5
Fort Scott	123	15.5	140	17.6	137	17.4	118	15.1	117	15.1	16.1
Frontenac	37	10.7	34	9.9	49	14.2	44	12.9	38	11.1	11.8
Galena	31	10.2	42	14.0	40	13.5	50	17.1	51	17.7	14.5
Garden City	612	22.7	565	21.0	578	21.4	597	22.1	537	20.1	21.4
Gardner	399	19.6	376	18.4	365	17.7	367	17.6	376	17.8	18.2
Garnett	32	9.6	39	11.8	40	12.1	42	12.9	42	12.9	11.9
Girard	21	7.5	25	9.0	42	15.1	31	11.2	36	13.1	11.2
Goddard	95	21.0	92	20.1	84	17.9	100	21.2	85	18.0	19.6
Goodland	70	15.4	65	14.3	73	16.0	67	15.0	56	12.6	14.7
Great Bend	259	16.3	226	14.2	218	13.8	251	16.0	223	14.4	14.9
Hays	307	14.6	277	13.2	254	12.1	273	12.9	278	13.2	13.2
Haysville	201	18.4	176	16.0	139	12.5	187	16.7	180	16.0	15.9
Herington	24	9.6	27	11.0	24	9.9	27	11.3	32	13.5	11.1
Hesston	43	11.5	41	11.0	47	12.6	38	10.0	37	9.7	10.9
Hiawatha	45	14.4	48	15.1	36	11.6	39	12.6	36	11.7	13.1
Hillsboro	27	9.2	24	8.3	38	13.1	25	8.7	27	9.4	9.7
Hoisington	42	15.6	39	14.5	33	12.4	35	13.3	23	8.9	13.0
Holton	64	19.4	56	17.1	52	15.7	51	15.6	44	13.4	16.2
Hugoton	68	17.3	74	18.6	50	12.6	59	14.9	56	14.6	15.6
Hutchinson	509	12.1	526	12.6	510	12.2	481	11.6	462	11.2	11.9
Independence	169	18.3	141	15.3	149	16.3	171	19.1	132	15.0	16.8
Iola	77	13.5	76	13.5	92	16.6	74	13.5	61	11.2	13.7
Junction City	666	25.8	627	24.7	615	24.9	651	26.4	554	22.9	25.0
Kansas City	2,616	17.8	2,519	17.0	2,607	17.4	2,598	17.2	2,524	16.6	17.2

Table C21
Live Births by Selected City of Residence
by Number and Rate*
Kansas, 2012-2016

City of Residence	Year 2012 Number	2012 Rate	2013 Number	2013 Rate	2014 Number	2014 Rate	2015 Number	2015 Rate	2016 Number	2016 Rate	5-Year Rate
Kingman	41	12.9	44	13.9	28	9.0	41	13.3	35	11.7	12.2
Lansing	79	6.8	84	7.2	101	8.6	100	8.5	95	8.0	7.8
Larned	49	12.2	46	11.4	51	12.7	50	12.6	48	12.3	12.2
Lawrence	1,040	11.6	1,021	11.2	1,019	11.0	1,107	11.8	969	10.2	11.2
Leavenworth	441	12.3	416	11.6	414	11.5	463	12.9	425	11.8	12.0
Leawood	245	7.5	261	7.9	256	7.4	271	7.8	268	7.8	7.7
Lenexa	636	12.9	601	11.9	657	12.9	652	12.4	608	11.5	12.3
Liberal	432	20.5	409	19.5	414	19.7	407	19.6	403	19.8	19.8
Lindsborg	35	10.1	32	9.2	31	9.0	24	7.1	27	8.1	8.7
Louisburg	65	15.2	56	13.0	74	17.1	66	15.4	59	13.5	14.8
Lyons	59	15.8	58	15.5	51	13.6	61	16.4	53	14.4	15.2
McPherson	200	15.1	167	12.5	179	13.6	174	13.2	154	11.7	13.2
Maize	66	17.8	68	17.8	81	19.9	69	15.8	76	17.1	17.6
Manhattan	812	14.5	701	12.5	770	13.7	692	12.3	680	12.4	13.1
Marysville	31	9.4	47	14.3	56	17.0	52	15.6	41	12.4	13.8
Merriam	137	12.3	141	12.5	142	12.6	145	12.8	120	10.7	12.2
Mission	167	17.6	156	16.4	178	18.7	175	18.4	154	16.3	17.5
Mission Hills	31	8.7	21	5.9	35	9.7	29	8.1	42	11.7	8.8
Mulvane	73	11.6	101	16.1	52	8.3	75	11.9	67	10.6	11.7
Newton	306	15.9	295	15.4	259	13.5	255	13.3	235	12.3	14.1
Norton	36	12.5	38	13.2	39	13.7	36	12.7	48	17.1	13.8
Olathe	1,986	15.3	1,990	15.1	1,962	14.7	1,901	14.2	1,889	13.9	14.6
Osage City	28	9.6	28	9.7	33	11.5	36	12.7	40	14.1	11.5
Osawatomie	76	17.3	42	9.6	66	15.1	58	13.5	48	11.1	13.3
Ottawa	183	14.6	188	15.1	176	14.2	185	14.9	173	14.0	14.5
Overland Park	2,090	11.7	2,169	12.0	2,080	11.3	2,260	12.1	2,187	11.6	11.7
Paola	79	14.2	84	14.9	92	16.4	74	13.4	72	12.9	14.4
Park City	113	15.2	83	11.1	119	15.7	116	15.2	114	14.9	14.4
Parsons	175	16.9	165	16.2	137	13.5	141	14.0	162	16.4	15.4
Phillipsburg	40	15.9	37	14.6	33	12.9	30	11.9	35	13.8	13.8
Pittsburg	309	15.2	305	15.0	325	15.9	278	13.6	285	14.0	14.7
Prairie Village	340	15.6	343	15.7	324	14.8	345	15.8	322	14.8	15.3
Pratt	110	16.0	95	13.6	115	16.5	108	15.8	91	13.4	15.1
Roeland Park	130	19.1	100	14.6	119	17.4	125	18.3	122	18.0	17.5
Rose Hill	45	11.4	56	14.2	62	15.7	58	14.5	57	14.2	14.0
Russell	58	12.9	71	15.9	55	12.3	55	12.1	51	11.3	12.9
Sabetha	35	13.7	37	14.4	43	16.8	46	17.8	38	14.7	15.5
St Marys	70	26.4	68	25.4	79	29.7	71	26.7	87	32.7	28.1
Salina	694	14.4	703	14.7	683	14.3	669	14.0	592	12.5	14.0
Scott City	51	13.4	52	13.4	60	15.3	45	11.7	51	13.1	13.4
Shawnee	901	14.2	807	12.5	896	13.9	858	13.2	863	13.2	13.4
Spring Hill	111	19.8	87	15.2	114	19.3	102	17.1	99	16.1	17.5
Tonganoxie	90	17.6	101	19.6	94	18.1	96	18.3	98	18.4	18.4
Topeka	2,053	16.0	2,004	15.7	1,961	15.4	1,894	14.9	1,832	14.4	15.3
Ulysses	84	13.5	110	17.5	97	15.7	96	15.7	111	18.4	16.2
Valley Center	109	15.6	95	13.6	104	14.7	107	14.8	110	15.0	14.7
Wamego	78	17.4	62	13.5	73	15.9	78	16.9	84	17.8	16.3
Wellington	116	14.5	98	12.3	97	12.2	114	14.3	92	11.7	13.0
Wichita	6,500	16.9	6,170	16.0	6,058	15.6	5,946	15.2	5,927	15.2	15.8
Winfield	167	13.5	159	12.9	162	13.2	151	12.4	131	10.7	12.5

*Rate per 1,000 population

Out-of-Wedlock Birth Ratios
Kansas and the U.S., 1919-2016



*1919-1939, not available; 2016 not available
Percentage of all births to unmarried women

Figure C7

Table C22
Out-of-Wedlock Births by County of Residence and Peer Group*
by Age-Group and Population Group of Mother
Kansas, 2016

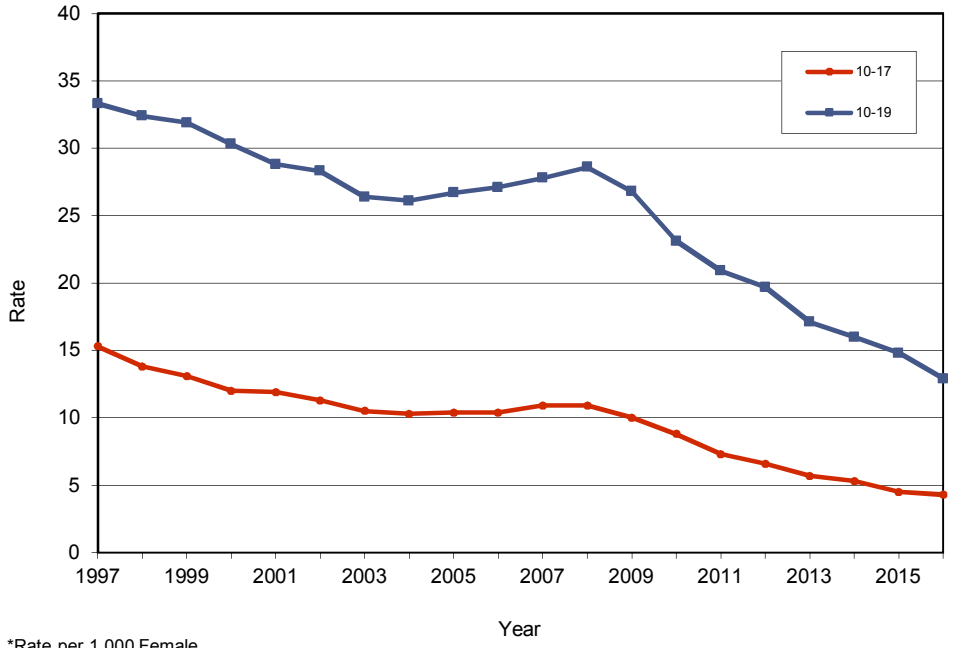
County of Residence	Total	Age-Group of Mother									Population Group						
		10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	n.s.	White Non-Hisp.	Black Non-Hisp.	Nat. Am. Non-Hisp.	Asian/PI Non-Hisp.	Other Non Hisp.†	Hisp. Any Race	n.s.
Kansas	13,705	22	1,880	5,322	3,573	1,923	812	166	6	1	7,958	1,726	95	155	456	3,308	7
Allen	52	1	9	24	8	7	3	0	0	0	46	1	0	0	3	2	0
Anderson	31	0	6	14	7	3	1	0	0	0	30	0	0	0	0	1	0
Atchison	98	0	13	35	27	16	6	1	0	0	83	8	0	0	4	3	0
Barber	20	0	3	11	3	3	0	0	0	0	17	0	0	0	0	3	0
Barton	153	1	21	64	44	16	5	2	0	0	91	4	1	0	7	50	0
Bourbon	92	0	19	40	23	6	4	0	0	0	83	5	0	0	2	2	0
Brown	42	0	4	22	8	7	1	0	0	0	24	0	13	0	2	3	0
Butler	220	0	34	95	45	29	16	1	0	0	191	6	2	0	5	16	0
Chase	8	0	2	5	1	0	0	0	0	0	5	0	0	0	1	2	0
Chautauqua	10	0	2	5	1	1	1	0	0	0	8	0	0	0	1	1	0
Cherokee	96	0	17	37	23	11	7	1	0	0	83	1	1	0	7	4	0
Cheyenne	9	0	3	3	1	1	1	0	0	0	8	0	0	0	0	1	0
Clark	4	0	2	0	1	1	0	0	0	0	3	0	0	0	0	1	0
Clay	30	0	4	9	13	3	1	0	0	0	28	0	0	0	2	0	0
Cloud	46	0	4	18	13	10	1	0	0	0	41	1	0	0	1	3	0
Coffey	27	0	5	15	4	3	0	0	0	0	26	1	0	0	0	0	0
Comanche	5	0	0	1	3	1	0	0	0	0	3	0	0	0	0	2	0
Cowley	190	0	27	78	55	19	10	1	0	0	126	7	0	5	7	45	0
Crawford	240	1	29	112	59	27	12	0	0	0	187	10	1	0	6	35	1
Decatur	13	0	0	10	3	0	0	0	0	0	12	0	0	0	0	1	0
Dickinson	79	0	12	34	18	11	2	2	0	0	69	0	1	0	1	8	0
Doniphan	27	0	5	9	7	3	3	0	0	0	26	0	0	0	0	1	0
Douglas	360	0	28	144	95	62	26	4	1	0	249	29	18	2	16	46	0
Edwards	14	0	2	3	6	1	2	0	0	0	10	0	0	0	0	4	0
Elk	12	0	1	6	3	2	0	0	0	0	7	0	2	0	1	2	0
Ellis	112	0	7	42	35	17	5	4	1	1	89	3	0	3	4	12	1
Ellsworth	16	0	1	9	3	3	0	0	0	0	15	0	0	0	0	1	0
Finney	282	0	46	111	70	32	21	2	0	0	62	7	0	3	0	210	0
Ford	302	0	41	116	79	45	17	4	0	0	61	10	0	1	1	229	0
Franklin	126	0	15	59	30	15	4	3	0	0	112	1	0	0	4	9	0
Geary	182	1	28	66	49	19	13	6	0	0	87	36	3	7	18	31	0
Gove	6	0	1	1	4	0	0	0	0	0	4	0	0	0	0	2	0
Graham	5	0	0	4	1	0	0	0	0	0	4	0	0	0	1	0	0
Grant	42	0	7	20	7	4	3	1	0	0	17	0	1	0	1	23	0
Gray	19	0	2	9	4	3	1	0	0	0	12	0	0	0	0	7	0
Greeley	3	0	1	0	0	2	0	0	0	0	2	0	0	0	0	1	0
Greenwood	28	0	4	13	7	2	2	0	0	0	24	0	0	0	2	2	0
Hamilton	19	0	2	9	6	1	0	1	0	0	5	0	0	0	0	14	0
Harper	20	0	2	9	3	4	2	0	0	0	15	2	0	0	0	3	0
Harvey	136	0	28	54	24	16	14	0	0	0	99	3	0	0	7	27	0
Haskell	22	0	1	10	7	2	1	1	0	0	9	0	0	0	0	12	1
Hodgeman	4	0	1	1	2	0	0	0	0	0	4	0	0	0	0	0	0
Jackson	65	0	8	29	12	12	4	0	0	0	36	2	13	0	3	11	0
Jefferson	63	0	9	32	10	9	2	0	1	0	59	1	0	0	3	0	0
Jewell	6	0	1	3	1	1	0	0	0	0	6	0	0	0	0	0	0
Johnson	1,429	0	130	459	417	258	139	26	0	0	825	195	3	28	48	329	1
Kearny	26	0	3	11	7	4	0	1	0	0	7	1	0	0	0	18	0
Kingman	25	0	4	14	3	3	1	0	0	0	24	0	0	0	0	1	0
Kiowa	9	0	1	3	4	0	1	0	0	0	8	1	0	0	0	0	0
Labette	130	0	19	59	34	12	5	1	0	0	96	15	3	0	5	11	0
Lane	6	0	1	2	1	1	0	1	0	0	4	0	0	0	0	2	0
Leavenworth	333	0	50	134	88	39	19	3	0	0	253	45	1	1	15	18	0
Lincoln	12	0	1	5	3	2	1	0	0	0	12	0	0	0	0	0	0
Linn	40	0	7	14	11	7	1	0	0	0	39	0	0	0	0	1	0
Logan	13	0	2	3	4	3	0	1	0	0	11	0	0	0	0	2	0

Table C22
Out-of-Wedlock Births by County of Residence and Peer Group*
by Age-Group and Population Group of Mother
Kansas, 2016

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	175	1	31	67	44	21	10	1	0	0	93	3	0	1	11	67	0
McPherson	73	0	15	30	16	9	3	0	0	0	63	2	0	0	1	7	0
Marion	30	0	6	10	9	3	1	1	0	0	29	0	0	0	0	1	0
Marshall	27	0	6	14	3	4	0	0	0	0	24	1	0	0	1	1	0
Meade	16	0	6	5	2	2	0	1	0	0	6	0	0	0	0	10	0
Miami	106	0	17	44	29	8	8	0	0	0	90	5	0	0	3	8	0
Mitchell	23	0	7	10	3	1	2	0	0	0	22	0	0	0	0	1	0
Montgomery	212	0	26	90	58	26	10	2	0	0	161	14	0	0	15	21	1
Morris	20	0	1	9	6	4	0	0	0	0	18	0	0	0	0	2	0
Morton	12	0	3	2	3	2	2	0	0	0	7	0	0	0	0	5	0
Nemaha	36	0	2	16	12	5	1	0	0	0	32	1	0	0	0	3	0
Neosho	80	0	12	37	19	7	4	1	0	0	68	1	0	2	3	6	0
Ness	12	0	4	3	2	3	0	0	0	0	7	0	0	0	0	5	0
Norton	27	0	3	14	3	7	0	0	0	0	25	0	0	0	1	1	0
Osage	81	0	12	40	17	8	3	1	0	0	72	0	0	0	5	4	0
Osborne	11	0	0	8	1	1	0	1	0	0	9	0	0	0	0	2	0
Ottawa	24	0	2	12	6	4	0	0	0	0	22	0	0	0	1	1	0
Pawnee	28	0	1	14	10	2	1	0	0	0	24	0	0	0	1	3	0
Phillips	24	0	3	11	5	2	1	1	1	0	20	1	0	0	2	1	0
Pottawatomie	72	0	14	27	17	8	4	2	0	0	62	0	0	1	4	5	0
Pratt	40	0	9	18	8	3	2	0	0	0	31	2	0	0	0	7	0
Rawlins	6	0	0	2	3	0	1	0	0	0	4	0	0	0	0	2	0
Reno	302	2	43	137	71	35	11	3	0	0	220	9	4	2	13	54	0
Republic	10	1	1	4	3	0	1	0	0	0	10	0	0	0	0	0	0
Rice	44	0	11	14	10	8	1	0	0	0	30	0	0	0	2	12	0
Riley	173	0	15	71	48	24	13	2	0	0	106	30	2	3	9	23	0
Rooks	20	0	1	9	6	3	1	0	0	0	18	0	0	0	2	0	0
Rush	13	0	1	3	5	2	2	0	0	0	13	0	0	0	0	0	0
Russell	37	0	4	19	10	1	2	1	0	0	34	0	0	0	2	1	0
Saline	307	1	39	121	87	39	16	4	0	0	225	12	0	1	10	59	0
Scott	26	0	2	14	7	2	1	0	0	0	20	1	0	0	0	5	0
Sedgwick	3,132	5	462	1,191	828	438	174	34	0	0	1,633	625	9	64	79	720	2
Seward	217	0	37	81	53	29	15	2	0	0	32	6	2	0	3	174	0
Shawnee	1,054	3	142	398	281	154	61	15	0	0	560	177	12	6	68	231	0
Sheridan	7	0	2	2	0	1	2	0	0	0	4	0	0	0	0	3	0
Sherman	24	0	1	13	7	2	1	0	0	0	19	0	0	0	0	5	0
Smith	11	0	1	7	2	1	0	0	0	0	11	0	0	0	0	0	0
Stafford	23	0	5	9	7	2	0	0	0	0	19	0	0	0	0	4	0
Stanton	8	0	0	4	2	1	1	0	0	0	6	0	0	0	0	2	0
Stevens	31	0	4	13	4	7	2	1	0	0	14	0	0	1	0	16	0
Sumner	101	0	14	38	33	10	5	1	0	0	93	2	0	0	0	6	0
Thomas	33	0	8	11	9	2	3	0	0	0	27	0	0	0	0	6	0
Trego	9	0	3	3	2	1	0	0	0	0	8	0	0	0	1	0	0
Wabaunsee	20	1	2	10	5	1	1	0	0	0	19	0	0	0	0	1	0
Wallace.	3	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0	0
Washington	8	0	3	2	2	1	0	0	0	0	6	0	0	0	0	2	0
Wichita	3	0	1	0	0	2	0	0	0	0	2	0	0	0	0	1	0
Wilson	51	0	10	23	11	5	1	1	0	0	48	0	0	0	1	2	0
Woodson	15	0	5	6	3	1	0	0	0	0	12	0	0	0	0	3	0
Wyandotte	1,527	4	208	541	404	258	87	23	2	0	419	439	3	24	40	602	0
n.s.	2	0	0	0	0	1	0	1	0	0	1	0	0	0	0	1	0
Peer Group																	
Frontier	410	0	61	169	104	52	18	6	0	0	300	2	2	0	9	97	0
Rural	914	2	137	407	212	115	33	7	1	0	747	10	14	1	17	124	1
Densely -Settled Rural	2,540	3	388	1,030	644	308	138	26	2	1	1,493	78	21	16	74	857	1
Semi-Urban	2,004	5	274	849	500	238	117	21	0	0	1,478	126	12	13	90	283	2
Urban	7,835	12	1,020	2,867	2,113	1,209	506	105	3	0	3,939	1,510	46	125	266	1,946	3

* 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 1997-2016



*Rate per 1,000 Female Age-Group Population
Residence Data

Figure C8

Table C23
Teenage Pregnancy Numbers and Rates*
by Year by Selected Age-Groups
Kansas, 1997-2016

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
1997	6,469	123	2,260	4,086	6,346	33.3	1.3	37.4	15.3	64.7
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

*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, 2016

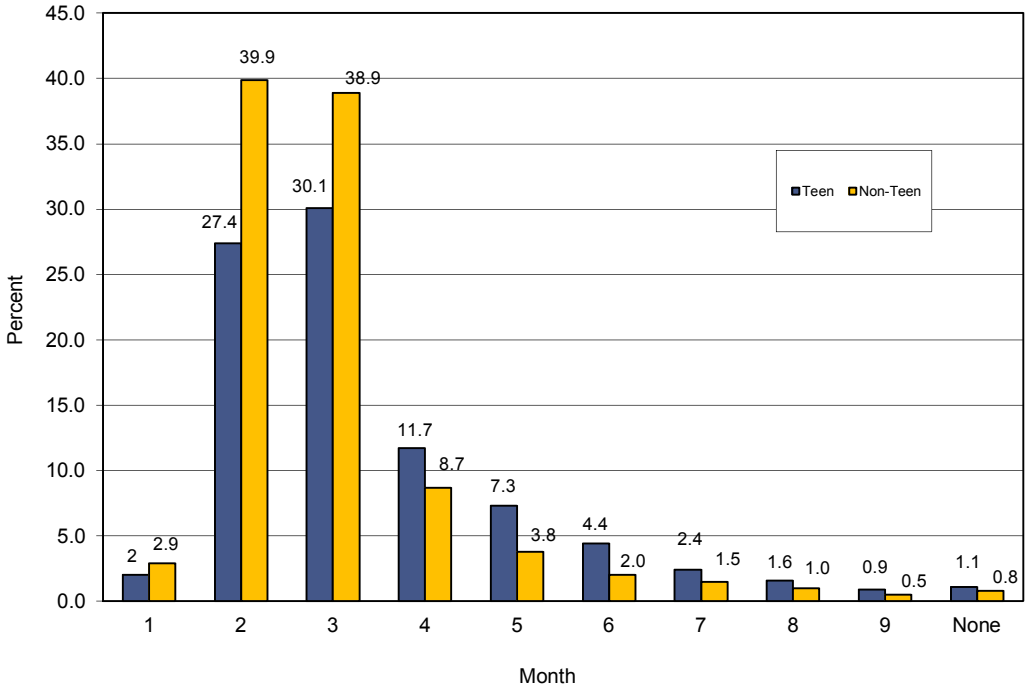


Figure C9

Teenage Live Births by Population Group
Kansas, 2016

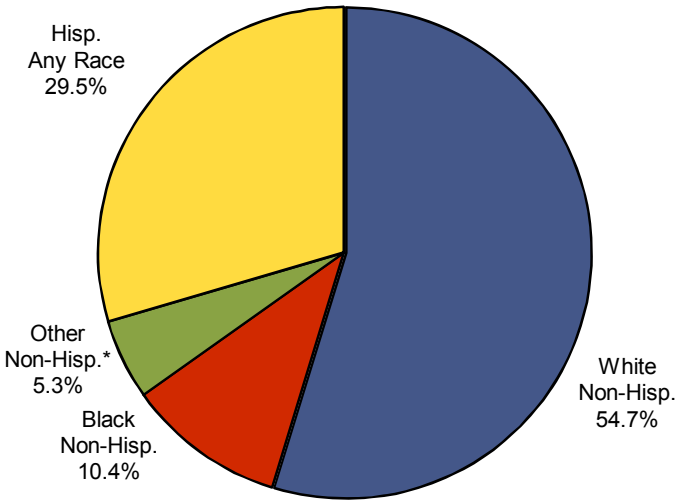


Figure C10

*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, 2012-2016

	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	
Year	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
2012	16	0.2	524	4.7	2,202	30.9	2,218	15.8	11	1.4	117	9.4	403	50.1	414	26.1	12	0.7	310	12.7	953	69.3	965	32.4
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

*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, 2016

County of Residence	Live Births Age-Group 10-14	Live Births Age-Group 15-19	Stillbirths Age-Group 10-14	Stillbirths Age-Group 15-19	Abortions Age-Group 10-14	Abortions Age-Group 15-19	Total Pregnancies Age Group 10-14	Total Pregnancies Age Group 15-19	Total Pregnancies Age Group 10-19	Teenage† Preg. Rates Age-Group 10-19
Kansas	22	2,126	0	17	7	346	29	2,489	2,518	12.9
Allen	1	12	0	0	0	2	1	14	15	17.7
Anderson	0	8	0	0	0	0	0	8	8	15.7
Atchison	0	17	0	0	0	1	0	18	18	14.3
Barber	0	3	0	0	0	0	0	3	3	12.1
Barton	1	24	0	0	0	1	1	25	26	14.9
Bourbon	0	20	0	0	0	2	0	22	22	22.3
Brown	0	6	0	0	0	0	0	6	6	9.7
Butler	0	36	0	0	0	4	0	40	40	7.9
Chase	0	2	0	0	0	0	0	2	2	11.6
Chautauqua	0	3	0	0	1	0	1	3	4	20.6
Cherokee	0	20	0	0	0	1	0	21	21	15.7
Cheyenne	0	4	0	0	0	0	0	4	4	27.2
Clark	0	2	0	0	0	0	0	2	2	12.4
Clay	0	4	0	0	0	1	0	5	5	10.1
Cloud	0	4	0	0	0	0	0	4	4	7.0
Coffey	0	5	0	0	0	0	0	5	5	9.6
Comanche	0	0	0	0	0	0	0	0	0	0.0
Cowley	0	32	0	0	0	7	0	39	39	15.9
Crawford	1	33	0	0	0	2	1	35	36	13.6
Decatur	0	0	0	0	0	1	0	1	1	6.8
Dickinson	0	14	0	0	0	0	0	14	14	11.4
Doniphan	0	5	0	0	0	0	0	5	5	9.4
Douglas	0	33	0	0	0	25	0	58	58	6.9
Edwards	0	2	0	0	0	1	0	3	3	14.6
Elk	0	2	0	0	0	0	0	2	2	14.7
Ellis	0	7	0	0	0	3	0	10	10	5.4
Ellsworth	0	2	0	0	0	0	0	2	2	7.0
Finney	0	58	0	1	0	4	0	63	63	21.6
Ford	0	45	0	0	0	5	0	50	50	20.2
Franklin	0	19	0	0	0	2	0	21	21	12.0
Geary	1	52	0	3	0	10	1	65	66	33.0
Gove	0	2	0	0	0	0	0	2	2	13.3
Graham	0	0	0	0	0	1	0	1	1	7.5
Grant	0	8	0	0	0	2	0	10	10	16.0
Gray	0	2	0	0	0	1	0	3	3	6.1
Greeley	0	1	0	0	0	1	0	2	2	22.5
Greenwood	0	4	0	0	0	0	0	4	4	11.1
Hamilton	0	2	0	0	0	0	0	2	2	10.9
Harper	0	2	0	0	0	1	0	3	3	9.2
Harvey	0	30	0	0	1	5	1	35	36	14.8
Haskell	0	3	0	0	0	1	0	4	4	12.7
Hodgeman	0	1	0	0	0	0	0	1	1	7.8
Jackson	0	8	0	0	0	1	0	9	9	9.8
Jefferson	0	13	0	0	0	0	0	13	13	10.7
Jewell	0	1	0	0	0	0	0	1	1	7.7
Johnson	0	143	0	1	2	63	2	207	209	5.4
Kearny	0	3	0	0	0	0	0	3	3	10.5
Kingman	0	4	0	0	0	0	0	4	4	8.1
Kiowa	0	2	0	0	0	0	0	2	2	10.8
Labette	0	25	0	0	0	0	0	25	25	20.3
Lane	0	1	0	0	0	1	0	2	2	19.0
Leavenworth	0	55	0	0	0	11	0	66	66	13.3
Lincoln	0	1	0	0	0	0	0	1	1	4.9
Linn	0	9	0	0	0	0	0	9	9	14.1
Logan	0	2	0	0	0	0	0	2	2	12.3

Table C25
Teenage Pregnancies by County of Residence and Peer Group*
by Age-Group and Component
Kansas, 2016

County of Residence	Live Births Age-Group 10-14	Live Births Age-Group 15-19	Stillbirths Age-Group 10-14	Stillbirths Age-Group 15-19	Abortions Age-Group 10-14	Abortions Age-Group 15-19	Total Pregnancies Age Group 10-14	Total Pregnancies Age Group 15-19	Total Pregnancies Age Group 10-19	Teenage† Preg. Rates Age-Group 10-19
Lyon	1	32	0	2	1	3	2	37	39	16.0
McPherson	0	16	0	0	0	4	0	20	20	10.6
Marion	0	7	0	0	0	0	0	7	7	8.8
Marshall	0	7	0	0	0	0	0	7	7	11.5
Meade	0	6	0	0	0	0	0	6	6	20.8
Miami	0	19	0	0	0	5	0	24	24	10.3
Mitchell	0	7	0	0	0	1	0	8	8	20.8
Montgomery	0	29	0	0	0	3	0	32	32	15.3
Morris	0	1	0	0	0	2	0	3	3	9.8
Morton	0	3	0	0	0	0	0	3	3	14.7
Nemaha	0	4	0	0	0	0	0	4	4	5.9
Neosho	0	16	0	0	0	1	0	17	17	15.9
Ness	0	5	0	0	0	0	0	5	5	28.2
Norton	0	3	0	0	0	0	0	3	3	10.5
Osage	0	13	0	0	0	0	0	13	13	12.6
Osborne	0	1	0	0	0	0	0	1	1	5.5
Ottawa	0	3	0	0	0	2	0	5	5	14.8
Pawnee	0	3	0	0	0	0	0	3	3	10.4
Phillips	0	3	0	0	0	0	0	3	3	8.6
Pottawatomie	0	15	0	0	0	0	0	15	15	8.5
Pratt	0	9	0	0	0	0	0	9	9	14.8
Rawlins	0	1	0	1	0	0	0	2	2	16.0
Reno	2	45	0	1	0	3	2	49	51	12.4
Republic	1	2	0	0	0	1	1	3	4	15.7
Rice	0	11	0	0	0	2	0	13	13	19.0
Riley	0	33	0	0	0	17	0	50	50	10.1
Rooks	0	1	0	0	0	0	0	1	1	3.1
Rush	0	1	0	0	0	0	0	1	1	6.4
Russell	0	4	0	0	0	0	0	4	4	11.0
Saline	1	43	0	0	0	4	1	47	48	13.9
Scott	0	4	0	0	0	0	0	4	4	11.8
Sedgwick	5	494	0	4	0	75	5	573	578	16.6
Seward	0	41	0	0	0	2	0	43	43	24.0
Shawnee	3	153	0	0	0	16	3	169	172	14.9
Sheridan	0	2	0	0	0	0	0	2	2	12.0
Sherman	0	1	0	0	0	0	0	1	1	2.7
Smith	0	1	0	0	0	0	0	1	1	4.8
Stafford	0	5	0	0	0	0	0	5	5	20.8
Stanton	0	0	0	0	0	0	0	0	0	0.0
Stevens	0	4	0	0	0	0	0	4	4	9.1
Sumner	0	16	0	0	0	2	0	18	18	11.6
Thomas	0	10	0	0	0	1	0	11	11	19.0
Trego	0	3	0	0	0	0	0	3	3	21.0
Wabaunsee	1	3	0	0	0	0	1	3	4	9.1
Wallace	0	0	0	0	0	0	0	0	0	0.0
Washington	0	3	0	0	0	0	0	3	3	8.6
Wichita	0	1	0	0	0	0	0	1	1	6.7
Wilson	0	11	0	0	0	1	0	12	12	21.4
Woodson	0	5	0	0	0	0	0	5	5	24.6
Wyandotte	4	230	0	4	2	40	6	274	280	24.8
n.s.	0	0	0	0	0	1	0	1	1	n/a
Peer Group										
Frontier	0	69	0	1	1	5	1	75	76	11.4
Rural	2	170	0	0	0	20	2	190	192	12.0
Densely -Settled Rural	3	440	0	3	1	35	4	478	482	15.4
Semi-Urban	5	339	0	4	1	55	6	398	404	13.1
Urban	12	1,108	0	9	4	230	16	1,347	1,363	12.4

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

Table C26
Teenage Pregnancies for 10-17 Year Olds
by County of Residence and Peer Group*, by Component
Kansas, 2016

County of Residence	Live Births	Stillbirths	Abortions	Total Pregnancies	Pregnancy Rate†
Kansas	573	1	104	678	4.4
Allen	4	0	1	5	7.7
Anderson	1	0	0	1	2.3
Atchison	3	0	1	4	4.8
Barber	0	0	0	0	0.0
Barton	12	0	0	12	8.6
Bourbon	6	0	0	6	7.5
Brown	1	0	0	1	1.9
Butler	7	0	1	8	1.9
Chase	0	0	0	0	0.0
Chautauqua	0	0	1	1	6.3
Cherokee	4	0	1	5	4.5
Cheyenne	1	0	0	1	8.5
Clark	1	0	0	1	7.4
Clay	1	0	0	1	2.4
Cloud	0	0	0	0	0.0
Coffey	0	0	0	0	0.0
Comanche	0	0	0	0	0.0
Cowley	9	0	3	12	6.4
Crawford	9	0	0	9	4.9
Decatur	0	0	1	1	8.1
Dickinson	2	0	0	2	1.9
Doniphan	0	0	0	0	0.0
Douglas	8	0	6	14	3.0
Edwards	1	0	0	1	5.7
Elk	0	0	0	0	0.0
Ellis	2	0	1	3	2.4
Ellsworth	0	0	0	0	0.0
Finney	11	0	0	11	4.7
Ford	15	0	2	17	8.4
Franklin	3	0	1	4	2.8
Geary	8	0	2	10	5.9
Gove	0	0	0	0	0.0
Graham	0	0	0	0	0.0
Grant	3	0	0	3	5.8
Gray	1	0	0	1	2.4
Greeley	1	0	1	2	27.4
Greenwood	2	0	0	2	6.7
Hamilton	2	0	0	2	13.1
Harper	1	0	0	1	3.7
Harvey	13	0	3	16	8.4
Haskell	1	0	0	1	3.8
Hodgeman	0	0	0	0	0.0
Jackson	1	0	0	1	1.3
Jefferson	2	0	0	2	1.9
Jewell	0	0	0	0	0.0
Johnson	31	0	17	48	1.5
Kearny	0	0	0	0	0.0
Kingman	2	0	0	2	4.8
Kiowa	1	0	0	1	7.6
Labette	4	0	0	4	3.8
Lane	1	0	0	1	11.9
Leavenworth	11	0	5	16	3.8
Lincoln	0	0	0	0	0.0
Linn	3	0	0	3	5.5
Logan	0	0	0	0	0.0

Table C26
Teenage Pregnancies for 10-17 Year Olds
by County of Residence and Peer Group*, by Component
Kansas, 2016

County of Residence	Live Births	Stillbirths	Abortions	Total Pregnancies	Pregnancy Rate†
Lyon	7	0	1	8	4.8
McPherson	0	0	2	2	1.3
Marion	3	0	0	3	4.9
Marshall	0	0	0	0	0.0
Meade	2	0	0	2	8.6
Miami	9	0	3	12	6.1
Mitchell	0	0	0	0	0.0
Montgomery	9	0	0	9	5.5
Morris	0	0	2	2	7.9
Morton	0	0	0	0	0.0
Nemaha	1	0	0	1	1.8
Neosho	5	0	0	5	5.7
Ness	2	0	0	2	13.7
Norton	0	0	0	0	0.0
Osage	3	0	0	3	3.5
Osborne	0	0	0	0	0.0
Ottawa	0	0	0	0	0.0
Pawnee	0	0	0	0	0.0
Phillips	2	0	0	2	6.7
Pottawatomie	6	0	0	6	4.0
Pratt	1	0	0	1	2.2
Rawlins	0	0	0	0	0.0
Reno	7	0	1	8	2.4
Republic	1	0	0	1	4.7
Rice	3	0	0	3	6.0
Riley	6	0	1	7	3.1
Rooks	0	0	0	0	0.0
Rush	0	0	0	0	0.0
Russell	0	0	0	0	0.0
Saline	13	0	0	13	4.6
Scott	1	0	0	1	3.4
Sedgwick	162	0	25	187	6.5
Seward	11	0	1	12	8.3
Shawnee	43	0	7	50	5.3
Sheridan	0	0	0	0	0.0
Sherman	0	0	0	0	0.0
Smith	0	0	0	0	0.0
Stafford	0	0	0	0	0.0
Stanton	0	0	0	0	0.0
Stevens	1	0	0	1	2.7
Sumner	2	0	1	3	2.3
Thomas	2	0	0	2	5.3
Trego	0	0	0	0	0.0
Wabaunsee	1	0	0	1	2.7
Wallace	0	0	0	0	0.0
Washington	1	0	0	1	3.5
Wichita	0	0	0	0	0.0
Wilson	5	0	0	5	10.5
Woodson	1	0	0	1	5.7
Wyandotte	74	1	13	88	9.4
n.s.	0	0	0	0	n/a
Peer Group					
Frontier	14	0	3	17	3.1
Rural	37	0	4	41	3.1
Densely -Settled Rural	109	0	12	121	4.9
Semi-Urban	84	0	12	96	4.2
Urban	329	1	73	403	4.5

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

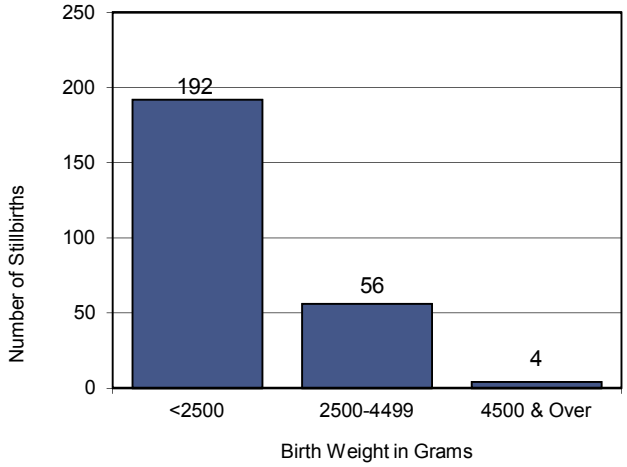
D. FETAL AND INFANT MORTALITY

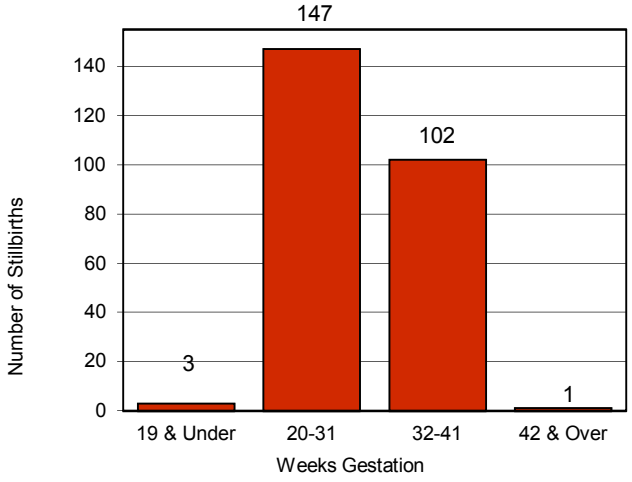
Table D1
Stillbirths by Cause of Death and Weeks Gestation
Kansas, 2016

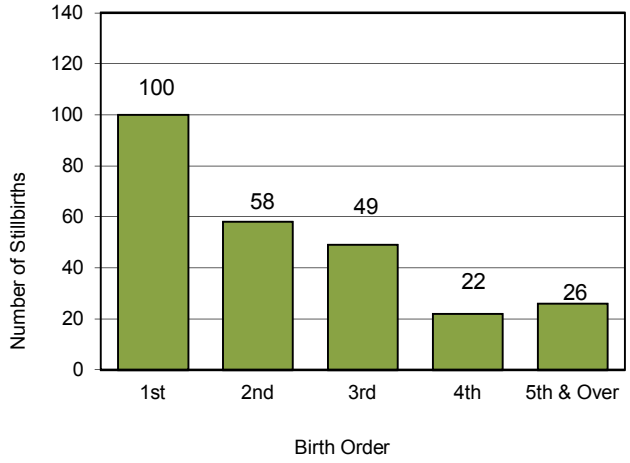
Cause of Death*	Total Stillbirths	Weeks Gestation				
		Under 20	20-31	32-41	42 & Over	n.s.
All Causes	255	3	147	102	1	2
Certain Conditions Originating in the Perinatal Period	209	2	114	90	1	2
-Fetus Affected by Maternal Conditions	28	0	15	12	1	0
-Fetus Affected by Maternal Complications of Pregnancy	21	0	19	2	0	0
-Fetus Affected by Complications of Placenta, Cord & Membrane	69	1	27	40	0	1
-Fetus Affected by Complications of Labor & Delivery	0	0	0	0	0	0
-Disorders Related to Short Gestation & Low Birth Weight	4	0	3	0	0	1
-Hypoxia and Birth Asphyxia	0	0	0	0	0	0
-Cardiovascular Disorders	0	0	0	0	0	0
-Hemorrhagic & Hematologic Disorders of Fetus	2	0	1	1	0	0
-Unspecified Cause	62	1	39	22	0	0
-Other Perinatal Conditions	23	0	10	13	0	0
Congenital Anomalies	27	0	20	7	0	0
All other Causes	19	1	13	5	0	0

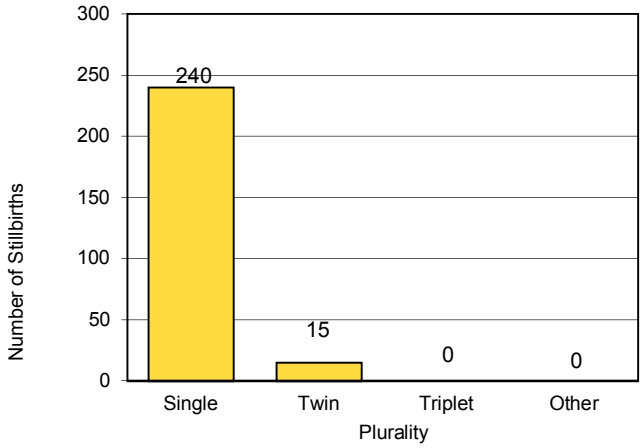
* The ICD-10 codes associated with each category are listed in Appendix 8.

