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Kansas

Annual Summary of Vital Statistics, 2013

Kansas Department of Health and Environment
Division of Public Health
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October 2014

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

Our Vision – Healthy Kansans living in safe and sustainable environments

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

ANNUAL SUMMARY OF VITAL STATISTICS KANSAS, 2013

Sam Brownback, Governor

Robert Moser, MD, Secretary
Department of Health and Environment

Prepared by the:
Division of Public Health
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Robert Moser, MD, Secretary Department of Health & Environment Sam Brownback, Governor

Dear Kansans:

The Kansas Department of Health and Environment's *2013 Annual Summary of Vital Statistics* is now available for use in program evaluations and community health assessments. For many of the vital events addressed in the report comparison to targets are based on Healthy People 2020 and the U.S. Centers for Disease Control and Prevention's Winnable Battles. Some of the 2013 highlights include:

- The number of infant deaths in 2013 decreased by six, from 254 to 248. Our 2013 infant mortality rate, 6.4 infant deaths per 1,000 live births, is a 1.6 percent increase from a rate of 6.3 infant deaths per 1,000 live births in 2012. This increase continues to remind us that every infant is important. I want to thank the dozens of Kansas organizations working to reduce infant mortality.

- Pregnancy-associated maternal deaths increased from 15 in 2012 to 25 in 2013.

- There was a 15.6 percent decrease (505 deaths in 2012 to 426 deaths in 2013) in the number of Kansas resident suicides. The two age groups with the largest number of suicides were 45-54 (94 deaths) and 55-64 (76 deaths). Our agency is working with other state agencies and partner organizations to increase awareness and provide tools and resources towards suicide prevention to more effectively address this issue.

- The number of Kansas resident deaths increased by 1.0 percent in 2013 (25,347 deaths). The 10 leading causes of death remained the same. Unintentional injury deaths rose to the fourth leading cause, and cerebrovascular deaths is the fifth leading cause of death in Kansas. Tobacco use as reported on death certificates contributed to almost one out of five deaths (23.8%). This is consistent with large-scale epidemiological studies that have estimated tobacco use to account for an estimated one in five deaths.

- The 2013 birth rate is the lowest Kansas birth rate since 1912. The 38,805 births represent a 3.7 percent decrease from the 40,304 births in 2012. Our birth rate has decreased 4.3 percent, from 14.0 to 13.4 births per 1,000 population. Out of wedlock births, at 36.2 percent of all births, declined in 2013 for the third year in a row.

- The state's teen pregnancy rates for women 15-17 and 18-19 remain better than the Healthy People 2020 targets. Our AIDS/HIV age-adjusted mortality rate of 0.8 deaths per 100,000 population is markedly better than the Healthy People 2020 target of 3.3 deaths per 100,000 population. The state has also met Healthy People 2020 target for heart disease mortality and motor-vehicle crash, but has not yet met the targets for cancer, unintentional falls, and cerebrovascular mortality.

These are just a few of the statistics and facts contained in the report's more than 120 tables and figures. I encourage you to look at this summary and become familiar with Kansas' vital statistics and the areas illustrating a need for improvement. This report of vital statistics information can help prioritize efforts as we work to protect and improve the health and environment of all Kansans.

Robert Moser, M.D.

Robert Moser

Secretary and State Health Officer
Kansas Department of Health and Environment

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Annual Summary 2013

Introduction

The 2013 *Annual Summary of Vital Statistics* is a general summary of data compiled from vital event records during calendar year 2013. 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 2013 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 gcrawford@kdheks.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

Kansas increased in population from 2,885,905 residents in 2012 to 2,893,957 residents in 2013, a 0.3 percent increase. Geary, Pottawatomie, and Stevens Counties had the largest relative increases in population from 2009 to 2013 with percent changes of 17.7, 13.5, and 13.4 respectively. Finney, Elk, and Kearny Counties had the largest relative decreases in population, with changes of 11.8, 11.5 and 5.9 percent respectively (Table 4).

Population Density and Peer Groups

The population density of Kansas was 35.4 inhabitants per square mile in 2013, a 14.2 percent increase from 31.2 persons per square mile in 1994. For comparison, the population density of the U.S. increased from 69.8 to 89.4 persons per square mile from 1994 to 2013, a 28.1 percent increase (Figure 8).

In 2013, 36 of the state's 105 counties had population densities of less than 6.0 persons per square mile. The most sparsely populated counties were Greeley and Wallace, with a density of 1.7 persons per square mile. The most densely populated county was Johnson, with 1,197.6 persons per square mile (Figure 9).

Several Kansas counties were re-categorized from one population-density peer group to another starting with the 2010 Annual Summary, to reflect population shifts indicated by the 2010 U.S. Census (See the Technical Notes, Appendix 2).

As a result of these changes, the frontier, densely-settled rural, and urban peer groups had increases in population 2009-2013 of 32.1, 12.2, and 8.3 percent, respectively, while the semi-urban and rural peer groups had decreases in population of 16.7 and 12.5 percent, respectively (Table 4).

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1. Healthy People 2020 [Internet]. Washington: U.S. Department of Health and Human Services; [updated 2013 Aug 28; cited 2013 Sep 30] Available from: http://www.healthypeople.gov/2020/default.aspx.
2. Winnable Battles [Internet]. Atlanta: Centers for Disease Control and Prevention; [updated 2013 Aug 5; cited 2013 Sep 30] Available from: http://www.cdc.gov/winnablebattles/.

Natural Increase

In 2013, the rate of natural increase (the birth rate minus the death rate) was 4.6 persons per 1,000 population, down 13.2 percent from the rate of 5.3 persons per 1,000 population recorded in 2012. Over the past 20 years (1994-2013), the rate of natural increase has fluctuated between a maximum of 6.3 persons per 1,000 population (2007) and a minimum of 4.6 persons per 1,000 population (2013) (Figure 5).

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 2013 was 36.0 years, a 5.6 percent increase from the median age of 34.1 in 1994. The median ages of Kansas males and females in 2013 were 34.6 and 37.4 respectively (Figure 6, Table 6).

Population Characteristics

The percent increase in the Kansas total population from 1994-2013 was 13.3 percent, including a 14.8 percent increase for Kansas males and an 11.9 percent increase for Kansas females. Shifts in the Kansas population distribution by age from 1994 to 2013 included a decrease in the 35-44 age group of 14.6 percent. An increase of 35.3 percent in residents 45-54 years of age and 75.9 percent in residents 55-64 reflected the aging of the baby boomers. Furthermore, there were 8.7, 2.5, 16.7, 2.4 and 16.0 percent increases in the 0-4, 5-14, 15-24, 25-34 and 65-74 age-groups respectively, and a decrease of 4.8 percent in the 75 and over age-group (Figure 7, Table 6).

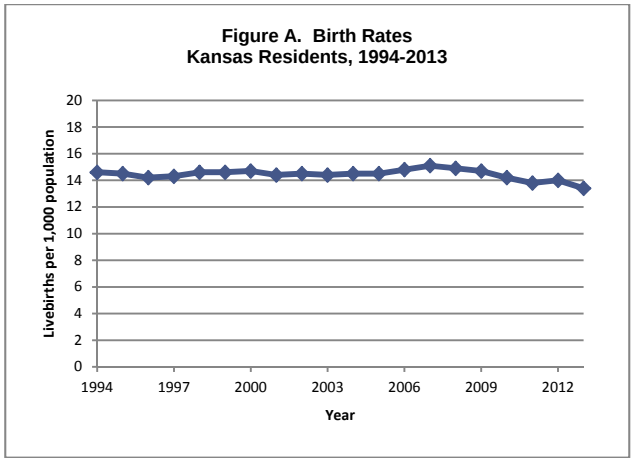
According to the 2013 Census Bureau estimates, 77.1 percent of Kansans were White non-Hispanic and 5.9 percent were Black non-Hispanic. Hispanics made up 11.2 percent of Kansas' population (Tables 7 and 8).

Births

During 2013, there were 38,805 live births to residents of Kansas. This was a decrease of 3.7 percent from the 40,304 births reported in 2012. The birth rate decreased 4.3 percent, from 14.0 births per 1,000 population in 2012 to 13.4 births per 1,000 population in 2013 (Table 9).

The 2013 birth rate (13.4) 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 2011, with a rate of 13.8 births per 1,000 population, and 1973, with a rate of 13.9 births per 1,000 population (Figure 10).

Over the past 20 years (1994-2013), the Kansas birth rate has fluctuated between a peak of 15.1 births per 1,000 population (reported in 2007) and a low of 13.4 births per 1,000 population (reported in 2013) (Figure A). Birth rates decreased for several years in a row from 1992 to 1996, and from 2008 to 2011 (Table 11, Figure 10).



Population Group Statistics

In 2013, there were 27,821 births to resident White non-Hispanic mothers, a decrease of 4.0 percent from the 28,995 births reported in 2012. The birth rate for White non-Hispanic mothers decreased 3.8 percent, from 13.0 births per 1,000 population in 2012 to 12.5 births per 1,000 population in 2013 (Table 3, Table 29).

There were 6,139 births to Hispanic mothers in 2013, a decrease of 2.3 percent from the 6,286 births reported in 2012. The birth rate for Hispanic mothers decreased 4.0 percent, from 19.8 births per 1,000 population in 2012 to 19.0 births per 1,000 population in 2013.

There were 2,549 births to Black non-Hispanic mothers in 2013, a decrease of 5.0 percent from the 2,682 births reported in 2012. The birth rate for Black non-Hispanic mothers decreased 5.0 percent, from 15.9 births per 1,000 population in 2012 to 15.1 births per 1,000 population in 2013 (Table 3, Table 29).

Fertility Rates

The number of Kansas females in the main child-bearing age bracket (ages 15-44) increased fairly steadily from 567,932 in 1994 to 574,617 in 1999, then decreased to 558,538 in 2013. The fertility rate decreased 2.6 percent from 1994 to 1996 (from 66.5 to 64.8 live births per 1,000 females aged 15-44), then increased 16.5 percent from 1996 to 2007 (from 64.8 to 75.5 live births per 1,000 females aged 15-44). From 2007 to 2013, the fertility rate declined by 7.9 percent (from 75.5 to 69.5 live births per 1,000 females aged 15-44) (Table 12, Figure 11).

Of the 38,805 resident births in 2013, there were 19,807 males and 18,998 females, for a natal sex ratio of 104.3 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 [3] (Table 13).

Low Birth Weight

During 2013, low birth-weight (under 2,500 grams) infants accounted for 2,728 or 7.0 percent of births to Kansas resident mothers. Low birth-weights were more common for Black non-Hispanic mothers (13.2%) than for White non-Hispanic (6.7%) or Hispanic (5.8%) mothers. High birth-weight (4,000 grams and over) infants accounted for 3,358, or 8.7 percent of births to Kansas resident mothers. High birth-weights were more common for White non-Hispanic mothers (9.4%) than for Hispanic (8.0%) or Black non-Hispanic (4.3%) mothers (Table 27).

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 22 uses birth-weights from 2013 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 38,805 resident births in 2013, 7.5 percent (2,897) were to mothers under the age of 20; 56.2 percent (21,796) were to mothers 20-29 years of age; 34.3 percent (13,327) were to mothers 30-39 years of age; and 2.0 percent (784) were to mothers aged 40 or over (Table 25).

Of the 27,821 resident births to White non-Hispanic mothers, 1,595 (5.7%) were to mothers under the age of twenty. Of the 2,549 births to Black non-Hispanic mothers, 302 (11.8%) were to mothers under the age of 20. Of the 6,139 births to Hispanic mothers, 828 (13.5%) births were to mothers under the age of 20 (Table 3, Figure 18).