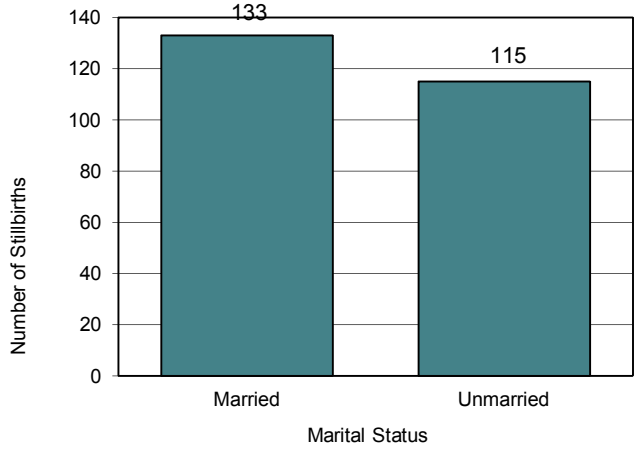
Stillbirths
By Selected Characteristics
Kansas, 2016

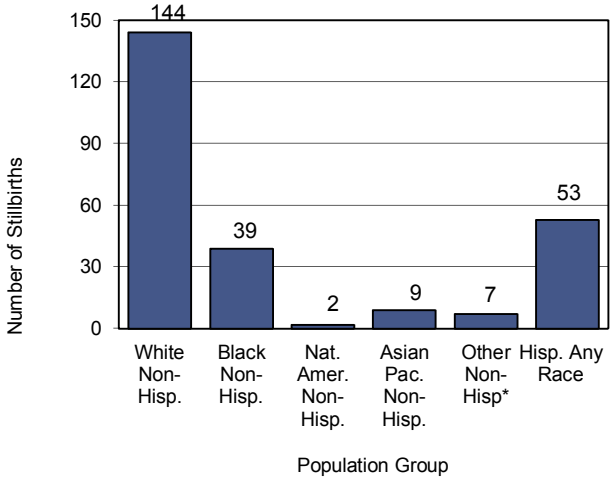












*Includes selection of two or more races and other non-specified race

Figure D1

Table D2
Stillbirths by County of Residence and Peer Group*
by Age-Group of Mother
Kansas, 2016

County of Residence	Total	Age-Group of Mother								
		10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	n.s.
Kansas	255	0	17	60	67	52	43	12	1	3
Allen	0	0	0	0	0	0	0	0	0	0
Anderson	1	0	0	0	0	1	0	0	0	0
Atchison	0	0	0	0	0	0	0	0	0	0
Barber	0	0	0	0	0	0	0	0	0	0
Barton	2	0	0	1	1	0	0	0	0	0
Bourbon	2	0	0	1	1	0	0	0	0	0
Brown	1	0	0	0	0	1	0	0	0	0
Butler	4	0	0	0	2	2	0	0	0	0
Chase	0	0	0	0	0	0	0	0	0	0
Chautauqua	0	0	0	0	0	0	0	0	0	0
Cherokee	2	0	0	0	0	0	1	0	0	1
Cheyenne	0	0	0	0	0	0	0	0	0	0
Clark	0	0	0	0	0	0	0	0	0	0
Clay	1	0	0	0	1	0	0	0	0	0
Cloud	0	0	0	0	0	0	0	0	0	0
Coffey	0	0	0	0	0	0	0	0	0	0
Comanche	1	0	0	0	0	0	1	0	0	0
Cowley	3	0	0	2	0	0	0	1	0	0
Crawford	5	0	0	3	2	0	0	0	0	0
Decatur	0	0	0	0	0	0	0	0	0	0
Dickinson	0	0	0	0	0	0	0	0	0	0
Doniphan	0	0	0	0	0	0	0	0	0	0
Douglas	11	0	0	5	1	4	1	0	0	0
Edwards	1	0	0	0	0	1	0	0	0	0
Elk	0	0	0	0	0	0	0	0	0	0
Ellis	4	0	0	1	0	2	1	0	0	0
Ellsworth	1	0	0	1	0	0	0	0	0	0
Finney	8	0	1	1	2	2	2	0	0	0
Ford	8	0	0	1	3	2	2	0	0	0
Franklin	2	0	0	1	1	0	0	0	0	0
Geary	10	0	3	4	3	0	0	0	0	0
Gove	0	0	0	0	0	0	0	0	0	0
Graham	0	0	0	0	0	0	0	0	0	0
Grant	2	0	0	1	1	0	0	0	0	0
Gray	0	0	0	0	0	0	0	0	0	0
Greeley	0	0	0	0	0	0	0	0	0	0
Greenwood	0	0	0	0	0	0	0	0	0	0
Hamilton	0	0	0	0	0	0	0	0	0	0
Harper	2	0	0	1	1	0	0	0	0	0
Harvey	1	0	0	1	0	0	0	0	0	0
Haskell	0	0	0	0	0	0	0	0	0	0
Hodgeman	0	0	0	0	0	0	0	0	0	0
Jackson	0	0	0	0	0	0	0	0	0	0
Jefferson	1	0	0	0	1	0	0	0	0	0
Jewell	0	0	0	0	0	0	0	0	0	0
Johnson	39	0	1	2	11	13	7	5	0	0
Kearny	0	0	0	0	0	0	0	0	0	0
Kingman	1	0	0	0	1	0	0	0	0	0
Kiowa	0	0	0	0	0	0	0	0	0	0
Labette	2	0	0	0	1	0	1	0	0	0
Lane	0	0	0	0	0	0	0	0	0	0
Leavenworth	7	0	0	1	2	2	1	0	0	1
Lincoln	0	0	0	0	0	0	0	0	0	0
Linn	1	0	0	0	1	0	0	0	0	0
Logan	0	0	0	0	0	0	0	0	0	0

Table D2
Stillbirths by County of Residence and Peer Group*
by Age-Group of Mother
Kansas, 2016

County of Residence	Total	Age-Group of Mother								
		10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	n.s.
Lyon	3	0	2	0	0	0	1	0	0	0
McPherson	7	0	0	1	3	1	0	2	0	0
Marion	0	0	0	0	0	0	0	0	0	0
Marshall	0	0	0	0	0	0	0	0	0	0
Meade	0	0	0	0	0	0	0	0	0	0
Miami	1	0	0	0	0	0	1	0	0	0
Mitchell	1	0	0	0	0	1	0	0	0	0
Montgomery	2	0	0	1	1	0	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	0	0	0	0	0	0	0	0	0	0
Neosho	1	0	0	0	0	1	0	0	0	0
Ness	0	0	0	0	0	0	0	0	0	0
Norton	0	0	0	0	0	0	0	0	0	0
Osage	1	0	0	0	1	0	0	0	0	0
Osborne	0	0	0	0	0	0	0	0	0	0
Ottawa	1	0	0	1	0	0	0	0	0	0
Pawnee	1	0	0	0	0	1	0	0	0	0
Phillips	1	0	0	0	1	0	0	0	0	0
Pottawatomie	3	0	0	1	0	1	0	1	0	0
Pratt	1	0	0	0	0	1	0	0	0	0
Rawlins	2	0	1	0	0	0	1	0	0	0
Reno	5	0	1	1	1	2	0	0	0	0
Republic	0	0	0	0	0	0	0	0	0	0
Rice	1	0	0	0	0	1	0	0	0	0
Riley	6	0	0	1	4	1	0	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	0	0	0	0	0	0	0	0	0	0
Saline	4	0	0	2	1	1	0	0	0	0
Scott	0	0	0	0	0	0	0	0	0	0
Sedgwick	46	0	4	15	9	8	8	1	1	0
Seward	3	0	0	1	1	0	1	0	0	0
Shawnee	13	0	0	4	3	3	3	0	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	0	1	0	0	0	0	0	0
Stanton	0	0	0	0	0	0	0	0	0	0
Stevens	0	0	0	0	0	0	0	0	0	0
Sumner	2	0	0	0	1	0	1	0	0	0
Thomas	0	0	0	0	0	0	0	0	0	0
Trego	0	0	0	0	0	0	0	0	0	0
Wabaunsee	0	0	0	0	0	0	0	0	0	0
Wallace	0	0	0	0	0	0	0	0	0	0
Washington	0	0	0	0	0	0	0	0	0	0
Wichita	0	0	0	0	0	0	0	0	0	0
Wilson	0	0	0	0	0	0	0	0	0	0
Woodson	0	0	0	0	0	0	0	0	0	0
Wyandotte	26	0	4	4	5	0	10	2	0	1
n.s.	0	0	0	0	0	0	0	0	0	0
Peer Group										
Frontier	5	0	1	1	0	1	2	0	0	0
Rural	23	0	0	5	9	7	0	2	0	0
Densely -Settled Rural	45	0	3	9	12	8	10	2	0	1
Semi-Urban	40	0	4	14	15	6	1	0	0	0
Urban	142	0	9	31	31	30	30	8	1	2

* See Technical Notes for Peer Group definition.

Table D3
Total Reported Abortions and Ratios of Abortions to Live Births*
Kansas, 1971-2016

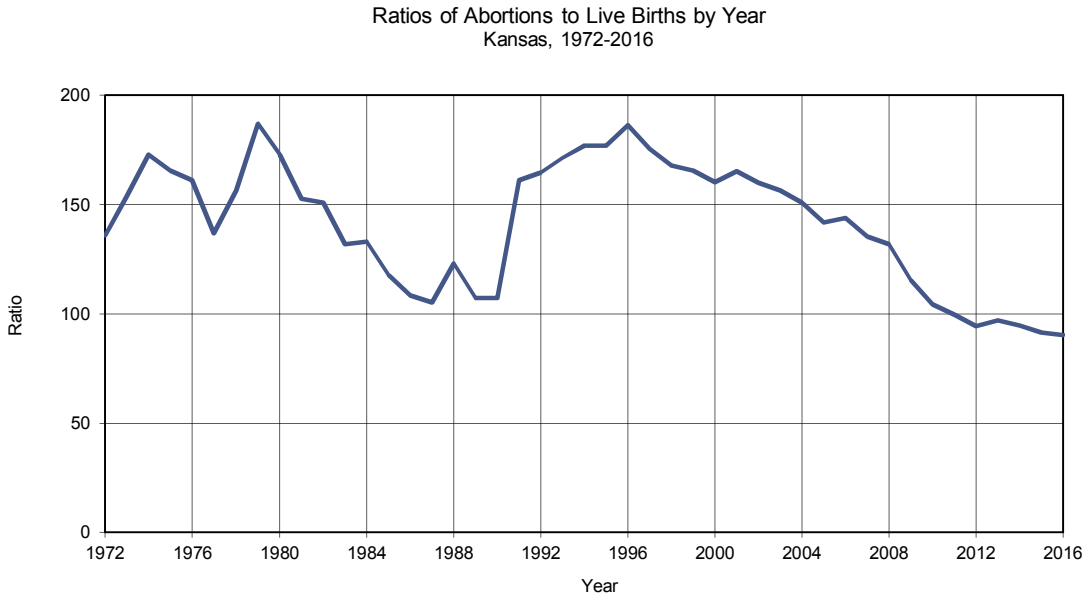
Year	Total*	Out of State Residents	Kansas Residents	Kansas Ratio†	n.s.
1971	9,472	5,763	3,709	103.0	0
1972	12,248	7,736	4,512	136.0	0
1973	12,612	7,695	4,917	153.8	0
1974	10,171	4,503	5,657	172.9	11
1975	9,160	3,565	5,581	165.6	14
1976	9,154	3,455	5,686	161.2	13
1977	7,965	2,918	5,045	137.0	2
1978	9,740	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

* 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 basesd on Kansas residence.

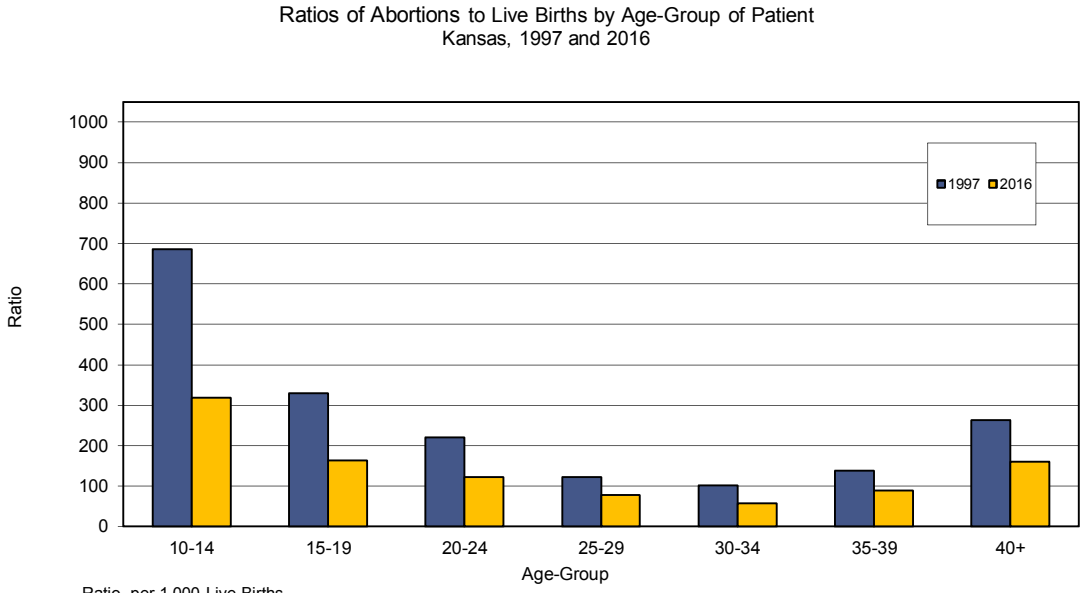
‡ As of July 1, 1995, reporting became mandatory for every medical care facility and every person licensed to practice medicine and surgery.

¶ 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.



Ratio per 1,000 Live Births

Figure D2



Ratio per 1,000 Live Births
Residence Data

Figure D3

Table D4
Total Reported Abortions by Selected Characteristics
by Age-Group of Patient
Kansas, 2016

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	6,820	14	633	2,091	1,891	1,239	703	232	17	0
Residency										
Kansans in State	3,409	7	341	1,055	918	603	366	105	14	0
Kansans out-of-state	30	0	5	9	10	3	1	2	0	0
Non-residents in KS	3,381	7	287	1,027	963	633	336	125	3	0
n.s.	0	0	0	0	0	0	0	0	0	0
Population Group	6,820	14	633	2091	1891	1239	703	232	17	0
White Non-Hispanic	3,790	8	377	1,109	1,014	716	427	129	10	0
Black Non-Hispanic	1,454	2	87	461	465	263	132	43	1	0
Native American Non-Hispanic	66	0	11	21	20	7	6	1	0	0
Asian/Pacific Non-Hispanic	282	0	16	82	67	59	41	15	2	0
Other Non-Hispanic†	345	1	35	123	99	46	28	12	1	0
Hispanic Any Race	883	3	107	295	226	148	69	32	3	0
n.s.	0	0	0	0	0	0	0	0	0	0
Marital Status of Patient	6,820	14	633	2,091	1,891	1,239	703	232	17	0
Married	1,045	0	11	127	294	294	226	85	8	0
Not Married	5,750	14	619	1,950	1,594	943	475	146	9	0
n.s.	25	0	3	14	3	2	2	1	0	0
Weeks Gestation	6,820	14	633	2,091	1,891	1,239	703	232	17	0
Under 9	4,387	6	370	1,305	1,252	821	454	166	13	0
9-12	1,542	4	160	502	407	280	149	37	3	0
13-16	583	3	64	190	157	81	66	22	0	0
17-21	307	1	38	94	75	57	34	7	1	0
22 & Over	1	0	1	0	0	0	0	0	0	0
n.s,	0	0	0	0	0	0	0	0	0	0
Procedure	6,820	14	633	2,091	1,891	1,239	703	232	17	0
Suction Curettage	2,511	3	212	726	688	490	288	98	6	0
Sharp Curettage	10	0	1	4	3	1	1	0	0	0
Dilation & Evac	670	4	78	221	168	98	80	20	1	0
Med Proc. 1‡	3,623	7	340	1,140	1,028	650	334	114	10	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	0	0	0	0	0	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¶	6	0	2	0	4	0	0	0	0	0
n.s.	0	0	0	0	0	0	0	0	0	0
Previous Pregnancies	6,820	14	633	2,091	1,891	1,239	703	232	17	0
None	1,962	14	506	867	396	133	37	9	0	0
1	1,363	0	97	588	378	196	80	21	3	0
2	1,248	0	23	358	421	249	147	46	4	0
3	901	0	6	165	299	234	136	59	2	0
4	605	0	1	73	193	168	126	42	2	0
5 & Over	739	0	0	40	202	259	177	55	6	0
n.s.	2	0	0	0	2	0	0	0	0	0

Table D4
Total Reported Abortions by Selected Characteristics
by Age-Group of Patient
Kansas, 2016

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	6,820	14	633	2,091	1,891	1,239	703	232	17	
None	4,491	14	584	1,571	1,142	672	372	125	11	0
1	1,509	0	46	393	479	333	189	64	5	0
2	529	0	3	93	178	139	90	26	0	0
3	181	0	0	25	56	57	33	10	0	0
4	62	0	0	5	26	18	9	3	1	0
5 & Over	47	0	0	4	9	20	10	4	0	0
n.s.	1	0	0	0	1	0	0	0	0	0
Number of Living Children	6,820	14	633	2,091	1,891	1,239	703	232	17	0
None	2,726	14	551	1,189	618	249	78	25	2	0
1	1,677	0	72	551	534	315	148	52	5	0
2	1,326	0	9	258	433	332	223	67	4	0
3	668	0	1	77	203	192	147	47	1	0
4	265	0	0	13	80	84	63	24	1	0
5 & Over	157	0	0	3	22	67	44	17	4	0
n.s.	1	0	0	0	1	0	0	0	0	0
Children Born Alive Now Dead	6,820	14	633	2,091	1,891	1,239	703	232	17	0
None	6,783	14	632	2,087	1,879	1,230	695	230	16	0
1	33	0	1	4	9	9	7	2	1	0
2	0	0	0	0	0	0	0	0	0	0
3	1	0	0	0	1	0	0	0	0	0
4	1	0	0	0	0	0	1	0	0	0
5 & Over	0	0	0	0	0	0	0	0	0	0
n.s.	2	0	0	0	2	0	0	0	0	0
Spontaneous Terminations	6,820	14	633	2,091	1,891	1,239	703	232	17	0
None	5,630	14	616	1,890	1,536	921	489	153	11	0
1	909	0	15	167	289	231	150	53	4	0
2	199	0	2	26	48	57	44	20	2	0
3	44	0	0	5	11	16	8	4	0	0
4	23	0	0	2	5	9	6	1	0	0
5 & Over	14	0	0	1	1	5	6	1	0	0
n.s.	1	0	0	0	1	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

ℸ Other procedures included: unknown, Laminaria (D&E) and Cytotec Induction

Table D5
Kansas Resident Abortions by Selected Characteristics
by Age-Group of Patient
Kansas, 2016

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	3,439	7	346	1,064	928	606	367	107	14	0
Population Group	3,439	7	346	1,064	928	606	367	107	14	0
White Non-Hispanic	1,896	3	194	550	514	352	220	54	9	0
Black Non-Hispanic	548	1	36	186	160	97	53	15	0	0
Native American Non-Hispanic	0	0	0	0	0	0	0	0	0	0
Asian/Pacific Non-Hispanic	0	0	0	0	0	0	0	0	0	0
Other Non-Hispanic[T]	390	0	37	123	100	66	43	19	2	0
Hispanic Any Race	605	3	79	205	154	91	51	19	3	0
n.s.	0	0	0	0	0	0	0	0	0	0
Marital Status of Patient	3,439	7	346	1,064	928	606	367	107	14	0
Married	594	0	6	76	174	173	122	37	6	0
Not Married	2,826	7	337	977	752	432	244	69	8	0
n.s.	19	0	3	11	2	1	1	1	0	0
Weeks Gestation	3,439	7	346	1,064	928	606	367	107	14	0
Under 9	2,298	3	216	681	652	411	245	80	10	0
9-12	718	1	77	249	168	131	74	15	3	0
13-16	289	2	35	96	77	37	33	9	0	0
17-21	133	1	17	38	31	27	15	3	1	0
22 & Over	1	0	1	0	0	0	0	0	0	0
n.s.	0	0	0	0	0	0	0	0	0	0
Procedure	3,439	7	346	1,064	928	606	367	107	14	0
Suction Curettage	1,348	0	120	391	364	256	162	49	6	0
Sharp Curettage	10	0	1	4	3	1	1	0	0	0
Dilation & Evac	302	3	40	98	71	44	36	9	1	0
Med Proc. 1[+]	1,773	4	183	571	486	305	168	49	7	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	0	0	0	0	0	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[¶]	6	0	2	4	0	0	0	0	0	0
n.s.	0	0	0	0	0	0	0	0	0	0
Previous Pregnancies	3,439	7	346	1,064	928	606	367	107	14	0
None	1,012	7	275	434	217	56	20	3	0	0
1	694	0	52	304	188	101	37	10	2	0
2	627	0	13	175	206	134	76	19	4	0
3	446	0	6	92	137	105	74	31	1	0
4	301	0	0	35	89	89	64	22	2	0
5 & Over	357	0	0	24	89	121	96	22	5	0
n.s.	2	0	0	0	2	0	0	0	0	0
Previous Induced Abortions	3,439	7	346	1,064	928	606	367	107	14	0
None	2,353	7	318	799	596	349	209	66	9	0
1	723	0	27	202	215	156	94	25	4	0
2	240	0	1	48	79	62	40	10	0	0
3	78	0	0	10	22	28	13	5	0	0
4	25	0	0	2	13	3	5	1	1	0
5 & Over	19	0	0	3	2	8	6	0	0	0
n.s.	1	0	0	0	1	0	0	0	0	0

Table D5
Kansas Resident Abortions by Selected Characteristics
by Age-Group of Patient
Kansas, 2016

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	3,439	7	346	1,064	928	606	367	107	14	0
None	1,398	7	299	603	322	118	40	7	2	0
1	801	0	38	274	247	148	66	24	4	0
2	669	0	8	133	210	158	123	33	4	0
3	351	0	1	48	102	100	75	25	0	0
4	135	0	0	4	36	47	36	12	0	0
5 & Over	84	0	0	2	10	35	27	6	4	0
n.s.	1	0	0	0	1	0	0	0	0	0
Children Born Alive Now Dead	3,439	7	346	1,064	928	606	367	107	14	0
None	3,415	7	345	1,063	920	600	360	107	13	0
1	20	0	1	1	5	6	6	0	1	0
2	0	0	0	0	0	0	0	0	0	0
3	1	0	0	0	1	0	0	0	0	0
4	1	0	0	0	0	0	1	0	0	0
5 & Over	0	0	0	0	0	0	0	0	0	0
n.s.	2	0	0	0	2	0	0	0	0	0
Spontaneous Terminations	3,439	7	346	1,064	928	606	367	107	14	0
None	2,839	7	338	953	760	450	251	71	9	0
1	456	0	7	92	136	116	79	23	3	0
2	100	0	1	13	24	26	24	10	2	0
3	18	0	0	4	5	3	5	1	0	0
4	17	0	0	1	2	9	4	1	0	0
5 & Over	8	0	0	1	0	2	4	1	0	0
n.s.	1	0	0	0	1	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.

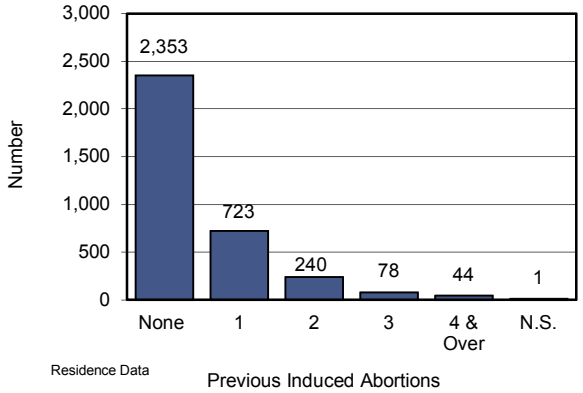
[T] Includes selection of two or more races or other non-specified race

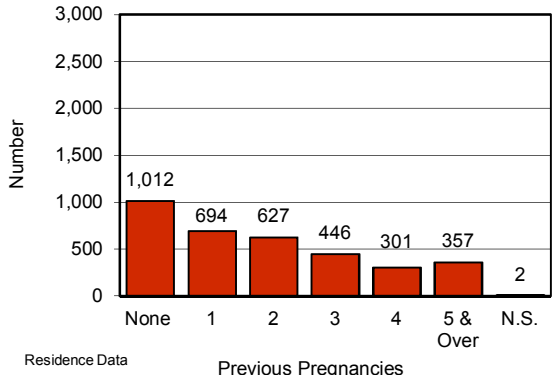
[‡] Refers to drug mifepristone

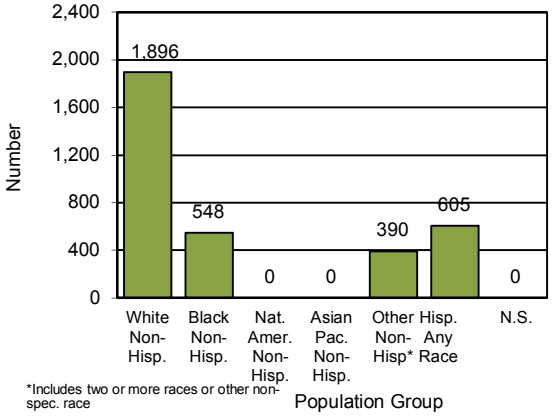
[§] Refers to drug methotrexate

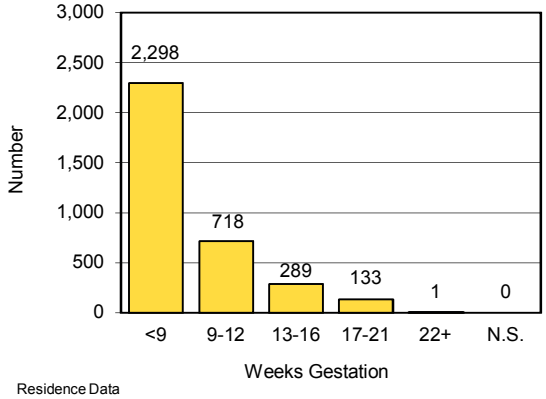
¶ Other procedures included: unknown, Laminaria (D&E) and Cytotec Induction

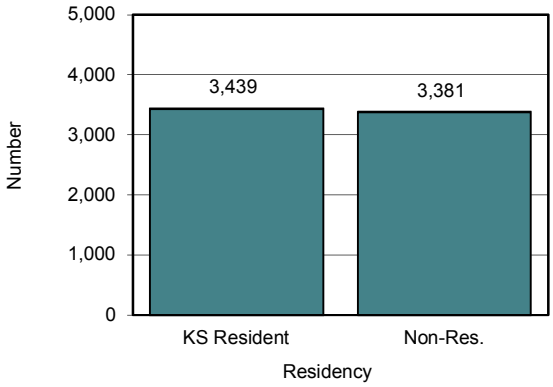
Reported Abortions
By Selected Characteristics,
Kansas, 2016











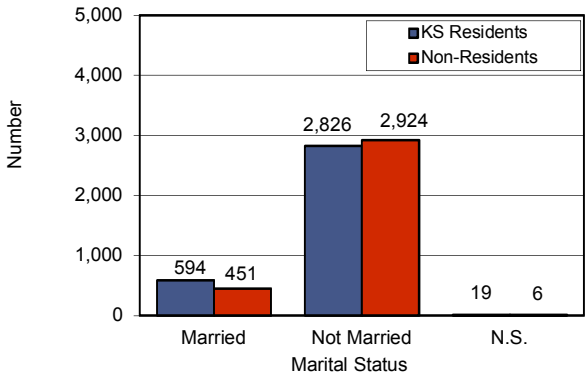


Figure D4

Table D6
Total Reported Abortions by Population Group
by Marital Status
Kansas, 2016

Population Group	Total		Marital Status				
			Married		Unmarried		n.s.†
	Number	Percent	Number	Percent	Number	Percent	
Total	6,820	100	1,045	15.3	5,750	84.3	0
White Non-Hispanic	3,790	100	643	17.0	3,138	82.8	0
Black Non-Hispanic	1,454	100	101	6.9	1,346	92.6	0
Native American Non-Hispanic	66	100	6	9.1	58	87.9	0
Asian/Pacific Non-Hispanic	282	100	120	42.6	161	57.1	0
Other Non-Hispanic*	345	100	37	10.7	307	89.0	0
Hispanic Any Race	883	100	138	15.6	740	83.8	0
n.s†	0	n/a‡	0	n/a	0	n/a	0

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

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

‡n/a not applicable

Table D7
Total Reported Abortions by Population Group
by Weeks Gestation
Kansas, 2016

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	6,820	100	4,387	64.3	1,542	22.6	583	8.5	307	4.5	1	0.0	0
White Non-Hispanic	3,790	100	2,530	66.8	810	21.4	290	7.7	160	4.2	0	0.0	0
Black Non-Hispanic	1,454	100	829	57.0	402	27.6	147	10.1	76	5.2	0	0.0	0
Native American Non-Hispanic	66	100	35	53.0	16	24.2	10	15.2	5	7.6	0	0.0	0
Asian/Pacific Non-Hispanic	282	100	204	72.3	49	17.4	23	8.2	6	2.1	0	0.0	0
Other Non-Hispanic*	345	100	206	59.7	88	25.5	37	10.7	14	4.1	0	0.0	0
Hispanic Any Race	883	100	583	66.0	177	20.0	76	8.6	46	5.2	1	0.1	0
n/a‡	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0

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

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

Total Reported Abortions: Percent
Distribution by Weeks Gestation
Kansas, 2016

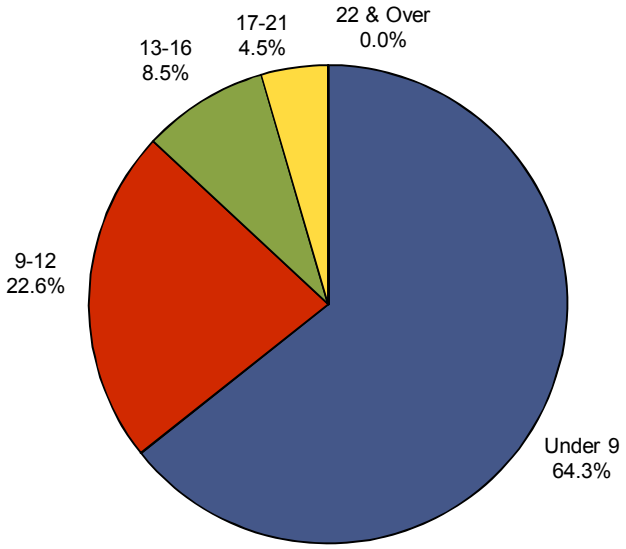


Figure D5

Table D8
Total Reported Abortions by Termination Procedure
by Weeks Gestation
Kansas, 2016

Termination Procedure	Total	Weeks Gestation					
		Under 9	9-12	13-16	17-21	22 & Over	n.s.*
Total	6,820	4,387	1,542	583	307	1	0
Suction Curettage	2,511	1,226	1,068	215	2	0	0
Sharp Curettage	10	6	4	0	0	0	0
Dilation & Evacuation	670	0	2	367	301	0	0
Medical Procedure I†	3,623	3,154	468	1	0	0	0
Medical Procedure II‡	0	0	0	0	0	0	0
Intra-Uterine	0	0	0	0	0	0	0
Prostaglandin Instillation	0	0	0	0	0	0	0
Hysterotomy	0	0	0	0	0	0	0
Hysterectomy	0	0	0	0	0	0	0
Digoxin/Induction	0	0	0	0	0	0	0
"Partial Birth" Procedure	0	0	0	0	0	0	0
Other¶	6	1	0	0	4	1	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, Laminaria (D&E) and Cytotec Induction

Table D9
Abortions by County of Residence and Peer Group*
by Age-Group of Patient,
Kansas, 2016

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	3,439	7	346	1,064	928	606	367	107	14	0
Allen	5	0	2	1	0	1	1	0	0	0
Anderson	2	0	0	1	0	0	0	1	0	0
Atchison	9	0	1	3	1	1	3	0	0	0
Barber	6	0	0	2	1	3	0	0	0	0
Barton	23	0	1	6	9	4	1	2	0	0
Bourbon	6	0	2	1	1	0	2	0	0	0
Brown	6	0	0	3	2	1	0	0	0	0
Butler	38	0	4	11	11	4	5	3	0	0
Chase	1	0	0	0	0	1	0	0	0	0
Chautauqua	1	1	0	0	0	0	0	0	0	0
Cherokee	6	0	1	3	2	0	0	0	0	0
Cheyenne	2	0	0	1	0	1	0	0	0	0
Clark	0	0	0	0	0	0	0	0	0	0
Clay	5	0	1	1	0	2	1	0	0	0
Cloud	6	0	0	3	1	2	0	0	0	0
Coffey	9	0	0	4	3	0	1	1	0	0
Comanche	1	0	0	0	0	1	0	0	0	0
Cowley	22	0	7	6	3	3	3	0	0	0
Crawford	31	0	2	11	11	3	3	1	0	0
Decatur	1	0	1	0	0	0	0	0	0	0
Dickinson	7	0	0	1	3	2	1	0	0	0
Doniphan	1	0	0	0	1	0	0	0	0	0
Douglas	231	0	25	75	66	40	19	5	1	0
Edwards	1	0	1	0	0	0	0	0	0	0
Elk	3	0	0	0	2	1	0	0	0	0
Ellis	22	0	3	11	5	1	1	1	0	0
Ellsworth	2	0	0	0	1	1	0	0	0	0
Finney	29	0	4	9	5	3	3	5	0	0
Ford	40	0	5	14	11	4	5	1	0	0
Franklin	27	0	2	5	10	3	5	2	0	0
Geary	94	0	10	41	29	12	1	1	0	0
Gove	0	0	0	0	0	0	0	0	0	0
Graham	1	0	1	0	0	0	0	0	0	0
Grant	4	0	2	2	0	0	0	0	0	0
Gray	3	0	1	0	0	1	1	0	0	0
Greeley	2	0	1	0	1	0	0	0	0	0
Greenwood	2	0	0	2	0	0	0	0	0	0
Hamilton	1	0	0	0	0	0	0	1	0	0
Harper	8	0	1	0	3	2	2	0	0	0
Harvey	23	1	5	5	6	3	2	1	0	0
Haskell	3	0	1	1	0	0	1	0	0	0
Hodgeman	0	0	0	0	0	0	0	0	0	0
Jackson	5	0	1	1	0	3	0	0	0	0
Jefferson	20	0	0	6	5	8	0	1	0	0
Jewell	0	0	0	0	0	0	0	0	0	0
Johnson	846	2	63	214	243	176	109	31	8	0
Kearny	2	0	0	2	0	0	0	0	0	0
Kingman	2	0	0	0	2	0	0	0	0	0
Kiowa	0	0	0	0	0	0	0	0	0	0
Labette	9	0	0	3	3	2	0	1	0	0
Lane	1	0	1	0	0	0	0	0	0	0
Leavenworth	78	0	11	25	17	12	11	2	0	0
Lincoln	1	0	0	0	1	0	0	0	0	0
Linn	4	0	0	0	1	2	1	0	0	0
Logan	0	0	0	0	0	0	0	0	0	0

Table D9
Abortions by County of Residence and Peer Group*
by Age-Group of Patient,
Kansas, 2016

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	33	1	3	15	6	4	2	1	1	0
Mcpherson	16	0	4	3	2	3	4	0	0	0
Marion	4	0	0	2	2	0	0	0	0	0
Marshall	2	0	0	1	0	1	0	0	0	0
Meade	2	0	0	0	1	1	0	0	0	0
Miami	34	0	5	6	8	11	4	0	0	0
Mitchell	1	0	1	0	0	0	0	0	0	0
Montgomery	17	0	3	8	3	1	2	0	0	0
Morris	3	0	2	0	1	0	0	0	0	0
Morton	0	0	0	0	0	0	0	0	0	0
Nemaha	2	0	0	1	0	0	1	0	0	0
Neosho	11	0	1	3	4	2	1	0	0	0
Ness	3	0	0	1	0	0	2	0	0	0
Norton	1	0	0	0	1	0	0	0	0	0
Osage	4	0	0	1	1	2	0	0	0	0
Osborne	3	0	0	0	1	1	0	1	0	0
Ottawa	3	0	2	1	0	0	0	0	0	0
Pawnee	0	0	0	0	0	0	0	0	0	0
Phillips	1	0	0	1	0	0	0	0	0	0
Pottawatomie	16	0	0	4	7	2	3	0	0	0
Pratt	7	0	0	2	1	2	2	0	0	0
Rawlins	0	0	0	0	0	0	0	0	0	0
Reno	47	0	3	14	11	10	7	2	0	0
Republic	2	0	1	1	0	0	0	0	0	0
Rice	10	0	2	1	4	1	2	0	0	0
Riley	112	0	17	57	20	10	6	2	0	0
Rooks	0	0	0	0	0	0	0	0	0	0
Rush	2	0	0	0	1	1	0	0	0	0
Russell	2	0	0	0	1	0	1	0	0	0
Saline	30	0	4	11	7	6	1	1	0	0
Scott	1	0	0	0	0	1	0	0	0	0
Sedgwick	770	0	75	253	205	132	85	19	1	0
Seward	15	0	2	8	2	2	0	1	0	0
Shawnee	186	0	16	56	50	38	17	7	2	0
Sheridan	0	0	0	0	0	0	0	0	0	0
Sherman	0	0	0	0	0	0	0	0	0	0
Smith	4	0	0	4	0	0	0	0	0	0
Stafford	2	0	0	2	0	0	0	0	0	0
Stanton	1	0	0	1	0	0	0	0	0	0
Stevens	0	0	0	0	0	0	0	0	0	0
Sumner	15	0	2	4	4	4	1	0	0	0
Thomas	3	0	1	1	0	1	0	0	0	0
Trego	0	0	0	0	0	0	0	0	0	0
Wabaunsee	2	0	0	1	0	0	1	0	0	0
Wallace	0	0	0	0	0	0	0	0	0	0
Washington	2	0	0	0	2	0	0	0	0	0
Wichita	2	0	0	0	1	1	0	0	0	0
Wilson	9	0	1	2	2	1	1	2	0	0
Woodson	2	0	0	0	1	1	0	0	0	0
Wyandotte	400	2	40	125	117	62	42	11	1	0
n.s.†	5	0	1	0	2	2	0	0	0	0
Peer Group										
Frontier	45	1	5	15	9	11	2	2	0	0
Rural	125	0	20	31	30	21	19	4	0	0
Densely -Settled Rur	300	1	35	101	73	49	27	13	1	0
Semi-Urban	453	1	55	169	116	63	36	13	0	0
Urban	2,511	4	230	748	698	460	283	75	13	0

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

Table D10
Perinatal Period III Deaths by Component
Kansas, 1997-2016

Year	Stillbirths	Hebdomadal Deaths	Perinatal Period III Deaths	
			Number	Rate*
1997	202	147	349	9.3
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	201	138	339	8.6
2015	237	132	369	9.4
2016	255	119	374	9.8

*Rate per 1,000 live births + stillbirths

Table D11
Perinatal Period III Deaths by County of Residence
by Component
Kansas, 2016

County of Residence	Perinatal Period III Deaths			County of Residence	Perinatal Period III Deaths		
	Total	Stillbirths	Hebdomadal Deaths		Total	Stillbirths	Hebdomadal Deaths
Kansas	374	255	119				
Allen	0	0	0	Lyon	3	3	0
Anderson	1	1	0	McPherson	8	7	1
Atchison	1	0	1	Marion	0	0	0
Barber	0	0	0	Marshall	1	0	1
Barton	2	2	0	Meade	1	0	1
Bourbon	3	2	1	Miami	2	1	1
Brown	2	1	1	Mitchell	1	1	0
Butler	4	4	0	Montgomery	4	2	2
Chase	0	0	0	Morris	0	0	0
Chautauqua	0	0	0	Morton	0	0	0
Cherokee	2	2	0	Nemaha	0	0	0
Cheyenne	0	0	0	Neosho	1	1	0
Clark	0	0	0	Ness	0	0	0
Clay	3	1	2	Norton	1	0	1
Cloud	0	0	0	Osage	2	1	1
Coffey	0	0	0	Osborne	0	0	0
Comanche	1	1	0	Ottawa	1	1	0
Cowley	3	3	0	Pawnee	1	1	0
Crawford	8	5	3	Phillips	1	1	0
Decatur	0	0	0	Pottawatomie	3	3	0
Dickinson	1	0	1	Pratt	1	1	0
Doniphan	0	0	0	Rawlins	2	2	0
Douglas	14	11	3	Reno	7	5	2
Edwards	1	1	0	Republic	0	0	0
Elk	0	0	0	Rice	1	1	0
Ellis	7	4	3	Riley	7	6	1
Ellsworth	1	1	0	Rooks	0	0	0
Finney	10	8	2	Rush	1	0	1
Ford	10	8	2	Russell	0	0	0
Franklin	4	2	2	Saline	6	4	2
Geary	11	10	1	Scott	0	0	0
Gove	1	0	1	Sedgwick	81	46	35
Graham	0	0	0	Seward	4	3	1
Grant	2	2	0	Shawnee	25	13	12
Gray	0	0	0	Sheridan	0	0	0
Greeley	0	0	0	Sherman	0	0	0
Greenwood	0	0	0	Smith	0	0	0
Hamilton	1	0	1	Stafford	1	1	0
Harper	2	2	0	Stanton	0	0	0
Harvey	2	1	1	Stevens	0	0	0
Haskell	0	0	0	Sumner	2	2	0
Hodgeman	1	0	1	Thomas	1	0	1
Jackson	1	0	1	Trego	0	0	0
Jefferson	1	1	0	Wabaunsee	0	0	0
Jewell	1	0	1	Wallace	0	0	0
Johnson	54	39	15	Washington	0	0	0
Kearny	0	0	0	Wichita	0	0	0
Kingman	1	1	0	Wilson	0	0	0
Kiowa	0	0	0	Woodson	0	0	0
Labette	3	2	1	Wyandotte	36	26	10
Lane	0	0	0				
Leavenworth	9	7	2				
Lincoln	0	0	0				
Linn	1	1	0				
Logan	0	0	0				

Table D12
Infant Mortality Rates*
by Population Group
Kansas, 1997-2016

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	
1997	29,659	189	6.4	2,766	46	16.6	3,525	29	8.2	7.4
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

*Rate per 1,000 live births
†Due to changes in the collection of the race item on certificates, use caution when comparing 2005-2016 data to prior years. See Technical Notes.
‡Other non-Hispanic data is not given a separate column in this table due to the small numbers but is included in the total, and is available upon request.

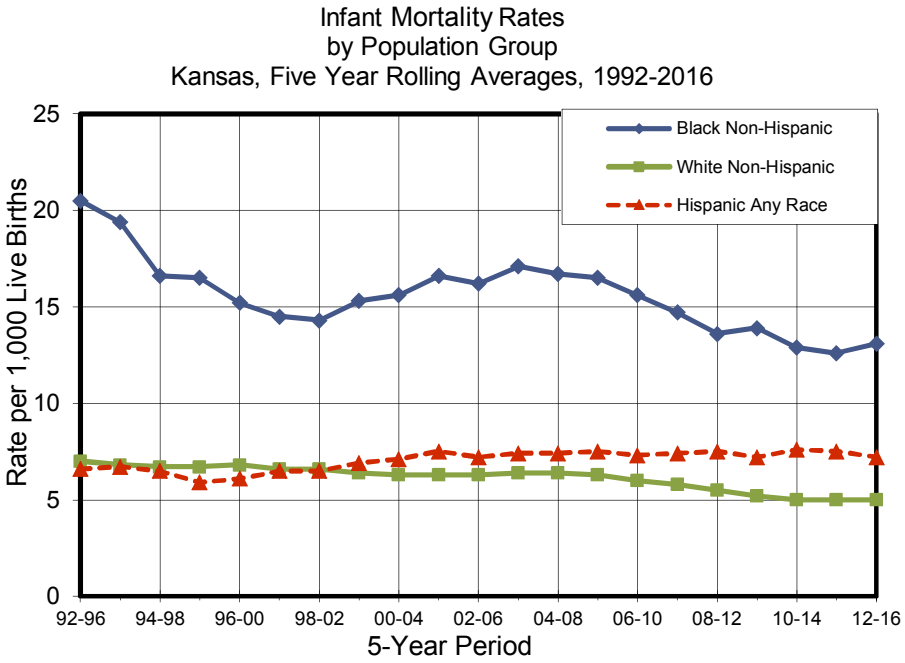


Figure D6

Table D13
Infant Deaths by Cause of Death by Age-Group of Infant
Kansas, 2016

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	84	35	119	26	145	78	223
Infectious and Parasitic Diseases	0	0	0	0	0	3	3
Other Diseases and Disorders	1	0	1	1	2	9	11
Certain Conditions Originating in the Perinatal Period	62	23	85	17	102	1	103
-Maternal Factors and Compl. Of Pregnancy, Labor and Delivery	19	2	21	0	21	0	21
-Disorders Relating to Short Gestation and Low Birth Weight	27	1	28	0	28	0	28
-Birth Trauma	0	0	0	0	0	0	0
-Hypoxia and Birth Asphyxia	4	2	6	1	7	0	7
-Respiratory Distress of Newborn	4	2	6	0	6	0	6
-Congenital Pneumonia	0	0	0	0	0	0	0
-Other Respiratory Conditions of Newborn	4	5	9	3	12	0	12
-Bacterial Sepsis of Newborn	1	3	4	4	8	0	8
-Omphalitis of Newborn w/wo Mild Hemorrhage	0	0	0	0	0	0	0
-Hemorrhagic and Hematolog. Disorders of Fetus and Newborn	0	5	5	2	7	0	7
-Other Perinatal Conditions	3	3	6	7	13	1	14
Congenital Anomalies	20	9	29	7	36	13	49
Symptoms and Abnormal Findings	0	3	3	0	3	36	39
-Sudden Infant Death Syndrome	0	0	0	0	0	27	27
-Other	0	3	3	0	3	9	12
External Causes of Mortality	1	0	1	1	2	16	18

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

† Hebdomadal Deaths

§ Neonatal Deaths

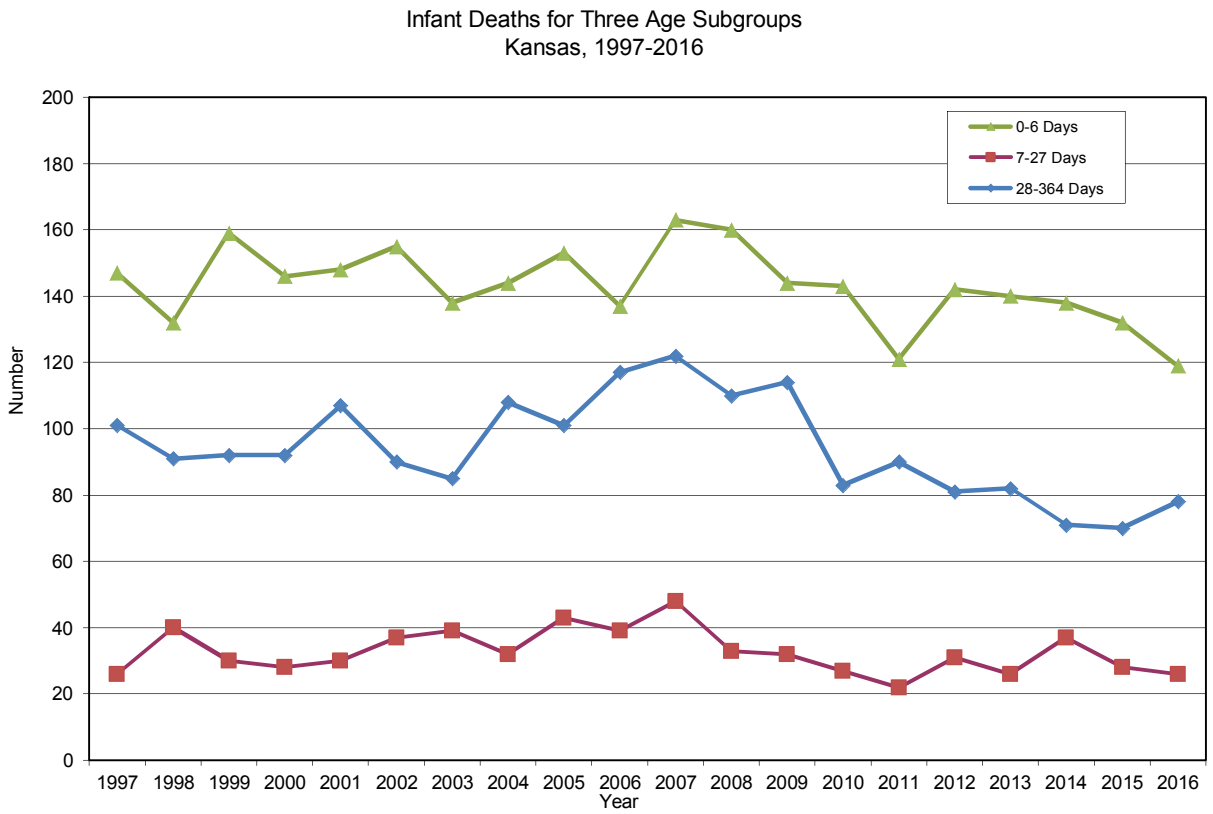


Figure D7

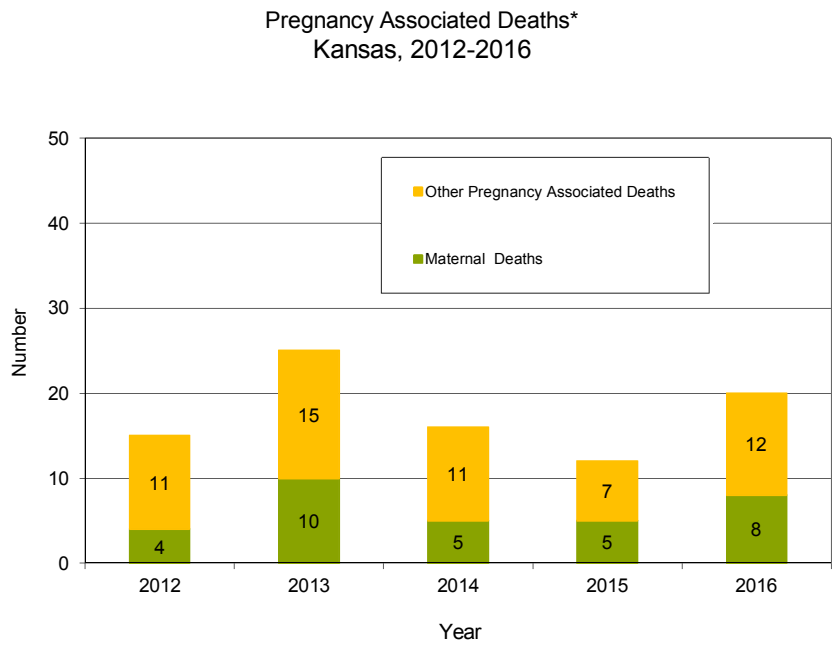


Figure D8

*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, 2012-2016

County of Residence	Year 2012	2013	2014	2015	2016	Total Infant Deaths 2012-2016	Infant Death Rate[T] 2012-2016
Kansas	254	248	246	230	223	1,201	6.1
Allen	1	0	1	1	0	3	4.1
Anderson	0	2	1	1	0	4	8.4
Atchison	2	1	0	2	1	6	5.9
Barber	0	0	0	0	0	0	0.0
Barton	2	1	3	3	0	9	5.0
Bourbon	2	0	0	2	1	5	4.7
Brown	1	1	1	0	1	4	6.3
Butler	3	6	9	8	3	29	7.6
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	1	0	0	0	0	1	6.2
Clark	0	0	1	0	0	1	8.5
Clay	1	1	0	3	2	7	13.4
Cloud	1	0	0	0	1	2	3.6
Coffey	0	0	0	0	0	0	0.0
Comanche	0	0	0	1	1	2	19.6
Cowley	1	4	2	2	0	9	4.1
Crawford	3	3	1	1	4	12	4.8
Decatur	1	0	0	0	0	1	5.8
Dickinson	4	2	2	1	2	11	9.9
Doniphan	0	0	0	1	0	1	2.5
Douglas	6	5	7	6	8	32	5.2
Edwards	2	0	0	0	0	2	11.8
Elk	0	1	0	0	2	3	21.0
Ellis	2	1	3	4	3	13	7.1
Ellsworth	1	0	0	0	0	1	3.3
Finney	7	6	3	7	2	25	7.3
Ford	7	5	4	9	3	28	8.5
Franklin	3	1	5	2	2	13	8.2
Geary	4	6	7	8	3	28	5.4
Gove	1	0	0	0	1	2	11.2
Graham	1	0	1	0	0	2	16.9
Grant	2	0	0	1	0	3	4.9
Gray	0	2	0	1	0	3	6.8
Greeley	0	0	0	0	0	0	0.0
Greenwood	1	1	0	1	0	3	9.3
Hamilton	0	0	0	0	1	1	5.2
Harper	0	2	3	0	0	5	13.2
Harvey	3	4	3	3	4	17	8.0
Haskell	1	0	0	0	1	2	7.4
Hodgeman	0	0	0	1	1	2	18.0
Jackson	2	0	1	3	3	9	10.7
Jefferson	2	2	1	3	0	8	8.4
Jewell	0	0	0	0	1	1	6.3
Johnson	31	34	34	35	26	160	4.3
Kearny	0	0	0	1	0	1	3.3
Kingman	0	0	0	0	0	0	0.0
Kiowa	0	0	0	0	0	0	0.0
Labette	2	2	2	2	4	12	8.7
Lane	0	0	0	0	0	0	0.0
Leavenworth	2	5	5	5	6	23	4.7
Lincoln	0	0	0	1	0	1	6.4
Linn	2	0	1	2	1	6	11.9
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, 2012-2016