First Trimester Care

Prenatal care data was provided for 38,233 out of 38,805 (99.2%) live births in 2013. Prenatal care began in the first trimester for 30,618 live births (79.4 percent of live births where prenatal care data was available), in the second trimester for 6,467 live births (16.8%), and in the third trimester for 1,148 live births (3.0%). No prenatal care was indicated for 313 live births (0.8%).

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3. United Nations Population Fund [Internet] UNFPA Guidance Note on Prenatal Sex Selection, p. 11.; [cited 2013 Sep 30]. Available from: http://www.unfpa.org/webdav/site/global/shared/documents/publications/2010/guidenote_prenatal_sexselection.pdf.

White non-Hispanic mothers started prenatal care in the first trimester in 83.2 percent of live births (23,002). Black non-Hispanic mothers started prenatal care in the first trimester in 69.8 percent of live births (1,762). Hispanic mothers started prenatal care in the first trimester in 67.7 percent of live births (4,130) (Table 26).

Prenatal Care Status

Of the 38,805 Kansas resident live births in 2013 for which the adequacy of prenatal care utilization (APNCU) category could be determined, 81.9 received adequate or better prenatal care, including 30.5 percent with adequate-plus care. About eighteen percent (18.1) received less than adequate prenatal care, including 11.4 percent with inadequate care (Table 18).

Mother's Weight Gain

Among singleton Kansas live births, 20.6 percent of mothers gained less than the recommended weight during pregnancy, 32.1 percent gained the recommended weight, and 47.4 percent gained more than the recommended amount (Table 23).

Marital Status

During 2013, 14,053 (36.2%) of the 38,805 resident live births in Kansas were to unmarried mothers. There were 8,437 (30.3%) out-of-wedlock births to White non-Hispanic mothers; 1,766 (69.3%) to Black non-Hispanic mothers; and 3,114 (50.7%) to Hispanic mothers (Table 26, Table 30).

The percentage of out-of-wedlock births in Kansas declined in 2013 for the third year in a row, from 37.7 percent in 2010 to 36.2 percent in 2013. However, out-of-wedlock births were 39.8 percent higher than the 25.9 percent of live births reported in 1994 (Figure 16).

Delivery Method

Vaginal delivery was the most common final route of delivery for most Kansas resident live births in 2013 (27,064 live births, or 69.8% 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 (25,804 deliveries, or 66.5% of live births for which the final route was stated). Other vaginal deliveries (forceps assisted or vacuum extraction) accounted for 1,260 live births (3.2%). Cesarean deliveries accounted for 11,735 live births (30.2%). White non-Hispanic mothers delivered via cesarean section in 8,596 live births (30.9%), Black non-Hispanic mothers in 820 live births (32.2%), and Hispanic mothers in 1,639 live births (26.7%). There were 6 deliveries for which the final route of delivery was not recorded (Table 28).

Tobacco Use

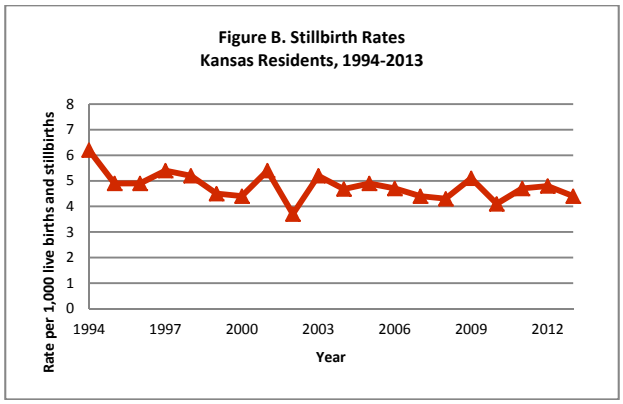
Tobacco use at any time during pregnancy was reported for 4,825 births in 2013, amounting to 12.5 percent of births for which tobacco usage was reported. Tobacco use was known for 38,730 of the 38,805 births (99.8%) in 2013.

Reported tobacco usage was highest in the three months immediately prior to pregnancy (5,722, or 14.8%) and decreased gradually with each trimester: to 4,753, or 12.3 percent in the first trimester; then to 4,255, or 11.0 percent in the second trimester; and finally to 4,072, or 10.5 percent in the third trimester (Table 21).

Stillbirths

During 2013, there were 173 stillbirths reported for Kansas resident mothers, a decrease of 11.3 percent from the 195 stillbirths reported in 2012. The stillbirth rate was 4.4 per 1,000 live births and stillbirths, a decrease of 8.3 percent from the rate of 4.8 stillbirths per 1,000 live births and stillbirths in 2012 (Table 35).

In 2013, the stillbirth rate (per 1,000 live births plus stillbirths) was 3.5 for White non-Hispanics, 8.9 for Black non-Hispanics, and 6.2 for Hispanics (Figure 20).



Over the past 20 years (1994-2013), stillbirth rates have fluctuated, but Poisson regression (calculated with the Joinpoint program) indicates that the general trend has been downward, but not statistically significant (Figure B).

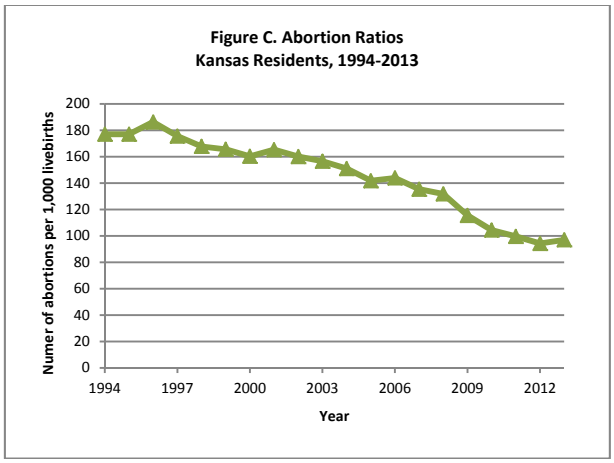
Of all stillbirths in 2013, 85.0 percent were attributed to conditions originating in the perinatal period and 13.9 percent to congenital anomalies (Table 45).