Lyon	5	3	3	2	2	15	7.2
McPherson	2	1	2	2	1	8	4.8
Marion	0	0	0	1	1	2	3.5
Marshall	0	0	1	0	1	2	3.2
Meade	0	0	0	0	1	1	3.4
Miami	2	0	4	0	2	8	4.5
Mitchell	0	0	1	0	0	1	2.5
Montgomery	4	0	3	4	4	15	6.8
Morris	0	0	2	0	0	2	6.4
Morton	0	0	0	0	0	0	0.0
Nemaha	3	2	2	1	1	9	12.4
Neosho	3	1	3	0	0	7	6.6
Ness	1	1	0	0	0	2	11.0
Norton	1	2	0	0	1	4	13.9
Osage	1	2	2	1	2	8	9.7
Osborne	1	1	1	0	0	3	13.5
Ottawa	0	0	0	0	0	0	0.0
Pawnee	2	0	0	2	0	4	12.3
Phillips	1	1	1	0	0	3	9.1
Pottawatomie	1	2	2	1	1	7	3.8
Pratt	0	1	4	0	0	5	7.3
Rawlins	0	0	0	0	0	0	0.0
Reno	3	14	6	4	4	31	8.6
Republic	0	1	1	0	1	3	12.4
Rice	0	0	4	0	0	4	6.5
Riley	9	7	7	3	5	31	5.9
Rooks	0	0	1	0	0	1	3.3
Rush	0	0	0	0	1	1	6.3
Russell	0	0	1	0	0	1	2.4
Saline	3	7	1	1	4	16	4.3
Scott	1	0	0	0	0	1	3.2
Sedgwick	61	62	43	41	60	267	7.2
Seward	4	3	5	3	2	17	7.7
Shawnee	10	15	12	18	21	76	6.6
Sheridan	1	1	0	0	0	2	14.1
Sherman	1	0	1	0	0	2	5.0
Smith	1	0	0	0	0	1	5.4
Stafford	0	0	0	0	0	0	0.0
Stanton	0	0	0	0	0	0	0.0
Stevens	1	0	0	0	0	1	2.5
Sumner	2	2	2	2	0	8	5.9
Thomas	0	0	2	1	2	5	8.6
Trego	0	0	1	0	0	1	6.0
Wabaunsee	0	0	0	0	0	0	0.0
Wallace	0	0	1	0	0	1	9.8
Washington	0	1	0	1	1	3	8.2
Wichita	1	0	0	0	0	1	8.0
Wilson	0	2	1	0	0	3	5.4
Woodson	0	0	0	0	0	0	0.0
Wyandotte	24	18	25	21	17	105	7.7
Peer Group							
Frontier	13	5	7	5	9	39	5.9
Rural	18	18	26	14	14	90	6.3
Densely -Settled Rural	52	38	41	51	27	209	6.5
Semi-Urban	37	48	46	34	35	200	6.3
Urban	134	139	126	126	138	663	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, 2016

County of Residence	Hebdomadal Deaths Under 7 Days	Post-Hebdomadal Deaths 7-27 Days	Neonatal Deaths Under 28 Days	Post-Neonatal Deaths 28-364 Days	Total Infant Deaths Under 1 Year
Kansas	119	26	145	78	223
Allen	0	0	0	0	0
Anderson	0	0	0	0	0
Atchison	1	0	1	0	1
Barber	0	0	0	0	0
Barton	0	0	0	0	0
Bourbon	1	0	1	0	1
Brown	1	0	1	0	1
Butler	0	2	2	1	3
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	2	0	2	0	2
Cloud	0	0	0	1	1
Coffey	0	0	0	0	0
Comanche	0	0	0	1	1
Cowley	0	0	0	0	0
Crawford	3	0	3	1	4
Decatur	0	0	0	0	0
Dickinson	1	0	1	1	2
Doniphan	0	0	0	0	0
Douglas	3	0	3	5	8
Edwards	0	0	0	0	0
Elk	0	0	0	2	2
Ellis	3	0	3	0	3
Ellsworth	0	0	0	0	0
Finney	2	0	2	0	2
Ford	2	0	2	1	3
Franklin	2	0	2	0	2
Geary	1	1	2	1	3
Gove	1	0	1	0	1
Graham	0	0	0	0	0
Grant	0	0	0	0	0
Gray	0	0	0	0	0
Greeley	0	0	0	0	0
Greenwood	0	0	0	0	0
Hamilton	1	0	1	0	1
Harper	0	0	0	0	0
Harvey	1	0	1	3	4
Haskell	0	1	1	0	1
Hodgeman	1	0	1	0	1
Jackson	1	0	1	2	3
Jefferson	0	0	0	0	0
Jewell	1	0	1	0	1
Johnson	15	3	18	8	26
Kearny	0	0	0	0	0
Kingman	0	0	0	0	0
Kiowa	0	0	0	0	0
Labette	1	1	2	2	4
Lane	0	0	0	0	0
Leavenworth	2	1	3	3	6
Lincoln	0	0	0	0	0
Linn	0	0	0	1	1
Logan	0	0	0	0	0

Table D15
Infant Deaths by County of Residence and Peer Group*
by Component
Kansas, 2016

Lyon	0	0	0	2	2
McPherson	1	0	1	0	1
Marion	0	0	0	1	1
Marshall	1	0	1	0	1
Meade	1	0	1	0	1
Miami	1	0	1	1	2
Mitchell	0	0	0	0	0
Montgomery	2	2	4	0	4
Morris	0	0	0	0	0
Morton	0	0	0	0	0
Nemaha	0	1	1	0	1
Neosho	0	0	0	0	0
Ness	0	0	0	0	0
Norton	1	0	1	0	1
Osage	1	0	1	1	2
Osborne	0	0	0	0	0
Ottawa	0	0	0	0	0
Pawnee	0	0	0	0	0
Phillips	0	0	0	0	0
Pottawatomie	0	0	0	1	1
Pratt	0	0	0	0	0
Rawlins	0	0	0	0	0
Reno	2	1	3	1	4
Republic	0	0	0	1	1
Rice	0	0	0	0	0
Riley	1	1	2	3	5
Rooks	0	0	0	0	0
Rush	1	0	1	0	1
Russell	0	0	0	0	0
Saline	2	0	2	2	4
Scott	0	0	0	0	0
Sedgwick	35	8	43	17	60
Seward	1	0	1	1	2
Shawnee	12	2	14	7	21
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	0	0	0	0	0
Thomas	1	0	1	1	2
Trego	0	0	0	0	0
Wabaunsee	0	0	0	0	0
Wallace	0	0	0	0	0
Washington	0	0	0	1	1
Wichita	0	0	0	0	0
Wilson	0	0	0	0	0
Woodson	0	0	0	0	0
Wyandotte	10	2	12	5	17
n.s.	0	0	0	0	0
Peer Group					
Frontier	6	0	6	3	9
Rural	7	2	9	8	17
Densely -Settled Rural	14	1	15	7	22
Semi-Urban	17	8	25	18	43
Urban	75	15	90	42	132

* See Technical Notes for Peer Group definition.

E. GENERAL MORTALITY

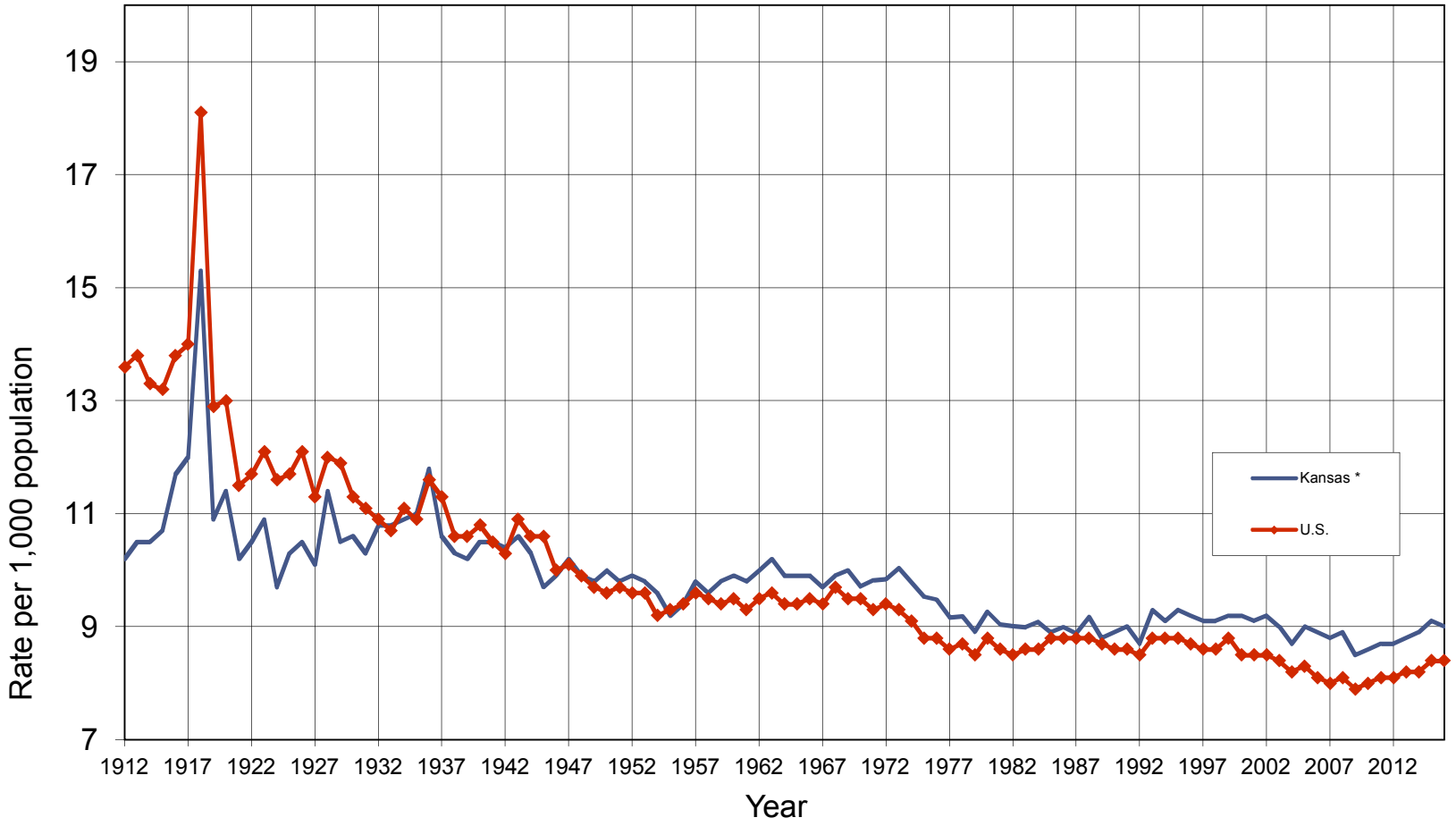
Table E1
Resident Deaths by Year and by Population Group,
By Number, Crude and Age-Adjusted Rates
Kansas, 2012-2016

Year and Population Group	Number	Crude Rate	Age-Adjusted Rate
2012	25,084	869.2	759.0
White Non-Hispanic	22,549	1,008.7	759.9
Black Non-Hispanic	1,234	733.5	949.0
Native American Non-Hispanic	180	764.9	1,110.0
Asian/Pacific Islander Non-Hispanic	152	203.6	396.7
Other Non-Hispanic	234	349.3	948.7
Hispanic	695	219.2	539.5
Not Stated	40	n/a	n/a
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

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

Crude Death Rates

Kansas and the U.S., 1912-2016



*1912-1936 Occurrence data

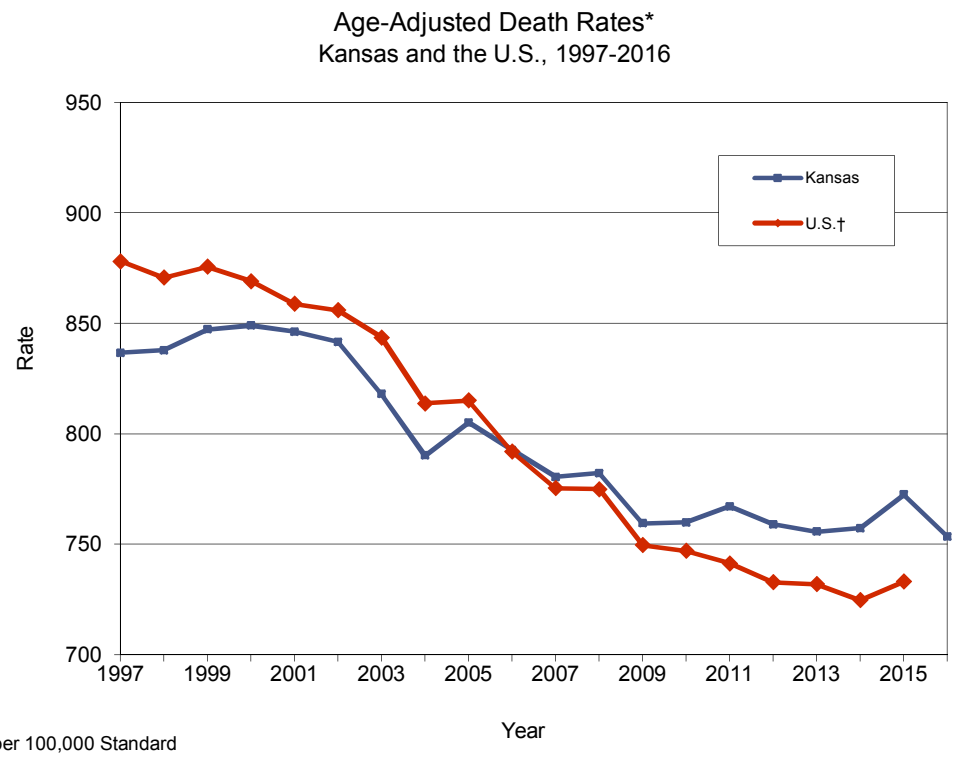
1937-2016 Residence data

Figure E1

Table E2
Age-Specific Death Rates* by Sex
Kansas, 1997-2016

Age-Group and Sex	Year																			
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Both Sexes																				
Total	9.0	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
Under 1	7.5	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
1-4	0.4	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
5-14	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.2
15-24	0.9	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
25-34	1.0	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
35-44	1.7	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
45-54	3.7	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
55-64	9.7	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
65-74	23.4	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
75-84	54.4	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
85 and over	152.3	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
Male	9.1	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
Under 1	8.3	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
1-4	0.6	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
5-14	0.2	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
15-24	1.3	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
25-34	1.4	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
35-44	2.0	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
45-54	4.7	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
55-64	12.3	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
65-74	30.3	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
75-84	71.0	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
85 and over	175.1	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
Female	9.0	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
Under 1	6.7	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
1-4	0.2	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
5-14	0.2	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
15-24	0.5	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
25-34	0.6	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
35-44	1.3	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
45-54	2.6	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
55-64	7.2	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
65-74	17.6	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
75-84	43.7	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
85 and over	143.1	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

*Rate per 1,000 age-group population
Rates may differ from those published in reports prior to 1999.



*Rate per 100,000 Standard U.S. 2000 Population

† 2016 Rates Not Available

Figure E2

Table E3
Age-Adjusted Death Rates* by Sex
Kansas and the U.S., 1997-2016

	Kansas			U.S.		
Year	Total	Male	Female	Total	Male	Female
1997	836.7	1,049.2	680.9	878.1	1,088.1	725.6
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	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, 2016

Population Group	Total	Age-Group												
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	n.s.	Average Age At Death
All Races	26,129	223	35	66	291	448	618	1,422	3,353	4,575	6,189	8,908	1	74.2
Male	13,053	123	18	36	212	318	385	891	2,026	2,572	3,083	3,388	1	70.9
Female	13,076	100	17	30	79	130	233	531	1,327	2,003	3,106	5,520	0	77.5
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
White Non-Hispanic	23,217	139	27	45	181	311	479	1,151	2,815	4,039	5,660	8,369	1	75.5
Male	11,435	75	15	26	128	221	296	711	1,685	2,278	2,815	3,184	1	72.4
Female	11,782	64	12	19	53	90	183	440	1,130	1,761	2,845	5,185	0	78.5
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Black Non-Hispanic	1,366	38	4	8	44	59	51	131	276	264	245	246	0	64.2
Male.	745	18	2	3	32	40	37	89	163	152	120	89	0	61.0
Female	621	20	2	5	12	19	14	42	113	112	125	157	0	68.1
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Native American Non-Hispanic	171	1	0	0	6	4	14	20	31	41	29	25	0	64.8
Male	88	1	0	0	6	3	8	9	22	21	10	8	0	59.7
Female	83	0	0	0	0	1	6	11	9	20	19	17	0	70.2
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Asian/Pacific Non-Hispanic	202	3	0	0	3	6	13	14	27	35	49	52	0	69.8
Male.	93	2	0	0	2	4	5	8	16	18	26	12	0	65.7
Female	109	1	0	0	1	2	8	6	11	17	23	40	0	73.3
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Other Non-Hispanic*	316	9	0	2	19	16	10	21	46	55	76	62	0	65.0
Male	166	3	0	1	15	11	4	12	28	26	43	23	0	62.5
Female	150	6	0	1	4	5	6	9	18	29	33	39	0	67.7
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Hispanic Any Race	799	32	4	11	38	50	50	78	138	125	126	147	0	60.7
Male	479	23	1	6	29	38	35	56	95	64	66	66	0	57.0
Female	320	9	3	5	9	12	15	22	43	61	60	81	0	66.3
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Not Stated	58	1	0	0	0	2	1	7	20	16	4	7	0	63.2
Male	47	1	0	0	0	1	0	6	17	13	3	6	0	63.8
Female	11	0	0	0	0	1	1	1	3	3	1	1	0	60.5
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, 2016

Population Group	Total	Causes of Death										
		Heart Disease	Malignant Neoplasms	Chronic Lower Respiratory Diseases	Unintentional Injuries	Cerebro-vascular Disease	Alzheimer's Disease	Diabetes Mellitus	Nephritis, Nephrotic Syndrome, Nephrosis	Pneumonia and Influenza	Suicide	All Other Causes
Total	26,129	5,630	5,460	1,653	1,468	1,355	853	725	529	518	512	7,426
White Non-Hispanic	23,217	5,095	4,867	1,531	1,255	1,203	788	602	432	488	429	6,527
Black Non-Hispanic	1,366	276	257	56	76	68	27	60	51	6	20	469
Native American Non-Hispanic	171	25	44	15	12	8	6	8	5	3	6	39
Asian/Pacific Non-Hispanic	202	34	51	6	10	17	5	13	12	5	7	42
Other Non-Hispanic*	316	62	65	16	29	11	14	12	3	4	18	82
Hispanic Any Race	799	121	172	20	80	48	12	29	26	8	30	253
n.s.	58	17	4	9	6	0	1	1	0	4	2	14
Male	13,053	2,985	2,811	788	891	573	260	404	257	241	401	3,442
White Non-Hispanic	11,435	2,684	2,495	726	733	498	234	330	205	228	333	2,969
Black Non-Hispanic	745	154	146	28	57	34	10	34	26	3	16	237
Native American Non-Hispanic	88	13	22	6	10	4	1	6	2	1	6	17
Asian/Pacific Non-Hispanic	93	19	20	2	6	6	1	5	7	3	6	18
Other Non-Hispanic*	166	31	33	9	20	4	6	8	0	2	12	41
Hispanic Any Race	479	69	92	9	60	27	7	20	17	1	26	151
n.s.	47	15	3	8	5	0	1	1	0	3	2	9
Female	13,076	2,645	2,649	865	577	782	593	321	272	277	111	3,984
White Non-Hispanic	11,782	2,411	2,372	805	522	705	554	272	227	260	96	3,558
Black Non-Hispanic	621	122	111	28	19	34	17	26	25	3	4	232
Native American Non-Hispanic	83	12	22	9	2	4	5	2	3	2	0	22
Asian/Pacific Non-Hispanic	109	15	31	4	4	11	4	8	5	2	1	24
Other Non-Hispanic*	150	31	32	7	9	7	8	4	3	2	6	41
Hispanic Any Race	320	52	80	11	20	21	5	9	9	7	4	102
n.s.	11	2	1	1	1	0	0	0	0	1	0	5
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, 2016

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	26,129	223	35	66	291	448	618	1,422	3,353	4,575	6,189	8,908	1	74.2
Selected Causes	19,937	71	22	55	250	371	498	1,172	2,740	3,640	4,756	6,362	1	n.a.
Tuberculosis	2	0	0	0	0	0	0	0	1	0	0	1	0	74.5
HIV/AIDS	15	0	0	0	0	2	3	2	4	4	0	0	0	52.6
Malignant Neoplasms	5,460	0	3	13	3	34	88	341	1,073	1,450	1,410	1,045	0	71.9
Diabetes mellitus	725	0	0	1	2	13	18	58	143	159	172	159	0	71.4
Alzheimer's Disease	853	0	0	0	0	0	0	1	16	41	220	575	0	86.7
Heart Disease	5,630	3	1	1	7	17	84	259	668	890	1,323	2,376	1	78.6
Prim. Hypertension/Hypertensive Renal Dis. And Sec. Hypertension	222	0	0	0	0	0	2	4	12	42	48	114	0	81.8
Cerebrovascular Disease	1,355	0	1	3	0	2	17	56	125	188	368	595	0	79.6
Atherosclerosis	385	0	0	0	0	0	0	4	22	34	100	225	0	84.6
Pneumonia and Influenza	518	0	0	0	2	2	6	9	41	67	121	270	0	81.7
Chronic Lower Respiratory Diseases	1,653	1	1	2	2	2	3	46	166	389	598	443	0	76.7
Peptic Ulcer	39	0	0	0	0	0	0	4	13	7	8	7	0	70.0
Chronic Liver Disease and Cirrhosis	316	0	0	0	2	10	23	78	96	68	29	10	0	59.8
Nephritis, Nephrotic Syndrome and Nephrosis	529	0	0	0	0	2	6	21	57	99	129	215	0	78.3
Congenital Anomalies	108	49	1	6	5	2	4	6	19	11	3	2	0	27.5
Unintentional Injuries	1,468	15	14	20	115	142	127	175	194	156	200	310	0	59.1
Suicide	512	0	0	7	71	106	90	86	80	32	27	13	0	44.3
Homicide	148	3	1	2	41	37	27	22	10	3	0	2	0	34.2

* 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, 2016

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	26,129	13,053	13,076	0	898.7	901.6	895.9	74.2	70.9	77.5
Heart Disease	5,630	2,985	2,645	0	193.7	206.2	181.2	78.7	75.6	82.1
Malignant Neoplasms	5,460	2,811	2,649	0	187.8	194.2	181.5	71.8	71.3	72.6
Chronic Lower Respiratory Diseases	1,653	788	865	0	56.9	54.4	59.3	76.5	76.4	77.0
Unintentional Injuries	1,468	891	577	0	50.5	61.5	39.5	59.3	55.2	65.1
Cerebrovascular Disease	1,355	573	782	0	46.6	39.6	53.6	80.3	76.2	82.1
Alzheimer's Disease	853	260	593	0	29.3	18.0	40.6	87.5	84.9	87.5
Diabetes mellitus	725	404	321	0	24.9	27.9	22.0	72.8	69.0	74.4
Nephritis, Nephrotic Syndrome and Nephrosis	529	257	272	0	18.2	17.8	18.6	81.6	77.1	79.5
Pneumonia and Influenza	518	241	277	0	17.8	16.6	19.0	78.6	80.1	83.1
Suicide	512	401	111	0	17.6	27.7	7.6	45.5	44.4	43.7

*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 2016.

Table E8
Death Rates, Age-Adjusted Death Rates and 95% Confidence Intervals
for Selected Leading Causes of Death
Kansas, 2015-2016

Cause of Death§	2015					2016				
	Number	Death Rate*	Age-Adjusted Death Rate†	CI (95%)‡ Lower	CI (95%)‡ Upper	Number	Death Rate*	Age-Adjusted Death Rate†	CI (95%)‡ Lower	CI (95%)‡ Upper
All Causes	26,611	914.0	772.5	763.0	782.0	26,129	898.7	753.5	744.2	762.8
Heart Disease	5,607	192.6	158.0	153.8	162.2	5,630	193.7	158.0	153.7	162.2
Malignant Neoplasms	5,591	192.0	164.3	159.9	168.7	5,460	187.8	157.9	153.6	162.2
Chronic Lower Respiratory Diseases	1,705	58.6	49.7	47.3	52.1	1,653	56.9	48.2	45.8	50.6
Unintentional Injuries	1,494	51.3	47.8	45.3	50.3	1,468	50.5	46.4	44.0	48.8
Cerebrovascular Disease	1,360	46.7	38.5	36.4	40.6	1,355	46.6	38.4	36.3	40.5
Alzheimer's Disease	862	29.6	23.4	21.8	25.0	853	29.3	23.0	21.4	24.6
Diabetes mellitus	684	23.5	20.2	18.7	21.7	725	24.9	21.1	19.5	22.7
Nephritis, Nephrotic Syndrome and Nephrosis	580	19.9	16.8	15.4	18.2	529	18.2	14.8	13.5	16.1
Pneumonia and Influenza	682	23.4	18.9	17.5	20.3	518	17.8	14.3	13.0	15.6
Suicide	477	16.4	16.3	14.8	17.8	512	17.6	17.8	16.2	19.4
Atherosclerosis	450	15.5	12.3	11.1	13.5	385	13.2	10.5	9.4	11.6
Chronic Liver Disease and Cirrhosis	312	10.7	9.6	8.5	10.7	316	10.9	9.8	8.7	10.9
Prim. Hypertension/Hypertensive Renal Disease and Sec. Hypertension	245	8.4	6.8	5.9	7.7	222	7.6	6.1	5.3	6.9
Homicide	130	4.5	4.6	3.8	5.4	148	5.1	5.3	4.4	6.2
Congenital Anomalies	115	3.9	3.9	3.2	4.6	108	3.7	3.6	2.9	4.3
Certain Conditions Originating in the Perinatal Period	107	3.7	3.8	3.1	4.5	104	3.6	3.8	3.1	4.5

* Rate per 100,000 population

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

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

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

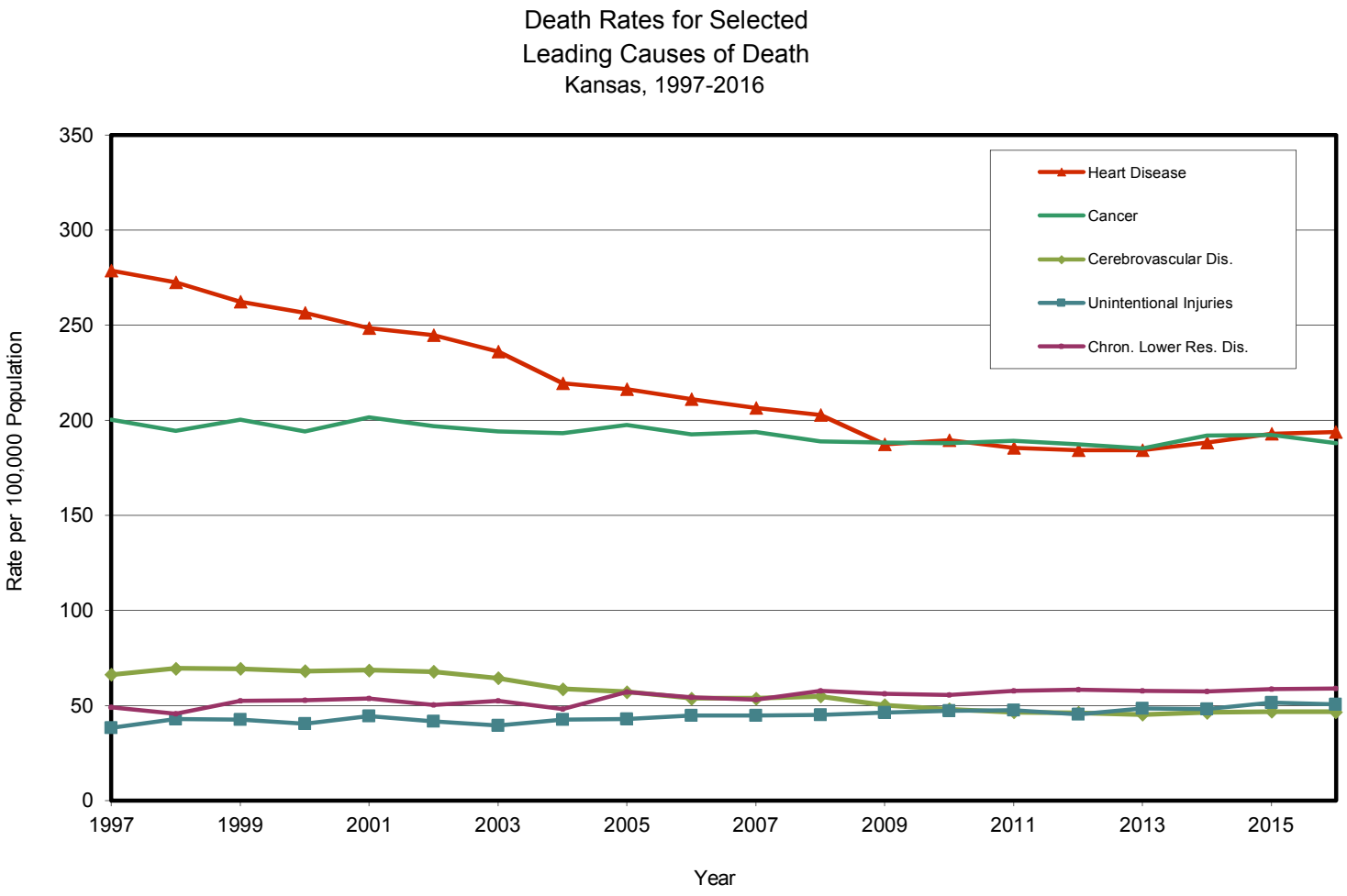

Death Rates for Selected
Leading Causes of Death
Kansas, 1997-2016
Rate per 100,000 Population
350
300
250
200
150
100
50
0
1997
1999
2001
2003
2005
2007
2009
2011
2013
2015
Year
Heart Disease
Cancer
Cerebrovascular Dis.
Unintentional Injuries
Chron. Lower Res. Dis.

Figure E3

Leading Causes of Death by Age-Group
Kansas, 2016

ALL AGES

CAUSE	NUMBER
HEART DISEASE	5,630
CANCER	5,460
CHRON. LOWER RESP. DIS.	1,653
UNINTENTIONAL INJURIES	1,468
CEREBROVASC. DIS.	1,355
OTHER CAUSES	10,563
TOTAL	26,129

UNDER 1 YEAR

CAUSE	NUMBER
CONGENITAL ANOMALIES	49
LENGTH GEST./FETAL GROWTH	28
SIDS	27
MATERNAL FACTORS & COMPL.	21
UNINTENTIONAL INJURIES	15
OTHER CAUSES	83
TOTAL	223

1-4 YEARS

CAUSE	NUMBER
UNINTENTIONAL INJURIES	14
CANCER	3
ENDOCRINE DISEASES	2
METABOLIC DISORDERS	2
DIS. OF THE NERVOUS SYST.	2
DIS. OF THE CIRCULATORY SYST.	2
OTHER CAUSES	12
TOTAL	35

5-14 YEARS

CAUSE	NUMBER
UNINTENTIONAL INJURIES	20
CANCER	13
SUICIDE	7
CONGENITAL ANOMALIES	6
CEREBROVASCULAR DISEASE	3
OTHER CAUSES	17
TOTAL	66

15-24 YEARS

CAUSE	NUMBER
UNINTENTIONAL INJURIES	115
SUICIDE	71
HOMICIDE	41
HEART DISEASE	7
CONGENITAL ANOMALIES	5
OTHER CAUSES	52
TOTAL	291

25-44 YEARS

CAUSE	NUMBER
UNINTENTIONAL INJURIES	269
SUICIDE	196
CANCER	122
HEART DISEASE	101
HOMICIDE	64
OTHER CAUSES	314
TOTAL	1,066

45-64 YEARS

CAUSE	NUMBER
CANCER	1,414
HEART DISEASE	927
UNINTENTIONAL INJURIES	369
CHRON. LOWER RESP. DIS.	212
DIABETES MELLITUS	201
OTHER CAUSES	1,652
TOTAL	4,775

65-84 YEARS

CAUSE	NUMBER
CANCER	2,860
HEART DISEASE	2,213
CHRON. LOWER RESP. DIS.	987
CEREBROVASC. DIS.	556
UNINTENTIONAL INJURIES	356
OTHER CAUSES	3,792
TOTAL	10,764

85 YEARS AND OVER

CAUSE	NUMBER
HEART DISEASE	2,376
CANCER	1,045
CEREBROVASC. DIS.	595
ALZHEIMER'S DISEASE	575
CHRON. LOWER RESP. DIS.	443
OTHER CAUSES	3,874
TOTAL	8,908

Figure E4

Table E9
Pneumonia and Influenza Mortality
Number and Age-Adjusted Rates
Kansas Residents, 1999-2016*

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	646	19.4
2007	660	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

* 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, 2016

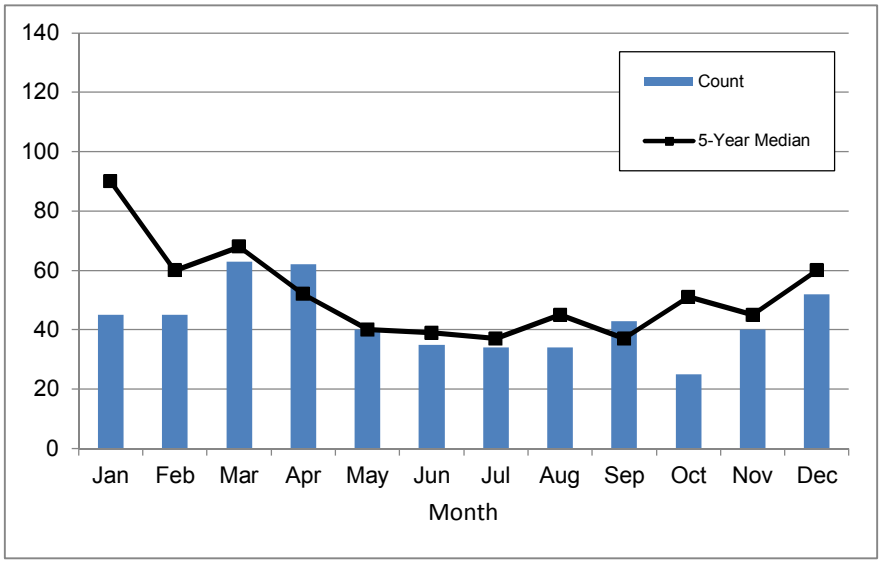


Figure E5

Table E10
Heart Disease Deaths by Component and Sex of Decedent, by Age-Group of Decedent
Kansas, 2016

Causes of Death and Sex of Decedent *	Total	Age-Group											
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	n.s.
Heart Disease	5,630	3	1	1	7	17	84	259	668	890	1,323	2,376	1
Male	2,985	0	0	0	5	11	50	185	473	590	718	952	1
Female	2,645	3	1	1	2	6	34	74	195	300	605	1,424	0
Acute Rheumatic Fever and Chronic Rheumatic Heart Disease	33	0	0	0	0	0	1	2	3	3	6	18	0
Male	9	0	0	0	0	0	0	1	2	2	2	2	0
Female	24	0	0	0	0	0	1	1	1	1	4	16	0
Hypertensive Heart Disease with or without Renal Disease	290	0	0	0	0	1	1	13	33	36	73	133	0
Male	138	0	0	0	0	1	0	8	22	30	33	44	0
Female	152	0	0	0	0	0	1	5	11	6	40	89	0
Ischemic Heart Disease	3,103	0	0	0	0	3	34	154	454	585	772	1,100	1
Male	1,847	0	0	0	0	3	21	119	338	400	456	509	1
Female	1,256	0	0	0	0	0	13	35	116	185	316	591	0
Pulmonary Heart Disease and Diseases of Pulmonary Circulation	167	0	0	1	2	5	5	20	33	33	34	34	0
Male	80	0	0	0	1	2	2	11	22	16	11	15	0
Female	87	0	0	1	1	3	3	9	11	17	23	19	0
Other Forms of Heart Disease	2,037	3	1	0	5	8	43	70	145	233	438	1,091	0
Male	911	0	0	0	4	5	27	46	89	142	216	382	0
Female	1,126	3	1	0	1	3	16	24	56	91	222	709	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, 2016

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)	5,460	0	3	13	3	34	88	341	1,073	1,450	1,410	1,045
Male	2,811	0	3	5	3	19	37	177	601	769	708	489
Female	2,649	0	0	8	0	15	51	164	472	681	702	556
Lip, Oral Cavity and Pharynx	89	0	0	0	0	1	2	9	26	20	19	12
Male	65	0	0	0	0	1	1	9	22	11	14	7
Female	24	0	0	0	0	0	1	0	4	9	5	5
Digestive Organs	1,398	0	0	0	1	8	17	118	307	363	314	270
Male	793	0	0	0	1	6	7	74	216	214	158	117
Female	605	0	0	0	0	2	10	44	91	149	156	153
Respiratory and Intrathoracic Organs	1,398	0	0	0	0	2	6	48	310	453	387	192
Male	736	0	0	0	0	2	4	22	178	247	195	88
Female	662	0	0	0	0	0	2	26	132	206	192	104
Bone and Articular Cartilage	11	0	0	0	0	1	1	0	1	5	2	1
Male	2	0	0	0	0	0	0	0	0	2	0	0
Female	9	0	0	0	0	1	1	0	1	3	2	1
Skin	125	0	0	0	0	1	5	8	25	21	34	31
Male	91	0	0	0	0	1	3	5	20	14	25	23
Female	34	0	0	0	0	0	2	3	5	7	9	8
Mesothelial and Soft Tissue	82	0	0	2	1	4	3	4	10	23	24	11
Male	47	0	0	1	1	2	1	2	4	16	13	7
Female	35	0	0	1	0	2	2	2	6	7	11	4
Breast	405	0	0	0	0	2	14	35	84	96	92	82
Male	3	0	0	0	0	0	0	0	1	2	0	0
Female	402	0	0	0	0	2	14	35	83	94	92	82
Genital Organs	527	0	0	0	0	4	13	28	82	135	148	117
Male	259	0	0	0	0	1	1	3	18	62	89	85
Female	268	0	0	0	0	3	12	25	64	73	59	32
Urinary Tract	286	0	0	1	0	1	4	11	52	67	80	70
Male	196	0	0	0	0	1	3	8	40	48	54	42
Female	90	0	0	1	0	0	1	3	12	19	26	28
Eye and Adnexa	5	0	0	0	0	0	0	0	1	2	1	1
Male	3	0	0	0	0	0	0	0	1	1	1	0
Female	2	0	0	0	0	0	0	0	0	1	0	1
Meninges, Brain and Other Parts of Central Nervous System	148	0	1	5	0	3	9	22	28	38	30	12
Male	84	0	1	3	0	1	6	13	19	23	15	3
Female	64	0	0	2	0	2	3	9	9	15	15	9
Thyroid and Other Endocrine Glands	34	0	0	1	0	0	0	2	6	9	13	3
Male	17	0	0	0	0	0	0	0	3	7	5	2
Female	17	0	0	1	0	0	0	2	3	2	8	1
Other and Unspecified Sites	390	0	0	0	0	3	9	26	72	102	93	85
Male	214	0	0	0	0	2	6	16	44	62	47	37
Female	176	0	0	0	0	1	3	10	28	40	46	48
Leukemia	223	0	2	2	1	1	2	9	24	43	75	64
Male	125	0	2	0	1	1	2	7	12	23	44	33
Female	98	0	0	2	0	0	0	2	12	20	31	31
Other Lymphoid, Hematopoietic and Related Tissue	339	0	0	2	0	3	3	21	45	73	98	94
Male	176	0	0	1	0	1	3	18	23	37	48	45
Female	163	0	0	1	0	2	0	3	22	36	50	49

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

Table E12
Cerebrovascular Disease Deaths by Component and Sex of Decedent, by Age-Group of Decedent
Kansas, 2016

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	1,355	0	1	3	0	2	17	56	125	188	368	595
Male	573	0	0	2	0	2	11	35	73	94	162	194
Female	782	0	1	1	0	0	6	21	52	94	206	401
Subarachnoid Hemorrhage	46	0	0	0	0	0	8	9	12	7	7	3
Male	24	0	0	0	0	0	5	5	7	4	3	0
Female	22	0	0	0	0	0	3	4	5	3	4	3
Intracerebral and Other Intercranial Hemorrhage	273	0	1	0	0	1	5	21	38	55	74	78
Male	127	0	0	0	0	1	3	16	21	31	26	29
Female	146	0	1	0	0	0	2	5	17	24	48	49
Cerebral Infarction	113	0	0	0	0	1	1	3	12	17	26	53
Male	56	0	0	0	0	1	1	2	7	11	13	21
Female	57	0	0	0	0	0	0	1	5	6	13	32
Stroke, Not Specified as Hemorrhage or Infarction	683	0	0	0	0	0	3	20	51	84	200	325
Male	272	0	0	0	0	0	2	11	32	36	90	101
Female	411	0	0	0	0	0	1	9	19	48	110	224
Other Cerebrovascular Diseases	240	0	0	3	0	0	0	3	12	25	61	136
Male	94	0	0	2	0	0	0	1	6	12	30	43
Female	146	0	0	1	0	0	0	2	6	13	31	93

* 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, 2016

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	1,468	15	14	20	115	142	127	175	194	156	200	310
Male	891	8	8	13	80	101	93	122	127	104	108	127
Female	577	7	6	7	35	41	34	53	67	52	92	183
Motor-Vehicle	428	3	2	14	70	74	45	53	62	45	35	25
Male	301	2	1	8	44	57	38	38	45	33	21	14
Female	127	1	1	6	26	17	7	15	17	12	14	11
Traffic	*413*	*3*	*0*	*12*	*69*	*73*	*44*	*53*	*60*	*42*	*34*	*23*
Male	*291*	*2*	*0*	*6*	*43*	*57*	*37*	*38*	*44*	*31*	*20*	*13*
Female	*122*	*1*	*0*	*6*	*26*	*16*	*7*	*15*	*16*	*11*	*14*	*10*
Non-Traffic	*15*	*0*	*2*	*2*	*1*	*1*	*1*	*0*	*2*	*3*	*1*	*2*
Male	*10*	*0*	*1*	*2*	*1*	*0*	*1*	*0*	*1*	*2*	*1*	*1*
Female	*5*	*0*	*1*	*0*	*0*	*1*	*0*	*0*	*1*	*1*	*0*	*1*
Water Transport	3	0	0	0	0	0	0	1	2	0	0	0
Male	2	0	0	0	0	0	0	1	1	0	0	0
Female	1	0	0	0	0	0	0	0	1	0	0	0
Air and Space Transport	3	0	0	0	0	1	0	1	1	0	0	0
Male	2	0	0	0	0	0	0	1	1	0	0	0
Female	1	0	0	0	0	1	0	0	0	0	0	0
Falls	415	0	0	0	2	4	3	10	24	48	108	216
Male	199	0	0	0	1	2	2	9	14	30	60	81
Female	216	0	0	0	1	2	1	1	10	18	48	135
Inanimate Mechanical Forces	34	0	3	0	3	2	4	3	8	4	4	3
Male	32	0	3	0	2	2	4	3	7	4	4	3
Female	2	0	0	0	1	0	0	0	1	0	0	0
Drowning and Submersion	34	0	2	2	6	4	2	6	3	4	3	2
Male	26	0	1	1	6	2	2	6	3	1	2	2
Female	8	0	1	1	0	2	0	0	0	3	1	0
Other Accidental Threats to Breathing	77	12	1	1	1	0	3	4	11	13	13	18
Male	42	6	0	1	1	0	2	3	9	6	6	8
Female	35	6	1	0	0	0	1	1	2	7	7	10

Table E13
Unintentional Injury Deaths by Component and Sex of Decedent, by Age-Group of Decedent
Kansas, 2016

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	6	0	1	0	1	0	2	2	0	0	0	0
Male	6	0	1	0	1	0	2	2	0	0	0	0
Female	0	0	0	0	0	0	0	0	0	0	0	0
Smoke, Fire and Flames	37	0	1	2	1	0	8	4	7	7	4	3
Male	25	0	1	2	0	0	6	2	6	5	1	2
Female	12	0	0	0	1	0	2	2	1	2	3	1
Forces of Nature	14	0	1	0	1	2	0	3	4	2	1	0
Male	10	0	0	0	1	2	0	1	4	1	1	0
Female	4	0	1	0	0	0	0	2	0	1	0	0
Poisonings	268	0	1	0	23	50	55	78	48	12	0	1
Male	167	0	1	0	19	32	33	49	24	9	0	0
Female	101	0	0	0	4	18	22	29	24	3	0	1
Other Unintentional Injuries	114	0	2	1	7	4	5	7	15	14	23	36
Male	59	0	0	1	5	3	4	6	9	10	9	12
Female	55	0	2	0	2	1	1	1	6	4	14	24
Complications of Medical and Surgical Care	35	0	0	0	0	1	0	3	9	7	9	6
Male	20	0	0	0	0	1	0	1	4	5	4	5
Female	15	0	0	0	0	0	0	2	5	2	5	1

* 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, 2016*

Cause Group †	Total	Unintentional	Suicide	Homicide	Undetermined	Legal/War
Total	2,125	1,433	512	148	29	3
Cut/Pierce	26	5	9	11	1	0
Drowning	39	34	4	0	1	0
Falls	420	415	5	0	0	0
Fire/flame	43	37	1	0	5	0
Hot Object/Scalding	0	0	0	0	0	0
Firearm	382	9	255	114	1	3
Machinery	9	9	0	0	0	0
Motor Vehicle Traffic	413	413	0	0	0	0
Other Pedal Cyclist	2	2	0	0	0	0
Other Pedestrian	5	5	0	0	0	0
Other Land Transport	19	15	2	1	1	0
Other Transport	6	6	0	0	0	0
Natural/Environmental	17	17	0	0	0	0
Overexertion	0	0	0	0	0	0
Poisoning	363	268	82	0	13	0
Struck By/Against	11	9	0	2	0	0
Suffocation	219	77	132	10	0	0
Other Specified	27	16	10	1	0	0
NEC §	19	11	5	1	2	0
Not Specified	105	85	7	8	5	0

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

Table E15
Work-related Injury Deaths by Industry* of Decedent's Occupation by Year
Kansas, 2007-2016

Type of Industry	Total	Year									
		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total	560	64	42	50	74	59	49	59	58	50	55
Agriculture, Forestry, Fishing and Hunting	108	14	12	14	15	10	11	9	13	7	3
Mining	22	0	3	2	2	0	2	5	3	2	3
Utilities	11	1	2	0	1	1	0	1	0	2	3
Construction	104	12	5	14	18	15	9	13	5	7	6
Manufacturing	57	6	3	1	6	5	4	5	13	4	10
Wholesale Trade	25	1	0	1	1	8	4	1	3	4	2
Retail Trade	27	3	2	2	9	2	5	1	0	0	3
Transportation and Warehousing	66	12	5	4	6	5	3	12	6	6	7
Information	2	1	0	0	0	0	0	0	1	0	0
Finance and Insurance	3	1	1	0	0	0	0	0	0	1	0
Real Estate, and Rental, and Leasing	3	0	1	1	0	0	0	0	0	0	1
Professional, Scientific and Technical Services	5	0	1	0	1	0	1	0	2	0	0
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	0	1	2	1	0	3	3	0
Educational Services	8	1	0	0	1	1	1	0	1	0	3
Health Care and Social Assistance	14	4	0	3	1	0	1	1	2	0	2
Arts, Entertainment, and Recreation	3	0	0	0	1	0	0	0	1	0	1
Accommodation and Food Services	7	2	2	0	0	1	0	2	0	0	0
Other Services (except Public Admin.)	16	1	1	1	2	2	1	1	1	5	1
Public Admin. and Active Duty Military	28	2	2	3	4	2	4	1	3	1	6
Housewives, Students, Children, Volunteers and None[§]	17	1	0	2	3	3	0	3	0	3	2
n.s.	24	2	2	2	2	2	2	4	1	5	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, 2016

Cause of Death * and Sex of Decedent	Total	Age-Group										
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over
Total	3,869	1	1	3	6	27	52	215	509	798	1,084	1,173
Male	1,913	1	1	1	5	21	36	119	289	436	532	472
Female	1,956	0	0	2	1	6	16	96	220	362	552	701
Diabetes mellitus	725	0	0	1	2	13	18	58	143	159	172	159
Male	404	0	0	1	1	10	14	35	91	94	91	67
Female	321	0	0	0	1	3	4	23	52	65	81	92
Primary Hypertension/Hypertensive Renal Dis. And Secondary Hypertension	222	0	0	0	0	0	2	4	12	42	48	114
Male	85	0	0	0	0	0	2	4	7	17	22	33
Female	137	0	0	0	0	0	0	0	5	25	26	81
Atherosclerosis	385	0	0	0	0	0	0	4	22	34	100	225
Male	153	0	0	0	0	0	0	4	12	17	49	71
Female	232	0	0	0	0	0	0	0	10	17	51	154
Chronic Lower Respiratory Diseases	1,653	1	1	2	2	2	3	46	166	389	598	443
Male	788	1	1	0	2	0	2	16	78	203	286	199
Female	865	0	0	2	0	2	1	30	88	186	312	244
Peptic Ulcer	39	0	0	0	0	0	0	4	13	7	8	7
Male	20	0	0	0	0	0	0	3	5	5	6	1
Female	19	0	0	0	0	0	0	1	8	2	2	6
Chronic Liver Disease and Cirrhosis	316	0	0	0	2	10	23	78	96	68	29	10
Male	206	0	0	0	2	10	15	46	65	48	15	5
Female	110	0	0	0	0	0	8	32	31	20	14	5
Nephritis, Nephrotic Syndrome, and Nephrosis	529	0	0	0	0	2	6	21	57	99	129	215
Male	257	0	0	0	0	1	3	11	31	52	63	96
Female	272	0	0	0	0	1	3	10	26	47	66	119

* 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, 2016

Underlying Cause of Death	Underlying Total	Diabetes Mellitus Contributing Cause
HIV (AIDS)	15	1
Cancer	5,460	176
Diabetes Mellitus	725	722
Alzheimer's Disease	853	47
Heart Disease	5,630	533
Primary Hypertension/Hypertensive Renal Disease/Secondary Hypertension	222	16
Cerebrovascular Disease	1,355	74
Atherosclerosis	385	4
Influenza and Pneumonia	518	20
Chronic Lower Respiratory Disease	1,653	94
Chronic Liver Disease and Cirrhosis	316	14
Nephritis, Nephrotic Syndrome, Nephrosis	529	7
Accidents/Adverse Effects	1,468	61
Suicide	512	8
Total for These Causes	19,641	1,777

Table E18
Deaths by Occupation of Decedent* by
Selected Causes of Death
Kansas, 2016

Occupation of Decedent	Total	Selected Causes of Death †											
		Heart Disease	Malignant Neoplasms	Cerebro-vascular Disease	Unintentional Injuries	Chronic Lower Respiratory Diseases	Suicide	Athero-sclerosis	Chronic Liver Disease and Cirrhosis	Homicide	Peptic Ulcer	Hyper-tension	All Other Causes
Total	26,129	5,630	5,460	1,355	1,468	1,653	512	385	316	148	39	222	8,941
Management	2,896	737	630	149	131	165	41	44	22	5	6	20	946
Business and Financial Operations	779	158	192	52	28	44	10	17	13	5	1	5	254
Computer and Mathematical	201	44	52	9	12	13	6	1	6	1	0	1	56
Architecture and Engineering	414	85	100	16	16	24	3	4	6	0	0	2	158
Life, Physical, and Social Services	169	42	38	13	5	16	3	2	2	0	0	1	47
Community and Social Services	356	70	72	13	15	24	5	9	2	1	2	5	138
Legal	128	23	32	6	5	8	1	1	3	0	0	0	49
Education, Training, and Library	1,266	282	290	81	64	37	12	24	6	4	2	15	449
Arts, Design, Entertainment, Sports, and Media	295	56	78	10	14	17	10	9	0	1	0	1	99
Healthcare Practitioners and Technical	1,010	221	237	63	61	60	9	14	9	2	1	11	322
Healthcare Support	554	99	126	31	27	49	8	7	8	6	1	4	188
Protective Service	296	64	69	18	12	20	16	2	5	2	0	4	84
Food Preparation and Serving Related	630	125	131	26	43	43	17	8	15	7	1	5	209
Building and Grounds Cleaning and Maintenance	729	156	169	25	38	62	15	5	10	2	3	7	237
Personal Care and Service	459	84	102	20	29	29	9	9	2	5	0	4	166
Sales and Related	1,958	432	432	104	100	132	40	34	20	5	3	23	633
Office and Admin. Support	2,529	522	540	160	100	164	20	42	26	3	4	22	926
Farming, Forestry, and Fishing	118	25	25	3	13	6	4	1	4	0	0	1	36
Construction and Extraction	1,505	314	329	62	107	123	67	16	37	28	3	8	411
Installation, Repair, and Maintenance	813	173	188	46	42	57	23	5	13	6	0	4	256
Production	1,719	386	365	97	108	134	37	18	20	12	3	14	525
Transportation and Material Moving	1,628	346	381	60	118	116	54	15	36	18	3	14	467
Housewives, Students, Children, Volunteers, and None§	4,597	945	677	241	281	244	61	87	42	28	4	40	1,947
n.s.	1,080	241	205	50	99	66	41	11	9	7	2	11	338

*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, 2016

Type of Industry	Total	Selected Causes of Death †											
		Heart Disease	Malignant Neoplasms	Cerebro-vascular Disease	Unintentional Injuries	Chronic Lower Respiratory Diseases	Suicide	Athero-sclerosis	Chronic Liver Disease and Cirrhosis	Homicide	Peptic Ulcer	Hyper-tension	All Other Causes
Total	26,129	5,630	5,460	1,355	1,468	1,653	512	385	316	148	39	222	8,941
Agriculture, Forestry, Fishing and Hunting	1,402	364	260	83	80	78	18	12	7	1	2	12	485
Mining	201	57	27	10	12	15	7	2	5	2	0	1	63
Utilities	300	62	89	18	15	14	2	5	4	2	0	3	86
Construction	1,507	332	328	58	114	115	72	14	34	26	2	6	406
Manufacturing	2,802	587	637	145	152	228	55	38	41	10	5	21	883
Wholesale Trade	661	159	140	30	38	34	19	8	12	1	1	3	216
Retail Trade	1,858	387	399	109	89	127	37	30	18	8	2	15	637
Transportation and Warehousing	1,377	317	329	56	71	91	27	21	17	14	2	9	423
Information	521	120	129	22	30	29	5	7	4	1	0	6	168
Finance and Insurance	786	167	183	36	35	46	13	12	7	1	2	7	277
Real Estate, and Rental, and Leasing	266	52	61	12	17	20	8	9	2	2	2	3	78
Professional, Scientific and Technical Services	724	138	174	53	30	36	10	15	14	3	1	5	245
Management of Companies and Enterprises	6	1	1	0	0	0	0	1	0	0	0	0	3
Admin. and Support & Waste Management Services	376	81	96	20	17	24	14	1	9	5	1	1	107
Educational Services	2,100	450	468	112	134	83	45	34	17	11	3	16	727
Health Care and Social Assistance	2,196	445	498	117	118	160	25	29	24	12	3	24	741
Arts, Entertainment, and Recreation	168	32	43	10	10	15	4	2	3	1	0	0	48
Accommodation and Food Services	659	129	148	28	47	44	25	6	18	6	1	9	198
Other Services (except Public Admin.)	1,354	288	281	66	72	90	22	20	13	5	3	16	478
Public Admin. and Active Duty Military	1,499	327	343	88	55	102	35	20	18	6	2	16	487
Housewives, Students, Children, Volunteers and None[§]	4,442	937	659	234	244	236	39	85	41	21	5	40	1,901
n.s.	924	198	167	48	88	66	30	14	8	10	2	9	284

*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.

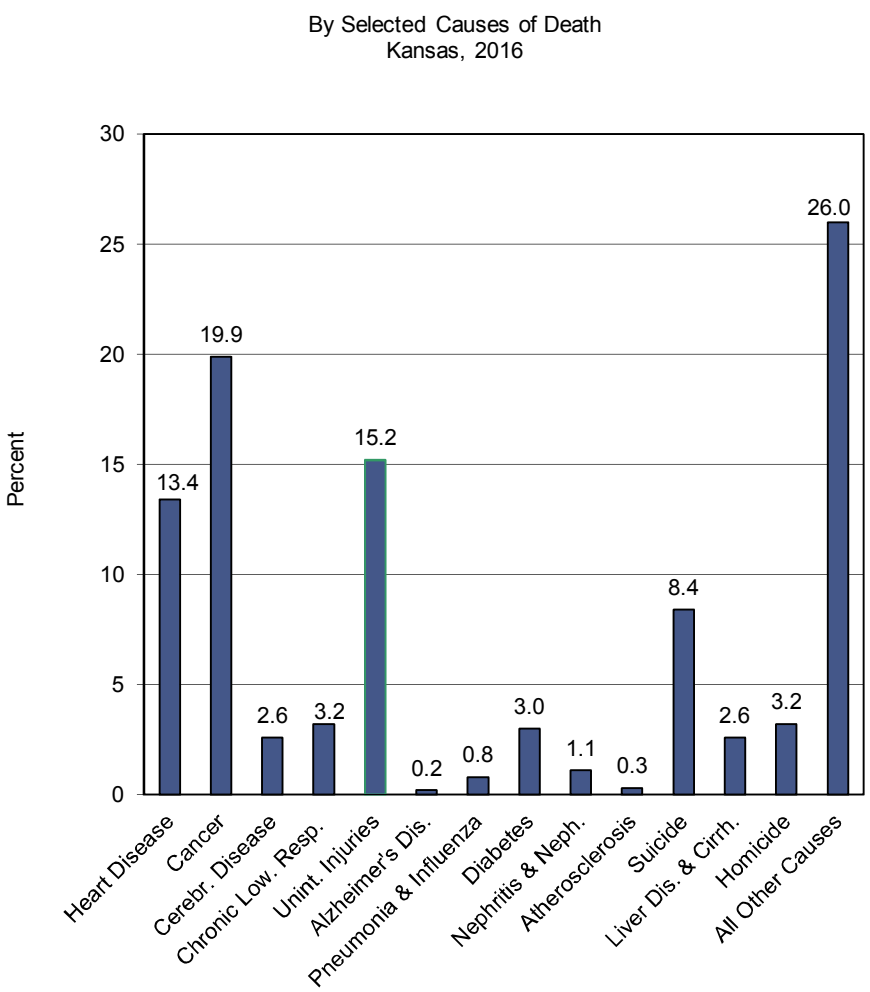
Table E20
Selected Causes of Death and Years of Potential Life Lost (YPLL)
Before Age 75
Kansas, 2016

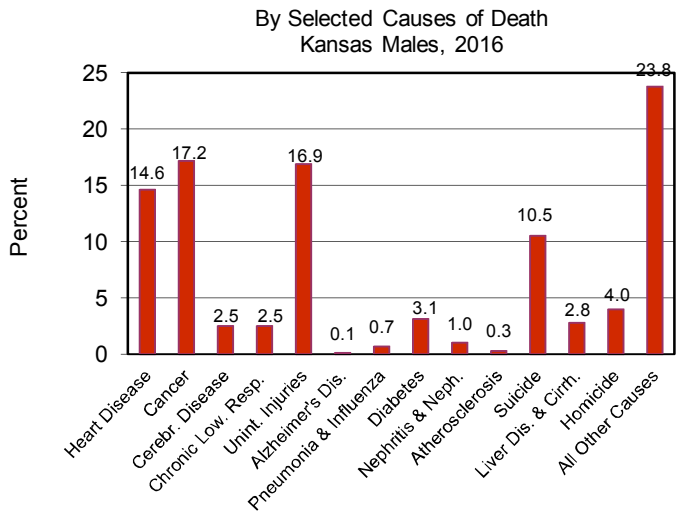
CAUSE OF DEATH *	Number of Deaths	Total Years Life Lost	Percent Years Lost By Cause	Rate† Years Lost By Cause
Total Deaths	26,129	191,508	100.0	65.9
Heart Disease	5,630	25,702	13.4	8.8
Cancer	5,460	38,170	19.9	13.1
Chronic Lower Respiratory Dis.	1,653	6,158	3.2	2.1
Unintentional Injuries	1,468	29,177	15.2	10.0
Cerebrovascular Disease	1,355	5,034	2.6	1.7
Alzheimer's Disease	853	425	0.2	0.1
Diabetes	725	5,703	3.0	2.0
Nephritis and Nephrotic Syndrome	529	2,162	1.1	0.7
Pneumonia and Influenza	517	1,517	0.8	0.5
Suicide	512	16,015	8.4	5.5
Atherosclerosis	385	534	0.3	0.2
Chronic Liver Disease and Cirrhosis	316	5,072	2.6	1.7
Homicide	148	6,064	3.2	2.1
All Other Causes	6,578	49,775	26.0	17.1
Male Deaths	13,053	119,062	100.0	82.2
Heart Disease	2,985	17,414	14.6	12.0
Cancer	2,811	20,493	17.2	14.2
Unintentional Injuries	891	20,075	16.9	13.9
Chronic Lower Respiratory Dis.	788	2,947	2.5	2.0
Cerebrovascular Disease	573	2,964	2.5	2.0
Diabetes	404	3,726	3.1	2.6
Suicide	401	12,532	10.5	8.7
Alzheimer's Disease	260	176	0.1	0.1
Nephritis and Nephrotic Syndrome	257	1,137	1.0	0.8
Pneumonia and Influenza	240	822	0.7	0.6
Chronic Liver Disease and Cirrhosis	206	3,388	2.8	2.3
Atherosclerosis	153	350	0.3	0.2
Homicide	114	4,713	4.0	3.3
All Other Causes	2,970	28,325	23.8	19.6
Female Deaths	13,076	72,446	100.0	49.6
Cancer	2,649	17,677	24.4	12.1
Heart Disease	2,645	8,288	11.4	5.7
Chronic Lower Respiratory Dis.	865	3,211	4.4	2.2
Cerebrovascular Disease	782	2,070	2.9	1.4
Alzheimer's Disease	593	249	0.3	0.2
Unintentional Injuries	577	9,102	12.6	6.2
Diabetes	321	1,977	2.7	1.4
Pneumonia and Influenza	277	695	1.0	0.5
Nephritis and Nephrotic Syndrome	272	1,025	1.4	0.7
Atherosclerosis	232	184	0.3	0.1
Suicide	111	3,483	4.8	2.4
Chronic Liver Disease and Cirrhosis	110	1,684	2.3	1.2
Homicide	34	1,351	1.9	0.9
All Other Causes	3,608	21,450	29.6	14.7

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

†Rate per 1,000 population.

Percent Years of Potential Life Lost Before Age 75





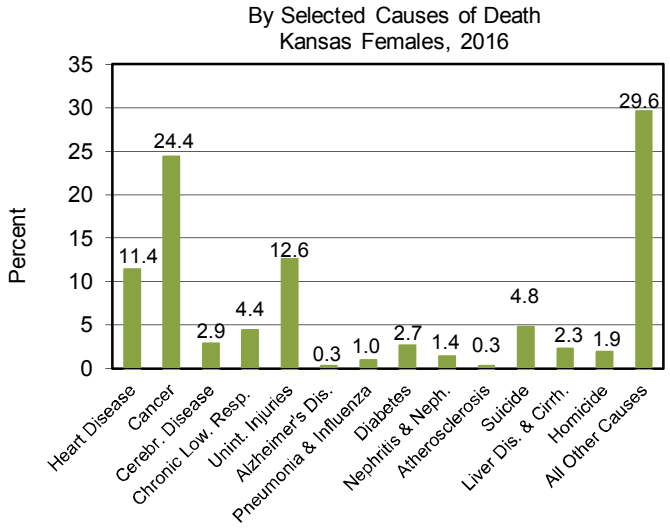


Figure E6

Table E21
Deaths from 39 Selected Causes by Number and Percent and Sex of Decedent
Related to Tobacco
Kansas, 2016

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	26,129	2,554	1,580	25.4	12,148	16,282	9,847
Male	13,053	1,481	963	31.2	5,387	7,831	5,222
Female	13,076	1,073	617	20.0	6,761	8,451	4,625
Tuberculosis	2	0	0		0	0	2
Male	0	0	0		0	0	0
Female	2	0	0		0	0	2
Syphilis	0	0	0		0	0	0
Male	0	0	0		0	0	0
Female	0	0	0		0	0	0
HIV/AIDS	15	2	0	16.7	10	12	3
Male	13	1	0	9.1	10	11	2
Female	2	1	0	100.0	0	1	1
Cancer of Stomach	78	5	7	29.3	29	41	37
Male	47	5	5	35.7	18	28	19
Female	31	0	2	15.4	11	13	18
Cancer of Colon, Rectum & Anus	495	12	17	9.3	283	312	183
Male	245	8	5	8.4	142	155	90
Female	250	4	12	10.2	141	157	93
Cancer of Pancreas	386	12	21	13.5	211	244	142
Male	191	7	10	13.9	105	122	69
Female	195	5	11	13.1	106	122	73
Cancer of Trachea, Bronchus & Lung	1,361	602	272	89.2	106	980	381
Male	707	310	155	91.5	43	508	199
Female	654	292	117	86.7	63	472	182
Cancer of Breast	405	7	7	5.4	245	259	146
Male	3	0	0	0.0	2	2	1
Female	402	7	7	5.4	243	257	145
Cancer of Cervix, Corpus & Ovary	244	1	6	4.4	153	160	84
Male	0	0	0		0	0	0
Female	244	1	6	4.4	153	160	84
Cancer of Prostate	254	5	9	9.9	128	142	112
Male	254	5	9	9.9	128	142	112
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, 2016

Cause of Death * and Sex of Decedent	Total	Did Tobacco Use Contribute to This Death?					
		Yes	Probably	Yes + Probably as % of Known	No	Total Known	Unknown
Cancer of Urinary Tract	286	14	24	25.5	111	149	137
Male	196	11	17	29.5	67	95	101
Female	90	3	7	18.5	44	54	36
Non-Hodgkin's Lymphoma	207	9	5	10.4	121	135	72
Male	102	5	5	16.1	52	62	40
Female	105	4	0	5.5	69	73	32
Leukemia	223	2	4	4.1	141	147	76
Male	125	2	4	7.2	77	83	42
Female	98	0	0	0.0	64	64	34
Other Malignant Neoplasms	1,521	137	107	26.2	686	930	591
Male	941	108	81	33.3	378	567	374
Female	580	29	26	15.2	308	363	217
Diabetes mellitus	725	60	38	24.3	306	404	321
Male	404	36	28	31.5	139	203	201
Female	321	24	10	16.9	167	201	120
Alzheimer's Disease	853	9	10	3.3	564	583	270
Male	260	6	7	8.1	147	160	100
Female	593	3	3	1.4	417	423	170
Hypertensive Heart Disease	290	16	26	24.6	129	171	119
Male	138	5	15	30.8	45	65	73
Female	152	11	11	20.8	84	106	46
Ischemic Heart Disease	3,103	347	224	36.3	1,004	1,575	1,528
Male	1,847	255	171	46.1	499	925	922
Female	1,256	92	53	22.3	505	650	606
Other Heart Disease	2,237	101	80	14.3	1,087	1,268	969
Male	1,000	62	47	21.8	391	500	500
Female	1,237	39	33	9.4	696	768	469
Prim. Hypertension/ Hypertensive Renal Dis. & Sec. Hypertension	222	17	13	19.9	121	151	71
Male	85	7	9	29.6	38	54	31
Female	137	10	4	14.4	83	97	40

Table E21
Deaths from 39 Selected Causes by Number and Percent and Sex of Decedent
Related to Tobacco
Kansas, 2016

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	1,355	67	77	18.4	640	784	571
Male	573	36	45	25.3	239	320	253
Female	782	31	32	13.6	401	464	318
Atherosclerosis	385	7	4	3.4	317	328	57
Male	153	5	3	6.7	111	119	34
Female	232	2	1	1.4	206	209	23
Other Disease of Circulatory System	207	26	23	44.1	62	111	96
Male	121	20	18	55.9	30	68	53
Female	86	6	5	25.6	32	43	43
Pneumonia & Influenza	518	27	16	15.4	237	280	238
Male	241	16	7	20.2	91	114	127
Female	277	11	9	12.0	146	166	111
Chronic Lower Respiratory Disease	1,653	766	294	86.2	169	1,229	424
Male	788	391	142	90.2	58	591	197
Female	865	375	152	82.6	111	638	227
Peptic Ulcer	39	3	3	25.0	18	24	15
Male	20	2	2	28.6	10	14	6
Female	19	1	1	20.0	8	10	9
Chonic Liver Disease & Cirrhosis	316	21	25	22.4	159	205	111
Male.	206	12	20	24.2	100	132	74
Female	110	9	5	19.2	59	73	37
Nephritis, Nephrotic Syndrome & Nephrosis	529	20	25	15.4	248	293	236
Male	257	11	12	18.0	105	128	129
Female	272	9	13	13.3	143	165	107
Pregnancy, Childbirth, & the Puerperium	12	0	2	18.2	9	11	1
Male	0	0	0		0	0	0
Female	12	0	2	18.2	9	11	1
Certain Conditons Originating In the Perinatal Period	104	0	0	0.0	92	92	12
Male	61	0	0	0.0	55	55	6
Female	43	0	0	0.0	37	37	6

Table E21
Deaths from 39 Selected Causes by Number and Percent and Sex of Decedent
Related to Tobacco
Kansas, 2016

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	108	0	2	2.1	95	97	11
Male	61	0	1	1.8	55	56	5
Female	47	0	1	2.4	40	41	6
Sudden Infant Death Syndrome	27	0	1	4.3	22	23	4
Male	14	0	0	0.0	11	11	3
Female	13	0	1	8.3	11	12	1
Symptoms and Abnormal Findings	388	2	2	2.3	170	174	214
Male	162	1	1	3.2	61	63	99
Female	226	1	1	1.8	109	111	115
All Other Diseases	5,421	216	199	12.1	3,018	3,433	1,988
Male	2,411	130	123	17.5	1,194	1,447	964
Female	3,010	86	76	8.2	1,824	1,986	1,024
Motor Vehicle Accidents	428	3	4	2.1	331	338	90
Male	301	2	3	2.1	232	237	64
Female	127	1	1	2.0	99	101	26
All Other Accidents and Adverse Effects	1,040	34	29	10.1	562	625	415
Male	590	19	16	10.0	315	350	240
Female	450	15	13	10.2	247	275	175
Suicide	512	2	2	1.0	410	414	98
Male	401	2	1	0.9	323	326	75
Female	111	0	1	1.1	87	88	23
Homicide	148	1	1	1.5	135	137	11
Male	114	1	1	1.9	103	105	9
Female	34	0	0	0.0	32	32	2
All Other External Causes	32	1	1	9.5	19	21	11
Male	21	0	0	0.0	13	13	8
Female	11	1	1	25.0	6	8	3

* 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, 2016

Cause of Death * and Sex of Decedent	Total	Age-Group											
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	n.s.
All Causes	26,129	223	35	66	291	448	618	1,422	3,353	4,575	6,189	8,908	1
Male	13,053	123	18	36	212	318	385	891	2,026	2,572	3,083	3,388	1
Female	13,076	100	17	30	79	130	233	531	1,327	2,003	3,106	5,520	0
Tuberculosis	2	0	0	0	0	0	0	0	1	0	0	1	0
Male	0	0	0	0	0	0	0	0	0	0	0	0	0
Female	2	0	0	0	0	0	0	0	1	0	0	1	0
Syphilis	0	0	0	0	0	0	0	0	0	0	0	0	0
Male	0	0	0	0	0	0	0	0	0	0	0	0	0
Female	0	0	0	0	0	0	0	0	0	0	0	0	0
HIV/AIDS	15	0	0	0	0	2	3	2	4	4	0	0	0
Male	13	0	0	0	0	2	3	2	3	3	0	0	0
Female	2	0	0	0	0	0	0	0	1	1	0	0	0
Cancer of Stomach	78	0	0	0	0	2	0	9	9	18	20	20	0
Male	47	0	0	0	0	1	0	2	7	11	13	13	0
Female	31	0	0	0	0	1	0	7	2	7	7	7	0
Cancer of Colon, Rectum & Anus	495	0	0	0	0	3	11	47	78	121	120	115	0
Male	245	0	0	0	0	3	4	27	42	65	59	45	0
Female	250	0	0	0	0	0	7	20	36	56	61	70	0
Cancer of Pancreas	386	0	0	0	0	0	5	27	84	92	98	80	0
Male	191	0	0	0	0	0	2	18	52	46	42	31	0
Female	195	0	0	0	0	0	3	9	32	46	56	49	0
Cancer of Trachea, Bronchus & Lung	1,361	0	0	0	0	1	6	46	300	440	379	189	0
Male	707	0	0	0	0	1	4	20	169	238	189	86	0
Female	654	0	0	0	0	0	2	26	131	202	190	103	0
Cancer of Breast	405	0	0	0	0	2	14	35	84	96	92	82	0
Male	3	0	0	0	0	0	0	0	1	2	0	0	0
Female	402	0	0	0	0	2	14	35	83	94	92	82	0
Cancer of Cervix, Corpus & Ovary	244	0	0	0	0	3	11	25	56	71	52	26	0
Male	0	0	0	0	0	0	0	0	0	0	0	0	0
Female	244	0	0	0	0	3	11	25	56	71	52	26	0
Cancer of Prostate	254	0	0	0	0	0	0	2	18	61	89	84	0
Male	254	0	0	0	0	0	0	2	18	61	89	84	0
Female	0	0	0	0	0	0	0	0	0	0	0	0	0

Table E22
Deaths from 39 Selected Causes
by Sex by Age-Group of Decedent
Kansas, 2016

Cause of Death * and Sex of Decedent	Total	Age-Group											
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	n.s.
Cancer of Urinary Tract	286	0	0	1	0	1	4	11	52	67	80	70	0
Male	196	0	0	0	0	1	3	8	40	48	54	42	0
Female	90	0	0	1	0	0	1	3	12	19	26	28	0
Non-Hodgkin's Lymphoma	207	0	0	2	0	3	2	15	24	43	54	64	0
Male	102	0	0	1	0	1	2	13	11	22	27	25	0
Female	105	0	0	1	0	2	0	2	13	21	27	39	0
Leukemia	223	0	2	2	1	1	2	9	24	43	75	64	0
Male	125	0	2	0	1	1	2	7	12	23	44	33	0
Female	98	0	0	2	0	0	0	2	12	20	31	31	0
Other Malignant Neoplasms	1,521	0	1	8	2	18	33	115	344	398	351	251	0
Male	941	0	1	4	2	11	20	80	249	253	191	130	0
Female	580	0	0	4	0	7	13	35	95	145	160	121	0
Diabetes mellitus	725	0	0	1	2	13	18	58	143	159	172	159	0
Male	404	0	0	1	1	10	14	35	91	94	91	67	0
Female	321	0	0	0	1	3	4	23	52	65	81	92	0
Alzheimer's Disease	853	0	0	0	0	0	0	1	16	41	220	575	0
Male	260	0	0	0	0	0	0	1	8	12	87	152	0
Female	593	0	0	0	0	0	0	0	8	29	133	423	0
Hypertensive Heart Disease	290	0	0	0	0	1	1	13	33	36	73	133	0
Male	138	0	0	0	0	1	0	8	22	30	33	44	0
Female	152	0	0	0	0	0	1	5	11	6	40	89	0
Ischemic Heart Disease	3,103	0	0	0	0	3	34	154	454	585	772	1,100	1
Male	1,847	0	0	0	0	3	21	119	338	400	456	509	1
Female	1,256	0	0	0	0	0	13	35	116	185	316	591	0
Other Heart Disease	2,237	3	1	1	7	13	49	92	181	269	478	1,143	0
Male	1,000	0	0	0	5	7	29	58	113	160	229	399	0
Female	1,237	3	1	1	2	6	20	34	68	109	249	744	0
Prim. Hypertension/ Hypertensive Renal Dis. & Sec. Hypertension	222	0	0	0	0	0	2	4	12	42	48	114	0
Male	85	0	0	0	0	0	2	4	7	17	22	33	0
Female	137	0	0	0	0	0	0	0	5	25	26	81	0

Table E22
Deaths from 39 Selected Causes
by Sex by Age-Group of Decedent
Kansas, 2016

Cause of Death * and Sex of Decedent	Total	Age-Group											
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	n.s.
Cerebrovascular Disease	1,355	0	1	3	0	2	17	56	125	188	368	595	0
Male	573	0	0	2	0	2	11	35	73	94	162	194	0
Female	782	0	1	1	0	0	6	21	52	94	206	401	0
Atherosclerosis	385	0	0	0	0	0	0	4	22	34	100	225	0
Male	153	0	0	0	0	0	0	4	12	17	49	71	0
Female	232	0	0	0	0	0	0	0	10	17	51	154	0
Other Disease of Circulatory System	207	0	0	0	0	2	8	7	27	47	49	67	0
Male	121	0	0	0	0	1	5	5	19	31	25	35	0
Female	86	0	0	0	0	1	3	2	8	16	24	32	0
Pneumonia & Influenza	518	0	0	0	2	2	6	9	41	67	121	270	0
Male	241	0	0	0	2	0	2	5	24	39	55	114	0
Female	277	0	0	0	0	2	4	4	17	28	66	156	0
Chronic Lower Respiratory Disease	1,653	1	1	2	2	2	3	46	166	389	598	443	0
Male	788	1	1	0	2	0	2	16	78	203	286	199	0
Female	865	0	0	2	0	2	1	30	88	186	312	244	0
Peptic Ulcer	39	0	0	0	0	0	0	4	13	7	8	7	0
Male	20	0	0	0	0	0	0	3	5	5	6	1	0
Female	19	0	0	0	0	0	0	1	8	2	2	6	0
Chonic Liver Disease & Cirrhosis	316	0	0	0	2	10	23	78	96	68	29	10	0
Male	206	0	0	0	2	10	15	46	65	48	15	5	0
Female	110	0	0	0	0	0	8	32	31	20	14	5	0
Nephritis, Nephrotic Syndrome & Nephrosis	529	0	0	0	0	2	6	21	57	99	129	215	0
Male	257	0	0	0	0	1	3	11	31	52	63	96	0
Female	272	0	0	0	0	1	3	10	26	47	66	119	0
Pregnancy, Childbirth, & the Puerperium	12	0	0	0	3	4	4	1	0	0	0	0	0
Male	0	0	0	0	0	0	0	0	0	0	0	0	0
Female	12	0	0	0	3	4	4	1	0	0	0	0	0
Certain Conditons Originating In the Perinatal Period	104	103	1	0	0	0	0	0	0	0	0	0	0
Male	61	60	1	0	0	0	0	0	0	0	0	0	0
Female	43	43	0	0	0	0	0	0	0	0	0	0	0

Table E22
Deaths from 39 Selected Causes
by Sex by Age-Group of Decedent
Kansas, 2016

Cause of Death * and Sex of Decedent	Total	Age-Group											
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	n.s.
Congenital Anomalies	108	49	1	6	5	2	4	6	19	11	3	2	0
Male	61	25	0	3	3	1	1	5	14	6	1	2	0
Female	47	24	1	3	2	1	3	1	5	5	2	0	0
Sudden Infant Death Syndrome	27	27	0	0	0	0	0	0	0	0	0	0	0
Male	14	14	0	0	0	0	0	0	0	0	0	0	0
Female	13	13	0	0	0	0	0	0	0	0	0	0	0
Symptoms and Abnormal Findings	388	12	3	0	9	12	17	25	38	41	62	169	0
Male	162	8	1	0	5	9	9	18	19	22	22	49	0
Female	226	4	2	0	4	3	8	7	19	19	40	120	0
All Other Diseases	5,421	10	9	11	25	55	84	211	538	847	1,321	2,310	0
Male	2,411	5	3	6	18	30	46	129	304	439	642	789	0
Female	3,010	5	6	5	7	25	38	82	234	408	679	1,521	0
Motor Vehicle Accidents	428	3	2	14	70	74	45	53	62	45	35	25	0
Male	301	2	1	8	44	57	38	38	45	33	21	14	0
Female	127	1	1	6	26	17	7	15	17	12	14	11	0
All Other Accidents and Adverse Effects	1,040	12	12	6	45	68	82	122	132	111	165	285	0
Male	590	6	7	5	36	44	55	84	82	71	87	113	0
Female	450	6	5	1	9	24	27	38	50	40	78	172	0
Suicide	512	0	0	7	71	106	90	86	80	32	27	13	0
Male	401	0	0	6	56	86	68	65	60	24	23	13	0
Female	111	0	0	1	15	20	22	21	20	8	4	0	0
Homicide	148	3	1	2	41	37	27	22	10	3	0	2	0
Male	114	2	1	0	31	33	20	19	5	3	0	0	0
Female	34	1	0	2	10	4	7	3	5	0	0	2	0
All Other External Causes	32	0	0	0	4	4	7	6	10	0	1	0	0
Male	21	0	0	0	4	2	4	4	7	0	0	0	0
Female	11	0	0	0	0	2	3	2	3	0	1	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, 2012-2016

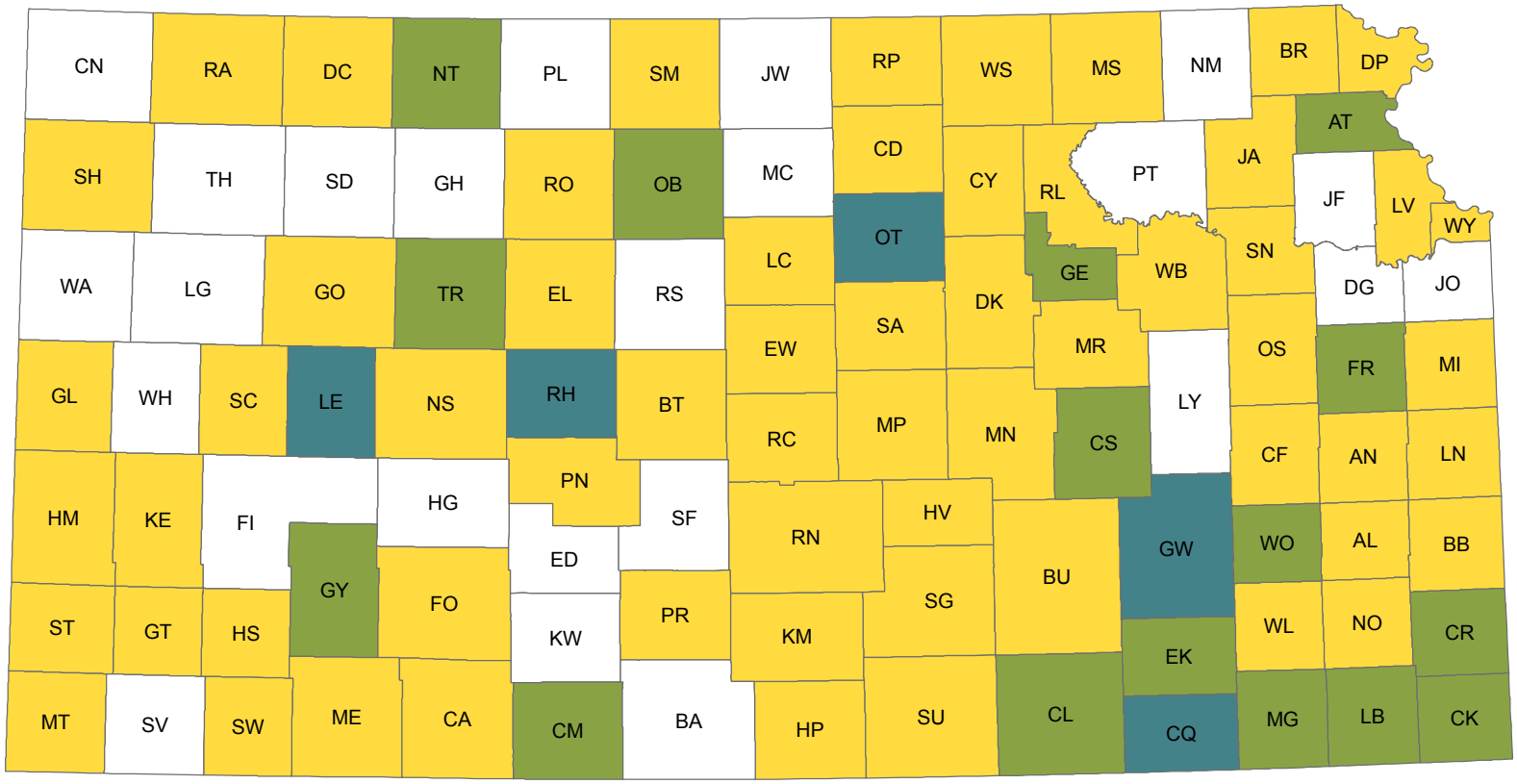
County of Residence	Year 2012 Number	2012 Crude Rate	2012 Age Adj. Rate	2013 Number	2013 Crude Rate	2013 Age Adj. Rate	2014 Number	2014 Crude Rate	2014 Age Adj. Rate	2015 Number	2015 Crude Rate	2015 Age Adj. Rate	2016 Number	2016 Crude Rate	2016 Age Adj. Rate	5-Year Crude Rate	5-Year Age Adj. Rate
Kansas	25,084	869.2	759.0	25,347	875.9	755.6	25,731	886.0	757.4	26,611	914.0	772.5	26,129	898.7	753.5	888.8	759.6
Allen	183	1,374.0	962.6	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	1,373.8	919.2
Anderson	96	1,212.6	762.9	93	1,177.7	775.6	79	1,002.2	665.7	95	1,216.7	766.0	111	1,418.2	844.4	1,205.1	764.9
Atchison	161	957.6	764.3	170	1,015.0	808.9	183	1,108.2	870.4	197	1,201.4	936.3	191	1,166.1	936.3	1,088.7	863.1
Barber	67	1,378.3	928.7	61	1,233.1	887.6	66	1,347.8	870.7	70	1,451.4	929.2	51	1,087.9	674.6	1,300.8	859.8
Barton	307	1,114.1	802.6	261	948.8	696.7	287	1,048.0	743.6	298	1,099.5	788.5	294	1,098.0	772.4	1,061.4	760.2
Bourbon	179	1,201.6	836.4	196	1,319.7	945.8	192	1,299.8	910.6	210	1,427.4	987.9	190	1,299.9	877.0	1,309.4	912.0
Brown	127	1,285.3	909.1	136	1,360.4	926.9	117	1,192.1	808.4	97	992.2	663.5	111	1,146.2	770.5	1,196.3	816.0
Butler	622	944.9	844.8	634	963.5	846.8	606	915.0	796.1	642	961.9	833.4	639	953.4	818.5	947.8	827.5
Chase	29	1,051.9	603.1	34	1,259.3	794.6	41	1,523.0	981.5	28	1,045.2	602.8	44	1,648.6	944.6	1,304.0	784.2
Chautauqua	52	1,456.2	845.3	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	1,582.3	920.9
Cherokee	270	1,272.0	1,034.4	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	1,231.6	954.4
Cheyenne	43	1,605.7	748.3	31	1,150.7	550.9	33	1,225.4	583.1	37	1,381.1	633.9	37	1,390.5	607.6	1,350.2	625.9
Clark	30	1,375.5	804.9	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	1,525.4	873.1
Clay	89	1,043.3	588.1	115	1,368.1	769.4	110	1,322.6	781.0	112	1,341.8	780.1	103	1,264.9	744.3	1,267.2	732.4
Cloud	131	1,394.1	810.3	121	1,302.2	774.8	133	1,417.2	852.6	150	1,627.1	920.0	145	1,584.7	897.0	1,464.2	849.7
Coffey	102	1,199.7	837.6	109	1,295.8	870.4	78	924.9	652.6	105	1,252.4	845.4	96	1,138.4	743.5	1,162.1	788.9
Comanche	23	1,202.3	667.1	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	1,679.4	1,008.5
Cowley	408	1,124.3	878.1	440	1,215.3	945.0	434	1,206.8	894.1	464	1,296.5	956.1	434	1,213.9	907.7	1,211.1	916.3
Crawford	418	1,062.0	869.4	383	975.1	819.2	422	1,074.1	898.5	437	1,114.3	916.4	427	1,090.3	920.3	1,063.1	885.7
Decatur	59	2,055.0	962.2	39	1,331.1	563.6	37	1,272.4	502.3	41	1,398.4	577.9	46	1,624.3	723.3	1,533.9	662.0
Dickinson	260	1,315.7	906.2	224	1,142.3	766.4	219	1,129.2	736.2	259	1,341.8	863.6	241	1,264.2	798.0	1,238.5	814.8
Doniphan	72	915.6	665.2	77	980.8	683.9	76	965.2	724.0	87	1,115.8	758.2	78	1,017.7	713.1	998.7	709.6
Douglas	645	571.5	680.8	650	568.6	664.9	699	599.6	689.6	723	612.4	692.6	650	544.2	619.6	579.1	668.0
Edwards	45	1,510.6	952.9	30	1,018.7	640.6	40	1,320.1	928.1	37	1,246.6	780.8	28	953.0	631.7	1,211.3	783.4
Elk	42	1,544.1	894.6	45	1,694.9	954.1	37	1,373.4	725.9	45	1,727.4	916.7	38	1,492.0	911.5	1,565.7	860.4
Ellis	259	891.5	750.5	246	846.5	687.1	237	816.9	680.6	259	892.2	734.2	258	892.9	774.2	868.0	724.3
Ellsworth	69	1,062.5	679.6	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	1,311.2	820.0
Finney	199	534.9	666.8	217	584.9	752.0	199	535.2	651.5	229	617.0	731.6	210	571.9	667.3	568.7	693.4
Ford	218	627.3	690.3	244	700.8	769.3	229	658.1	702.8	241	697.8	710.5	241	709.4	742.5	678.5	724.0
Franklin	251	968.9	839.1	256	994.6	849.0	256	999.6	843.9	267	1,042.6	855.4	296	1,158.1	953.7	1,032.5	868.5
Geary	198	520.9	820.9	199	532.3	830.2	189	514.8	779.0	218	588.7	900.1	230	646.3	936.8	559.7	852.2
Gove	34	1,245.9	587.2	50	1,805.7	985.9	40	1,466.8	805.9	37	1,401.5	768.7	38	1,467.7	787.2	1,479.1	789.3
Graham	39	1,512.8	938.6	20	771.3	382.3	35	1,364.0	643.4	35	1,350.8	693.1	32	1,248.0	664.9	1,248.8	663.8
Grant	69	870.9	1,047.6	40	503.1	565.6	54	690.9	795.3	53	685.4	726.5	51	667.0	719.1	683.4	765.6
Gray	47	779.4	691.8	44	732.2	641.0	47	772.8	703.3	55	896.8	781.9	68	1,126.9	942.1	861.7	752.2
Greeley	18	1,386.7	685.6	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	1,381.4	829.9
Greenwood	110	1,704.4	1,047.8	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	1,632.9	964.4
Hamilton	33	1,250.5	1,154.9	26	996.6	946.0	23	883.6	971.0	31	1,253.0	1,297.7	19	749.2	822.6	1,026.4	1,036.3
Harper	81	1,370.3	815.2	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	1,454.1	879.2
Harvey	392	1,124.8	742.8	399	1,148.5	759.7	415	1,191.8	800.1	399	1,137.6	732.5	408	1,168.6	753.1	1,154.3	757.4
Haskell	19	446.4	485.0	31	748.6	763.9	26	633.2	618.4	30	738.2	723.9	29	723.9	742.9	656.2	659.9
Hodgeman	11	560.4	353.4	20	1,025.6	568.5	20	1,043.8	530.1	22	1,162.2	808.5	22	1,176.5	594.7	990.4	561.9
Jackson	120	892.3	687.4	125	935.2	710.6	123	908.5	682.7	158	1,184.6	883.9	129	970.6	767.5	977.9	745.2
Jefferson	190	1,002.9	811.6	169	898.3	712.8	185	981.2	732.1	201	1,061.8	797.9	178	941.9	692.8	977.3	748.7
Jewell	40	1,313.2	601.0	43	1,411.7	715.8	45	1,478.8	642.2	36	1,212.1	636.0	35	1,206.5	565.0	1,326.1	633.5
Johnson	3,546	633.3	623.7	3,714	655.1	629.3	3,649	635.4	599.0	3,858	665.0	620.4	3,735	639.1	586.0	645.6	611.2
Kearny	46	1,159.3	1,000.2	50	1,274.5	1,089.1	31	791.8	649.2	35	884.7	789.9	35	893.5	803.0	1,001.1	864.5
Kingman	108	1,373.5	850.9	99	1,262.1	725.3	104	1,351.0	778.9	95	1,235.9	785.6	102	1,366.0	806.9	1,317.5	787.8
Kiowa	29	1,161.9	686.8	30	1,189.1	750.5	32	1,273.4	747.4	17	663.0	404.2	20	805.5	487.0	1,017.6	614.6
Labette	280	1,315.5	946.6	260	1,243.1	908.9	273	1,302.5	930.2	254	1,221.0	866.6	285	1,394.1	979.1	1,294.9	926.0
Lane	23	1,349.8	807.1	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	1,497.0	863.4
Leavenworth	557	716.5	733.5	564	721.4	733.7	556	705.6	701.3	612	771.6	753.9	655	816.7	785.9	746.8	742.5
Lincoln	35	1,102.7	639.1	31	985.1	499.0	36	1,136.7	575.7	37	1,191.6	741.8	37	1,204.0	709.1	1,123.5	627.7
Linn	127	1,345.2	911.1	114	1,198.0	880.9	105	1,105.0	752.1	104	1,090.6	772.6	119	1,245.0	844.4	1,196.6	833.3
Logan	34	1,221.3	661.6	41	1,465.3	816.8	50	1,789.5	971.2	34	1,203.5	662.1	22	777.1	420.4	1,289.9	710.0