Abortions

In 2013, there were 3,763 abortions performed for Kansas residents, of which 3,700 were performed in Kansas, and 63 were performed out-of-state. There were also 3,721 abortions performed in Kansas for non-residents (Table 38).

Abortion Ratios

The abortion ratio for Kansas residents in 2013 increased 2.9 percent from 94.3 in 2012 to 97.0 abortions per 1,000 live births. The 2012 abortion ratio was the lowest in the past 20 years (1994-2013), down from a peak of 186.3 abortions per 1,000 live births in 1996 (Figure C) (Table 39, Figure 21).



The abortion ratio for Kansas residents in 2013 varied substantially by age-group of mother. The highest ratio (366.7 per 1,000 live births) was recorded for mothers under 15 years of age, while the lowest (67.1 per 1,000 live births) was recorded for mothers in the 30-34 age group (Figure 22).

The abortion ratio for White non-Hispanics was 81.0 abortions per 1,000 live births (2,256 resident abortions); for Black non-Hispanics it was 237.0 (604 resident abortions); and for Hispanics it was 76.4 (469 resident abortions) (Table 39).

Gestation at Termination

In 2013, 66.5 percent of Kansas resident abortions occurred prior to nine completed weeks of gestational age. Almost 90 percent (89.1) were performed prior to the 13th week of gestation. Slightly more than four percent (4.8) of Kansas resident teenage women obtained an abortion after 16 weeks gestation, compared to 3.6 percent aged 20 or over (Table 39).

Marital Status

More than 80 percent (86.5) of all reported abortions in 2013 were to unmarried women. Among Black non-Hispanic women in this group, 97.2 percent were unmarried, while 86.2 percent of White non-Hispanic women and 85.0 percent of Hispanic women were unmarried (Table 40).

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 2013 was 3,335, down 12.8 percent from 3,823 pregnancies in 2012. The pregnancy rate for mothers under 20 years of age in 2013 was 17.1 pregnancies per 1,000 female age-group population, a decline of 13.2 percent from a rate of 19.7 pregnancies per 1,000 female age-group population in 2012. This was the lowest pregnancy rate for this age-group in the past twenty years (1994-2013), down from a peak of 34.8 pregnancies per 1,000 female age-group population in 1994 (Table 31, Figure 19).

The pregnancy rate for females aged 15-17 years in 2013 was 14.6 per 1,000 female age-group population. This surpasses the Healthy People 2020 target (FP 8.1) of 36.2 pregnancies among adolescent females aged 15 to 17 years by 2020.

The pregnancy rate for females aged 18-19 years in 2013 was 62.4 per 1,000 female age-group population. This surpasses the Healthy

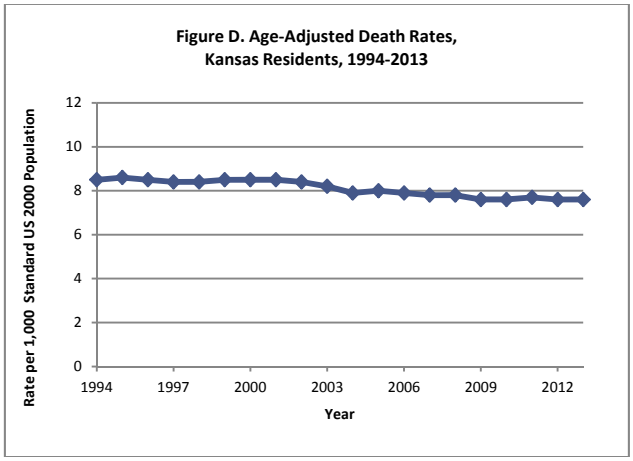
People 2020 target (FP 8.2) of 105.9 pregnancies among females ages 18-19 years by 2020.

The birth rate for females aged 15-19 years in 2013 was 29.6 per 1,000 female age group population (Table 13). This surpasses the CDC Winnable Battles target for 2015 of 30.3 births per 1,000 females aged 15 to 19 years.

Deaths

There were 25,347 Kansas resident deaths recorded in 2013, an increase of 1.0 percent from the 25,084 deaths recorded in 2012. The Kansas crude death rate in 2013 was 8.8 deaths per 1,000 population, which was 7.3 percent higher than the estimated US crude rate of 8.2 deaths per 1,000 population (Table 43, Figure 26).

The Kansas age-adjusted death rate (see Technical Notes for a discussion of age-adjusted rates) for 2013 was 7.6 deaths per 1,000 standard U.S. 2000 population, unchanged from 2012. The age-adjusted death rate for males (8.8) was 35.4 percent higher than that for females (6.5) (Table 53).



The Kansas age-adjusted death rate has declined in most of the past twenty years (1994-2013), and in 2013 was 11.6 percent below its peak for the period (8.6, in 1995) (Figure D) (Figure 30, Table 53).

Age at Death

The average age at death of Kansas residents in 2013 was 74.4 years, a 0.4 percent increase from the average age at death of 74.1 years in 2012 (Table 56).

Average age at death varied by sex and population group. In 2013, males died 6.7 years younger than females (71.0 versus 77.7 years). The average age at death for the White non-Hispanic population was 75.8 years, 11.7 years older than that of the Black non-Hispanic population (64.1 years), and 16.3 years older than that of the Hispanic population (59.5 years) (Table 56).

Over 60 percent (62.2) of White non-Hispanic Kansas residents who died in 2013 were 75 years of age or older, while only 36.5 percent of deceased Black non-Hispanic residents and 37.0 percent of deceased Hispanic residents had reached the age of 75 (Table 56).