Table E23
Deaths by County of Residence and Peer Group*
by Number, Crude† and Age-Adjusted Rate‡
Kansas, 2012-2016

County of Residence	Year 2012 Number	2012 Crude Rate	2012 Age Adj. Rate	2013 Number	2013 Crude Rate	2013 Age Adj. Rate	2014 Number	2014 Crude Rate	2014 Age Adj. Rate	2015 Number	2015 Crude Rate	2015 Age Adj. Rate	2016 Number	2016 Crude Rate	2016 Age Adj. Rate	5-Year Crude Rate	5-Year Age Adj. Rate
Lyon	256	758.6	701.6	295	880.3	803.1	273	822.0	731.0	300	899.8	789.6	252	752.0	646.9	822.4	733.7
McPherson	364	1,240.0	753.7	380	1,285.1	784.3	411	1,405.6	821.2	380	1,313.0	787.3	351	1,218.6	729.9	1,292.6	775.4
Marion	153	1,239.2	681.7	166	1,358.5	757.5	169	1,384.3	767.4	184	1,520.3	811.9	166	1,370.5	769.1	1,374.0	757.4
Marshall	140	1,396.9	746.2	121	1,209.8	651.8	129	1,289.2	784.3	120	1,207.7	636.0	128	1,301.3	705.9	1,281.1	705.4
Meade	43	978.2	638.8	55	1,266.4	757.6	42	964.0	669.3	48	1,108.5	709.3	52	1,233.4	856.8	1,109.0	721.8
Miami	236	723.7	641.5	253	770.5	657.1	309	941.4	781.1	321	986.1	815.3	303	919.2	755.9	868.2	732.6
Mitchell	99	1,557.8	871.5	96	1,505.2	935.7	73	1,161.7	631.1	83	1,321.2	693.1	67	1,073.2	546.1	1,325.2	734.9
Montgomery	439	1,274.0	926.9	400	1,166.5	824.1	424	1,244.7	910.5	458	1,374.8	974.5	459	1,401.7	994.2	1,290.9	926.0
Morris	80	1,366.6	817.3	68	1,184.5	608.2	69	1,211.0	672.7	89	1,576.6	852.5	81	1,453.4	717.3	1,357.4	737.1
Morton	26	820.4	528.9	42	1,336.3	952.5	37	1,189.7	875.8	40	1,330.2	931.5	31	1,088.5	738.4	1,152.1	807.3
Nemaha	130	1,283.1	669.8	134	1,318.8	728.1	130	1,281.0	714.7	117	1,144.0	578.7	120	1,171.8	676.9	1,239.5	673.0
Neosho	187	1,139.8	784.7	197	1,199.0	840.2	215	1,309.7	915.5	190	1,162.4	803.6	202	1,251.1	826.5	1,212.3	834.3
Ness	38	1,238.6	678.0	48	1,562.0	918.0	51	1,642.5	798.1	47	1,564.1	802.7	43	1,451.7	721.3	1,492.1	774.3
Norton	57	1,015.7	644.5	61	1,085.0	737.0	63	1,133.1	699.8	62	1,117.1	649.1	81	1,474.6	947.3	1,163.9	734.9
Osage	169	1,047.0	763.5	189	1,170.9	865.3	196	1,229.9	890.3	226	1,426.1	999.0	187	1,180.3	844.4	1,210.1	872.4
Osborne	63	1,655.3	863.8	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	1,791.0	921.2
Ottawa	67	1,103.4	841.6	70	1,158.6	877.1	60	989.3	728.0	77	1,288.7	896.8	85	1,435.8	1,028.9	1,193.7	875.4
Pawnee	77	1,111.4	754.7	72	1,032.9	686.2	94	1,359.2	924.3	77	1,126.1	773.9	81	1,201.2	757.4	1,165.8	780.3
Phillips	67	1,214.0	704.7	74	1,335.7	918.4	75	1,355.5	824.3	70	1,289.6	723.8	64	1,179.1	672.6	1,275.1	769.6
Pottawatomie	165	739.8	694.7	176	775.6	737.0	199	869.1	817.5	194	832.7	791.1	164	693.1	641.4	781.9	735.3
Pratt	113	1,161.6	760.4	135	1,366.7	922.9	110	1,116.8	724.3	119	1,227.9	821.5	126	1,314.7	887.2	1,237.4	824.2
Rawlins	33	1,289.1	627.3	50	1,931.2	889.4	37	1,431.9	577.1	43	1,715.9	887.3	41	1,608.5	701.8	1,595.2	737.3
Reno	763	1,184.1	841.1	772	1,202.7	822.9	762	1,194.5	829.1	743	1,166.1	807.3	722	1,142.0	786.1	1,178.0	817.1
Republic	92	1,893.8	816.9	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	1,861.5	867.6
Rice	141	1,412.1	989.9	129	1,288.6	918.9	130	1,298.1	954.5	122	1,222.8	890.0	114	1,159.6	844.6	1,276.6	919.1
Riley	314	415.8	602.8	313	415.2	609.6	324	430.9	610.9	339	450.5	622.4	378	515.4	701.7	445.2	628.2
Rooks	65	1,244.5	821.7	62	1,194.6	699.8	73	1,416.1	916.2	63	1,217.6	785.3	66	1,300.2	740.3	1,274.3	791.4
Rush	55	1,708.1	814.4	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	1,709.8	854.3
Russell	103	1,482.9	868.0	84	1,211.6	616.0	90	1,293.8	708.7	85	1,207.6	709.4	81	1,159.1	653.8	1,270.7	713.7
Saline	534	953.8	789.9	544	976.0	778.4	530	950.6	743.2	536	962.5	739.0	518	939.4	727.9	956.5	755.4
Scott	67	1,357.1	934.3	47	933.5	682.9	45	885.8	615.8	40	805.8	547.5	55	1,093.0	721.5	1,014.1	694.8
Sedgwick	4,027	799.2	785.8	4,111	813.4	789.1	4,299	844.9	806.8	4,421	864.2	819.0	4,513	881.5	825.8	840.8	805.5
Seward	136	577.6	746.8	121	517.3	665.4	143	609.4	785.9	128	552.9	677.0	136	598.9	735.3	571.1	722.5
Shawnee	1,751	978.3	797.3	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	1,016.6	802.7
Sheridan	32	1,260.8	742.1	23	900.9	579.5	37	1,457.3	919.7	32	1,273.9	612.8	30	1,195.7	575.5	1,217.3	685.7
Sherman	63	1,030.6	727.6	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	1,201.9	825.6
Smith	63	1,673.3	754.2	68	1,834.9	862.9	76	2,016.4	916.2	52	1,403.9	716.8	70	1,927.3	851.5	1,771.1	821.3
Stafford	57	1,307.9	727.5	54	1,238.8	772.5	60	1,396.3	831.4	66	1,558.1	924.8	40	950.6	609.1	1,290.9	770.9
Stanton	21	965.5	786.6	12	546.9	407.5	25	1,184.3	809.9	17	820.5	543.6	22	1,066.9	743.9	913.9	658.8
Stevens	47	816.5	693.2	45	773.7	658.9	58	999.8	848.1	53	912.8	780.6	45	805.9	695.4	862.2	736.0
Sumner	271	1,144.7	859.1	257	1,089.4	808.0	251	1,066.8	781.1	264	1,121.7	831.3	246	1,057.1	766.3	1,096.1	808.4
Thomas	66	831.1	620.6	81	1,019.1	721.0	75	950.4	724.7	87	1,100.7	821.4	69	874.3	624.3	955.1	705.2
Trego	47	1,574.0	810.9	40	1,342.3	670.2	52	1,791.9	997.2	50	1,708.2	888.1	55	1,915.0	989.3	1,663.6	866.7
Wabaunsee	72	1,022.9	810.2	73	1,035.3	773.8	58	826.0	630.2	68	978.3	746.8	68	986.8	720.6	969.8	734.3
Wallace.	17	1,120.6	624.4	19	1,211.0	803.9	21	1,394.4	694.6	22	1,449.3	625.3	16	1,068.8	487.0	1,248.9	648.3
Washington	71	1,233.1	653.3	73	1,296.9	734.1	60	1,071.8	543.2	79	1,411.2	737.3	75	1,352.3	720.8	1,272.7	676.6
Wichita	26	1,152.5	770.5	29	1,323.0	824.0	23	1,057.0	734.7	25	1,159.0	691.4	22	1,041.7	668.5	1,147.5	736.0
Wilson	138	1,515.7	1,015.2	131	1,438.8	987.8	127	1,406.7	960.3	116	1,309.8	905.4	102	1,169.3	769.3	1,370.0	927.3
Woodson	50	1,525.3	839.2	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	1,662.9	951.9
Wyandotte	1,351	849.0	914.0	1,367	852.3	907.9	1,352	836.4	896.5	1,358	831.2	886.0	1,348	822.8	875.4	838.3	895.5
n.s.	0	n/a	n/a	0	n/a	n/a	1	n/a	n/a	2	n/a	n/a	2	n/a	n/a	n/a	n/a
Peer Group																	
Frontier	1,491	1,325.2	771.1	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	1,358.1	784.9
Rural	2,895	1,225.0	784.6	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	1,217.8	779.3
Densely -Settled Rural	4,654	974.5	800.1	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	1,001.7	803.5
Semi-Urban	4,167	892.4	792.9	4,153	892.4	779.8	4,237	912.6	774.5	4,360	939.3	804.0	4,380	952.9	808.9	917.8	795.4
Urban	11,877	745.8	731.9	12,120	755.6	729.7	12,420	767.4	714.4	12,851	787.8	741.9	12,771	779.6	725.1	767.4	731.6

* 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, 2016



Deaths per 100,000 Population, Age Adjusted

State Rate: 753.5

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, 2016

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	26,129	223	35	66	291	448	618	1,422	3,353	4,575	6,189	8,908	1	74.2
Allen	155	0	0	0	1	2	5	3	19	32	45	48	0	75.5
Anderson	111	0	0	1	2	0	3	1	10	20	21	53	0	78.9
Atchison	191	1	1	0	1	2	9	11	22	41	44	59	0	73.4
Barber	51	0	0	0	1	1	0	3	6	8	10	22	0	76.9
Barton	294	0	0	0	4	8	6	17	34	41	76	108	0	75.5
Bourbon	190	1	0	1	0	1	2	8	21	34	48	74	0	77.2
Brown	111	1	0	1	0	2	0	9	11	14	26	47	0	76.5
Butler	639	3	0	1	6	8	22	34	100	122	153	190	0	73.3
Chase	44	0	0	0	0	1	0	3	4	13	5	18	0	76.5
Chautauqua	59	0	0	0	1	0	4	5	5	6	22	16	0	74.7
Cherokee	248	0	2	0	2	3	4	18	34	53	60	72	0	73.8
Cheyenne	37	0	0	0	0	0	0	2	4	4	6	21	0	81.6
Clark	29	0	0	0	0	1	0	3	5	5	7	8	0	73.9
Clay	103	2	0	0	0	2	3	6	10	15	18	47	0	75.6
Cloud	145	1	0	0	1	1	0	3	13	27	42	57	0	78.8
Coffey	96	0	0	0	0	1	1	6	12	23	20	33	0	75.7
Comanche	28	1	0	0	0	0	1	0	7	3	11	5	0	72.0
Cowley	434	0	0	0	6	6	10	22	67	74	117	132	0	74.5
Crawford	427	4	0	0	3	4	8	22	42	85	120	139	0	75.5
Decatur	46	0	0	0	0	0	1	0	5	7	16	17	0	78.5
Dickinson	241	2	2	1	2	0	5	8	26	36	57	102	0	77.0
Doniphan	78	0	0	0	0	1	1	3	7	20	22	24	0	76.7
Douglas	650	8	1	1	9	12	21	34	67	100	155	241	1	74.5
Edwards	28	0	0	0	1	1	0	1	1	8	2	14	0	77.3
Elk	38	2	0	1	0	1	1	2	3	9	11	8	0	67.8
Ellis	258	3	1	0	1	4	12	14	27	35	71	90	0	74.6
Ellsworth	86	0	0	0	0	2	3	3	10	12	24	32	0	77.0
Finney	210	2	0	0	6	3	4	20	28	28	50	69	0	72.1
Ford	241	3	0	0	3	9	2	10	20	52	58	84	0	74.7
Franklin	296	2	1	2	0	4	9	12	41	61	66	98	0	74.4
Geary	230	3	1	3	8	9	6	8	45	44	48	55	0	67.9
Gove	38	1	0	0	0	1	1	1	3	3	10	18	0	77.1
Graham	32	0	0	0	0	0	0	3	0	8	11	10	0	77.5
Grant	51	0	0	0	0	0	0	3	5	9	21	13	0	76.4
Gray	68	0	0	0	0	3	3	3	8	9	16	26	0	74.9
Greeley	15	0	0	0	0	0	0	2	0	2	5	6	0	79.1
Greenwood	109	0	0	1	0	1	4	3	14	16	39	31	0	75.6
Hamilton	19	1	0	0	1	0	0	2	1	2	5	7	0	69.3
Harper	83	0	0	0	0	2	1	4	12	16	25	23	0	74.9
Harvey	408	4	0	0	2	4	8	17	46	68	80	179	0	77.3
Haskell	29	1	0	0	0	0	1	2	1	1	13	10	0	76.3
Hodgeman	22	1	0	0	0	0	0	0	1	3	6	11	0	79.7
Jackson	129	3	0	1	2	2	7	7	9	24	28	46	0	72.6
Jefferson	178	0	0	0	4	1	3	11	29	36	47	47	0	73.1
Jewell	35	1	0	0	1	0	0	1	0	7	10	15	0	76.6
Johnson	3,735	26	4	6	45	52	72	150	387	600	866	1,527	0	76.7
Kearny	35	0	0	0	2	1	1	2	7	7	3	12	0	69.9
Kingman	102	0	0	0	0	1	4	6	8	18	24	41	0	77.2
Kiowa	20	0	0	0	0	0	0	1	3	2	7	7	0	79.2
Labette	285	4	0	0	2	3	5	24	42	58	56	91	0	73.6
Lane	32	0	0	0	0	0	0	3	6	4	5	14	0	77.1
Leavenworth	655	6	1	5	10	11	15	36	99	138	147	187	0	72.0
Lincoln	37	0	0	0	0	1	0	2	10	3	10	11	0	73.6
Linn	119	1	0	0	0	4	1	3	21	24	32	33	0	74.2
Logan	22	0	0	0	0	0	0	0	4	2	6	10	0	80.3

Table E24
Deaths by County of Residence and Peer Group*
by Age-Group and Average Age at Death
Kansas, 2016

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	252	2	0	0	2	5	4	16	30	40	52	101	0	75.7
McPherson	351	1	1	2	1	4	5	13	34	52	83	155	0	78.1
Marion	166	1	0	0	0	2	2	6	24	22	44	65	0	77.8
Marshall	128	1	0	0	1	0	2	3	10	22	32	57	0	79.2
Meade	52	1	0	1	0	1	3	4	3	5	12	22	0	73.5
Miami	303	2	0	1	4	5	9	17	33	43	84	105	0	74.6
Mitchell	67	0	1	0	0	0	1	1	6	12	12	34	0	79.7
Montgomery	459	4	0	2	2	6	13	25	57	89	117	144	0	74.0
Morris	81	0	0	1	0	0	0	2	3	18	22	35	0	79.6
Morton	31	0	0	0	0	0	1	1	3	6	14	6	0	75.3
Nemaha	120	1	0	0	0	2	3	4	11	14	32	53	0	78.2
Neosho	202	0	1	0	1	0	5	6	30	34	48	77	0	76.5
Ness	43	0	0	1	1	1	0	0	2	6	13	19	0	78.0
Norton	81	1	0	0	2	1	3	0	14	9	24	27	0	74.8
Osage	187	2	0	0	1	4	4	13	31	30	39	63	0	73.7
Osborne	66	0	0	0	0	0	2	2	6	11	17	28	0	80.2
Ottawa	85	0	0	2	1	1	3	2	12	17	18	29	0	74.2
Pawnee	81	0	0	0	0	1	2	3	10	18	23	24	0	75.7
Phillips	64	0	0	0	0	0	1	2	3	11	16	31	0	81.7
Pottawatomie	164	1	0	0	0	3	3	10	28	31	45	43	0	74.2
Pratt	126	0	0	0	0	2	3	7	12	20	39	43	0	76.5
Rawlins	41	0	0	0	0	1	0	0	7	8	7	18	0	77.9
Reno	722	4	0	0	3	4	10	46	80	137	203	235	0	75.8
Republic	81	1	0	0	1	0	1	3	3	11	20	41	0	80.2
Rice	114	0	0	0	6	3	3	6	22	16	28	30	0	70.4
Riley	378	5	0	0	4	12	3	17	45	47	105	140	0	75.6
Rooks	66	0	0	1	0	0	0	2	9	8	18	28	0	79.3
Rush	65	1	0	0	0	1	2	1	9	7	16	28	0	77.2
Russell	81	0	0	0	1	0	2	3	10	18	14	33	0	76.1
Saline	518	4	2	2	5	10	10	43	66	99	121	156	0	72.6
Scott	55	0	0	0	0	1	2	3	7	2	15	25	0	78.1
Sedgwick	4,513	60	11	12	62	108	128	306	682	831	989	1,324	0	71.5
Seward	136	2	0	0	3	5	10	9	15	17	25	50	0	71.2
Shawnee	1,870	21	1	5	24	40	37	111	265	346	419	601	0	73.0
Sheridan	30	0	0	0	0	0	0	0	5	4	10	11	0	79.4
Sherman	66	0	0	0	4	1	4	2	8	9	14	24	0	72.3
Smith	70	0	0	1	0	0	1	2	6	14	12	34	0	79.6
Stafford	40	0	0	0	0	0	2	4	3	6	10	15	0	76.2
Stanton	22	0	1	0	0	0	0	2	4	1	7	7	0	74.1
Stevens	45	0	1	0	1	1	1	2	7	7	11	14	0	72.9
Sumner	246	0	0	2	3	5	3	16	28	50	59	80	0	74.4
Thomas	69	2	0	0	3	0	1	0	6	12	17	28	0	74.9
Trego	55	0	0	1	0	0	1	1	6	13	11	22	0	77.6
Wabaunsee	68	0	0	1	1	1	1	4	10	17	21	12	0	71.5
Wallace	16	0	0	0	0	0	0	0	0	0	6	10	0	86.6
Washington	75	1	0	0	1	0	0	4	6	16	18	29	0	77.7
Wichita	22	0	0	0	0	1	0	0	3	1	9	8	0	78.1
Wilson	102	0	0	0	0	1	3	7	13	19	22	37	0	75.2
Woodson	52	0	0	0	0	0	2	4	5	8	12	21	0	78.1
Wyandotte	1,348	17	2	6	26	39	53	109	239	248	281	328	0	68.8
n.s.	2	0	0	0	0	0	0	1	0	1	0	0	0	.
Peer Group														
Frontier	1,461	9	1	7	12	15	29	60	163	221	383	561	0	76.5
Rural	2,845	14	2	6	21	34	56	115	315	477	722	1,083	0	76.6
Densely -Settled Rural	4,670	27	8	7	45	71	109	259	581	818	1,130	1,615	0	74.8
Semi-Urban	4,380	35	4	11	37	66	98	241	555	795	1,097	1,441	0	74.4
Urban	12,771	138	20	35	176	262	326	746	1,739	2,263	2,857	4,208	1	73.1

* See Technical Notes for Peer Group definition.

Table E25
Deaths by County of Residence and Peer Group*
by Population Group
Kansas, 2016

County of Residence	Total	Population Group						
		White Non-Hispanic	Black Non-Hispanic	Native American Non-Hispanic	Asian/Pacific Islander Non-Hispanic	Other Non-Hispanic†	Hispanic Any Race	n.s.
Kansas	26,129	23,217	1,366	171	202	316	799	58
Allen	155	151	3	0	0	0	1	0
Anderson	111	108	0	0	0	2	1	0
Atchison	191	176	11	2	0	0	2	0
Barber	51	51	0	0	0	0	0	0
Barton	294	278	2	0	0	2	12	0
Bourbon	190	179	9	0	1	0	0	1
Brown	111	100	3	6	0	0	2	0
Butler	639	588	5	4	2	28	12	0
Chase	44	41	0	1	0	2	0	0
Chautauqua	59	57	1	0	0	0	1	0
Cherokee	248	242	0	2	0	3	1	0
Cheyenne	37	37	0	0	0	0	0	0
Clark	29	28	0	0	0	0	1	0
Clay	103	103	0	0	0	0	0	0
Cloud	145	144	0	0	0	0	1	0
Coffey	96	96	0	0	0	0	0	0
Comanche	28	26	0	1	0	0	1	0
Cowley	434	392	9	6	2	10	14	1
Crawford	427	419	4	1	1	1	1	0
Decatur	46	45	0	0	0	1	0	0
Dickinson	241	235	2	1	0	1	2	0
Doniphan	78	77	1	0	0	0	0	0
Douglas	650	592	22	11	13	3	8	1
Edwards	28	27	0	0	0	0	1	0
Elk	38	36	0	0	0	1	1	0
Ellis	258	252	3	0	0	0	3	0
Ellsworth	86	81	0	0	0	1	4	0
Finney	210	161	3	2	3	2	39	0
Ford	241	205	1	0	5	1	29	0
Franklin	296	283	1	5	0	2	5	0
Geary	230	163	38	0	12	5	12	0
Gove	38	38	0	0	0	0	0	0
Graham	32	32	0	0	0	0	0	0
Grant	51	47	0	0	0	0	4	0
Gray	68	67	0	0	0	0	1	0
Greeley	15	14	0	0	0	1	0	0
Greenwood	109	106	0	2	0	0	1	0
Hamilton	19	17	0	0	0	0	2	0
Harper	83	80	0	0	1	1	1	0
Harvey	408	376	6	0	1	2	21	2
Haskell	29	26	0	0	0	1	2	0
Hodgeman	22	22	0	0	0	0	0	0
Jackson	129	112	4	11	0	1	1	0
Jefferson	178	175	0	1	0	1	1	0
Jewell	35	34	0	0	0	1	0	0
Johnson	3,735	3,432	112	9	53	47	82	0
Kearny	35	29	0	0	0	2	3	1
Kingman	102	100	0	0	1	1	0	0
Kiowa	20	20	0	0	0	0	0	0
Labette	285	258	15	5	1	3	3	0
Lane	32	30	0	0	0	1	1	0
Leavenworth	655	584	45	1	5	7	12	1
Lincoln	37	37	0	0	0	0	0	0
Linn	119	119	0	0	0	0	0	0
Logan	22	22	0	0	0	0	0	0

Table E25
Deaths by County of Residence and Peer Group*
by Population Group
Kansas, 2016

County of Residence	Total	Population Group						
		White Non-Hispanic	Black Non-Hispanic	Native American Non-Hispanic	Asian/Pacific Islander Non-Hispanic	Other Non-Hispanic†	Hispanic Any Race	n.s.
Lyon	252	235	3	1	0	4	9	0
McPherson	351	339	0	3	1	2	5	1
Marion	166	163	2	0	0	1	0	0
Marshall	128	126	0	0	0	1	1	0
Meade	52	49	0	0	1	2	0	0
Miami	303	288	6	2	2	2	3	0
Mitchell	67	67	0	0	0	0	0	0
Montgomery	459	425	16	4	0	7	7	0
Morris	81	76	0	0	0	4	1	0
Morton	31	30	0	0	0	0	1	0
Nemaha	120	116	0	1	0	1	2	0
Neosho	202	195	1	1	1	0	4	0
Ness	43	43	0	0	0	0	0	0
Norton	81	79	0	0	0	0	2	0
Osage	187	186	0	0	0	0	1	0
Osborne	66	66	0	0	0	0	0	0
Ottawa	85	85	0	0	0	0	0	0
Pawnee	81	75	4	0	0	0	2	0
Phillips	64	64	0	0	0	0	0	0
Pottawatomie	164	153	4	2	0	0	5	0
Pratt	126	121	2	0	0	0	3	0
Rawlins	41	41	0	0	0	0	0	0
Reno	722	654	19	14	0	15	20	0
Republic	81	81	0	0	0	0	0	0
Rice	114	106	3	0	0	0	5	0
Riley	378	338	19	0	4	6	11	0
Rooks	66	64	1	1	0	0	0	0
Rush	65	63	0	1	0	1	0	0
Russell	81	80	0	0	0	0	1	0
Saline	518	477	7	2	12	4	15	1
Scott	55	54	0	0	0	0	1	0
Sedgwick	4,513	3,728	402	34	59	74	186	30
Seward	136	107	4	2	2	0	21	0
Shawnee	1,870	1,559	170	25	5	34	64	13
Sheridan	30	30	0	0	0	0	0	0
Sherman	66	64	0	0	0	0	2	0
Smith	70	69	1	0	0	0	0	0
Stafford	40	35	0	0	0	1	4	0
Stanton	22	19	0	0	0	0	3	0
Stevens	45	40	1	1	0	0	3	0
Sumner	246	230	0	3	0	4	9	0
Thomas	69	66	0	0	0	1	2	0
Trego	55	55	0	0	0	0	0	0
Wabaunsee	68	68	0	0	0	0	0	0
Wallace	16	16	0	0	0	0	0	0
Washington	75	74	0	0	0	1	0	0
Wichita	22	19	0	0	0	0	3	0
Wilson	102	101	1	0	0	0	0	0
Woodson	52	51	1	0	0	0	0	0
Wyandotte	1,348	795	399	3	14	17	114	6
n.s.	2	2	0	0	0	0	0	0
Peer Group								
Frontier	1,461	1,412	3	6	1	13	25	1
Rural	2,845	2,764	17	8	2	15	39	0
Densely -Settled Rural	4,670	4,338	75	42	16	34	162	3
Semi-Urban	4,380	4,011	121	32	34	72	107	3
Urban	12,771	10,690	1,150	83	149	182	466	51

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

Table E26
Deaths by County of Residence and Peer Group *
by Number and Percent Related to Tobacco
Kansas, 2016

County of Residence	Did Tobacco Use Contribute to this death?				Total Deaths	Yes + Probably as Percent of Known
	Yes	Probably	No	Unknown		
Kansas	2,554	1,580	12,148	9,847	26,129	25.4
Allen	17	10	53	75	155	33.8
Anderson	14	5	60	32	111	24.1
Atchison	21	9	87	74	191	25.6
Barber	4	0	24	23	51	14.3
Barton	24	25	125	120	294	28.2
Bourbon	17	10	126	37	190	17.6
Brown	12	5	64	30	111	21.0
Butler	46	46	213	334	639	30.2
Chase	6	3	25	10	44	26.5
Chautauqua	5	1	28	25	59	17.6
Cherokee	37	14	83	114	248	38.1
Cheyenne	4	3	22	8	37	24.1
Clark	7	2	12	8	29	42.9
Clay	11	3	61	28	103	18.7
Cloud	15	10	86	34	145	22.5
Coffey	12	6	55	23	96	24.7
Comanche	2	2	17	7	28	19.0
Cowley	42	24	182	186	434	26.6
Crawford	37	26	189	175	427	25.0
Decatur	2	5	22	17	46	24.1
Dickinson	29	12	123	77	241	25.0
Doniphan	10	3	36	29	78	26.5
Douglas	60	35	286	269	650	24.9
Edwards	4	7	10	7	28	52.4
Elk	4	3	14	17	38	33.3
Ellis	24	14	124	96	258	23.5
Ellsworth	17	4	41	24	86	33.9
Finney	19	12	115	64	210	21.2
Ford	33	14	87	107	241	35.1
Franklin	41	33	132	90	296	35.9
Geary	45	18	107	60	230	37.1
Gove	6	3	24	5	38	27.3
Graham	5	4	11	12	32	45.0
Grant	2	3	23	23	51	17.9
Gray	1	4	40	23	68	11.1
Greeley	5	0	9	1	15	35.7
Greenwood	11	8	48	42	109	28.4
Hamilton	1	2	12	4	19	20.0
Harper	7	3	33	40	83	23.3
Harvey	37	20	227	124	408	20.1
Haskell	6	1	18	4	29	28.0
Hodgeman	3	1	10	8	22	28.6
Jackson	14	6	65	44	129	23.5
Jefferson	30	12	50	86	178	45.7
Jewell	1	2	16	16	35	15.8
Johnson	268	207	1,993	1,267	3,735	19.2
Kearny	5	2	24	4	35	22.6
Kingman	6	5	51	40	102	17.7
Kiowa	1	1	11	7	20	15.4
Labette	39	6	116	124	285	28.0
Lane	1	0	20	11	32	4.8
Leavenworth	77	39	254	285	655	31.4
Lincoln	5	2	12	18	37	36.8
Linn	18	14	58	29	119	35.6
Logan	3	2	15	2	22	25.0

Table E26
Deaths by County of Residence and Peer Group *
by Number and Percent Related to Tobacco
Kansas, 2016

County of Residence	Did Tobacco Use Contribute to this death? Yes	Probably	No	Unknown	Total Deaths	Yes + Probably as Percent of Known
Lyon	30	23	128	71	252	29.3
McPherson	21	24	196	110	351	18.7
Marion	12	9	79	66	166	21.0
Marshall	14	5	56	53	128	25.3
Meade	5	2	38	7	52	15.6
Miami	23	25	152	103	303	24.0
Mitchell	8	2	38	19	67	20.8
Montgomery	35	24	151	249	459	28.1
Morris	18	2	44	17	81	31.3
Morton	6	0	13	12	31	31.6
Nemaha	7	8	57	48	120	20.8
Neosho	29	12	105	56	202	28.1
Ness	4	4	24	11	43	25.0
Norton	20	4	36	21	81	40.0
Osage	29	18	81	59	187	36.7
Osborne	7	4	35	20	66	23.9
Ottawa	7	8	40	30	85	27.3
Pawnee	14	6	32	29	81	38.5
Phillips	8	4	27	25	64	30.8
Pottawatomie	30	4	79	51	164	30.1
Pratt	9	18	51	48	126	34.6
Rawlins	5	0	12	24	41	29.4
Reno	72	29	307	314	722	24.8
Republic	4	1	41	35	81	10.9
Rice	11	4	62	37	114	19.5
Riley	44	13	202	119	378	22.0
Rooks	9	4	40	13	66	24.5
Rush	8	2	29	26	65	25.6
Russell	10	6	35	30	81	31.4
Saline	59	39	201	219	518	32.8
Scott	4	6	22	23	55	31.3
Sedgwick	334	283	1,928	1,968	4,513	24.2
Seward	12	6	59	59	136	23.4
Shawnee	235	135	961	539	1,870	27.8
Sheridan	5	2	14	9	30	33.3
Sherman	10	8	35	13	66	34.0
Smith.	8	5	50	7	70	20.6
Stafford	1	2	16	21	40	15.8
Stanton	0	1	17	4	22	5.6
Stevens	7	1	30	7	45	21.1
Sumner	19	17	104	106	246	25.7
Thomas	10	5	39	15	69	27.8
Trego	4	1	41	9	55	10.9
Wabaunsee	5	4	31	28	68	22.5
Wallace	1	1	11	3	16	15.4
Washington	11	3	50	11	75	21.9
Wichita	3	2	10	7	22	33.3
Wilson	10	7	42	43	102	28.8
Woodson	3	1	24	24	52	14.3
Wyandotte	141	74	523	610	1,348	29.1
n.s.	0	1	1	0	2	n/a
Peer Group						
Frontier	161	91	771	438	1,461	24.6
Rural	313	167	1,426	939	2,845	25.2
Densely -Settled Rural	526	275	2,124	1,745	4,670	27.4
Semi-Urban	439	273	1,881	1,787	4,380	27.5
Urban	1,115	773	5,945	4,938	12,771	24.1

* See Technical Notes for Peer Group definition.

Table E27
Selected Causes of Death by County of Residence and Peer Group
Kansas, 2016

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	26,129	2	549	5,460	1,398	1,398	405	527	286
Allen	155	0	1	30	12	4	2	1	1
Anderson	111	0	5	26	5	8	0	3	3
Atchison	191	0	4	38	9	8	3	5	0
Barber	51	0	4	11	3	4	1	1	0
Barton	294	0	5	46	9	12	4	1	3
Bourbon	190	0	6	31	12	7	2	1	1
Brown	111	0	5	21	7	6	1	2	0
Butler	639	0	18	142	31	51	9	15	7
Chase	44	0	2	10	3	1	1	2	0
Chautauqua	59	0	1	12	2	1	1	1	1
Cherokee	248	0	3	65	13	22	4	6	2
Cheyenne	37	0	3	4	2	0	0	1	1
Clark	29	0	1	5	3	1	1	0	0
Clay	103	0	3	18	4	2	2	1	2
Cloud	145	0	3	24	7	8	0	4	1
Coffey	96	0	3	17	4	5	0	2	0
Comanche	28	0	1	4	1	3	0	0	0
Cowley	434	0	6	87	25	19	6	8	3
Crawford	427	0	8	88	17	28	3	11	6
Decatur	46	0	1	15	3	2	0	1	3
Dickinson	241	0	6	41	10	10	2	3	5
Doniphan	78	0	1	28	6	12	1	0	0
Douglas	650	0	9	131	32	31	8	10	6
Edwards	28	0	0	3	1	0	0	0	0
Elk	38	0	0	9	1	3	0	2	1
Ellis	258	0	3	51	14	9	2	4	3
Ellsworth	86	0	2	16	4	7	2	0	1
Finney	210	0	5	51	16	11	2	3	6
Ford	241	0	5	46	11	14	4	2	1
Franklin	296	0	6	63	13	23	3	3	4
Geary	230	0	2	52	12	19	5	4	2
Gove	38	0	2	6	1	2	0	1	0
Graham	32	0	0	7	0	2	0	1	0
Grant	51	0	0	14	2	2	1	1	1
Gray	68	0	1	13	6	1	2	1	0
Greeley	15	0	0	5	2	2	0	1	0
Greenwood	109	0	2	24	5	9	1	3	0
Hamilton	19	0	0	7	3	1	0	1	0
Harper	83	0	1	19	6	2	1	3	2
Harvey	408	0	13	67	15	16	10	5	2
Haskell	29	0	1	7	3	1	0	2	0
Hodgeman	22	0	1	3	0	2	0	0	1
Jackson	129	0	3	20	5	2	1	2	1
Jefferson	178	0	4	40	8	13	4	4	5
Jewell	35	0	1	8	3	3	1	0	0
Johnson	3,735	0	72	807	189	202	84	85	45
Kearny	35	0	0	8	4	1	2	0	1
Kingman	102	0	0	24	7	2	1	3	2
Kiowa	20	0	0	4	1	3	0	0	0
Labette	285	0	9	47	14	15	4	5	1
Lane	32	0	0	8	1	1	0	0	1
Leavenworth	655	0	10	166	39	48	9	15	7
Lincoln	37	0	1	13	2	4	1	1	3
Linn	119	0	1	24	5	9	0	0	1
Logan	22	0	0	4	0	0	1	1	1

Table E27
Selected Causes of Death by County of Residence and Peer Group
Kansas, 2016

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	252	0	10	52	10	19	2	3	1
McPherson	351	0	7	75	20	16	6	6	7
Marion	166	0	5	39	8	5	7	4	2
Marshall	128	0	1	18	4	2	1	4	2
Meade	52	0	1	14	4	3	0	2	0
Miami	303	0	2	56	12	16	2	10	1
Mitchell	67	0	1	12	3	1	2	1	2
Montgomery	459	0	7	84	19	20	5	9	1
Morris	81	0	0	14	7	3	2	0	1
Morton	31	0	0	7	3	2	0	1	0
Nemaha	120	0	2	28	11	4	1	4	0
Neosho	202	0	4	40	15	12	3	3	3
Ness	43	0	1	7	3	3	1	0	0
Norton	81	0	1	14	1	2	2	2	2
Osage	187	1	0	38	9	10	4	4	3
Osborne	66	0	2	11	1	5	1	1	1
Ottawa	85	0	0	16	6	5	0	0	1
Pawnee	81	0	1	17	8	4	0	2	0
Phillips	64	0	1	13	2	5	1	2	0
Pottawatomie	164	0	7	38	9	10	0	4	1
Pratt	126	0	3	33	10	8	0	1	3
Rawlins	41	0	2	13	7	0	0	2	2
Reno	722	1	15	138	42	37	7	15	4
Republic	81	0	0	14	6	1	3	2	0
Rice	114	0	2	17	6	2	1	3	0
Riley	378	0	8	81	19	20	4	10	2
Rooks	66	0	0	15	3	7	0	1	1
Rush	65	0	1	7	3	3	0	0	0
Russell	81	0	1	17	3	3	4	2	1
Saline	518	0	13	116	31	30	7	14	8
Scott	55	0	1	16	4	4	2	0	2
Sedgwick	4,513	0	123	917	258	209	63	100	45
Seward	136	0	3	24	3	6	3	2	1
Shawnee	1,870	0	32	440	115	115	43	32	21
Sheridan	30	0	1	6	2	0	1	1	0
Sherman	66	0	1	11	2	1	1	2	2
Smith	70	0	0	14	1	5	0	3	0
Stafford	40	0	1	5	0	2	0	0	1
Stanton	22	0	0	3	0	1	0	0	0
Stevens	45	0	2	9	2	2	1	0	0
Sumner	246	0	6	52	15	14	5	5	5
Thomas	69	0	3	10	3	1	0	0	3
Trego	55	0	0	15	5	1	3	0	1
Wabaunsee	68	0	2	19	7	4	3	1	0
Wallace	16	0	1	5	1	1	0	1	0
Washington	75	0	3	9	3	1	1	2	0
Wichita	22	0	0	5	1	0	0	1	0
Wilson	102	0	0	21	0	7	0	5	1
Woodson	52	0	0	10	0	5	1	1	2
Wyandotte	1,348	0	28	295	78	87	20	27	16
n.s.	2	0	0	0	0	0	0	0	0
Peer Group									
Frontier	1,461	0	31	308	77	79	17	32	21
Rural	2,845	0	54	569	154	122	42	58	35
Densely -Settled Rural	4,670	1	98	940	245	245	64	72	53
Semi-Urban	4,380	1	92	887	211	260	55	96	37
Urban	12,771	0	274	2,756	711	692	227	269	140

* 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, 2016

County of Residence	Selected Causes of Death *									
	Leukemia	Other Malignant Neoplasms	Diabetes mellitus	Alzheimer's Disease	Major Cardio-vascular Diseases	Diseases of Heart	Rheumatic Fever and Rheumatic Heart Diseases	Hyperten-sive Heart Disease w, w/out Renal Disease	Ischemic Heart Diseases	Other Heart Diseases
Kansas	223	1,223	725	853	7,799	5,630	33	290	3,103	2,204
Allen	2	8	6	1	57	44	1	3	23	17
Anderson	1	6	1	3	32	26	1	2	13	10
Atchison	3	10	4	6	56	46	0	3	25	18
Barber	0	2	1	0	22	19	0	1	11	7
Barton	1	16	7	12	96	73	0	5	48	20
Bourbon	1	7	6	12	68	50	1	0	24	25
Brown	2	3	2	5	36	26	0	1	18	7
Butler	4	25	9	14	178	131	1	7	66	57
Chase	1	2	2	7	11	7	0	0	6	1
Chautauqua	0	6	3	4	20	15	0	0	12	3
Cherokee	2	16	8	9	82	68	0	6	39	23
Cheyenne	0	0	1	0	16	15	0	0	10	5
Clark	0	0	0	0	9	9	0	0	7	2
Clay	0	7	3	6	24	18	0	1	8	9
Cloud	0	4	4	4	51	35	0	4	12	19
Coffey	0	6	2	9	31	24	1	1	12	10
Comanche	0	0	0	1	7	5	0	0	5	0
Cowley	8	18	10	18	123	96	0	4	56	36
Crawford	3	20	12	34	117	96	0	3	63	30
Decatur	0	6	2	0	16	13	0	0	10	3
Dickinson	2	9	4	6	78	59	1	1	36	21
Doniphan	3	6	3	3	21	17	0	0	10	7
Douglas	3	41	15	28	188	143	0	11	72	60
Edwards	0	2	2	0	13	9	0	1	6	2
Elk	0	2	3	4	5	4	0	0	2	2
Ellis	8	11	7	13	76	47	0	4	23	20
Ellsworth	1	1	6	0	37	30	0	1	16	13
Finney	1	12	8	7	52	35	0	2	24	9
Ford	2	12	9	4	71	60	0	1	42	17
Franklin	2	15	12	12	84	59	0	3	32	24
Geary	1	9	8	6	64	46	0	2	30	14
Gove	0	2	2	0	13	12	0	0	8	4
Graham	2	2	0	0	10	6	0	0	2	4
Grant	1	6	1	4	17	12	0	1	8	3
Gray	0	3	2	0	20	16	0	0	14	2
Greeley	0	0	1	0	1	0	0	0	0	0
Greenwood	0	6	7	3	27	24	0	0	10	14
Hamilton	0	2	1	0	1	1	0	0	0	1
Harper	0	5	4	2	19	15	0	0	10	5
Harvey	1	18	16	23	118	89	1	2	60	26
Haskell	0	1	0	0	11	8	0	1	5	2
Hodgeman	0	0	1	1	8	7	0	0	6	1
Jackson	0	9	0	3	40	28	0	2	12	14
Jefferson	1	5	4	12	57	43	0	2	27	14
Jewell	1	0	2	1	9	6	0	0	3	3
Johnson	37	165	73	105	1,251	743	4	24	361	354
Kearny	0	0	0	1	4	3	1	0	1	1
Kingman	1	8	4	2	35	27	0	1	17	9
Kiowa	0	0	0	1	7	6	0	0	3	3
Labette	0	8	4	9	95	73	1	3	38	31
Lane	1	4	1	1	3	2	0	0	0	2
Leavenworth	13	35	19	22	199	149	1	3	87	58
Lincoln	1	1	1	0	8	8	0	0	4	4
Linn	1	8	1	1	38	30	1	0	19	10
Logan	1	0	0	1	7	7	0	3	1	3

Table E27
Selected Causes of Death by County of Residence and Peer Group
Kansas, 2016

County of Residence	Selected Causes of Death *									
	Leukemia	Other Malignant Neoplasms	Diabetes mellitus	Alzheimer's Disease	Major Cardio-vascular Diseases	Diseases of Heart	Rheumatic Fever and Rheumatic Heart Diseases	Hyperten-sive Heart Disease w, w/out Renal Disease	Ischemic Heart Diseases	Other Heart Diseases
Lyon	3	14	10	15	73	51	2	1	22	26
McPherson	2	18	9	24	98	72	0	2	34	36
Marion	2	11	5	12	46	37	0	3	14	20
Marshall	2	3	3	6	44	32	0	0	18	14
Meade	3	2	6	3	7	5	0	0	3	2
Miami	1	14	7	15	102	78	0	0	40	38
Mitchell	0	3	1	1	21	14	0	0	6	8
Montgomery	4	26	16	13	174	132	1	7	103	21
Morris	0	1	7	6	29	20	0	2	10	8
Morton	1	0	1	0	12	11	0	0	10	1
Nemaha	1	7	6	6	29	24	0	0	10	14
Neosho	1	3	2	5	66	61	0	1	31	29
Ness	0	0	2	1	12	10	0	0	2	8
Norton	2	3	2	0	27	21	0	0	6	15
Osage	1	7	5	6	77	49	0	7	24	18
Osborne	0	2	3	1	20	17	0	0	13	4
Ottawa	0	4	2	4	22	11	0	1	6	4
Pawnee	0	3	4	3	31	24	0	0	12	12
Phillips	0	3	3	2	25	19	0	2	9	8
Pottawatomie	2	12	1	4	43	25	0	1	17	7
Pratt	1	10	3	7	33	23	0	0	15	8
Rawlins	1	1	0	0	11	10	0	0	4	6
Reno	8	25	19	25	186	141	0	4	79	58
Republic	1	1	1	4	18	16	0	1	11	4
Rice	2	3	5	3	39	31	0	2	19	10
Riley	5	21	7	11	108	75	0	8	31	36
Rooks	0	3	1	3	20	14	1	1	5	7
Rush	0	1	2	2	24	15	0	1	7	7
Russell	2	2	2	4	19	12	0	2	7	3
Saline	1	25	12	25	134	85	1	3	41	40
Scott	0	4	1	3	17	12	0	0	9	3
Sedgwick	36	206	131	105	1,250	939	6	44	540	349
Seward	5	4	7	5	42	32	1	0	13	18
Shawnee	12	102	56	58	491	364	1	56	188	119
Sheridan	1	1	1	0	6	5	0	0	4	1
Sherman	0	3	4	2	21	14	0	0	10	4
Smith	1	4	2	0	25	23	0	5	14	4
Stafford	0	2	1	5	12	5	1	0	4	0
Stanton	0	2	1	1	6	6	0	0	4	2
Stevens	0	4	2	0	8	6	0	0	2	4
Sumner	1	7	13	2	74	53	0	2	37	14
Thomas	0	3	1	3	17	15	0	1	8	6
Trego	0	5	1	2	22	19	0	4	9	6
Wabaunsee	1	3	1	4	17	13	0	3	5	5
Wallace	0	2	0	0	5	4	0	1	3	0
Washington	0	2	3	3	30	23	0	0	14	9
Wichita	0	3	0	0	7	5	0	0	4	1
Wilson	0	8	0	0	35	30	0	0	24	6
Woodson	0	1	1	1	16	12	0	1	4	7
Wyandotte	8	59	48	28	408	274	4	15	141	114
n.s.	0	0	0	0	1	1	0	0	0	1
Peer Group										
Frontier	14	68	55	45	427	341	3	17	203	118
Rural	21	137	83	108	874	662	3	31	361	267
Densely -Settled Rural	49	212	127	176	1,445	1,082	7	50	605	420
Semi-Urban	30	198	118	178	1,265	932	4	39	545	344
Urban	109	608	342	346	3,787	2,612	16	153	1,389	1,054

* 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, 2016

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	222	1,355	385	207	518	1,653	39	316	529
Allen	1	7	5	0	4	13	0	1	2
Anderson	1	4	1	0	1	6	0	1	2
Atchison	2	7	0	1	5	19	1	0	9
Barber	0	2	0	1	1	2	1	0	0
Barton	4	15	2	2	8	18	1	8	6
Bourbon	0	14	0	4	8	13	0	2	5
Brown	1	8	1	0	2	11	0	3	3
Butler	5	37	4	1	25	52	3	4	13
Chase	0	4	0	0	1	1	0	1	0
Chautauqua	0	4	0	1	0	5	0	0	3
Cherokee	2	8	1	3	1	12	1	2	6
Cheyenne	0	0	0	1	4	4	0	0	0
Clark	0	0	0	0	0	4	0	2	0
Clay	0	6	0	0	3	6	1	0	2
Cloud	2	13	0	1	4	10	0	1	6
Coffey	0	7	0	0	1	9	0	0	0
Comanche	0	2	0	0	0	0	0	0	1
Cowley	4	21	0	2	12	33	2	8	12
Crawford	1	18	0	2	7	20	1	9	9
Decatur	2	1	0	0	2	1	0	0	1
Dickinson	1	12	2	4	10	18	0	3	7
Doniphan	1	1	1	1	1	7	0	0	2
Douglas	5	31	5	4	13	42	2	6	12
Edwards	0	4	0	0	1	2	0	0	1
Elk	0	0	0	1	1	4	0	0	0
Ellis	0	15	9	5	4	16	0	4	3
Ellsworth	1	5	0	1	1	3	0	2	1
Finney	0	13	0	4	7	15	0	3	2
Ford	3	7	0	1	6	17	1	4	8
Franklin	2	15	5	3	10	23	0	2	7
Geary	1	13	0	4	3	11	1	3	6
Gove	0	1	0	0	0	4	0	0	1
Graham	1	2	1	0	2	3	0	0	0
Grant	2	3	0	0	1	4	0	0	2
Gray	0	4	0	0	1	4	0	1	2
Greeley	0	0	0	1	0	3	0	0	1
Greenwood	0	3	0	0	2	7	0	0	9
Hamilton	0	0	0	0	0	0	0	0	0
Harper	1	1	1	1	1	8	0	2	2
Harvey	3	19	2	5	12	22	1	3	5
Haskell	0	2	0	1	0	4	0	1	0
Hodgeman	0	1	0	0	0	2	0	0	0
Jackson	0	11	0	1	3	8	0	3	4
Jefferson	1	12	0	1	4	16	0	1	0
Jewell	0	2	0	1	1	1	0	0	0
Johnson	25	204	256	23	64	175	5	36	76
Kearny	0	1	0	0	3	3	0	0	3
Kingman	1	7	0	0	3	7	0	1	2
Kiowa	0	1	0	0	1	1	0	0	0
Labette	1	18	0	3	5	19	0	6	13
Lane	0	0	0	1	2	5	0	1	0
Leavenworth	6	33	7	4	4	40	0	8	9
Lincoln	0	0	0	0	2	3	1	1	0
Linn	1	6	1	0	5	9	0	3	4
Logan	0	0	0	0	1	2	0	0	1

Table E27
Selected Causes of Death by County of Residence and Peer Group
Kansas, 2016

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
Lyon	3	16	0	3	5	17	0	5	3
McPherson	5	16	1	4	16	19	0	3	4
Marion	0	8	0	1	4	11	0	3	1
Marshall	0	12	0	0	3	13	0	2	5
Meade	0	1	0	1	1	1	0	2	0
Miami	5	10	8	1	4	22	1	4	3
Mitchell	0	7	0	0	0	4	1	2	1
Montgomery	9	26	3	4	7	28	0	4	8
Morris	3	6	0	0	0	5	0	1	1
Morton	0	0	0	1	2	0	0	0	0
Nemaha	2	2	0	1	2	3	1	1	7
Neosho	0	5	0	0	13	13	0	2	3
Ness	0	1	0	1	1	3	0	0	0
Norton	0	5	0	1	1	7	0	2	1
Osage	2	23	1	2	4	8	1	2	2
Osborne	0	3	0	0	4	3	0	0	0
Ottawa	1	9	0	1	0	5	0	1	1
Pawnee	4	3	0	0	0	5	0	0	4
Phillips	1	1	2	2	0	4	0	1	2
Pottawatomie	0	18	0	0	3	8	0	1	1
Pratt	0	8	0	2	2	11	0	4	2
Rawlins	0	1	0	0	3	2	0	2	1
Reno	5	33	0	7	20	63	2	5	18
Republic	1	1	0	0	3	3	0	0	0
Rice	1	6	0	1	5	6	0	1	4
Riley	6	20	0	7	7	21	0	4	4
Rooks	2	1	2	1	2	5	0	1	3
Rush	0	7	2	0	0	5	0	0	2
Russell	0	5	2	0	1	6	0	1	5
Saline	13	27	8	1	7	41	3	5	10
Scott	0	3	0	2	1	5	0	0	1
Sedgwick	33	233	7	38	67	307	3	69	88
Seward	1	8	1	0	1	6	0	3	2
Shawnee	12	96	3	16	34	113	1	25	28
Sheridan	0	1	0	0	0	5	0	0	1
Sherman	0	7	0	0	1	4	0	1	0
Smith	1	1	0	0	1	2	0	1	0
Stafford	1	5	1	0	0	1	0	1	0
Stanton	0	0	0	0	1	1	0	0	0
Stevens	1	1	0	0	0	3	0	2	0
Sumner	5	13	0	3	6	17	1	1	5
Thomas	0	1	0	1	6	1	0	0	1
Trego	1	1	0	1	1	2	0	1	0
Wabaunsee	0	3	0	1	0	3	0	0	2
Wallace	0	1	0	0	0	0	0	0	0
Washington	1	5	0	1	1	3	1	0	1
Wichita	1	1	0	0	1	1	0	0	2
Wilson	1	3	0	1	4	8	0	0	5
Woodson	0	2	0	2	2	3	1	0	0
Wyandotte	20	64	40	10	8	79	1	17	34
n.s.	0	0	0	0	0	0	0	0	0
Peer Group									
Frontier	9	59	6	12	42	92	2	14	30
Rural	26	157	8	21	58	190	5	36	70
Densely -Settled Rural	36	260	23	44	126	312	8	62	99
Semi-Urban	50	218	30	35	102	303	12	43	83
Urban	101	661	318	95	190	756	12	161	247

* 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, 2016

County of Residence	Selected Causes of Death *								
	Pregnancy, Childbirth and the Puerperium	Congenital Anomalies	Cert. Cond. Origina-ting in the Peri-natal Period	Symptoms, Signs and Abnormal Findings	Motor Vehicle	All Other Accidents and Adverse Effects	Suicide	Homicide	All Other Causes
Kansas	12	108	104	415	428	1,040	512	148	4,919
Allen	0	0	0	5	2	3	1	1	28
Anderson	0	0	0	3	2	7	3	0	19
Atchison	0	0	1	3	0	6	2	0	37
Barber	0	0	0	0	0	1	2	0	6
Barton	0	0	0	0	3	11	7	0	66
Bourbon	0	1	1	3	0	3	1	0	30
Brown	0	0	1	0	3	5	0	0	14
Butler	0	3	0	4	6	25	15	2	126
Chase	0	1	0	0	2	0	0	1	5
Chautauqua	0	0	0	0	1	0	2	0	8
Cherokee	0	2	0	3	4	8	2	0	40
Cheyenne	0	0	0	1	0	0	1	0	3
Clark	1	0	0	0	1	1	1	0	4
Clay	1	0	2	3	0	6	2	0	23
Cloud	0	1	0	3	5	6	1	0	22
Coffey	0	0	0	1	1	4	1	0	17
Comanche	0	2	0	0	0	2	0	0	10
Cowley	0	0	0	9	6	21	5	0	82
Crawford	0	1	3	4	7	9	6	2	90
Decatur	0	0	0	0	0	2	1	0	5
Dickinson	0	0	1	0	2	14	3	1	47
Doniphan	0	0	0	1	1	2	2	0	6
Douglas	0	3	2	4	9	34	14	2	136
Edwards	0	0	0	0	1	1	2	0	2
Elk	0	0	0	3	3	2	0	0	4
Ellis	0	2	2	3	5	15	4	1	49
Ellsworth	0	1	0	1	0	4	1	0	11
Finney	0	0	1	5	4	10	7	1	32
Ford	0	1	1	7	3	11	5	1	41
Franklin	0	2	2	3	5	12	6	1	46
Geary	0	2	2	2	9	10	9	0	40
Gove	1	0	1	0	1	2	1	0	4
Graham	0	0	0	1	0	1	1	0	7
Grant	0	0	0	2	0	2	0	1	3
Gray	0	0	0	0	1	5	2	0	16
Greeley	0	0	0	0	0	0	0	0	4
Greenwood	0	0	0	0	0	8	3	0	17
Hamilton	0	1	0	1	1	1	2	0	4
Harper	0	0	0	1	3	3	1	0	17
Harvey	0	3	1	4	6	22	4	4	84
Haskell	0	0	1	0	0	0	0	0	4
Hodgeman	0	0	0	0	1	2	0	0	3
Jackson	0	0	1	3	4	9	2	0	26
Jefferson	0	0	0	0	4	10	3	0	23
Jewell	0	0	1	6	1	1	1	0	2
Johnson	2	16	14	47	34	137	85	9	727
Kearny	0	0	0	0	3	3	2	0	5
Kingman	0	0	0	2	3	2	2	0	15
Kiowa	0	0	0	1	0	1	0	0	4
Labette	0	1	2	5	3	5	8	1	53
Lane	0	1	0	0	2	1	1	0	6
Leavenworth	0	4	2	6	16	32	14	2	102
Lincoln	0	0	0	0	0	1	0	1	5
Linn	0	1	0	2	2	2	1	2	23
Logan	0	0	0	0	0	1	0	0	5

Table E27
Selected Causes of Death by County of Residence and Peer Group
Kansas, 2016

County of Residence	Selected Causes of Death *								
	Pregnancy, Childbirth and the Puerperium	Congenital Anomalies	Cert. Cond. Origina-ting in the Peri-natal Period	Symptoms, Signs and Abnormal Findings	Motor Vehicle	All Other Accidents and Adverse Effects	Suicide	Homicide	All Other Causes
Lyon	0	0	0	5	4	9	5	0	39
McPherson	1	2	1	2	4	17	4	1	64
Marion	0	0	0	4	1	2	2	0	31
Marshall	0	1	1	2	4	5	1	0	19
Meade	0	1	1	0	3	1	1	1	9
Miami	0	1	1	5	5	7	8	2	58
Mitchell	0	2	0	1	1	5	1	0	13
Montgomery	0	2	2	5	11	17	5	1	75
Morris	0	0	0	2	1	1	0	0	14
Morton	0	0	0	0	2	1	1	0	5
Nemaha	0	0	1	1	6	0	3	0	24
Neosho	0	1	0	4	2	10	0	0	37
Ness	0	2	0	0	1	3	0	0	10
Norton	0	1	0	0	5	3	1	0	16
Osage	0	1	0	2	4	9	4	0	23
Osborne	0	0	0	3	1	3	0	0	15
Ottawa	0	0	0	11	3	1	3	0	16
Pawnee	0	0	0	0	0	2	3	0	11
Phillips	0	0	0	4	0	2	1	0	6
Pottawatomie	0	1	0	3	4	5	3	0	42
Pratt	0	0	0	2	1	3	2	0	20
Rawlins	0	0	0	0	1	0	0	0	6
Reno	1	2	2	19	11	26	12	1	156
Republic	0	1	0	14	1	0	3	0	19
Rice	0	0	0	2	7	6	3	0	14
Riley	0	1	2	5	5	13	10	3	88
Rooks	0	0	0	0	3	0	1	0	12
Rush	0	1	0	0	3	1	2	0	15
Russell	0	0	0	0	0	7	3	0	15
Saline	0	2	2	13	12	24	8	3	88
Scott	0	0	0	1	1	2	1	0	5
Sedgwick	0	20	29	79	61	199	99	34	932
Seward	0	1	1	0	4	9	2	3	23
Shawnee	3	8	9	19	28	86	41	18	380
Sheridan	0	0	0	0	1	1	1	0	7
Sherman	0	0	0	0	3	4	2	0	12
Smith	0	2	0	0	2	5	0	0	16
Stafford	0	0	0	0	0	2	1	2	9
Stanton	0	0	0	2	1	3	0	0	3
Stevens	0	0	0	0	1	2	0	0	16
Sumner	0	0	0	3	8	3	4	0	51
Thomas	0	1	1	0	0	3	1	0	21
Trego	0	0	0	0	0	2	1	0	8
Wabaunsee	0	0	0	1	5	2	1	0	11
Wallace	0	0	0	0	0	1	0	0	4
Washington	1	1	0	2	0	3	0	0	14
Wichita	0	0	0	0	0	1	0	0	5
Wilson	0	0	0	1	2	3	2	1	20
Woodson	0	0	0	1	1	1	2	0	13
Wyandotte	1	4	9	45	34	39	25	45	200
n.s.	0	0	0	0	0	0	0	0	1
Peer Group									
Frontier	2	11	3	18	38	59	30	5	249
Rural	2	10	7	67	60	99	47	4	502
Densely -Settled Rural	1	13	12	66	71	190	74	10	839
Semi-Urban	1	19	17	64	77	165	83	19	851
Urban	6	55	65	200	182	527	278	110	2,477

* 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*
Kansas, 2012-2016

County of Residence	Life Expectancy	County of Residence	Life Expectancy
Kansas	76.2		
Allen	74.0	Lyon	76.2
Anderson	75.7	McPherson	76.5
Atchison	74.9	Marion	76.2
Barber	74.9	Marshall	77.1
Barton	75.6	Meade	76.2
Bourbon	74.5	Miami	76.6
Brown	75.1	Mitchell	76.6
Butler	75.4	Montgomery	73.8
Chase	75.0	Morris	75.9
Chautauqua	72.6	Morton	73.7
Cherokee	73.6	Nemaha	77.0
Cheyenne	77.6	Neosho	75.0
Clark	74.2	Ness	74.4
Clay	75.6	Norton	75.5
Cloud	75.4	Osage	75.0
Coffey	76.3	Osborne	73.1
Comanche	72.5	Ottawa	75.3
Cowley	73.9	Pawnee	74.4
Crawford	74.9	Phillips	76.0
Decatur	77.2	Pottawatomie	77.0
Dickinson	75.1	Pratt	74.6
Doniphan	77.5	Rawlins	76.1
Douglas	77.9	Reno	75.2
Edwards	76.1	Republic	73.9
Elk	72.3	Rice	73.5
Ellis	76.9	Riley	78.4
Ellsworth	75.5	Rooks	75.2
Finney	76.5	Rush	74.7
Ford	76.3	Russell	76.4
Franklin	75.4	Saline	75.7
Geary	74.4	Scott	76.8
Gove	75.1	Sedgwick	75.3
Graham	77.2	Seward	76.3
Grant	76.5	Shawnee	75.2
Gray	76.4	Sheridan	74.8
Greeley	72.5	Sherman	74.6
Greenwood	72.9	Smith	74.8
Hamilton	75.5	Stafford	75.7
Harper	73.6	Stanton	77.5
Harvey	76.4	Stevens	76.1
Haskell	78.6	Sumner	75.2
Hodgeman	78.0	Thomas	77.2
Jackson	76.3	Trego	74.7
Jefferson	75.8	Wabaunsee	76.6
Jewell	77.7	Wallace	77.9
Johnson	78.9	Washington	76.7
Kearny	74.6	Wichita	75.8
Kingman	75.4	Wilson	73.5
Kiowa	78.2	Woodson	72.7
Labette	73.2	Wyandotte	73.7
Lane	75.8	Peer Group	
Leavenworth	76.4	Frontier	75.2
Lincoln	76.8	Rural	75.6
Linn	74.1	Densely -Settled Rural	75.5
Logan	78.1	Semi-Urban	75.8
		Urban	76.6

* See Technical Notes for Peer Group definition.

Table E29
Deaths by Selected City of Residence
by Number and Crude Rate*
Kansas, 2012-2016

City of Residence	Year 2012 Number	2012 Rate	2013 Number	2013 Rate	2014 Number	2014 Rate	2015 Number	2015 Rate	2016 Number	2016 Rate	5-Year Rate
Abilene	106	1,565.5	92	1,380.3	92	1,396.1	108	1,646.8	113	1,746.8	1,546.0
Andover	99	818.2	110	896.9	99	791.4	92	721.9	105	808.9	806.7
Arkansas City	147	1,191.2	160	1,300.3	165	1,351.9	167	1,376.1	175	1,450.7	1,333.4
Atchison	121	1,104.7	120	1,098.4	126	1,169.8	145	1,353.6	143	1,339.1	1,212.1
Augusta	109	1,182.6	105	1,140.9	120	1,298.4	108	1,161.4	111	1,190.9	1,194.8
Baldwin City	37	817.5	46	1,013.2	42	916.0	47	1,006.6	44	940.8	939.3
Basehor	34	710.3	43	877.9	39	761.9	46	851.5	40	707.8	781.2
Baxter Springs	64	1,537.7	55	1,333.7	51	1,252.1	65	1,613.7	39	984.1	1,346.4
Bel Aire	61	892.1	57	824.2	67	919.8	72	968.4	69	900.7	902.2
Beloit	65	1,697.1	63	1,638.1	39	1,028.5	53	1,398.4	47	1,247.0	1,403.3
Bonner Springs	61	822.2	70	935.8	72	953.3	72	946.6	69	900.2	911.9
Burlington	36	1,357.5	53	2,015.2	24	910.8	45	1,720.8	33	1,264.4	1,453.4
Chanute	124	1,353.6	117	1,264.2	137	1,473.9	110	1,188.9	112	1,225.5	1,301.5
Clay Center	61	1,413.7	70	1,651.3	77	1,843.4	85	2,036.9	77	1,892.4	1,764.2
Coffeyville	181	1,811.3	147	1,477.5	134	1,356.8	156	1,613.4	164	1,719.3	1,595.1
Colby	54	998.9	62	1,144.8	62	1,150.7	74	1,366.1	49	904.2	1,112.9
Columbus	55	1,692.3	44	1,365.2	54	1,694.9	43	1,366.8	56	1,804.1	1,584.0
Concordia	88	1,654.1	80	1,520.6	80	1,506.3	97	1,858.9	81	1,564.0	1,620.4
Derby	164	714.8	176	763.7	216	929.7	205	872.0	215	909.7	838.7
De Soto	45	766.7	69	1,167.3	43	712.2	55	905.5	39	642.4	837.7
Dodge City	159	566.3	173	614.4	176	626.0	179	641.3	171	622.9	614.1
Edwardsville	49	1,119.5	61	1,400.7	51	1,164.4	50	1,139.0	47	1,070.6	1,178.5
El Dorado	166	1,286.8	174	1,353.9	166	1,288.9	177	1,368.8	172	1,308.9	1,321.4
Ellsworth	30	962.8	48	1,560.0	32	1,040.3	50	1,635.6	31	1,017.4	1,242.4
Emporia	198	793.3	225	907.3	201	818.4	220	892.5	182	733.4	828.9
Eudora	53	857.1	43	692.3	60	951.9	50	783.9	36	564.4	769.4
Eureka	52	2,049.7	51	2,018.2	51	2,052.3	59	2,408.2	61	2,531.1	2,208.1
Fairway	22	558.5	22	555.1	12	302.3	16	403.0	18	453.2	454.2
Fort Scott	108	1,361.2	138	1,739.3	124	1,574.8	140	1,786.2	122	1,569.5	1,606.0
Frontenac	43	1,243.1	46	1,340.3	46	1,335.7	59	1,724.1	44	1,288.8	1,386.1
Galena	56	1,848.8	58	1,937.2	66	2,225.2	42	1,433.4	42	1,455.3	1,783.2
Garden City	166	615.2	174	645.3	158	585.1	181	670.2	169	631.8	629.5
Gardner	87	428.2	83	405.4	84	406.4	102	488.8	99	469.0	439.9
Garnett	54	1,624.1	49	1,481.7	46	1,396.1	51	1,565.4	61	1,868.9	1,586.7
Girard	44	1,573.7	36	1,295.4	49	1,767.0	36	1,304.3	42	1,528.4	1,493.9
Goddard	26	573.7	41	894.8	47	1,001.7	36	762.9	66	1,401.3	929.6
Goodland	54	1,184.5	71	1,558.0	50	1,097.9	69	1,548.1	57	1,283.5	1,333.7
Great Bend	197	1,237.2	174	1,094.3	172	1,085.9	179	1,138.9	184	1,184.4	1,148.1
Hays	193	919.4	187	888.9	179	850.6	194	919.8	189	898.8	895.5
Haysville	113	1,031.9	122	1,108.7	109	980.9	113	1,007.8	127	1,129.4	1,051.8
Herington	47	1,885.3	34	1,388.3	33	1,367.6	33	1,377.3	21	889.1	1,386.9
Hesston	50	1,336.2	59	1,579.2	61	1,633.6	46	1,206.4	48	1,262.2	1,402.2
Hiawatha	50	1,595.9	64	2,013.8	44	1,415.7	50	1,615.5	46	1,500.8	1,630.4
Hillsboro	41	1,401.2	44	1,515.7	54	1,866.6	61	2,126.2	45	1,558.7	1,692.2
Hoisington	34	1,263.5	25	931.1	30	1,126.1	29	1,105.6	29	1,121.4	1,109.5
Holton	59	1,786.8	66	2,013.4	55	1,658.6	68	2,084.0	50	1,522.1	1,812.2
Hugoton	39	993.1	31	779.1	46	1,159.9	42	1,059.5	37	964.8	991.3
Hutchinson	527	1,255.9	544	1,298.7	534	1,282.4	512	1,231.7	484	1,171.6	1,248.2
Independence	122	1,320.1	142	1,538.5	136	1,484.4	138	1,540.5	142	1,613.8	1,498.1
Iola	97	1,702.4	92	1,639.1	94	1,692.8	84	1,535.6	82	1,503.5	1,615.8
Junction City	159	615.9	168	661.7	155	628.4	180	731.1	187	773.4	681.0
Kansas City	1,230	835.2	1,233	830.4	1,225	818.7	1,232	814.2	1,229	810.1	821.6

Table E29
Deaths by Selected City of Residence
by Number and Crude Rate*
Kansas, 2012-2016

City of Residence	Year 2012 Number	2012 Rate	2013 Number	2013 Rate	2014 Number	2014 Rate	2015 Number	2015 Rate	2016 Number	2016 Rate	5-Year Rate
Kingman	49	1,546.2	50	1,583.3	61	1,971.6	51	1,652.6	52	1,733.3	1,696.0
Lansing	61	526.3	64	549.7	68	580.6	76	645.9	113	953.7	652.3
Larned	61	1,516.3	50	1,235.8	69	1,715.1	63	1,588.1	55	1,410.3	1,493.1
Lawrence	487	544.1	489	538.5	500	539.0	532	566.5	483	506.5	538.8
Leavenworth	264	737.1	273	760.6	271	752.8	256	711.5	287	793.8	751.2
Leawood	252	774.5	243	736.6	252	732.7	254	734.5	233	674.1	729.9
Lenexa	338	684.2	357	709.1	346	677.9	349	664.9	378	714.5	690.1
Liberal	123	583.4	116	553.5	132	628.2	113	544.7	126	619.2	585.7
Lindsborg	56	1,616.6	51	1,465.1	53	1,541.6	51	1,507.5	46	1,378.1	1,502.6
Louisburg	25	583.8	41	953.7	39	902.4	54	1,262.9	41	935.6	927.6
Lyons	58	1,553.7	51	1,364.7	51	1,364.7	58	1,557.0	43	1,171.3	1,403.0
McPherson	143	1,081.9	160	1,201.0	158	1,198.0	157	1,194.5	134	1,017.9	1,138.8
Maize	17	458.5	18	470.8	17	417.4	17	389.7	24	540.8	455.8
Manhattan	260	463.7	256	456.0	242	431.5	256	454.6	304	552.9	471.4
Marysville	52	1,578.1	51	1,547.8	46	1,396.1	45	1,354.2	44	1,335.8	1,442.2
Merriam	113	1,011.3	118	1,046.0	103	912.3	109	965.6	82	729.2	932.9
Mission	82	866.2	102	1,071.9	67	705.2	96	1,011.5	94	995.4	930.0
Mission Hills	17	477.0	18	502.5	16	444.8	20	555.4	19	527.8	501.6
Mulvane	68	1,085.0	49	779.4	55	874.5	78	1,235.4	66	1,045.0	1,004.0
Newton	224	1,167.3	217	1,135.1	228	1,192.5	229	1,191.7	223	1,167.2	1,170.8
Norton	43	1,497.7	44	1,527.8	49	1,721.7	45	1,583.9	58	2,062.6	1,677.2
Olathe	660	507.5	681	516.4	684	514.0	722	537.6	698	515.2	518.2
Osage City	45	1,550.1	44	1,517.8	60	2,096.4	54	1,898.7	46	1,621.4	1,735.8
Osawatomie	50	1,139.5	51	1,163.1	53	1,216.4	54	1,256.7	52	1,207.1	1,196.2
Ottawa	152	1,208.7	144	1,153.7	146	1,177.1	140	1,130.2	151	1,222.1	1,178.4
Overland Park	1,198	669.6	1,267	699.0	1,253	679.0	1,315	705.0	1,298	686.9	688.0
Paola	55	991.0	78	1,385.4	95	1,698.6	70	1,266.5	94	1,688.2	1,406.6
Park City	30	402.9	37	493.4	34	450.0	39	511.9	44	576.5	487.4
Parsons	153	1,481.6	152	1,495.5	161	1,582.5	147	1,456.9	145	1,463.8	1,496.2
Phillipsburg	33	1,309.5	42	1,652.9	33	1,291.1	43	1,703.6	40	1,572.9	1,505.8
Pittsburg	204	1,002.0	189	926.6	198	970.9	230	1,127.0	213	1,045.9	1,014.5
Prairie Village	178	817.7	189	863.3	175	799.9	181	827.4	161	738.4	809.4
Pratt	98	1,424.4	109	1,560.3	83	1,192.0	90	1,314.1	94	1,388.3	1,375.9
Roeland Park	39	572.2	46	672.0	40	584.8	42	615.2	45	663.1	621.4
Rose Hill	43	1,093.6	36	913.2	32	808.1	37	926.2	42	1,046.1	957.5
Russell	79	1,763.0	61	1,363.1	68	1,516.5	65	1,433.6	65	1,444.4	1,504.0
Sabetha	51	1,993.0	45	1,752.3	49	1,911.1	47	1,818.2	44	1,702.8	1,835.1
St Marys	16	602.4	22	821.8	26	976.0	24	901.6	27	1,013.5	863.2
Salina	479	997.0	494	1,032.5	484	1,011.1	483	1,010.2	460	971.8	1,004.6
Scott City	59	1,545.7	39	1,002.8	40	1,018.6	34	885.9	51	1,311.1	1,151.8
Shawnee	375	589.4	389	604.8	429	664.1	447	687.2	405	621.2	633.6
Spring Hill	42	748.4	43	750.4	59	1,000.7	52	869.4	44	713.6	816.7
Tonganoxie	58	1,135.5	55	1,064.9	54	1,040.1	55	1,048.0	46	863.7	1,029.2
Topeka	1,452	1,134.9	1,414	1,107.5	1,525	1,198.8	1,565	1,229.7	1,519	1,197.9	1,173.6
Ulysses	59	945.7	37	589.7	45	730.5	39	639.7	43	712.5	723.9
Valley Center	67	962.0	50	713.2	43	609.3	59	816.9	54	735.4	766.9
Wamego	45	1,003.3	56	1,216.6	38	830.1	45	972.6	42	890.8	982.3
Wellington	108	1,350.5	110	1,380.7	101	1,271.7	96	1,202.0	97	1,229.6	1,287.0
Wichita	3,233	838.5	3,293	851.9	3,445	886.9	3,523	903.4	3,555	911.8	878.6
Winfield	154	1,245.5	198	1,605.4	159	1,297.1	190	1,556.9	151	1,229.2	1,386.6

*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, 1967-2016

Year	Marriage		Year	Marriage Dissolutions	
	Number	Rate		Number	Rate
1967	20,034	9.0	1967	6,745	3.0
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

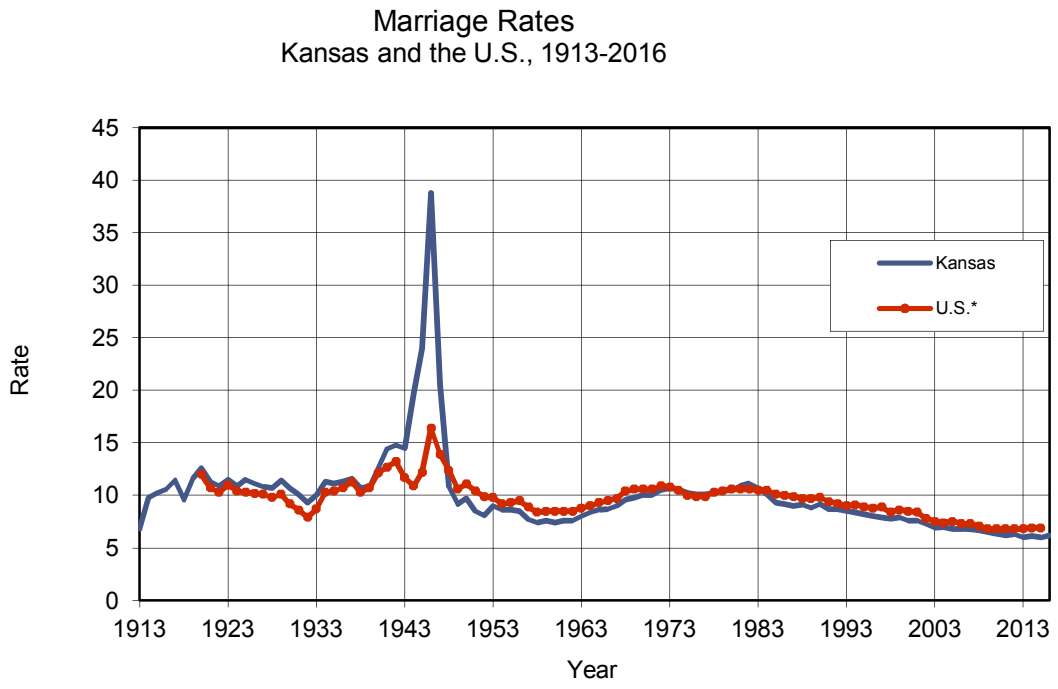


Figure F1

*1913-1919 not available, 1991-2015 Rates Provisional, 2016 Rates not yet available.

Rate per 1,000 Population

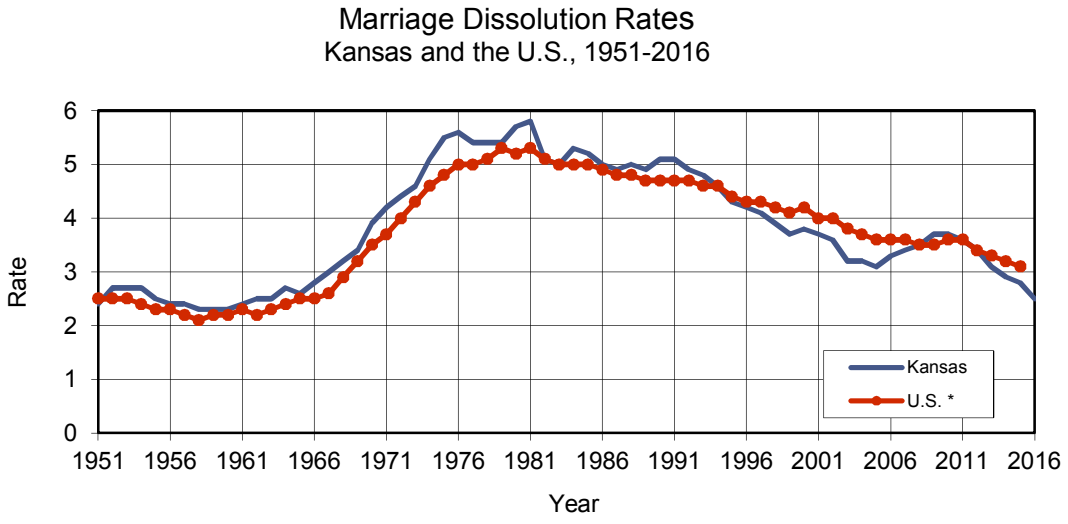


Figure F2

*1991-2015 Rates Provisional, 2016 Rates not yet available.

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

Rate per 1,000 Population

Table F2
Marriages by Population Group of Groom by Population Group of Bride
Kansas, 2016

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	17,948	13,036	844	118	557	426	2,888	79
White Non-Hispanic	12,820	11,518	97	80	194	216	704	11
Black Non-Hispanic	1,214	334	681	8	28	62	98	3
Native American Non-Hispanic	106	77	1	17	3	0	6	2
Asian/Pacific Non-Hispanic	403	77	10	1	287	9	19	0
Other Non-Hispanic*	445	256	20	0	17	95	56	1
Hispanic Any Race	2,881	759	33	12	27	43	1,999	8
n.s.	79	15	2	0	1	1	6	54

* 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, 2016

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	7,198	5,348	450	41	141	96	744	378
White Non-Hispanic	5,178	4,767	42	26	45	42	197	59
Black Non-Hispanic	573	139	379	2	6	16	25	6
Native American Non-Hispanic	64	51	1	5	1	1	4	1
Asian/Pacific Non-Hispanic	117	27	3	1	79	0	6	1
Other Non-Hispanic*	91	47	8	0	1	24	8	3
Hispanic Any Race	795	248	13	5	5	13	496	15
n.s.	380	69	4	2	4	0	8	293

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

Number of Marriages by Month

Kansas, 2016

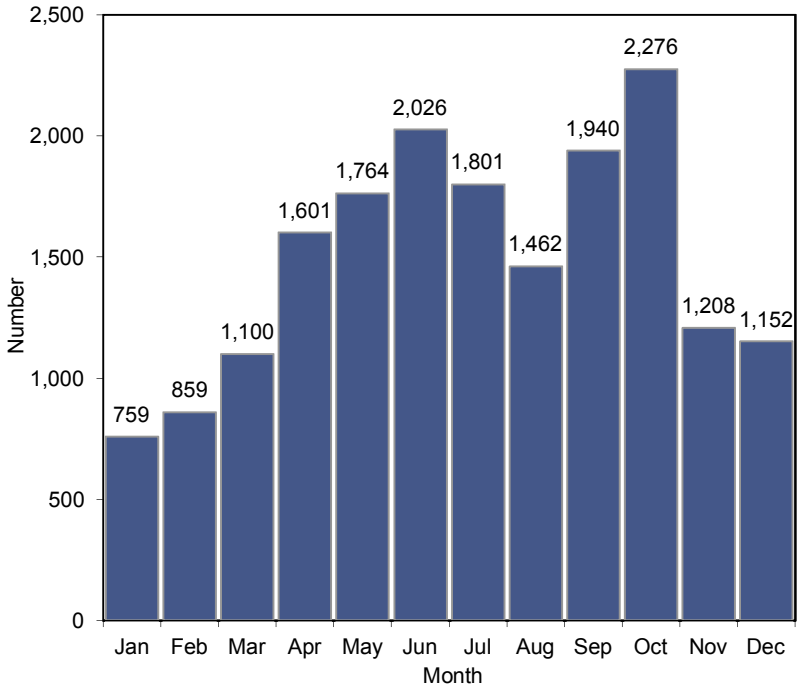


Figure F3

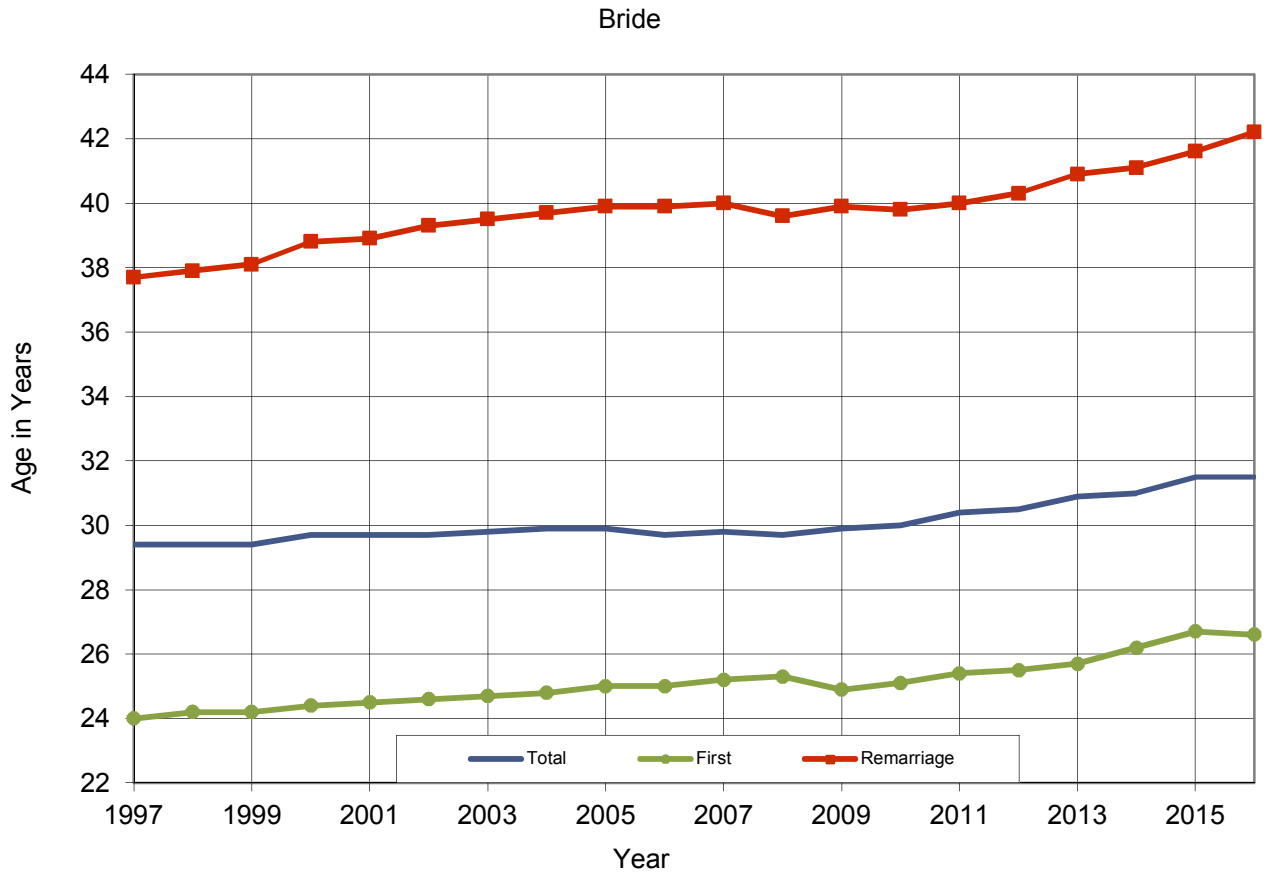
Table F4
Marriages by Premarital Status of Groom
by Premarital Status of Bride
Kansas, 2016

Premarital Status of Groom	Total	Premarital Status of Bride				
		Never Married	Divorced	Annulled	Widowed	n.s.
Total	17,948	12,319	5,119	80	423	7
Never Married	12,300	10,510	1,677	38	70	5
Divorced	5,109	1,699	3,156	31	223	0
Annulled	108	51	44	9	4	0
Widowed	422	55	239	2	126	0
n.s.	9	4	3	0	0	2

Table F5
Marriages by Age-Group of Groom by Age-Group of Bride
Kansas, 2016

Age-Group of Groom	Total	Age-Group of Bride													
		15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 & Over	n.s.
Total	17,948	824	4,965	4,424	2,547	1,539	1,088	871	678	471	270	156	61	54	0
15-19	346	229	106	9	1	0	0	1	0	0	0	0	0	0	0
20-24	3,770	489	2,767	404	66	24	10	4	0	3	1	0	2	0	0
25-29	4,596	73	1,597	2,323	447	117	22	14	2	1	0	0	0	0	0
30-34	2,967	22	341	1,179	1,010	317	70	19	6	2	1	0	0	0	0
35-39	1,922	8	97	369	650	541	181	56	9	5	4	1	1	0	0
40-44	1,172	3	32	74	235	301	339	134	38	13	3	0	0	0	0
45-49	959	0	12	39	87	136	258	295	98	25	8	1	0	0	0
50-54	782	0	7	18	28	68	125	192	228	86	22	6	1	1	0
55-59	640	0	3	6	16	22	63	113	183	158	59	13	3	1	0
60-64	371	0	3	1	2	5	15	25	81	116	87	29	4	3	0
65-69	227	0	0	1	5	6	4	13	22	49	56	54	10	7	0
70-74	108	0	0	1	0	1	1	4	7	11	18	35	20	10	0
75 & Over	88	0	0	0	0	1	0	1	4	2	11	17	20	32	0
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Average Age at Marriage
Kansas, 1997-2016



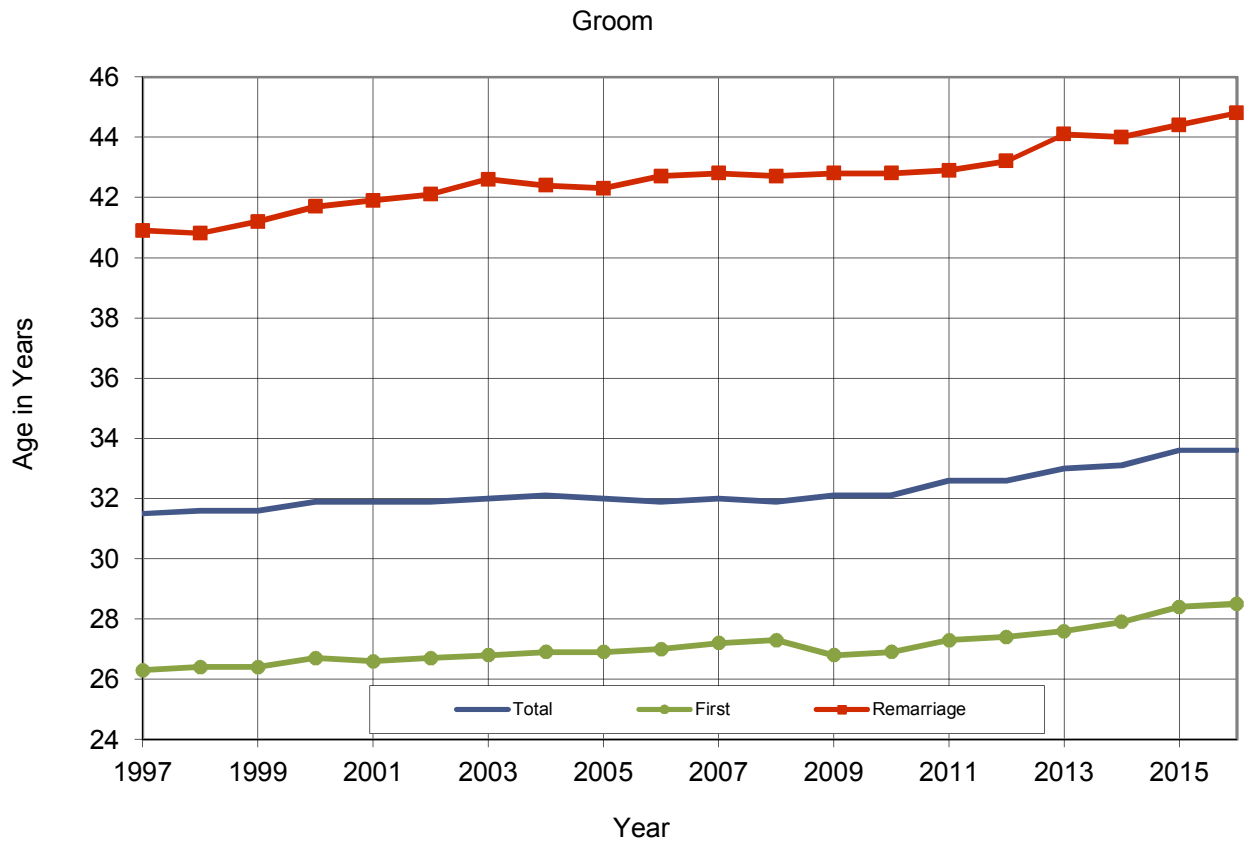


Figure F4

Table F6
Marriage Dissolutions by Age-Group of Husband by Age-Group of Wife
Kansas, 2016