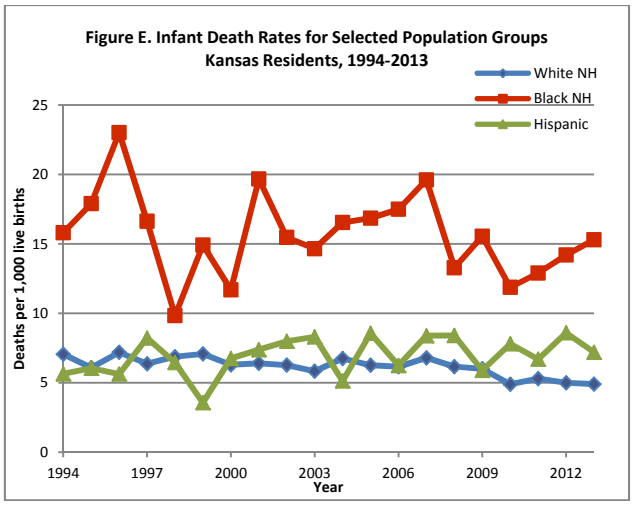
Infant Mortality

There were 248 infant deaths to Kansas residents in 2013, a decrease of 2.4 percent from 254 infant deaths in 2012 (Table 49).

The infant mortality rate for Kansas residents in 2013 was 6.4 infant deaths per 1,000 live births, an increase of 1.6 percent from a rate of 6.3 in 2012. The Healthy People 2020 target for infant deaths is 6.0 infant deaths per 1,000 live births (MICH-1.3). Kansas needed 15 fewer infant deaths in 2013 to meet this target.

The rate for White non-Hispanic mothers in 2013 was 4.9 deaths per 1,000 live births, a decrease of 2.0 percent from the rate of 5.0 in 2012. The rate for Black non-Hispanic mothers was 15.3 deaths per 1,000 live births, an increase of 7.7 percent from the rate of 14.2 in 2012. The rate for Hispanic mothers was 7.2 deaths per 1,000 live births, a decrease of 16.3 percent from the rate of 8.6 in 2012. Caution should be used in interpreting these changes due to the relatively small number of occurrences and yearly fluctuations (Table 48).

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 (1994-2013). Rates for Hispanic mothers have sometimes been higher and sometimes lower than those for White non-Hispanic mothers (Figure E).



Infant Age at Death

Infant deaths are most likely to occur within the first month of life. In 2013, 46.4 percent of all infant deaths occurred in the first day of life, 56.5 percent occurred within the first seven days of life (the hebdomadal period), and 66.9 percent occurred within the first 28 days of life (the neonatal period) (Table 50).

The components of perinatal period III mortality (see definition in Technical Notes) both decreased from 2012 to 2013; stillbirths by 11.3 percent, hebdomadal deaths by 1.4 percent. There were 313 perinatal period III deaths in 2013, for a death rate of 8.0 deaths per 1,000 live births plus stillbirths, a decrease of 23.8 percent from the 1994 rate of 10.5 (Table 46).

Of all infant deaths in 2013, 44.8 percent were attributed to conditions originating in the perinatal period, 23.8 percent to congenital anomalies, 13.7 percent to sudden infant death syndrome (SIDS), and 17.7 percent to all other causes (Table 50).

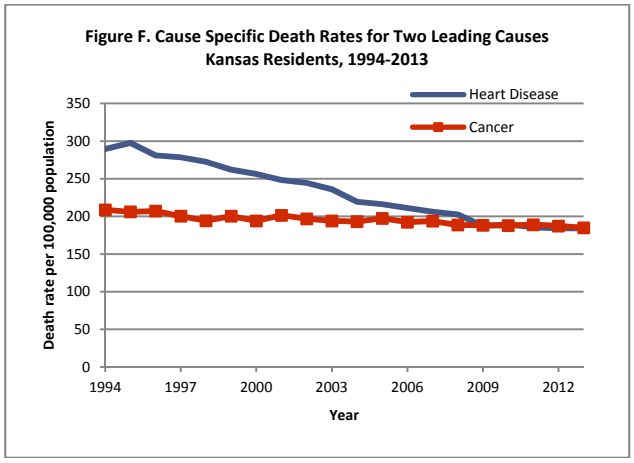
Maternal Mortality

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 2013, there were 15 maternal deaths and 10 other pregnancy associated deaths, an overall increase from 2012, when there were four maternal deaths and 11 other pregnancy associated deaths (Figure 29).

Leading Causes of Death

The 10 leading causes of death in Kansas remained unchanged from 2012 to 2013, though their order changed in some cases. Malignant neoplasms continued to be the leading cause of death. Unintentional injuries rose to position four, switching places with cerebrovascular disease. Influenza and pneumonia rose to position seven, switching places with diabetes mellitus. All other rankings in the ten leading causes remained unchanged.

Kansas recorded 426 resident suicide deaths in 2013 compared to 505 in 2012 and 384 in 2011. The suicide age-adjusted death rate decreased from 17.6 deaths per 100,000 population in 2012 to 14.7 deaths per 100,000 population in 2013, but the change was not statistically significant. Death rate changes for the other nine leading causes of death were not statistically significant. The ten leading causes of death accounted for 71.7 percent of all Kansas resident deaths in 2013 (Table 60).



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 2013, the heart disease death rate was 184.2 deaths per 100,000 population, while the cancer death rate was

184.9 per 100,000 population (Table 59, Figure 31).

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 (71.4 and 72.3 years, respectively), but males who died from heart disease did so at younger ages than did females (75.5 and 82.2 years, respectively). Males and females dying from chronic lower respiratory disease did so at about the same ages (75.9 and 77.4 years, respectively), but males dying of cerebrovascular disease did so at younger ages than did females (77.3 and 83.2 years, respectively). Males and females died from suicide at about the same average ages (46.7 and 47.0, respectively), but males died from unintentional injuries at much younger ages than females (54.4 and 64.7 years, respectively). Alzheimer's disease killed at the highest average ages for males and females (84.2 and 87.2 years respectively) (Table 59).