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	7,198	30	570	1,052	1,196	1,166	894	779	616	384	200	97	52	34	128
15-19	5	3	0	1	1	0	0	0	0	0	0	0	0	0	0
20-24	372	20	276	47	11	4	5	1	1	0	0	0	0	0	7
25-29	856	4	217	475	118	25	8	1	1	0	0	0	0	0	7
30-34	1,149	1	53	361	525	151	34	10	4	2	0	0	0	0	8
35-39	1,181	1	13	116	364	499	115	37	14	4	1	1	0	0	16
40-44	962	0	4	24	102	332	332	108	38	9	2	0	1	0	10
45-49	827	0	2	13	37	103	248	299	80	22	5	2	0	1	15
50-54	669	0	0	4	18	31	87	198	239	64	10	5	2	0	11
55-59	489	0	1	2	6	14	41	78	159	133	34	5	4	1	11
60-64	300	0	0	0	3	1	12	29	55	97	74	17	5	0	7
65-69	169	0	0	0	2	2	1	11	14	32	49	40	8	4	6
70-74	74	0	0	0	0	0	1	1	5	12	19	18	15	3	0
75 & Over	63	0	0	0	0	0	1	1	0	6	5	8	17	25	0
n.s.	82	1	4	9	9	4	9	5	6	3	1	1	0	0	30

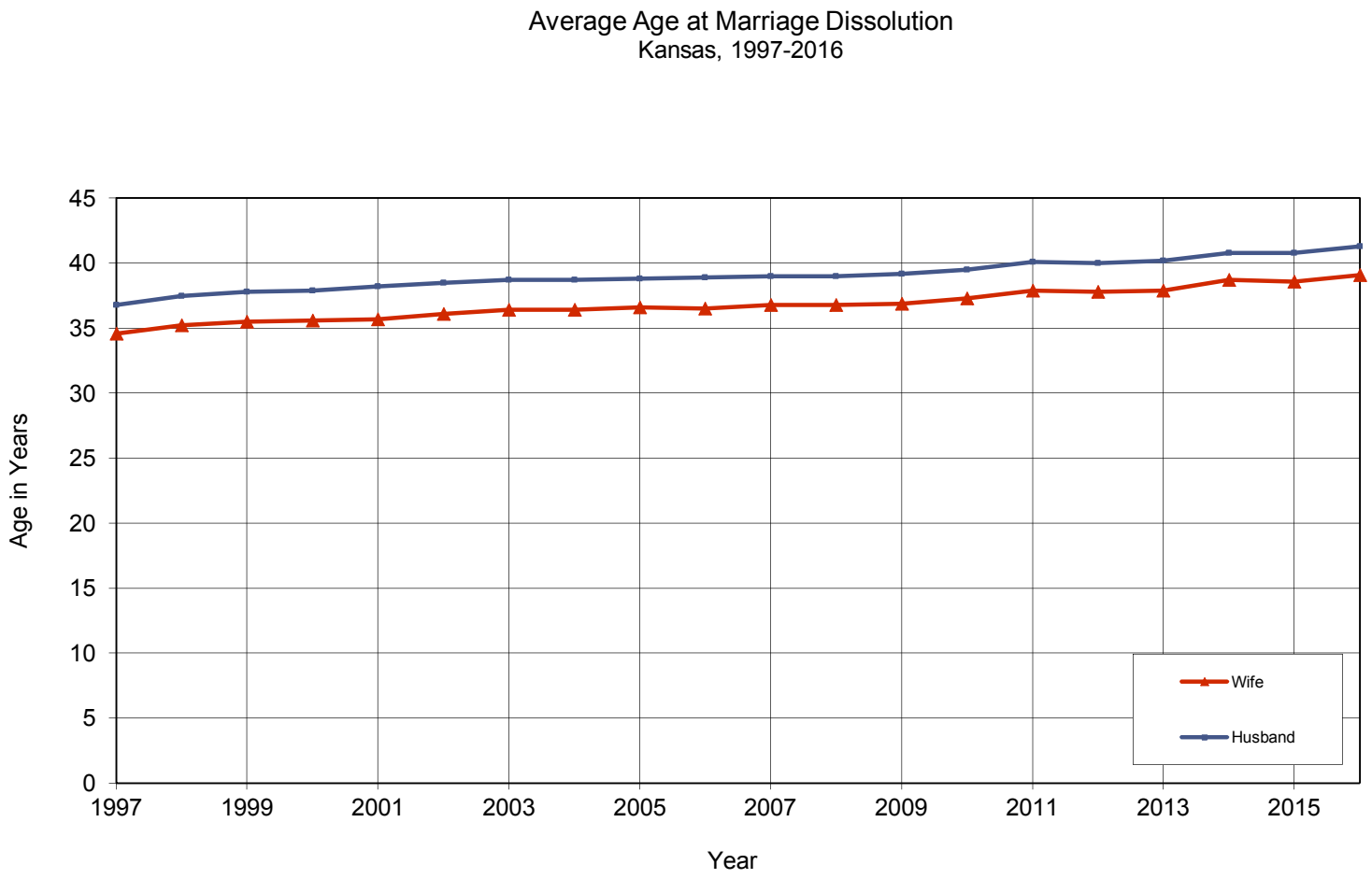

Average Age at Marriage Dissolution
Kansas, 1997-2016
Age in Years
45
40
35
30
25
20
15
10
5
0
1997
1999
2001
2003
2005
2007
2009
2011
2013
2015
Year
Wife
Husband

Figure F5

Table F7
Marriage Dissolutions
by Duration of Marriage in Years
Kansas, 2016

Duration of Marriage	Total	Divorces	Annulments
Total	7,198	7,056	142
Under 1	251	180	71
1	482	454	28
2	528	514	14
3	514	508	6
4	560	557	3
5	448	447	1
6	409	407	2
7	314	311	3
8	330	329	1
9	296	294	2
10	256	255	1
11	225	223	2
12	185	185	0
13	178	178	0
14	162	162	0
15	177	177	0
16	147	147	0
17	169	169	0
18	130	130	0
19	122	122	0
20-24	462	460	2
25-29	289	289	0
30-34	164	164	0
35-39	83	83	0
40 & Over	80	80	0
n.s.	237	231	6

Marriage Dissolutions
Percent Distribution by Number of Minor Children
Kansas, 2016

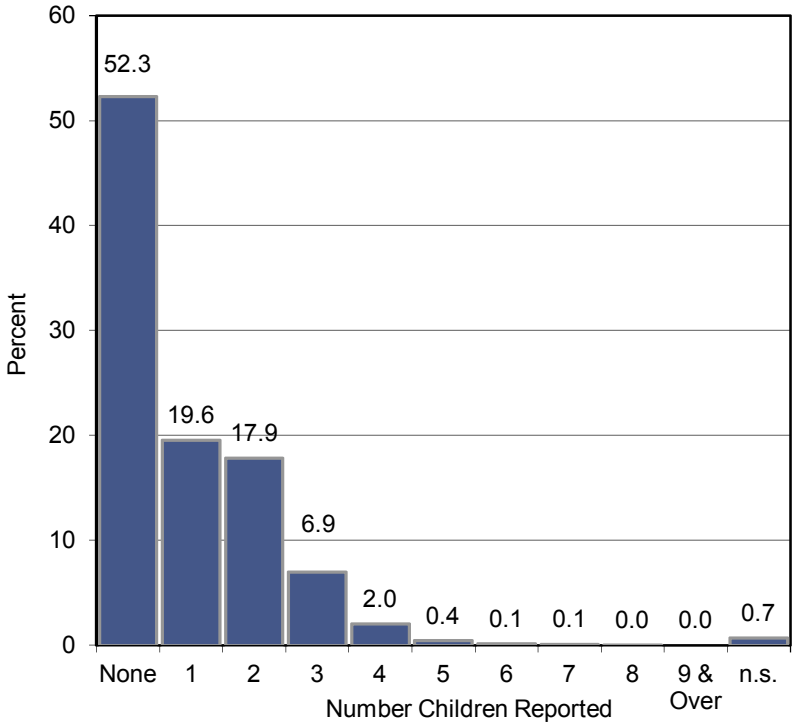


Figure F6

Table F8
Marriage Dissolutions by Number of Minor Children Reported
and Number of Minor Children Affected
Kansas, 2016

Number of Minor Children Reported	Divorces		Annulments		Total Children Affected
	Number	Percent	Number	Percent	Number*
Total	7,056	100	142	99.9	6,318
None	3,642	52.0	122	85.9	0
1	1,398	19.9	10	7.0	1,408
2	1,278	18.2	7	4.9	2,570
3	499	7.1	1	0.7	1,500
4 or More	191	2.7	2	1.4	840
n.s.	48	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, 2012-2016

County of Marriage	Year										5-Year Rate
	2012		2013		2014		2015		2016		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
Kansas	18,154	6.3	17,328	6.0	17,655	6.1	17,595	6.0	17,948	6.2	6.1
Allen	57	4.3	67	5.1	64	5.0	59	4.6	59	4.6	4.7
Anderson	53	6.7	36	4.6	53	6.7	31	4.0	40	5.1	5.4
Atchison	120	7.1	96	5.7	84	5.1	90	5.5	79	4.8	5.7
Barber	29	6.0	30	6.1	39	8.0	36	7.5	31	6.6	6.8
Barton	183	6.6	168	6.1	192	7.0	176	6.5	171	6.4	6.5
Bourbon	98	6.6	88	5.9	101	6.8	109	7.4	95	6.5	6.6
Brown	53	5.4	66	6.6	62	6.3	63	6.4	48	5.0	5.9
Butler	421	6.4	415	6.3	424	6.4	404	6.1	428	6.4	6.3
Chase	32	11.6	23	8.5	35	13.0	33	12.3	33	12.4	11.6
Chautauqua	25	7.0	28	7.9	21	6.0	20	5.9	19	5.6	6.5
Cherokee	75	3.5	104	5.0	85	4.1	107	5.2	87	4.3	4.4
Cheyenne	12	4.5	18	6.7	15	5.6	8	3.0	11	4.1	4.8
Clark	8	3.7	12	5.5	13	6.1	7	3.3	7	3.4	4.4
Clay	59	6.9	53	6.3	46	5.5	45	5.4	58	7.1	6.3
Cloud	57	6.1	45	4.8	58	6.2	53	5.7	48	5.2	5.6
Coffey	40	4.7	61	7.3	53	6.3	50	6.0	47	5.6	6.0
Comanche	17	8.9	12	6.1	8	4.1	12	6.5	7	3.8	5.9
Cowley	241	6.6	232	6.4	228	6.3	214	6.0	212	5.9	6.3
Crawford	174	4.4	182	4.6	209	5.3	219	5.6	210	5.4	5.1
Decatur	18	6.3	20	6.8	18	6.2	12	4.1	15	5.3	5.7
Dickinson	134	6.8	123	6.3	139	7.2	130	6.7	108	5.7	6.5
Doniphan	46	5.8	44	5.6	35	4.4	29	3.7	31	4.0	4.7
Douglas	795	7.0	728	6.4	899	7.7	812	6.9	792	6.6	6.9
Edwards	13	4.4	17	5.8	21	6.9	13	4.4	16	5.4	5.4
Elk	13	4.8	12	4.5	14	5.2	15	5.8	7	2.7	4.6
Ellis	199	6.8	216	7.4	170	5.9	170	5.9	168	5.8	6.4
Ellsworth	53	8.2	42	6.6	39	6.1	38	6.0	25	4.0	6.2
Finney	276	7.4	229	6.2	242	6.5	223	6.0	288	7.8	6.8
Ford	284	8.2	253	7.3	256	7.4	244	7.1	286	8.4	7.7
Franklin	153	5.9	136	5.3	154	6.0	144	5.6	149	5.8	5.7
Geary	685	18.0	603	16.1	527	14.4	535	14.4	500	14.1	15.4
Gove	13	4.8	15	5.4	9	3.3	14	5.3	7	2.7	4.3
Graham	17	6.6	12	4.6	10	3.9	15	5.8	14	5.5	5.3
Grant	47	5.9	58	7.3	42	5.4	35	4.5	28	3.7	5.4
Gray	56	9.3	32	5.3	38	6.2	26	4.2	26	4.3	5.9
Greeley	8	6.2	6	4.7	5	3.8	2	1.5	10	7.7	4.8
Greenwood	39	6.0	56	8.7	31	4.9	37	5.9	32	5.2	6.2
Hamilton	9	3.4	17	6.5	14	5.4	8	3.2	5	2.0	4.1
Harper	35	5.9	26	4.4	28	4.8	28	4.8	30	5.3	5.1
Harvey	237	6.8	212	6.1	209	6.0	230	6.6	240	6.9	6.5
Haskell	30	7.0	20	4.8	15	3.7	30	7.4	17	4.2	5.4
Hodgeman	9	4.6	3	1.5	6	3.1	7	3.7	5	2.7	3.1
Jackson	75	5.6	77	5.8	66	4.9	66	4.9	71	5.3	5.3
Jefferson	108	5.7	110	5.8	97	5.1	95	5.0	165	8.7	6.1
Jewell	13	4.3	18	5.9	19	6.2	13	4.4	19	6.5	5.5
Johnson	2,490	4.4	2,430	4.3	2,588	4.5	2,586	4.5	2,795	4.8	4.5
Kearny	20	5.0	23	5.9	18	4.6	18	4.6	18	4.6	4.9
Kingman	41	5.2	41	5.2	41	5.3	49	6.4	43	5.8	5.6
Kiowa	16	6.4	15	5.9	24	9.6	13	5.1	14	5.6	6.5
Labette	125	5.9	115	5.5	96	4.6	104	5.0	86	4.2	5.0
Lane	9	5.3	7	4.1	4	2.4	4	2.4	9	5.5	3.9
Leavenworth	424	5.5	455	5.8	465	5.9	506	6.4	504	6.3	6.0
Lincoln	14	4.4	13	4.1	16	5.1	17	5.5	20	6.5	5.1
Linn	55	5.8	39	4.1	41	4.3	49	5.1	65	6.8	5.2
Logan	20	7.2	25	8.9	9	3.2	16	5.7	19	6.7	6.3

Table F9
Marriages by County of Marriage and Peer Group*
by Number and Rate†
Kansas, 2012-2016

County of Marriage	Year										5-Year Rate
	2012		2013		2014		2015		2016		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
Lyon	220	6.5	190	5.7	186	5.6	193	5.8	199	5.9	5.9
McPherson	174	5.9	175	5.9	199	6.8	175	6.0	179	6.2	6.2
Marion	67	5.4	67	5.5	60	4.9	52	4.3	57	4.7	5.0
Marshall	76	7.6	71	7.1	59	5.9	47	4.7	64	6.5	6.4
Meade	30	6.8	21	4.8	23	5.3	21	4.8	19	4.5	5.3
Miami	217	6.7	227	6.9	231	7.0	215	6.6	209	6.3	6.7
Mitchell	33	5.2	42	6.6	44	7.0	37	5.9	26	4.2	5.8
Montgomery	234	6.8	189	5.5	203	6.0	199	6.0	209	6.4	6.1
Morris	38	6.5	34	5.9	45	7.9	41	7.3	30	5.4	6.6
Morton	17	5.4	17	5.4	12	3.9	11	3.7	16	5.6	4.8
Nemaha	79	7.8	61	6.0	98	9.7	75	7.3	63	6.2	7.4
Neosho	83	5.1	99	6.0	115	7.0	98	6.0	100	6.2	6.1
Ness	17	5.5	14	4.6	11	3.5	8	2.7	14	4.7	4.2
Norton	29	5.2	36	6.4	36	6.5	34	6.1	28	5.1	5.9
Osage	92	5.7	78	4.8	87	5.5	69	4.4	67	4.2	4.9
Osborne	19	5.0	18	4.7	15	4.0	19	5.2	22	6.0	5.0
Ottawa	30	4.9	25	4.1	20	3.3	24	4.0	29	4.9	4.3
Pawnee	24	3.5	29	4.2	42	6.1	47	6.9	35	5.2	5.1
Phillips	30	5.4	28	5.1	29	5.2	31	5.7	26	4.8	5.2
Pottawatomie	107	4.8	91	4.0	104	4.5	83	3.6	113	4.8	4.3
Pratt	66	6.8	55	5.6	60	6.1	61	6.3	45	4.7	5.9
Rawlins	19	7.4	18	7.0	11	4.3	11	4.4	17	6.7	5.9
Reno	402	6.2	416	6.5	392	6.1	428	6.7	396	6.3	6.4
Republic	26	5.4	28	5.8	23	4.8	26	5.5	30	6.4	5.6
Rice	38	3.8	38	3.8	36	3.6	41	4.1	56	5.7	4.2
Riley	751	9.9	740	9.8	731	9.7	768	10.2	766	10.4	10.0
Rooks	26	5.0	32	6.2	20	3.9	24	4.6	28	5.5	5.0
Rush	15	4.7	8	2.5	18	5.6	13	4.2	12	3.9	4.2
Russell	47	6.8	35	5.0	50	7.2	33	4.7	19	2.7	5.3
Saline	340	6.1	333	6.0	335	6.0	324	5.8	353	6.4	6.1
Scott	42	8.5	29	5.8	26	5.1	31	6.2	19	3.8	5.9
Sedgwick	3,372	6.7	3,176	6.3	3,207	6.3	3,308	6.5	3,227	6.3	6.4
Seward	183	7.8	193	8.3	178	7.6	177	7.6	192	8.5	7.9
Shawnee	1,117	6.2	1,037	5.8	1,066	6.0	1,072	6.0	1,077	6.0	6.0
Sheridan	16	6.3	6	2.4	13	5.1	7	2.8	9	3.6	4.0
Sherman	46	7.5	42	6.9	40	6.5	44	7.4	21	3.5	6.4
Smith	14	3.7	22	5.9	24	6.4	19	5.1	18	5.0	5.2
Stafford	19	4.4	22	5.0	22	5.1	26	6.1	22	5.2	5.2
Stanton	18	8.3	15	6.8	8	3.8	19	9.2	30	14.5	8.5
Stevens	42	7.3	35	6.0	23	4.0	20	3.4	27	4.8	5.1
Sumner	176	7.4	168	7.1	186	7.9	175	7.4	156	6.7	7.3
Thomas	60	7.6	51	6.4	58	7.4	68	8.6	75	9.5	7.9
Trego	15	5.0	15	5.0	18	6.2	21	7.2	19	6.6	6.0
Wabaunsee	35	5.0	35	5.0	38	5.4	36	5.2	48	7.0	5.5
Wallace	11	7.3	18	11.5	15	10.0	18	11.9	6	4.0	8.9
Washington	38	6.6	43	7.6	36	6.4	38	6.8	39	7.0	6.9
Wichita	8	3.5	12	5.5	12	5.5	19	8.8	12	5.7	5.8
Wilson	43	4.7	58	6.4	59	6.5	38	4.3	42	4.8	5.4
Woodson	19	5.8	21	6.5	17	5.4	25	8.0	11	3.5	5.8
Wyandotte	1,199	7.5	1,130	7.0	1,119	6.9	1,157	7.1	1,354	8.3	7.4
n.s.	2	n/a	1	n/a	0	n/a	0	n/a	0	n/a	n/a
Peer Group											
Frontier	644	5.7	662	5.9	611	5.5	600	5.4	583	5.4	5.6
Rural	1,441	6.1	1,340	5.7	1,375	5.9	1,302	5.6	1,244	5.4	5.7
Densely -Settled Rural	3,056	6.4	2,916	6.1	2,910	6.1	2,786	5.9	2,912	6.2	6.2
Semi-Urban	3,614	7.7	3,453	7.4	3,415	7.4	3,466	7.5	3,460	7.5	7.5
Urban	9,397	5.9	8,956	5.6	9,344	5.8	9,441	5.8	9,749	6.0	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, 2012-2016

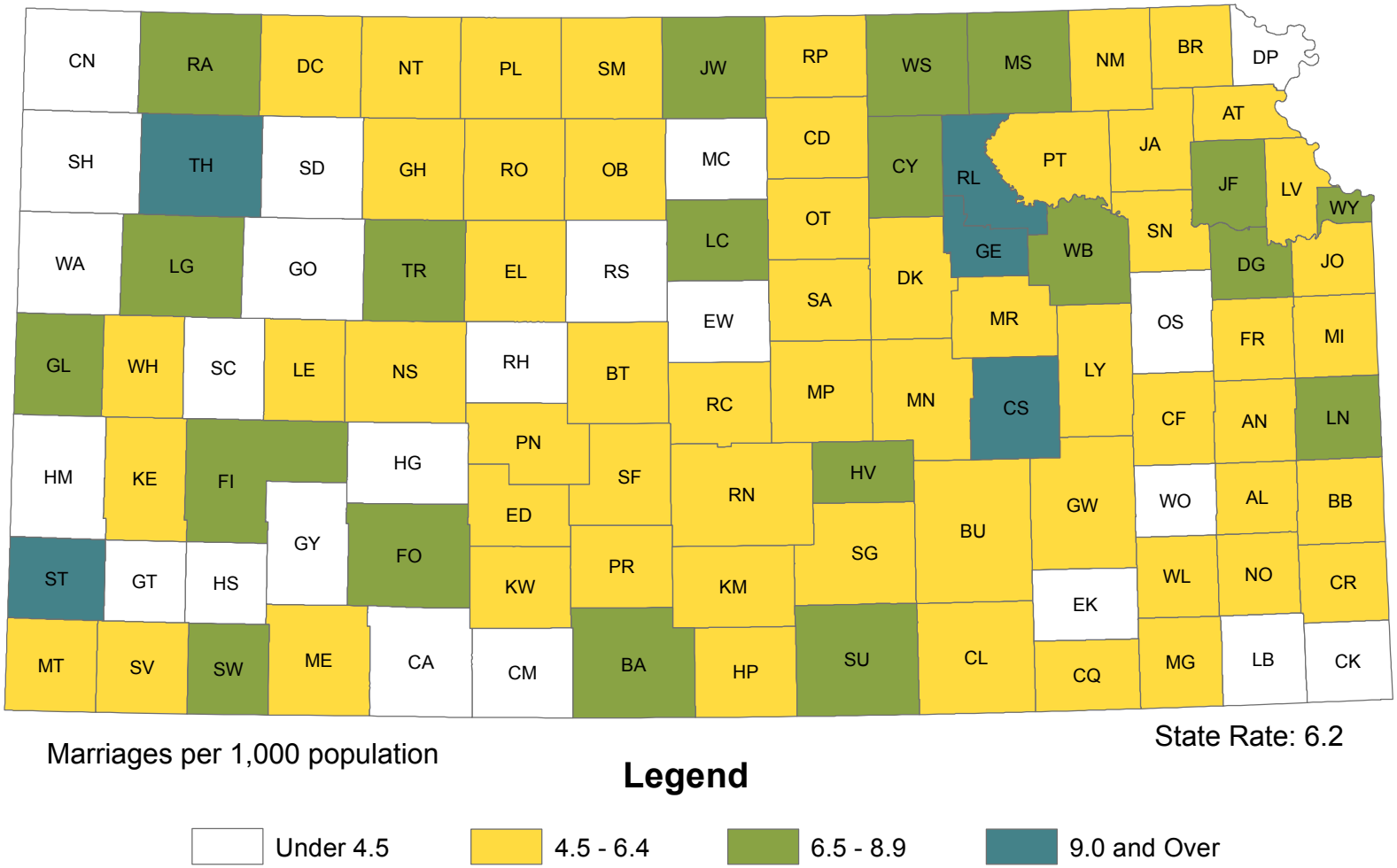
County of Action	Year										5-Year Rate
	2012		2013		2014		2015		2016		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
Kansas	9,782	3.4	9,085	3.1	8,441	2.9	8,036	2.8	7,198	2.5	2.9
Allen	25	1.9	30	2.3	32	2.5	26	2.0	43	3.4	2.4
Anderson	31	3.9	25	3.2	30	3.8	26	3.3	35	4.5	3.7
Atchison	44	2.6	56	3.3	34	2.1	36	2.2	29	1.8	2.4
Barber.	16	3.3	18	3.6	22	4.5	10	2.1	7	1.5	3.0
Barton	37	1.3	60	2.2	66	2.4	73	2.7	74	2.8	2.3
Bourbon	52	3.5	60	4.0	35	2.4	50	3.4	55	3.8	3.4
Brown	25	2.5	22	2.2	21	2.1	17	1.7	12	1.2	2.0
Butler	161	2.4	143	2.2	129	1.9	148	2.2	141	2.1	2.2
Chase	3	1.1	3	1.1	4	1.5	9	3.4	1	0.4	1.5
Chautauqua	15	4.2	9	2.5	3	0.9	10	2.9	9	2.7	2.6
Cherokee	77	3.6	68	3.2	73	3.5	72	3.5	64	3.2	3.4
Cheyenne	4	1.5	10	3.7	6	2.2	7	2.6	6	2.3	2.5
Clark	7	3.2	5	2.3	1	0.5	5	2.4	2	1.0	1.9
Clay	17	2.0	25	3.0	13	1.6	26	3.1	19	2.3	2.4
Cloud	38	4.0	32	3.4	35	3.7	25	2.7	44	4.8	3.7
Coffey	82	9.6	85	10.1	75	8.9	115	13.7	103	12.2	10.9
Comanche	4	2.1	4	2.0	2	1.0	5	2.7	0	0.0	1.6
Cowley	151	4.2	160	4.4	144	4.0	143	4.0	104	2.9	3.9
Crawford	131	3.3	109	2.8	96	2.4	112	2.9	84	2.1	2.7
Decatur	7	2.4	5	1.7	4	1.4	8	2.7	9	3.2	2.3
Dickinson	69	3.5	79	4.0	82	4.2	81	4.2	67	3.5	3.9
Doniphan	18	2.3	16	2.0	21	2.7	18	2.3	11	1.4	2.2
Douglas	247	2.2	235	2.1	212	1.8	197	1.7	161	1.3	1.8
Edwards	17	5.7	14	4.8	9	3.0	14	4.7	14	4.8	4.6
Elk	6	2.2	6	2.3	10	3.7	4	1.5	2	0.8	2.1
Ellis	78	2.7	66	2.3	57	2.0	69	2.4	50	1.7	2.2
Ellsworth	41	6.3	33	5.2	43	6.7	42	6.6	37	5.8	6.1
Finney	92	2.5	78	2.1	62	1.7	77	2.1	99	2.7	2.2
Ford	112	3.2	128	3.7	94	2.7	81	2.3	79	2.3	2.9
Franklin	124	4.8	114	4.4	97	3.8	76	3.0	65	2.5	3.7
Geary	380	10.0	367	9.8	291	7.9	341	9.2	358	10.1	9.4
Gove	4	1.5	4	1.4	9	3.3	5	1.9	5	1.9	2.0
Graham	11	4.3	8	3.1	9	3.5	3	1.2	10	3.9	3.2
Grant	11	1.4	20	2.5	21	2.7	22	2.8	18	2.4	2.4
Gray	12	2.0	14	2.3	14	2.3	13	2.1	13	2.2	2.2
Greeley	0	0.0	5	3.9	4	3.1	4	3.0	4	3.1	2.6
Greenwood	14	2.2	6	0.9	13	2.1	10	1.6	7	1.1	1.6
Hamilton	10	3.8	9	3.4	7	2.7	7	2.8	10	3.9	3.3
Harper	22	3.7	14	2.4	10	1.7	18	3.1	22	3.9	3.0
Harvey	100	2.9	90	2.6	88	2.5	116	3.3	76	2.2	2.7
Haskell	6	1.4	4	1.0	5	1.2	7	1.7	5	1.2	1.3
Hodgeman	6	3.1	8	4.1	6	3.1	4	2.1	3	1.6	2.8
Jackson	29	2.2	26	1.9	22	1.6	13	1.0	20	1.5	1.6
Jefferson	39	2.1	38	2.0	25	1.3	16	0.8	15	0.8	1.4
Jewell	18	5.9	20	6.6	13	4.3	9	3.0	10	3.4	4.7
Johnson	1,603	2.9	1,317	2.3	1,229	2.1	939	1.6	805	1.4	2.1
Kearny	10	2.5	11	2.8	13	3.3	9	2.3	11	2.8	2.7
Kingman	31	3.9	35	4.5	15	1.9	19	2.5	19	2.5	3.1
Kiowa	7	2.8	1	0.4	3	1.2	4	1.6	7	2.8	1.7
Labette	52	2.4	52	2.5	44	2.1	57	2.7	48	2.3	2.4
Lane	5	2.9	7	4.1	11	6.5	10	6.0	6	3.7	4.6
Leavenworth	299	3.8	277	3.5	261	3.3	244	3.1	225	2.8	3.3
Lincoln	9	2.8	11	3.5	11	3.5	8	2.6	8	2.6	3.0
Linn	22	2.3	37	3.9	28	2.9	36	3.8	32	3.3	3.3
Logan	8	2.9	17	6.1	7	2.5	4	1.4	8	2.8	3.1

Table F10
Marriage Dissolutions by County of Action and Peer Group*
by Number and Rate†
Kansas, 2012-2016

County of Action	Year										5-Year Rate
	2012		2013		2014		2015		2016		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
Lyon	71	2.1	53	1.6	65	2.0	91	2.7	69	2.1	2.1
McPherson	85	2.9	84	2.8	74	2.5	72	2.5	67	2.3	2.6
Marion	37	3.0	21	1.7	18	1.5	20	1.7	16	1.3	1.8
Marshall	32	3.2	26	2.6	26	2.6	24	2.4	27	2.7	2.7
Meade	14	3.2	10	2.3	9	2.1	9	2.1	9	2.1	2.4
Miami	113	3.5	107	3.3	111	3.4	97	3.0	90	2.7	3.2
Mitchell	28	4.4	21	3.3	17	2.7	19	3.0	11	1.8	3.0
Montgomery	161	4.7	146	4.3	127	3.7	113	3.4	114	3.5	3.9
Morris	18	3.1	14	2.4	14	2.5	8	1.4	13	2.3	2.3
Morton	5	1.6	10	3.2	10	3.2	6	2.0	3	1.1	2.2
Nemaha	33	3.3	20	2.0	9	0.9	19	1.9	15	1.5	1.9
Neosho	59	3.6	41	2.5	29	1.8	42	2.6	30	1.9	2.5
Ness	12	3.9	7	2.3	17	5.5	8	2.7	14	4.7	3.8
Norton	25	4.5	31	5.5	28	5.0	37	6.7	15	2.7	4.9
Osage	70	4.3	62	3.8	64	4.0	45	2.8	41	2.6	3.5
Osborne	10	2.6	9	2.4	6	1.6	6	1.6	7	1.9	2.0
Ottawa	19	3.1	15	2.5	11	1.8	13	2.2	19	3.2	2.6
Pawnee	34	4.9	27	3.9	17	2.5	26	3.8	17	2.5	3.5
Phillips	18	3.3	17	3.1	15	2.7	13	2.4	12	2.2	2.7
Pottawatomie	66	3.0	64	2.8	47	2.1	35	1.5	31	1.3	2.1
Pratt	34	3.5	37	3.7	31	3.1	21	2.2	24	2.5	3.0
Rawlins	10	3.9	7	2.7	8	3.1	8	3.2	6	2.4	3.0
Reno	230	3.6	231	3.6	213	3.3	181	2.8	132	2.1	3.1
Republic	10	2.1	17	3.5	11	2.3	15	3.2	17	3.6	2.9
Rice	15	1.5	17	1.7	20	2.0	11	1.1	23	2.3	1.7
Riley	278	3.7	309	4.1	228	3.0	215	2.9	156	2.1	3.2
Rooks	18	3.4	11	2.1	15	2.9	8	1.5	6	1.2	2.2
Rush	8	2.5	9	2.8	10	3.1	8	2.6	8	2.6	2.7
Russell	17	2.4	24	3.5	20	2.9	19	2.7	15	2.1	2.7
Saline	202	3.6	246	4.4	214	3.8	196	3.5	187	3.4	3.8
Scott	21	4.3	14	2.8	15	3.0	11	2.2	17	3.4	3.1
Sedgwick	2,361	4.7	2,222	4.4	2,247	4.4	2,148	4.2	1,789	3.5	4.2
Seward	78	3.3	97	4.1	91	3.9	89	3.8	70	3.1	3.7
Shawnee	544	3.0	417	2.3	367	2.1	360	2.0	456	2.6	2.4
Sheridan	6	2.4	1	0.4	4	1.6	4	1.6	2	0.8	1.3
Sherman	22	3.6	20	3.3	26	4.3	26	4.3	24	4.0	3.9
Smith	8	2.1	5	1.3	11	2.9	6	1.6	6	1.7	1.9
Stafford	11	2.5	9	2.1	8	1.9	6	1.4	5	1.2	1.8
Stanton	6	2.8	6	2.7	3	1.4	10	4.8	6	2.9	2.9
Stevens	19	3.3	19	3.3	23	4.0	36	6.2	19	3.4	4.0
Sumner	80	3.4	71	3.0	75	3.2	58	2.5	76	3.3	3.1
Thomas	30	3.8	31	3.9	36	4.6	27	3.4	26	3.3	3.8
Trego	9	3.0	9	3.0	4	1.4	4	1.4	5	1.7	2.1
Wabaunsee	9	1.3	19	2.7	17	2.4	12	1.7	9	1.3	1.9
Wallace	4	2.6	2	1.3	5	3.3	2	1.3	3	2.0	2.1
Washington	15	2.6	13	2.3	13	2.3	12	2.1	4	0.7	2.0
Wichita	6	2.7	7	3.2	5	2.3	3	1.4	4	1.9	2.3
Wilson	48	5.3	31	3.4	32	3.5	34	3.8	26	3.0	3.8
Woodson	11	3.4	8	2.5	7	2.2	9	2.9	4	1.3	2.4
Wyandotte	323	2.0	295	1.8	297	1.8	294	1.8	282	1.7	1.8
n.s.	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	n/a
Peer Group											
Frontier	330	2.9	303	2.7	308	2.8	263	2.4	247	2.3	2.6
Rural	811	3.4	768	3.3	690	2.9	752	3.2	688	3.0	3.2
Densely -Settled Rural	1,384	2.9	1,389	2.9	1,236	2.6	1,244	2.6	1,142	2.4	2.7
Semi-Urban	1,880	4.0	1,862	4.0	1,594	3.4	1,595	3.4	1,403	3.1	3.6
Urban	5,377	3.4	4,763	3.0	4,613	2.9	4,182	2.6	3,718	2.3	2.8

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

Marriage Rates
by County of Occurrence
Kansas, 2016



Marriages per 1,000 population

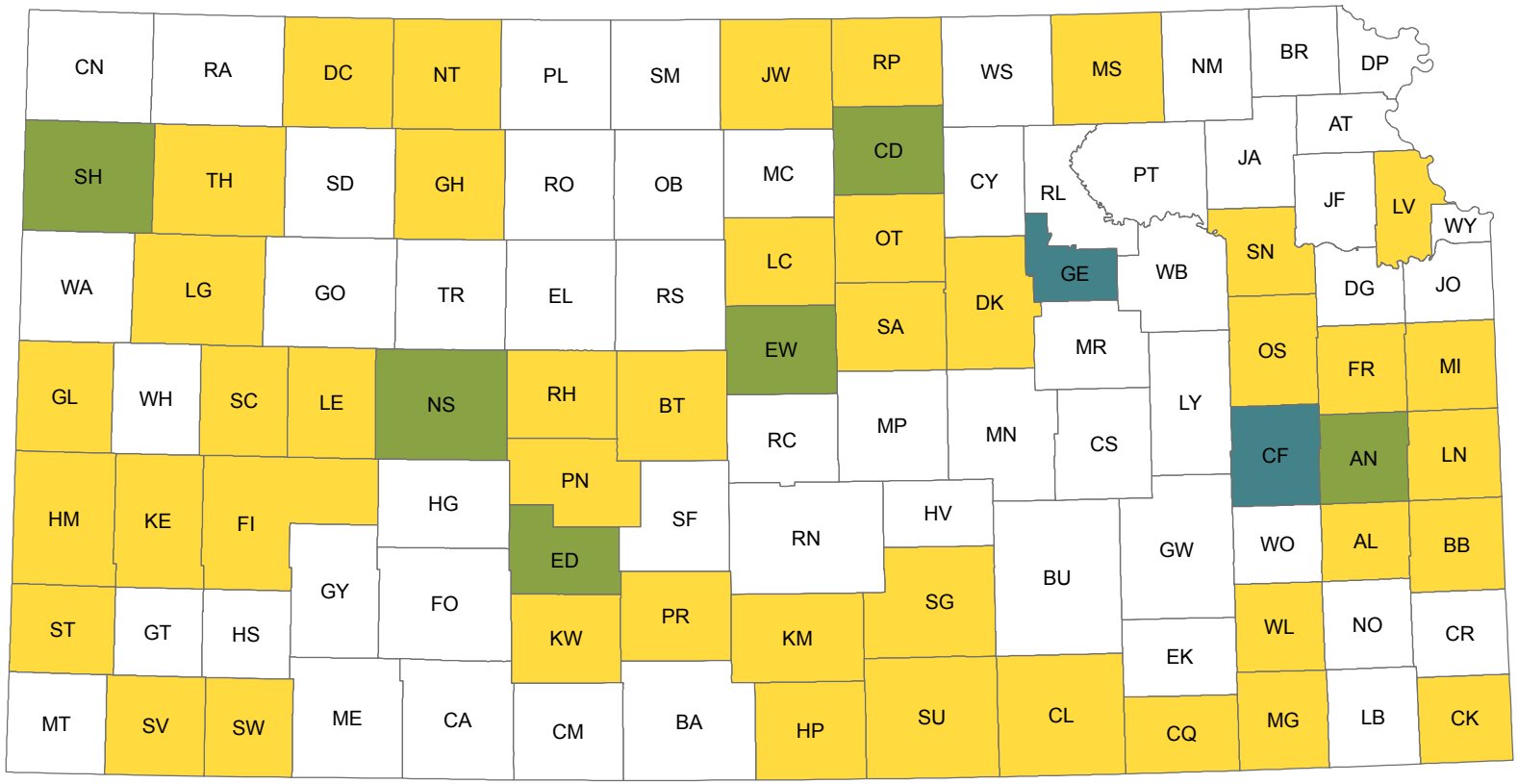
State Rate: 6.2

Legend

- Under 4.5
- 4.5 - 6.4
- 6.5 - 8.9
- 9.0 and Over

Figure F7

Marriage Dissolution Rates
by County of Occurrence
Kansas, 2016



Marriage Dissolutions per 1,000 population

State Rate: 2.5

Legend

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

Figure F8

TECHNICAL NOTES

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Revisions and Updates

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.

Technical Notes (Cont.)

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
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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),

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

2009 Revisions to Certificates

Beginning in July 2009, Kansas implemented an Electronic Death Registration System involving online entry of medical information by physicians. At the same time, the death certificate was modified to include a new item *"3. If female, name prior to first marriage."* Neither change has an effect on the information included in this report.

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

General Methods

Data Sources

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

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

Quality of Data

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

All vital events included in this report cover a calendar year. Birth, death, and stillbirth events are counted in the *2015 Kansas Annual Summary of Vital Statistics* if they were reported by June 30, 2016. The number of events received from other states after the cutoff is less than one percent of the total reports filed and does not have an impact on report statistics.

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

Unknowns and Imputation

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

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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 date~~s~~ 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.

Table B. 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.

This approach results in a unique matrix of population groups for reporting statistics. At the most detailed level, there are nine population-groups: Hispanic any race, White non-Hispanic, Black non-Hispanic, Asian non-Hispanic, Native Hawaiian and other Pacific Islander (NHOPI) non-Hispanic, American Indian/Alaska Native (AIAN) non-Hispanic, Multiple race non-Hispanic, Other race non-Hispanic, and Unknown race non-Hispanic. In the event Hispanic origin is unknown but race information is known, the individual will be reported as the specified race and non-Hispanic.

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

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

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:

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

Technical Notes (Cont.)

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

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

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

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

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

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

Significance test when both rates are based on 100 or more events

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

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

where:

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

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

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

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

Rate Reliability

Vital statistics are easily influenced by random variation and single-year rates can fluctuate widely. A multiple-year rate such as a five- or ten-year average of single-year rates would be more reliable in determining trends in vital events. For example, between 2005 and 2009 the

infant death rate for Kansas ranged from 7.0 to 7.9, while the 2005-2009 five-year infant death rate for Kansas was 7.4 infant deaths per 1,000 live births. A five or 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).

Technical Notes (Cont.)

"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 is not married at the time of conception or at the time of birth or at any time between conception and birth.
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).
Population Density:	The average number of inhabitants per square mile.

DEFINITIONS (cont.)

Population Group:	A reporting matrix of race and Hispanic origin (ethnicity) information comprised of distinct categories.
Post-Hebdomadal Death:	The death of a live-born infant occurring seven days to prior to the twenty-eighth day of life.
Post-Neonatal Death:	The death of a live-born infant occurring 28 days to prior to the 365th day of life.
Pregnancy-Associated Death:	The death of any woman, from any cause, while pregnant or within one calendar year of termination of pregnancy, regardless of the duration and the site of pregnancy. Maternal deaths are a subset of pregnancy-associated deaths.
Prenatal Care:	Pregnancy-related health care services provided to a woman between conception and delivery.
Previous Pregnancy:	Includes all previous reported spontaneous terminations, previous induced abortions, children born still living and children born now dead.
Puerperium:	Period of time after delivery, usually six to eight weeks, during which all maternal reproductive organs return to the normal pre-pregnancy condition.
Small for Gestational Age (SGA):	Condition where the live born infant's birth weight lies below the 10th percentile for that gestational age.
Stillbirth:	Effective July 1, 2014, the definition of stillbirth changed. The new definition is: "Any complete expulsion or extraction from its mother of a product of human conception, the gestation of which is 20 weeks or greater, resulting in other than a live birth, and which is not an induced termination of pregnancy." The old definition used until June 30, 2014 used a fetal weight value of greater than 350 grams to determine whether a miscarriage was a reportable stillbirth.
Residence Data:	Vital statistics compiled on the basis of the usual place of residence of the person(s) to whom the vital event occurred.
Teenage Pregnancy:	A live birth, stillbirth or abortion occurring to a female under 20 years of age.
Total Reported:	Used only for abortion reporting this represents all abortions reported regardless of residence or occurrence locations.
Trimester:	A three-month period of time. First trimester care, for example, refers to care initiated in the first three months of pregnancy. When a pregnancy runs past the normal nine months (up to 11.75 months of pregnancy are possible according to CDC guidance) the additional months are considered part of the third trimester.

DEFINITIONS (cont.)

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:	$\frac{\sum Ma \quad Pa}{P}$	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:	$\frac{\text{perinatal period III deaths}}{\text{live births + stillbirths}}$	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	*Chautauqua*	Cheyenne	Clark	Comanche
Decatur	Edwards	Elk	Gove	Graham	Greeley
Greenwood	Hamilton	Hodgeman	Jewell	Kearny	Kiowa
Lane	Lincoln	Logan	Meade	Morton	Ness
Osborne	Rawlins	*Rooks*	Rush	Sheridan	*Sherman*
Smith	*Stafford*	Stanton	Trego	Wallace	Wichita
Rural					
Anderson	Brown	Clay	Cloud	Coffey	Ellsworth
Grant	Gray	Harper	Haskell	Kingman	Linn
Marion	Marshall	Mitchell	Morris	Nemaha	Norton
Ottawa	Pawnee	Phillips	Pratt	Republic	Rice
Russell	Scott	Stevens	Thomas	Wabaunsee	Washington
Wilson	Woodson				
Densely-Settled Rural					
Allen	Atchison	Barton	Bourbon	Cherokee	Cowley
Dickinson	Doniphan	Ellis	Finney	Ford	*Jackson*
Jefferson	Labette	*Lyon*	McPherson	Neosho	Osage
Pottawatomie	Seward	Sumner			
Semi-Urban					
Butler	Crawford	Franklin	Geary	Harvey	Miami
Montgomery	Reno	Riley	Saline		
Urban					
Douglas	Johnson	*Leavenworth*	Sedgwick	Shawnee	Wyandotte

Italicized counties changed peer group after the 2010 Census.