The leading causes of death also varied by age-group. In 2013, 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 32).

For the 15-24 age-group, unintentional injuries were followed by suicide and homicide as leading causes of death. Together, they accounted for 74.3 percent of deaths in this age-group (Table 58).

Infectious Disease

Twenty-eight (28) Kansas residents died of HIV/AIDS in 2013, for an age-adjusted death rate of 0.8 per 100,000 population (Table 72). 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 5,350 Kansas resident deaths in 2013, for an age-adjusted death rate of 162.2 per 100,000 population (Table 60). The Healthy People 2020 target for cancer deaths (C-1) is 160.6 per 100,000 population. To meet this target, Kansas resident cancer deaths would have to decline to about 5,295 by 2020. (The exact number would depend on decedent age distributions and on future changes to the Kansas population.)

Ischemic Heart Disease

Ischemic heart disease was responsible for 2,969 Kansas resident deaths in 2013, for an age-adjusted death rate of 87.3 per 100,000 population (Table 61). 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 death rates from cerebrovascular disease decreased to 45.1 per 100,000 population in 2013, down 2.2 percent from a rate of 46.1 per 100,000 population in 2012. This is the lowest death rate due to cerebrovascular disease in the past twenty years (1994-2012) (Table 60, Figure 31).

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 1,306 in 2013 to about 979 by 2020 (Table 63). (The exact number would depend on decedent age distributions and on future changes to the Kansas population.)

External Causes

In 2013, the unintentional injury death rate was 48.3 deaths per 100,000 population, an increase 6.9 percent from the rate of 45.2 in 2012. The 2013 rate was the highest unintentional injury death rate in the past twenty years (Table 60, Figure 31).

Motor-vehicle injuries resulted in 368 deaths in 2013 (347 traffic and 21 non-traffic), accounting for 26.3 percent of 1,398 unintentional injury deaths. This was a decrease of 10.2 percent from 410 motor-vehicle injury deaths in 2012 (Table 64).

The motor-vehicle traffic injury death rate in 2013 was 11.9 deaths per 100,000 population (age-adjusted). This surpasses 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 require a reduction in motor-vehicle traffic injury deaths to about 278. The exact number would depend on decedent age distributions and on future changes to the Kansas population.

Unintentional falls were responsible for 397 Kansas resident deaths in 2012, for an age-adjusted death rate of 11.5 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 242 unintentional fall deaths by 2020. The exact number would depend on decedent age distributions and on future changes to the Kansas population.

Suicide

In 2013, 426 Kansas residents died due to suicide, down 15.6 percent from 505 suicide deaths in 2012. Over four-fifths (81.2%) of suicide victims were male. The two age groups with the largest number of suicides were 45-54 (94 deaths) and 55-64 (76 deaths). The three most common methods of suicide were firearms (240 deaths), suffocation (96 deaths), and poisoning (62 deaths) (Table 65, Table 72).

YPLL 75 Statistics

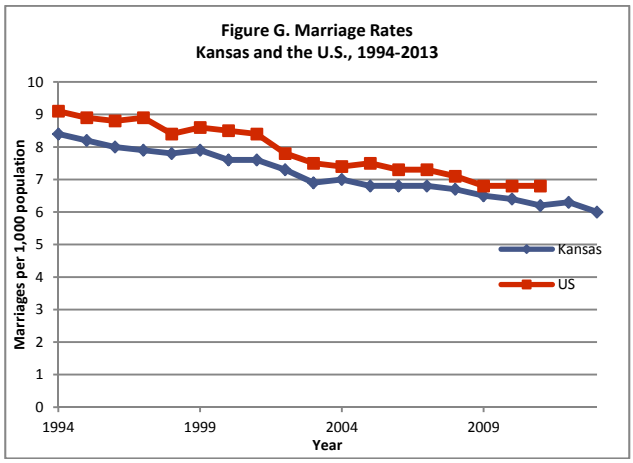
Mortality in Kansas was responsible for 186,120 years of potential life lost before age 75 in 2013 (see Technical Notes – Years of Potential Life Lost). Cancer, unintentional injury, and heart disease accounted for the most years of potential life lost (37,954, 28,670, and 24,451 years lost, respectively). Men lost more than twice the potential years of life to unintentional injuries than did women (19,765 years and 8,905 years, respectively) (Table 69).

Tobacco and Mortality

Tobacco use contributed to 3,466 deaths in Kansas in 2013 (23.8 percent of the deaths where the tobacco contribution was known and reported on the death certificate). Tobacco use was a contributing factor in 30.0 percent of male deaths, and in 18.2 percent of female deaths. The causes of death showing the largest tobacco contribution were cancer of the trachea, bronchus and lung (86.2%), chronic lower respiratory disease (83.1%), and ischemic heart disease (35.7%). (Table 71) Physicians and coroners can state on the death certificate whether tobacco contributed to the death. Because information may not be available at the time the death certificate is completed, tobacco's contribution may be subject to some underreporting.

Marriages

In 2013, 17,328 marriages occurred in Kansas, a decrease of 4.5 percent from the 2012 total of 18,154 marriages (Table 74).



The Kansas marriage rate in 2013 was 6.0 marriages per 1,000 population. This rate was 4.8 percent lower than the 6.3 percent rate recorded in 2012, but still 28.6 percent below the 1994 peak for the 1994-2013 period of 8.4 marriages per 1,000 population (Figure G). For the entire period, Kansas marriage rates have been lower than U.S. marriage rates (Figure 36).

Marriage Characteristics

First-time marriages made up more than half of the marriages in Kansas for the thirteenth consecutive year. In 2013, 56.4 percent of all marriages involved first-time partners (Table 78).

More marriages occurred in June (12.9%) than any other month in 2013. September and October were the second and third most popular months (Figure 38).