APPENDIX 3
Metric to English Conversions for Birth Weight Categories

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

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

APPENDIX 4
List of 39 Selected Causes of Death

NUMBER	CAUSE OF DEATH	ICD-10 CODES
1	Tuberculosis	A16-A19
2	Syphilis	A50-A53
3	Human immunodeficiency virus (HIV) disease	B20-B24
	Malignant neoplasms	C00-C97
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
	Major cardiovascular diseases	I00-I78
	Diseases of heart	I00-I09, I11, I13, I20-I51
17	Hypertensive heart disease with or without renal disease	I11, I13
18	Ischemic heart disease	I20-I25
19	Other diseases of heart	I00-I09, I26-I51
	a. Acute Rheumatic Fever and Chronic Rheumatic Heart Disease	*I00-I09*
	b. Pulmonary Heart Disease and Diseases of Pulmonary Circulation	*I26-I28*
	c. Other Forms of Heart Disease	*I30-I51*
20	Essential hypertension and hypertensive renal disease	I10, I12, I15
21	Cerebrovascular disease	I60-I69
	a. Subarachnoid Hemorrhage	*I60*
	b. Intracerebral and other intercranial hemorrhage	*I61-I62*
	c. Cerebral Infarction	*I63*
	d. Stroke, not specified as hemorrhage or infarction	*I64*
	e. Other cerebrovascular diseases	*I67, I69*
22	Atherosclerosis	I70
23	Other diseases of circulatory system	I71-I78
24	Influenza and pneumonia	J09-J18
25	Chronic lower respiratory diseases	J40-J47
26	Peptic ulcer	K25-K28
27	Chronic liver disease and cirrhosis	K70, K73-K74
28	Nephritis, nephrotic syndrome and nephrosis	N00-N07, N17-N19, N25-N27
29	Pregnancy, childbirth and the puerperium	O00-O99
30	Certain conditions originating in the perinatal period	P00-P96
31	Congenital malformations, deformations and chromosomal abnormalities	Q00-Q99
32	Sudden infant death syndrome (SIDS)	R95
33	Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (excluding Sudden infant death syndrome)	R00-R94, R96-R99
34	All other diseases (residual)	A00-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
	External causes of Mortality	*U01-*U04, V01-Y89
	Unintentional Injuries	V01-X59, Y40-Y86, Y88
35	Motor vehicle accidents	V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2
	a. Traffic	*V02-V04 (.1, .9), V09.2, V12-V14 (.3-.9), V19 (.4-.6), V20-V28 (.3-.9), V29-V79 (.4-.9), V80 (.3-.5), V81.1,*

		V82.1, V83-V86 (.0-.3), V87 (.0-.8), V89.2
	b. Non-Traffic	*V02-V04 (.0), V09.0, V12-V14 (.0-.2), V19 (.0-.3), V20-V28 (.0-.2), V29-V79 (.0-.3), V81.0, V82.0, V83-V86 (.4-.9), V88 (.0-.8), V89.0*
36	All other and unspecified accidents and adverse effects	V01, V05-V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3, V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-V82.9, V87.9, V88.9, V89.1, V89.3, V89.9, V90-X59, Y40-Y86, Y88
	a. Water transport	*V90-V94*
	b. Air and space transport	*V95-V97*
	c. Falls	*W00-W19*
	d. Inanimate mechanical forces	*W20-W49*
	e. Drowning and submersion	*W65-W74*
	f. Other accidental threats to breathing	*W75-W84*
	g. Electric current, radiation and air temperature/pressure	*W85-W99*
	h. Smoke, fire and flames	*X00-X09*
	i. Forces of nature	*X30-X39*
	j. Poisoning	*X40-X49*
	k. Other unintentional injuries	*V01, V05-V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3, V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-V82.9, V87.9, V88.9, V98-V99, W50-W64, X10-X29, X50-X59, Y85-Y86*
	l. Complications of medical and surgical care	*Y40-Y84, Y88*
37	Intentional self-harm (suicide)	*U03, X60-X84, Y87.0
38	Assault (homicide)	*U01-*U02, X85-Y09, Y87.1
39	All other external causes	Y10-Y36, Y87.2, Y89

APPENDIX 5
Cause of Death Groupings for Infant Death Tables

NUMBER*	CAUSE OF DEATH	ICD-10 CODES
	Infectious and Parasitic Diseases	A00-B98
	Other Diseases and Disorders	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
	Symptoms and Abnormal Findings	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
	External causes of Mortality	*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
	Malignant neoplasms	C00-C97
	Malignant neoplasm of lip, oral cavity and pharynx	C00-C14
	Malignant neoplasm of digestive organs	C15-C26
	Malignant neoplasm of respiratory and intrathoracic organs	C30-C39
	Malignant neoplasm of bone and articular cartilage	C40-C41
	Malignant neoplasm of skin	C43-C44
	Malignant neoplasm of mesothelial and soft tissue	C45-C59
8	Malignant neoplasm of breast	C50
	Malignant neoplasm of genital organs	C51-C63
11	Malignant neoplasm of urinary tract	C64-C68
	Malignant neoplasm of eye and adnexa	C69
	Malignant neoplasm of meninges, brain and other parts of the central nervous system	C70-C72
	Malignant neoplasm of thyroid and other endocrine glands	C73-C75
	Malignant neoplasm of other and unspecified sites	C76-C80, C97
13	Leukemia	C91-C95
	Malignant neoplasm of other lymphoid, hematpoietic and related tissue	C81-C90, C96

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

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

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

APPENDIX 8
Cause of Death Groupings for Stillbirth Tables

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

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

Kansas Department of Health and Environment
Office of Vital Statistics

CERTIFICATE OF STILLBIRTH (FETAL DEATH)

State File Number

1. NAME (First, Middle, Last, Suffix)
2. DATE OF DELIVERY (Month, Day, Year)
3. TIME OF DELIVERY M
4. SEX
5. CITY, TOWN, OR LOCATION OF DELIVERY
6. COUNTY OF DELIVERY
7. PLACE OF DELIVERY
☐ Hospital ☐ Freestanding Birthing Center ☐ Home Delivery
☐ Clinic/Doctor's Office ☐ Other (Specify) _____
8. FACILITY NAME (If not institution, give street and number and zip code)
9. MOTHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix)
10. MOTHER'S LAST NAME PRIOR TO FIRST MARRIAGE
11. DATE OF BIRTH (Month, Day, Year)
12. BIRTHPLACE (State, Territory, or Foreign Country)
13. PRESENT RESIDENCE-STATE
14. COUNTY
15. CITY, TOWN, OR LOCATION
16. STREET AND NUMBER OF PRESENT RESIDENCE
17. ZIPCODE
18. INSIDE CITY LIMITS?
☐ Yes ☐ No
19. MOTHER'S MAILING ADDRESS (If same as residence, leave blank)
20. FATHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix)
21. DATE OF BIRTH (Month, Day, Year)
22. BIRTHPLACE (State, Territory, or Foreign Country)
23. I CERTIFY THAT THE PERSONAL INFORMATION PROVIDED ON THE CERTIFICATE IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
Signature of Parent (or Other Informant) ➢
24. DATE SIGNED (Month, Day, Year)
25. CAUSE/CONDITIONS CONTRIBUTING TO FETAL DEATH
25a. INITIATING CAUSE/CONDITION (Among the choices below, please select the one which most likely began the sequence of events resulting in the death of the fetus.)
Maternal Conditions/Diseases (Specify) _____
Complications of Placenta, Cord, or Membranes – ☐ Rupture of membranes prior to onset of labor ☐ Abruptio placenta ☐ Placental insufficiency ☐ Prolapsed cord
☐ Chorioamnionitis ☐ Other (Specify) _____
Other Obstetrical or Pregnancy Complications (Specify) _____
Fetal Injury (Specify) _____
Other Fetal Conditions/Disorders (Specify) _____
Fetal Anomaly (Specify) _____
Fetal Infection (Specify) _____
☐ Unknown
25b. OTHER SIGNIFICANT CAUSES OR CONDITIONS (Select or specify all other conditions contributing to death in item 25a.)
Maternal Conditions/Diseases (Specify) _____
Complications of Placenta, Cord, or Membranes – ☐ Rupture of membranes prior to onset of labor ☐ Abruptio placenta ☐ Placental insufficiency ☐ Prolapsed cord
☐ Chorioamnionitis ☐ Other (Specify) _____
Other Obstetrical or Pregnancy Complications (Specify) _____
Fetal Injury (Specify) _____
Other Fetal Conditions/Disorders (Specify) _____
Fetal Anomaly (Specify) _____
Fetal Infection (Specify) _____
☐ Unknown
26. ESTIMATED TIME OF FETAL DEATH
☐ Dead at time of first assessment, no labor ongoing
☐ Dead at time of first assessment, labor ongoing
☐ Died during labor, after first assessment
☐ Unknown time of fetal death
27a. WAS AN AUTOPSY PERFORMED?
☐ Yes ☐ No ☐ Planned
27b. WAS A HISTOLOGICAL PLACENTAL EXAMINATION PERFORMED?
☐ Yes ☐ No ☐ Planned
27c. WERE AUTOPSY OR HISTOLOGICAL PLACENTAL EXAMINATION RESULTS USED IN DETERMINING THE CAUSE OF FETAL DEATH?
☐ Yes ☐ No
28. I CERTIFY THAT THIS DELIVERY OCCURRED ON THE DATE STATED ABOVE AND THE FETUS WAS BORN DEAD.
Signature ➢
29. DATE SIGNED (Month, Day, Year)
30. ATTENDANT'S NAME AND TITLE (If delivery not attended by physician)
Name (Type) _____
☐ CNM/CM ☐ Other Midwife ☐ Other (Specify)_____
31. CERTIFIER'S NAME AND TITLE (Type)
_____
☐ M.D. ☐ D.O.
☐ Other (Specify)_____
32. CERTIFIER'S MAILING ADDRESS (Street and Number or Rural Route, City or Town, State, Zip Code)
33a. METHOD OF DISPOSITION
☐ Burial ☐ Cremation ☐ Donation
☐ Hospital Disposition ☐ Removal from State
☐ Other (Specify) _____
33b. PLACE OF DISPOSITION (Name of cemetery, crematory, or other place)
33c. LOCATION (City or Town, and State)
34. FUNERAL DIRECTOR OR HOSPITAL ADMINISTRATOR
Signature ➢
35. FIRM OR HOSPITAL NAME AND ADDRESS
36. DATE FILED BY STATE REGISTRAR (Month, Day, Year)

SAMPLE

37. IF HOME DELIVERY, WAS DELIVERY PLANNED AT HOME? ☐ Yes ☐ No ☐ Unknown

38. MOTHER'S MEDICAL RECORD NO.

39a. WAS MOTHER EVER MARRIED? ☐ Yes ☐ No ☐ Unknown

39b. MOTHER MARRIED? (At birth, conception or any time between) ☐ Yes ☐ No ☐ Unknown

40. PARENT'S HISPANIC ORIGIN (Check the box or boxes that best describes whether the parent is Spanish, Hispanic, or Latino. Check the "no" box if the parent is not Spanish, Hispanic, or Latino.)

40a. MOTHER-
- ☐ No, not Spanish/ Hispanic/Latina
- ☐ Yes, Mexican/Mexican American/Chicana
- ☐ Yes, Puerto Rican
- ☐ Yes, Cuban
- ☐ Yes, Central American
- ☐ Yes, South American
- ☐ Yes, other Spanish/ Hispanic/Latina (Specify) _____
- ☐ Unknown

40b. FATHER-
- ☐ No, not Spanish/ Hispanic/Latino
- ☐ Yes, Mexican/Mexican American/Chicano
- ☐ Yes, Puerto Rican
- ☐ Yes, Cuban
- ☐ Yes, Central American
- ☐ Yes, South American
- ☐ Yes, other Spanish/ Hispanic/Latino (Specify) _____
- ☐ Unknown

41. PARENT'S RACE (Check one or more races to indicate what you consider yourself to be.)

41a. MOTHER
- ☐ White
- ☐ Black or African American
- ☐ American Indian or Alaska Native (Name of the enrolled or principal tribes) _____
- ☐ Asian Indian
- ☐ Chinese
- ☐ Filipino
- ☐ Japanese
- ☐ Korean
- ☐ Vietnamese
- ☐ Other Asian (Specify) _____
- ☐ Native Hawaiian
- ☐ Guamanian or Chamorro
- ☐ Samoan
- ☐ Other Pacific Islander (Specify) _____
- ☐ Other (Specify) _____
- ☐ Unknown

41b. FATHER
- ☐ White
- ☐ Black or African American
- ☐ American Indian or Alaska Native (Name of the enrolled or principal tribes) _____
- ☐ Asian Indian
- ☐ Chinese
- ☐ Filipino
- ☐ Japanese
- ☐ Korean
- ☐ Vietnamese
- ☐ Other Asian (Specify) _____
- ☐ Native Hawaiian
- ☐ Guamanian or Chamorro
- ☐ Samoan
- ☐ Other Pacific Islander (Specify) _____
- ☐ Other (Specify) _____
- ☐ Unknown

42. ANCESTRY - What is the parents' ancestry or ethnic origin?- Italian, German, Dominican, Vietnamese, Hmong, French Canadian, etc. (Specify below)

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
- ☐ 8th grade or less
- ☐ 9th - 12th grade, no diploma
- ☐ High school graduate or GED
- ☐ Some College credit, but no degree
- ☐ Associate degree (e.g., AA,AS)
- ☐ Bachelor's degree (e.g., BA, AB, BS)
- ☐ Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)
- ☐ Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)
- ☐ Unknown

44a. FATHER'S EDUCATION
- ☐ 8th grade or less
- ☐ 9th - 12th grade, no diploma
- ☐ High school graduate or GED
- ☐ Some College credit, but no degree
- ☐ Associate degree (e.g., AA,AS)
- ☐ Bachelor's degree (e.g., BA, AB, BS)
- ☐ Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)
- ☐ Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)
- ☐ Unknown

45. PREVIOUS LIVE BIRTHS (Do not include this child.)

45a. Now living Number _____ ☐ None

45b. Now dead Number _____ ☐ None

46. NUMBER OF OTHER OUTCOMES (Spontaneous or induced losses or ectopic or stillbirth pregnancies)

46a. Before 20 weeks Number _____ ☐ None

46b. 20 weeks & over Number _____ ☐ None

47. PLURALITY – Single, Twin, Triplet, etc. (Specify)

48. IF NOT A SINGLE BIRTH – Born First, Second, Third, etc. (Specify)

49. DATE LAST NORMAL MENSES BEGAN (Month, Day, Year)

50. OBSTETRIC ESTIMATE OF GESTATION (Completed Weeks)

45c. DATE OF LAST LIVE BIRTH (Month, Year)

46c. DATE OF LAST OTHER PREGNANCY OUTCOME (Month, Year)

51. WEIGHT OF FETUS (grams)

52. PRENATAL CARE? ☐ Yes ☐ No

53. DATE OF FIRST PRENATAL CARE VISIT (Month, Day, Year)

54. DATE OF LAST PRENATAL CARE VISIT (Month, Day, Year)

55. PRENATAL VISIT – Total number (If none, enter "0")

56. CIGARETTE SMOKING BEFORE & DURING PREGNANCY: Did mother smoke 3 mos. before or during pregnancy?
☐ Yes ☐ No ☐ Unknown

For each time period, enter either the number of cigarettes or the number of packs of cigarettes **smoked per day**. If none, enter "0".

Average number of cigarettes or packs of cigarettes smoked **per day**:

	No.	No.
Three months before pregnancy:	_____ cigarettes or	_____ packs
First three months of pregnancy:	_____ cigarettes or	_____ packs
Second three months of pregnancy:	_____ cigarettes or	_____ packs
Third Trimester of pregnancy:	_____ cigarettes or	_____ packs

57. PRINCIPAL SOURCE OF PAYMENT FOR THIS DELIVERY
- ☐ Medicaid
- ☐ Private/Employer Ins.
- ☐ Self-pay
- ☐ Indian Health Service
- ☐ CHAMPUS/TRICARE
- ☐ Other government
- ☐ Other
- ☐ Unknown

58a. MOTHER TRANSFERRED IN FOR DELIVERY DUE TO MATERNAL, MEDICAL, OR FETAL INDICATIONS?
☐ Yes ☐ No (If yes, enter facility name)

58b. FACILITY TRANSFERRED FROM:

SAMPLE

CHILD'S NAME _____ MOTHER'S NAME _____

PRENATAL	LABOR-DELIVERY/STILLBORN FETUS

59. NUTRITION OF MOTHER

1. Height _____
2. Prepregnancy Weight _____
3. Weight at delivery _____
4. Did mother get WIC food for herself?

   Yes _____ No _____ Unknown ___

60. MEDICAL RISK FACTORS (Check all that apply.)

1. ☐ Diabetes, prepregnancy
2. ☐ Diabetes, gestational
3. Hypertension
   - ☐ Prepregnancy (Chronic)
   - ☐ Gestational (PIH, preeclampsia)
   - ☐ Eclampsia
4. ☐ Previous preterm birth
5. ☐ Other previous poor pregnancy outcome (SGA, perinatal death, etc.)
6. ☐ Vaginal bleeding during this pregnancy prior to labor
7. ☐ Pregnancy resulted from infertility treatment (If yes, check all that apply.)
   - ☐ Fertility-enhancing drugs, Artificial insemination or Intrauterine insemination
   - ☐ Assisted reproductive technology (e.g. in vitro fertilization (IVF), gamete intrafallopian transfer (GIFT))
8. ☐ Mother had a previous cesarean delivery, if yes, how many Number ____
9. ☐ Alcohol use No. of drinks per week: _____
10. ☐ None of the above

61. METHOD OF DELIVERY

1. Forceps attempted? Yes ____ No____

   Successful: Yes _____ No_____
2. Vacuum extraction attempted?

   Yes _____ No_____

   Successful: Yes _____ No _____
3. Fetal presentation at delivery
   - ☐ Cephalic
   - ☐ Breech
   - ☐ Other
4. Final route and method of delivery (check one)
   - ☐ Vaginal/spontaneous
   - ☐ Vaginal/forceps
   - ☐ Vaginal/vacuum
   - ☐ Cesarean, if cesarean was a trial of labor attempted?

     Yes _____ No_____
5. Hysterotomy/Hysterectomy

   Yes _____ No _____

62. MATERNAL MORBIDITY (Check all that apply.)
(These are complications associated with labor and delivery.)

1. ☐ Maternal transfusion
2. ☐ Third or fourth degree perineal laceration
3. ☐ Ruptured uterus
4. ☐ Unplanned hysterectomy
5. ☐ Admission to intensive care unit
6. ☐ Unplanned operating room procedure following delivery
7. ☐ None of the above

63. INFECTIONS PRESENT AND/OR TREATED (During this pregnancy, check all that apply.)

1. ☐ Gonorrhea
2. ☐ Syphilis
3. ☐ Herpes Simplex Virus (HSV)
4. ☐ Chlamydia
5. ☐ Listeria
6. ☐ Group B Streptococcus
7. ☐ Cytomeglovirus
8. ☐ Parvo virus
9. ☐ Toxoplasmosis
10. ☐ AIDS or HIV antibody
11. ☐ None of the above
12. ☐ Other (Specify) _____

64. CONGENITAL ANOMALIES OF THE NEWBORN (Check all that apply.)

1. ☐ Anencephaly
2. ☐ Meningomyelocele/Spina bifida
3. ☐ Cyanotic congenital heart disease
4. ☐ Congenital diaphragmatic hernia
5. ☐ Omphalocele
6. ☐ Gastroschisis
7. ☐ Limb reduction defect (excluding congenital amputation and dwarfing syndromes)
8. ☐ Cleft Lip with or without Cleft Palate
9. ☐ Cleft Palate alone
10. ☐ Down Syndrome
    - ☐ Karyotype confirmed
    - ☐ Karyotype pending
11. ☐ Suspected chromosomal disorder
    - ☐ Karyotype confirmed
    - ☐ Karyotype pending
12. ☐ Hypospadias
13. ☐ Fetal alcohol syndrome
14. ☐ Other congenital anomalies *(Specify)* _____
15. ☐ None of the above

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

Serological Test Made: _____ 1st _____ 2nd _____ 3rd (Trimester) _____ At Delivery _____ Not Performed

If no test made, state reason: _____

SAMPLE

Kansas Department of Health and Environment
Office of Vital Statistics

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
☐ Hospital ☐ Freestanding Birthing Center ☐ Home Birth
☐ Clinic/Doctor's Office ☐ Other (Specify) _____

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

10. I CERTIFY THAT THE STATED INFORMATION CONCERNING THIS CHILD IS TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF.
Certifier's Signature ➢ _____

11. DATE SIGNED (Month, Day, Year)

12. ATTENDANT'S NAME AND TITLE (Type)
Name _____
☐ M.D. ☐ D.O. ☐ C.N.M. ☐ Other Midwife
☐ Other (Specify) _____

13. Certifier's Name and Title (Type)
Name _____
☐ M.D. ☐ D.O. ☐ Hosp Adm. ☐ C.N.M. ☐ Other Midwife
☐ Other (Specify) _____

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

15. MOTHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix)		16. MOTHER'S LAST NAME PRIOR TO FIRST MARRIAGE
17. DATE OF BIRTH (Month, Day, Year)	18. BIRTHPLACE (State, Territory, or Foreign Country)	19. PRESENT RESIDENCE-STATE
20. COUNTY	21. CITY, TOWN, OR LOCATION	22. STREET AND NUMBER OF PRESENT RESIDENCE
23. ZIP CODE	24. INSIDE CITY LIMITS? ☐ YES ☐ NO	25. MOTHER'S MAILING ADDRESS (If same as residence, leave blank)
26. FATHER'S CURRENT LEGAL NAME (First, Middle, Last, Suffix)	27. DATE OF BIRTH (Month, Day, Year)	28. BIRTHPLACE (State, Territory, or Foreign Country)

29. PARENTS REQUEST SOCIAL SECURITY NUMBER ISSUANCE?
☐ YES ☐ NO

30. IMMUNIZATION REGISTRY
I wish to enroll my child in the Immunization Registry ☐ YES ☐ 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)

SAMPLE

34. IF HOME BIRTH, WAS DELIVERY PLANNED AT HOME? ☐ Yes ☐ No ☐ Unknown

35. MOTHER'S SOCIAL SECURITY NUMBER

36. FATHER'S SOCIAL SECURITY NUMBER

37a. WAS MOTHER EVER MARRIED? ☐ Yes ☐ No ☐ Unknown

37b. MOTHER MARRIED? (At birth, conception or any time between) ☐ Yes ☐ No ☐ Unknown

37c. IF NO, HAS PATERNITY ACKNOWLEDGMENT BEEN SIGNED? ☐ Yes ☐ No

37d. MOTHER REFUSES TO GIVE HUSBAND'S INFORMATION ☐ Yes ☐ No

38. WHAT IS THE PRIMARY LANGUAGE SPOKEN IN THE HOME? ☐ English ☐ Spanish ☐ Vietnamese ☐ German ☐ French ☐ Russian ☐ Ukrainian ☐ Mandarin ☐ Cantonese ☐ Sign Language ☐ Other *(Specify)* _____

39. PARENT'S HISPANIC ORIGIN (Check the box or boxes that best describes whether the parent is Spanish, Hispanic, or Latino. Check the "No" box if the parent is not Spanish, Hispanic, or Latino.)

39a. MOTHER
- ☐ No, not Spanish/ Hispanic/Latina
- ☐ Yes, Mexican/Mexican American/Chicana
- ☐ Yes, Puerto Rican
- ☐ Yes, Cuban
- ☐ Yes, Central American
- ☐ Yes, South American
- ☐ Yes, other Spanish/ Hispanic/Latina

(Specify)_____
- ☐ Unknown

39b. FATHER
- ☐ No, not Spanish/ Hispanic/Latino
- ☐ Yes, Mexican/Mexican American/Chicano
- ☐ Yes, Puerto Rican
- ☐ Yes, Cuban
- ☐ Yes, Central American
- ☐ Yes, South American
- ☐ Yes, other Spanish/ Hispanic/Latino

(Specify)_____
- ☐ Unknown

40. PARENT'S RACE (Check one or more races to indicate what you consider yourself to be.)

40a. MOTHER
- ☐ White
- ☐ Black or African American
- ☐ American Indian or Alaska Native (Name of the enrolled or principal tribes) _____
- ☐ Asian Indian
- ☐ Chinese
- ☐ Filipino
- ☐ Japanese
- ☐ Korean
- ☐ Vietnamese
- ☐ Other Asian (Specify) _____
- ☐ Native Hawaiian
- ☐ Guamanian or Chamorro
- ☐ Samoan
- ☐ Other Pacific Islander (Specify) _____
- ☐ Other (Specify) _____
- ☐ Unknown

40b. FATHER
- ☐ White
- ☐ Black or African American
- ☐ American Indian or Alaska Native (Name of the enrolled or principal tribes) _____
- ☐ Asian Indian
- ☐ Chinese
- ☐ Filipino
- ☐ Japanese
- ☐ Korean
- ☐ Vietnamese
- ☐ Other Asian (Specify) _____
- ☐ Native Hawaiian
- ☐ Guamanian or Chamorro
- ☐ Samoan
- ☐ Other Pacific Islander (Specify) _____
- ☐ Other (Specify) _____
- ☐ Unknown

41. ANCESTRY - What is the parents' ancestry or ethnic origin?- Italian, German, Dominican, Vietnamese, Hmong, French Canadian, etc. (Specify below)

41a. MOTHER

41b. FATHER

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
- ☐ 8th grade or less
- ☐ 9th - 12th grade; no diploma
- ☐ High school graduate or GED
- ☐ Some College credit, but no degree
- ☐ Associate degree (e.g., AA,AS)
- ☐ Bachelor's degree (e.g., BA, AB, BS)
- ☐ Unknown
- ☐ Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)
- ☐ Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)

43b. FATHER'S EDUCATION
- ☐ 8th grade or less
- ☐ 9th - 12th grade; no diploma
- ☐ High school graduate or GED
- ☐ Some College credit, but no degree
- ☐ Associate degree (e.g., AA,AS)
- ☐ Bachelor's degree (e.g., BA, AB, BS)
- ☐ Unknown
- ☐ Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)
- ☐ Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)

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? ☐ Yes ☐ No

49. PRENATAL VISITS-Total Number (If none, enter "0")

44a. Now living Number _____ ☐ None

44b. Now dead Number _____ ☐ None

45a. Before 20 weeks Number _____ ☐ None

45b. 20 weeks & over Number _____ ☐ None

47. DATE OF FIRST PRENATAL CARE VISIT (Month, Day, Year)

50. DATE LAST NORMAL MENSES BEGAN (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)

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? ☐ Yes ☐ No ☐ Unknown

56. IS INFANT BEING BREAST-FED AT DISCHARGE? ☐ Yes ☐ No ☐ Unknown

57. CIGARETTE SMOKING BEFORE & DURING PREGNANCY: Did mother smoke 3 mos. before or during pregnancy? ☐ Yes ☐ No ☐ Unknown

For each time period, enter either the number of cigarettes or the number of packs of cigarettes smoked **per day** during 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
- ☐ Medicaid
- ☐ Private/Employer Ins.
- ☐ Self-pay
- ☐ Indian Health Service government
- ☐ CHAMPUS/TRICARE
- ☐ Other
- ☐ Other (Specify) _____
- ☐ 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? ☐ Yes ☐ No (If yes, enter facility name)

FACILITY TRANSFERRED FROM:

62. INFANT TRANSFERRED (Within 24 hours of delivery) ☐ Yes ☐ No (If yes, enter facility name)

FACILITY TRANSFERRED TO:

SAMPLE

CHILD'S NAME _____ MOTHER'S NAME _____

PRENATAL (Birth)

63. NUTRITION OF MOTHER

1. Height _____
2. Prepregnancy Weight _____
3. Weight at delivery _____
4. Did mother get WIC food for herself?
   Yes _____ No _____
   Unknown _____

64. MEDICAL RISK FACTORS (Check all that apply.)

1. ☐ Diabetes, prepregnancy
2. ☐ Diabetes, gestational
3. Hypertension
   - ☐ Prepregnancy (Chronic)
   - ☐ Gestational (PIH, preeclampsia)
   - ☐ Eclampsia
4. ☐ Previous preterm birth
5. ☐ Other previous poor pregnancy outcome (SGA, perinatal death, etc.)
6. ☐ Vaginal bleeding during this pregnancy prior to labor
7. ☐ Pregnancy resulted from infertility treatment (If yes, check all that apply.)
   - ☐ Fertility-enhancing drugs, Artificial insemination or Intrauterine insemination
   - ☐ Assisted reproductive technology (e.g. in vitro fertilization (IVF), gamete intrafallopian transfer (GIFT))
8. ☐ Mother had a previous cesarean delivery, if yes, how many? Number: _____
9. ☐ Alcohol use No. of drinks per week: _____
10. ☐ None of the above

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
   - ☐ Cephalic
   - ☐ Breech
   - ☐ Other
4. Final route and method of delivery (check one)
   - ☐ Vaginal/spontaneous
   - ☐ Vaginal/forceps
   - ☐ Vaginal/vacuum
   - ☐ Cesarean, if cesarean was a trial of labor attempted? Yes _____ No_____

LABOR-DELIVERY/NEWBORN

66. OBSTETRICAL PROCEDURES (Check all that apply.)

1. ☐ Cervical cerclage
2. ☐ Tocolysis
3. External cephalic version:
   - ☐ Successful
   - ☐ Failed
4. ☐ None of the above

67. ONSET OF LABOR (Check all that apply.)

1. ☐ Premature Rupture of the Membranes (prolonged, ≥ 12 hours)
2. ☐ Precipitous Labor (< 3 hrs)
3. ☐ Prolonged Labor (≥ 20 hrs)
4. ☐ None of the above

68. CHARACTERISTICS OF LABOR AND DELIVERY (Check all that apply.)

1. ☐ Induction of labor
2. ☐ Augmentation of labor
3. ☐ Non-vertex presentation
4. ☐ Steroids (glucocorticoids) for fetal lung maturation received by the mother prior to delivery
5. ☐ Antibiotics received by the mother during labor
6. ☐ Clinical chorioamnionitis diagnosed during labor or maternal temperature ≥ 38 C (100.4 F)
7. ☐ Moderate/heavy meconium staining of the amniotic fluid
8. ☐ Fetal intolerance of labor: (examples: in-utero resuscitative measures, further fetal assessment, or operative delivery)
9. ☐ Epidural or spinal anesthesia during labor
10. ☐ None of the above

69. MATERNAL MORBIDITY (Check all that apply.) (These are complications associated with labor and delivery.)

1. ☐ Maternal transfusion
2. ☐ Third or fourth degree perineal laceration
3. ☐ Ruptured uterus
4. ☐ Unplanned hysterectomy
5. ☐ Admission to intensive care unit
6. ☐ Unplanned operating room procedure following delivery
7. ☐ None of the above

70. INFECTIONS PRESENT AND/OR TREATED (During this pregnancy, check all that apply.)

1. ☐ Gonorrhea
2. ☐ Syphilis
3. ☐ Herpes Simplex Virus (HSV)
4. ☐ Chlamydia
5. ☐ Hepatitis B
6. ☐ Hepatitis C
7. ☐ AIDS or HIV antibody
8. ☐ None of the above

71. ABNORMAL CONDITIONS OF NEWBORN (Check all that apply)

1. ☐ Assisted ventilation required immediately following delivery
2. ☐ Assisted ventilation required for more than six hours
3. ☐ NICU admission
4. ☐ Newborn given surfactant replacement therapy
5. ☐ Antibiotics received by the newborn for suspected neonatal sepsis
6. ☐ Seizure or serious neurologic dysfunction
7. ☐ Significant birth injury (skeletal fracture(s), peripheral nerve injury, and/or soft tissue/solid organ hemorrhage which requires intervention
8. ☐ None of the above

72. VACCINES ADMINISTERED TO NEWBORN

1. ☐ Hepatitis B Date Given: _____
2. ☐ Other* Specify: _____
   Date Given: _____

73. APGAR SCORE

1 min	5 min	10 min

74. CONGENITAL ANOMALIES OF THE NEWBORN (Check all that apply.)

1. ☐ Anencephaly
2. ☐ Meningomyelocele/Spina bifida
3. ☐ Cyanotic congenital heart disease
4. ☐ Congenital diaphragmatic hernia
5. ☐ Omphalocele
6. ☐ Gastroschisis
7. ☐ Limb reduction defect (excluding congenital amputation and dwarfing syndromes)
8. ☐ Cleft Lip with or without Cleft Palate
9. ☐ Cleft Palate alone
10. ☐ Down Syndrome
    - ☐ Karyotype confirmed
    - ☐ Karyotype pending
11. ☐ Suspected chromosomal disorder
    - ☐ Karyotype confirmed
    - ☐ Karyotype pending
12. ☐ Hypospadias
13. ☐ Fetal alcohol syndrome
14. ☐ Other congenital anomalies *(Specify)* _____
15. ☐ None of the above

Parent's Telephone Number: _____

SAMPLE

CHILD'S NAME _____ MOTHER'S NAME _____

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

Infant's patient number:

Infant's Primary Care Physician

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

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

Physiologic equipment used ✓: _____ OAE _____ AABR _____ ABR

If screening not accomplished, ✓ one reason:

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

SAMPLE

TYPE OR PRINT IN PERMANENT INK

KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT
Bureau of Epidemiology and Public Health Informatics
Curtis State Office Building, Suite 130
1000 SW Jackson
Topeka, Kansas 66612-1354
785-296-8627

Used beginning 7-1-2014

Report of Induced Termination of Pregnancy

State File Number

1. Provider Identification Number

2. Patient ID Number

3. Age on Last Birthday

4. Married ☐ Yes ☐ No

5. Date of Pregnancy Termination
Month ☐☐ Day ☐☐ Year ☐☐☐☐

6a. Residence *US State or Country*

6b. County

6c. City or Town

6d. Inside City Limits ☐ Yes ☐ No

7a. Hispanic Origin
(Check the box or boxes that best describes whether the individual is Spanish, Hispanic, or Latina, or not Spanish, Hispanic, or Latina)

- ☐ Not Spanish, Hispanic, or Latina
- ☐ Mexican, Mexican American, or Chicana
- ☐ Puerto Rican
- ☐ Cuban
- ☐ Central American
- ☐ South American
- ☐ Other Spanish, Hispanic, or Latina (specify) _____
- ☐ Unknown

7b. Ancestry
(Enter the name of the country that best describes the heritage or origin of the individual)

8. Race
(Check one or more races to indicate what the individual considers herself to be

- ☐ White
- ☐ Black or African American
- ☐ American Indian or Alaska Native
  Principal Tribe(s)_____
- ☐ Asian Indian
- ☐ Chinese
- ☐ Filipino
- ☐ Japanese
- ☐ Korean
- ☐ Vietnamese
- ☐ Other Asian (specify) _____
- ☐ Native Hawaiian
- ☐ Guamanian or Chamorro
- ☐ Samoan
- ☐ Other Pacific Islander (specify) _____
- ☐ Other (specify) _____
- ☐ Unknown

9. Education
(specify only highest grade completed)

- ☐ 8th grade or less
- ☐ 9th-12th grade no diploma
- ☐ High school graduate/GED
- ☐ Some College - no degree
- ☐ Associate degree
- ☐ Bachelor's degree
- ☐ Master's degree
- ☐ Doctorate
- ☐ Unknown

10. Date Last Normal Menses Began
Month ☐☐ Day ☐☐ Year ☐☐☐☐

11. Clinical Estimate of Gestation
(Weeks) *

12. Previous Pregnancies
(Enter number or zero in every section)

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
(Check only one)

- ☐ Suction Curettage
- ☐ Sharp Curettage
- ☐ Dilation & Evacuation
- ☐ Medical Procedure I (Mifepristone)
- ☐ Medical Procedure II (Methotrexate)
- ☐ Intra-Uterine Prostaglandin Instillation
- ☐ Hysterotomy
- ☐ Hysterectomy
- ☐ Digoxin/Induction
- ☐ Partial Birth **
- ☐ Other (Specify) _____

13b Additional procedures used for this termination, if any
(Check all that apply)

- ☐ Suction Curettage
- ☐ Sharp Curettage
- ☐ Dilation & Evacuation
- ☐ Medical Procedure I (Mifepristone)
- ☐ Medical Procedure II (Methotrexate)
- ☐ Intra-Uterine Prostaglandin Instillation
- ☐ Hysterotomy
- ☐ Hysterectomy
- ☐ Digoxin/Induction
- ☐ Partial Birth **
- ☐ Other (Specify) _____

14 Reasons for determining gestational age - describe methods used.

15. Was report of physical, mental, or emotional abuse or neglect filed pursuant to K.S.A. 38-2223?
YES ☐ NO ☐

* If clinical estimate of gestational age is 22 weeks or more, complete reverse side of form.
** If Partial Birth Procedure as defined by KSA 65-6721 is used, complete reverse side of form.

VS 213 Rev. 7/2014

SAMPLE

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.

SAMPLE

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 MARRAIGE
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? ☐ Yes ☐ No ☐ Unknown
10a. PLACE OF DEATH (Check only one)
HOSPITAL ☐ Inpatient ☐ DOA ☐ ER/Outpatient
☐ Nursing Home ☐ Hospice Facility ☐ Assisted Living Facility
☐ Decedent's Residence ☐ Other (Specify) _____
10b. FACILITY NAME (If not institution, give street and number)
10c. COUNTY OF DEATH
10d. CITY OR TOWN OF DEATH
10e. ZIP CODE
11. MARITAL STATUS ☐ Married ☐ Married, but separated ☐ Widowed ☐ Divorced ☐ Never Married ☐ Unknown
12. SURVIVING SPOUSE (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? ☐ Yes ☐ No ☐ 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 ☐ Burial ☐ Cremation ☐ Removal from State ☐ Donation ☐ Entombment ☐ Other (Specify) _____
18a. PLACE OF DISPOSITION (Name of cemetery, crematory, or other place)
18b. LOCATION-City or Town, and State
19. FUNERAL SERVICE LICENSEE & LICENSE NO. (Signature)
20. NAME OF EMBALMER & LICENSE NO.
21. NAME AND ADDRESS OF FIRM
22. CAUSE OF DEATH – Part I. Enter the chain of events - diseases, injuries, or complications-that directly caused the death. DO NOT enter terminal events such as cardiac arrest, respiratory arrest, or ventricular fibrillation without showing the etiology. DO NOT ABBREVIATE. Enter only one cause on a line. Add additional lines if necessary.

Approximate Interval: Onset to Death

IMMEDIATE CAUSE (Final disease or condition resulting in death)
a.
DUE TO (OR AS A CONSEQUENCE OF)
b.
DUE TO (OR AS A CONSEQUENCE OF)
c.
DUE TO (OR AS A CONSEQUENCE OF)
d.

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.

PART II. Enter other significant conditions contributing to death, but not resulting in the underlying cause given in Part I.

23a. AUTOPSY ☐ Yes ☐ No ☐ Unknown
23b. WERE AUTOPSY FINDINGS AVAILABLE TO COMPLETE THE CAUSE OF DEATH? ☐ Yes ☐ No ☐ Unknown ☐ Not Applicable
23c. WAS CORONER CONTACTED? ☐ Yes ☐ No ☐ Unknown
24. DID TOBACCO USE CONTRIBUTE TO DEATH? ☐ Yes ☐ Probably ☐ No ☐ Unknown
25. IF FEMALE
☐ Not pregnant within past year
☐ Pregnant at time of death
☐ Not pregnant, but pregnant within 42 days of death
☐ Not pregnant, but pregnant 43 days to 1 year before death
☐ Unknown if pregnant within the last year
26. MANNER OF DEATH ☐ Natural ☐ Homicide ☐ Accident ☐ Pending Investigation ☐ Suicide ☐ Could not be determined
27a. DATE OF INJURY (Month, Day, Year)
27b. TIME OF INJURY A.M. P.M.
27c. INJURY AT WORK ☐ Yes ☐ No
27d. DESCRIBE HOW INJURY OCCURRED
27e. PLACE OF INJURY-Residence, farm, street, factory, building, etc. (Specify)
27f. LOCATION (Street and Number or Rural Route, City or Town, State, Zip Code)
28a. DATE PRONOUNCED DEAD (Month, Day, Year)
28b. TIME PRONOUNCED DEAD 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)
☐ Certifying physician - To the best of my knowledge, death occurred due to the cause(s) and manner stated.
☐ Pronouncing & Certifying physician - To the best of my knowledge, death occurred at the time, date, and place, and due to the cause(s) and manner stated.
☐ Coroner - On the basis of examination, and/or investigation, in my opinion, death occurred at the time, date, and place, and due to the cause(s) and manner stated.

Signature of certifier ➢ LICENSE NO. DATE CERTIFIER SIGNED

29b. NAME, ADDRESS, AND ZIP CODE OF PERSON COMPLETING CAUSE OF DEATH ☐ M.D. ☐ D.O. ☐ SPEC. DEPUTY
30. DATE FILED BY STATE REGISTRAR (Month, Day, Year)

Sample

31. ANCESTRY-What is this person's ancestry or ethnic origin? Italian, German, Dominican, Vietnamese, Hmong, French Canadian, etc. (Specify below)

32. HISPANIC ORIGIN (Check the box or boxes that best describes whether the decedent is Spanish/Hispanic/Latino. Check the "no" box if the decedent is not Spanish/Hispanic/Latino)

- ☐ No, not Spanish/Hispanic/Latino
- ☐ Yes, Mexican/Mexican American/Chicano
- ☐ Yes, Puerto Rican
- ☐ Yes, Cuban
- ☐ Yes, Central American
- ☐ Yes, South American
- ☐ Yes, other Spanish/Hispanic/Latino (Specify)

_____

- ☐ Unknown

33. RACE (Check one or more boxes to indicate what race(s) the decedent considered himself or herself to be.)

- ☐ White
- ☐ Black or African American
- ☐ American Indian or Alaska Native (Name of the enrolled or principal tribes)

_____

_____

- ☐ Asian Indian
- ☐ Chinese
- ☐ Filipino
- ☐ Japanese
- ☐ Korean
- ☐ Vietnamese
- ☐ Other Asian (Specify)

_____

_____

- ☐ Native Hawaiian
- ☐ Guamanian or Chamorro
- ☐ Samoan
- ☐ Other Pacific Islander (Specify)

_____

_____

- ☐ Other (Specify)

_____

_____

- ☐ Unknown

34. EDUCATION (Check the box that best describes the highest degree or level of school completed at the time of death.)

- ☐ 8th grade or less
- ☐ 9th - 12th grade; no diploma
- ☐ High school graduate or GED
- ☐ Some College credit, but no degree
- ☐ Associate degree (e.g., AA, AS)
- ☐ Bachelor's degree (e.g., BA, AB, BS)
- ☐ Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)
- ☐ Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)
- ☐ Unknown

35. DECEDENT'S USUAL OCCUPATION (Give kind of work done during most of working life. Do not use retired.)

36. KIND OF BUSINESS/INDUSTRY (Do not give name of company.)

Sample

License No.

STATE OF KANSAS
DEPARTMENT OF HEALTH AND ENVIRONMENT
Office of Vital Statistics

Marriage License

1. GROOM'S NAME – FIRST	MIDDLE	LAST	2. DATE OF BIRTH (Month, Day, Year)
3. BIRTHPLACE (State or Foreign Country)	4. RESIDENCE – STATE OR FOREIGN COUNTRY	5. COUNTY OR PROVINCE	6. CITY OR TOWN
7. FATHER'S NAME (First, Middle, Last)	8. BIRTHPLACE (State or Foreign Country)	9. MOTHER'S NAME PRIOR TO FIRST MARRIAGE (First, Middle, Last)	10. BIRTHPLACE (State or Foreign Country)
11. BRIDE'S NAME- FIRST	MIDDLE	LAST	
12. LAST NAME PRIOR TO FIRST MARRIAGE (If different)	13. DATE OF BIRTH (Month, Day, Year)	14. BIRTHPLACE (State or Foreign Country)	
15. RESIDENCE – STATE OR FOREIGN COUNTRY	16. COUNTY OR PROVINCE	17. CITY OR TOWN	
18. FATHER'S NAME (First, Middle, Last)	19. BIRTHPLACE (State or Foreign Country)	20. MOTHER'S NAME PRIOR TO FIRST MARRIAGE (First, Middle, Last)	21. BIRTHPLACE (State or Foreign Country)
22a. GROOM'S MOTHER/PARENT I OR GUARDIAN CONSENTING (If applicable, type or print)		22c. BRIDE'S MOTHER/PARENT I OR GUARDIAN CONSENTING (If applicable, type or print)	
22b. GROOM'S FATHER/PARENT II OR GUARDIAN CONSENTING (If applicable, type or print)		22d. BRIDE'S FATHER/PARENT II OR GUARDIAN CONSENTING (If applicable, type or print)	
22e. HAVE ALL LIVING PARENT(S) OR GUARDIAN(S) CONSENTED? GROOM Yes ☐ No ☐ Emancipated ☐ Parent(s) Deceased ☐		BRIDE Yes ☐ No ☐ Emancipated ☐ Parent(s) Deceased ☐	
22f. NAME OF CONSENTING JUDGE (If applicable, please type or print)			

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

SAMPLE

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.)

44a. GROOM	44b. BRIDE
☐ No, not Spanish/ Hispanic/Latino	☐ No, not Spanish/ Hispanic/Latina
☐ Yes, Mexican, Mexican American, Chicano	☐ Yes, Mexican, Mexican American, Chicana
☐ Yes, Puerto Rican	☐ Yes, Puerto Rican
☐ Yes, Cuban	☐ Yes, Cuban
☐ Yes, Central American	☐ Yes, Central American
☐ Yes, South American	☐ Yes, South American
☐ Yes, other Spanish/ Hispanic/Latino	☐ Yes, other Spanish/ Hispanic/Latina
(Specify) _____	(Specify)_____
☐ Unknown	☐ Unknown

45. GROOM AND BRIDE'S RACE (Check one or more boxes to indicate what race(s) you consider yourself to be.)

45a. GROOM		45b. BRIDE	
☐ White	☐ Korean	☐ White	☐ Korean
☐ Black or African American	☐ Vietnamese	☐ Black or African American	☐ Vietnamese
☐ American Indian or Alaska Native (Name of the enrolled or principal tribes) _____	☐ Other Asian (Specify) _____	☐ American Indian or Alaska Native (Name of the enrolled or principal tribes) _____	☐ Other Asian (Specify) _____
	☐ Native Hawaiian		☐ Native Hawaiian
☐ Asian Indian	☐ Guamanian or Chamorro	☐ Asian Indian	☐ Guamanian or Chamorro
☐ Chinese	☐ Samoan	☐ Chinese	☐ Samoan
☐ Filipino	☐ Other Pacific Islander (Specify) _____	☐ Filipino	☐ Other Pacific Islander (Specify) _____
☐ Japanese		☐ Japanese	
☐ Other (Specify) _____	☐ Unknown	☐ Other (Specify) _____	☐ Unknown

46. EDUCATION (Check the box that best describes the highest degree or level of school completed)

46a. GROOM'S EDUCATION	☐ 8th grade or less	☐ 9th - 12th grade; no diploma	☐ High school graduate or GED
	☐ Some College credit, but no degree	☐ Associate degree (e.g., AA,AS)	☐ Bachelor's degree (e.g., BA, AB, BS)
☐ Unknown	☐ Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)	☐ Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)	
46b. BRIDE'S EDUCATION	☐ 8th grade or less	☐ 9th - 12th grade; no diploma	☐ High school graduate or GED
	☐ Some College credit, but no degree	☐ Associate degree (e.g., AA,AS)	☐ Bachelor's degree (e.g., BA, AB, BS)
☐ Unknown	☐ Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)	☐ Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)	

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 ☐ Husband ☐ Wife ☐ Both ☐ 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) ☐ Divorce ☐ 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.)

25a. HUSBAND	25b. WIFE
☐ No, not Spanish/ Hispanic/Latino	☐ No, not Spanish/ Hispanic/Latina
☐ Yes, Mexican/Mexican American/Chicano	☐ Yes, Mexican/Mexican American/Chicana
☐ Yes, Puerto Rican	☐ Yes, Puerto Rican
☐ Yes, Cuban	☐ Yes, Cuban
☐ Yes, Central American	☐ Yes, Central American
☐ Yes, South American	☐ Yes, South American
☐ Yes, other Spanish/ Hispanic/Latino *(Specify)* _____	☐ Yes, other Spanish/ Hispanic/Latina *(Specify)* _____
☐ Unknown	☐ Unknown

26. RACE (Check one or more boxes to indicate what race(s) you consider yourself to be.)

26a. HUSBAND		26b. WIFE	
☐ White	☐ Korean	☐ White	☐ Korean
☐ Black or African American	☐ Vietnamese	☐ Black or African American	☐ Vietnamese
☐ American Indian or Alaska Native (Name of the enrolled or principal tribes) _____ _____	☐ Other Asian (Specify) _____ _____	☐ American Indian or Alaska Native (Name of the enrolled or principal tribes) _____ _____	☐ Other Asian (Specify) _____ _____
	☐ Native Hawaiian		☐ Native Hawaiian
☐ Asian Indian	☐ Guamanian or Chamorro	☐ Asian Indian	☐ Guamanian or Chamorro
☐ Chinese	☐ Samoan	☐ Chinese	☐ Samoan
☐ Filipino	☐ Other Pacific Islander *(Specify)* _____	☐ Filipino	☐ Other Pacific Islander *(Specify)* _____
☐ Japanese		☐ Japanese	
☐ Other *(Specify)* _____ _____	☐ Unknown	☐ Other *(Specify)* _____ _____	☐ Unknown

27. EDUCATION (Check the box that best describes the highest degree or level of school completed.)

27a. HUSBAND'S EDUCATION	☐ 8th grade or less	☐ 9th - 12th grade; no diploma	☐ High school graduate or GED
	☐ Some College credit, but no degree	☐ Associate degree (e.g., AA,AS)	☐ Bachelor's degree (e.g., BA, AB, BS)
☐ Unknown	☐ Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)	☐ Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)	
27b. WIFE'S EDUCATION	☐ 8th grade or less	☐ 9th - 12th grade; no diploma	☐ High school graduate or GED
	☐ Some College credit, but no degree	☐ Associate degree (e.g., AA,AS)	☐ Bachelor's degree (e.g., BA, AB, BS)
☐ Unknown	☐ Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)	☐ Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)	

SAMPLE