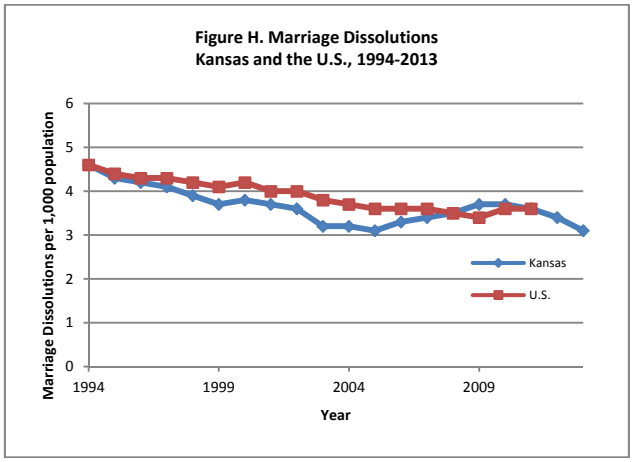
Age at Marriage

Kansas couples are delaying marriage. In 1994, 11.9 percent of the brides and 4.7 percent of the grooms were under 20 years of age. In 2013, however, only 5.6 percent of the brides and 2.3 percent of the grooms were under 20 (Table 79).

The average age of all brides in 2013 was 30.9 years and that of grooms was 33.0 years. Women marrying for the first time averaged 25.7 years while first time grooms averaged 27.6 years. Of those persons who remarried in 2012, women were, on average, 40.9 years old and men were 44.1 years of age (Figure 39).

Marriage Dissolutions

In 2013, 9,085 marriage dissolutions (8,869 divorces and 216 annulments) occurred in Kansas, a decline of 7.1 percent from the 2012 total of 9,782 (Table 75 and Table 81).



The Kansas marriage dissolution rate in 2013 was 3.1 per 1,000 population, which was 32.6 percent lower than the 1994 rate of 4.6 (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. U.S. rates for 2012 and 2013 had not been released at the time this summary was written (Figure 37).

The ratio of marriages to divorces in Kansas in 2013 was 1.9:1 (Table 74, Table 75).

Age at Marriage Dissolution

The most common age-group of husbands involved in marriage dissolutions in 2013 was 30-34; the most common age-group of wives involved in marriage dissolutions was also 30-34. For couples of the same age-group, the most common age-group was 30-34 (Table 80).

The average age at marriage dissolution in 2013 was 37.9 years for wives and 40.2 years for husbands, as compared to 34.1 years for wives and 36.4 years for husbands in 1994 (Figure 40).

Marriage Dissolution Characteristics

In 2013, 34.8 percent of marriages ending in divorce or annulment lasted four years or less (Table 81).

There were 8,423 minor children affected as a result of marriage dissolutions in 2013. At least one minor child was reported to be involved in half (50.0%) of the marriage dissolutions (Table 82, Figure 41).

VITAL EVENTS

Table 1
Selected Vital Events and Percent Change
Kansas, 2013, 2012 and 1994

Vital Event	2013	2012	Percent Change 2012-2013	1994	Percent Change 1994-2013
Live Births	38,805	40,304	-3.7	37,269	4.1
Out-of-Wedlock Births	14,053	14,805	-5.1	9,653	45.6
Stillbirths	173	195	-11.3	231	-25.1
Hebdomadal Deaths	140	142	-1.4	140	0.0
Perinatal Period lll Deaths	313	337	-7.1	371	-15.6
Neonatal Deaths	166	173	-4.0	177	-6.2
Infant Deaths	248	254	-2.4	285	-13.0
Maternal Deaths	10	4	150.0	2	400.0
Deaths	25,347	25,084	1.0	23,219	9.2
Marriages	17,328	18,154	-4.5	21,524	-19.5
Marriage Dissolutions	9,085	9,782	-7.1	11,659	-22.1
Abortions	3,765	3,802	-1.0	6,596	-42.9

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

EVERY DAY DURING 2013*

Each day Kansas residents experienced approximately

106 Live births
- 39 Out-of wedlock births
- 8 Live births to teenagers
- 7 Low birthweight live births
- <1 Infant death

69 Deaths
- 15 Cancer
- 15 Heart disease
- 5 Chronic lower respiratory disease
- 4 Unintentional injuries
- 4 Cerebrovascular disease
- 2 Alzheimer's disease
- 2 Pneumonia and influenza
- 2 Diabetes
- 2 Nephritis, nephrotic syndrome, nephrosis
- 1 Suicide

Each day in Kansas there occurred approximately

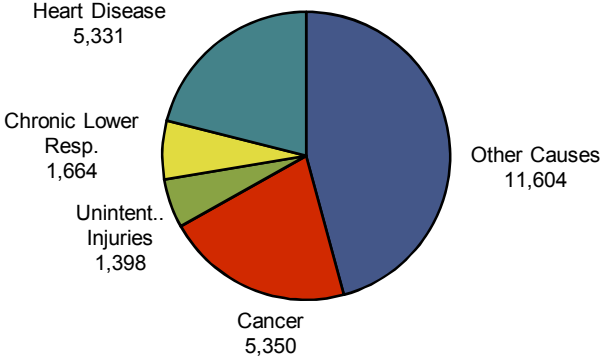
47 Marriages
25 Marriage dissolutions
21 Abortions

* based on 365 days in 2013

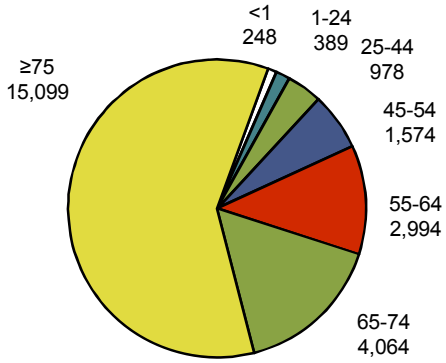
Figure 1

Kansas Vital Statistics for 2013

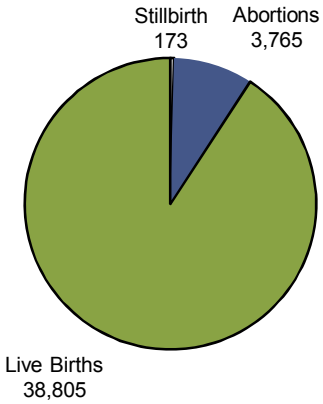
Deaths*
Total 25,347

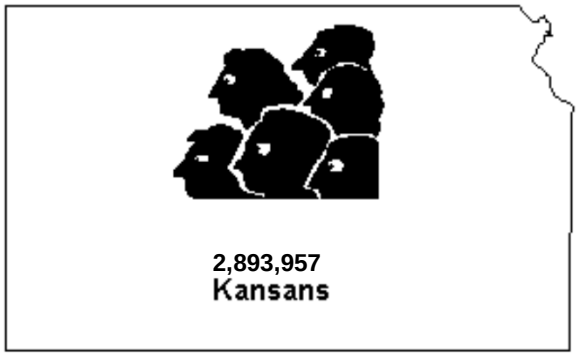


Deaths by Age-Group*
(Years) (1 N.S.)

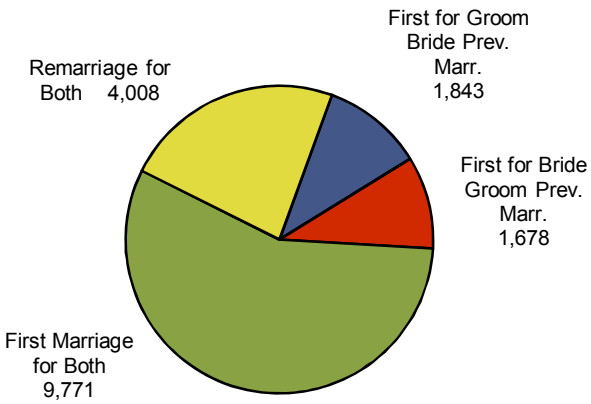


Pregnancy Outcomes*





Marriages† by Marriage Order
Total 17,328
(28 N.S.)



Marriage Dissolutions†
By Duration of Marriage
Total 9,085
(70 N.S.)

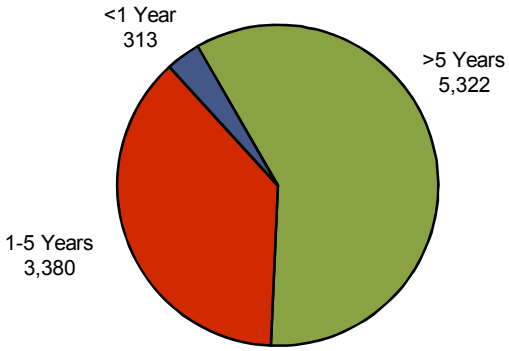


Figure 2

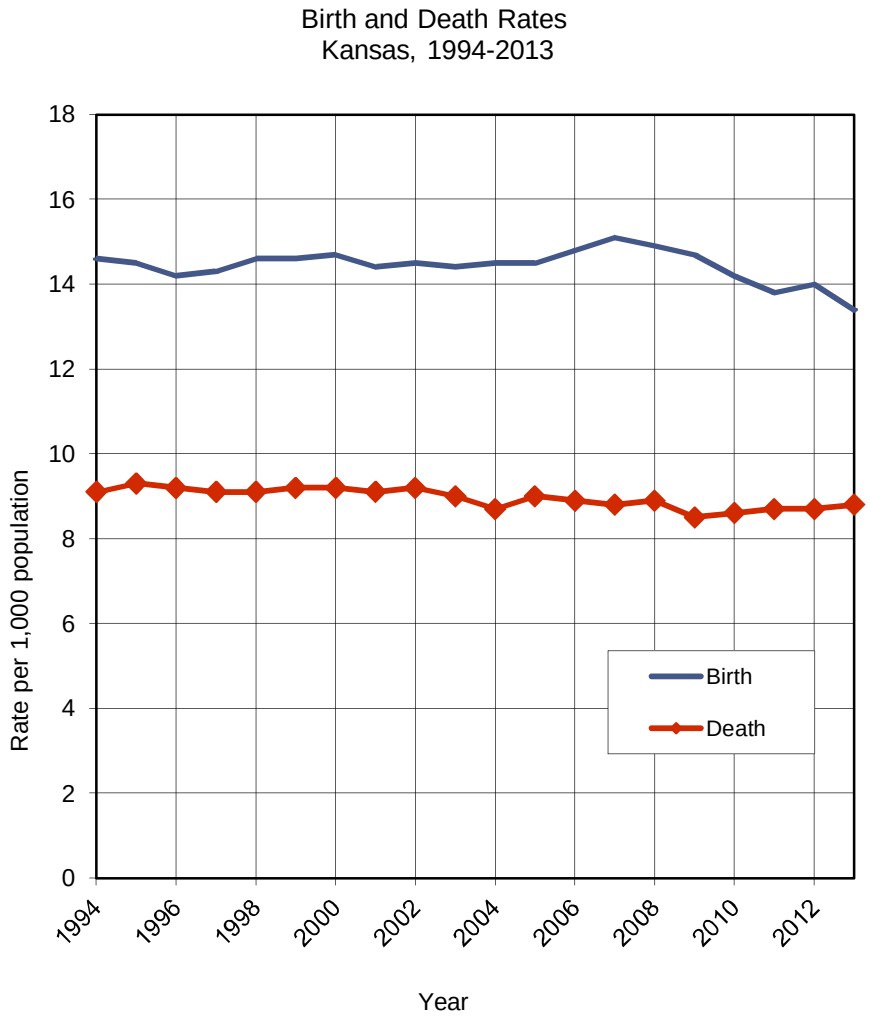
* Residence Data
† Occurrence Data

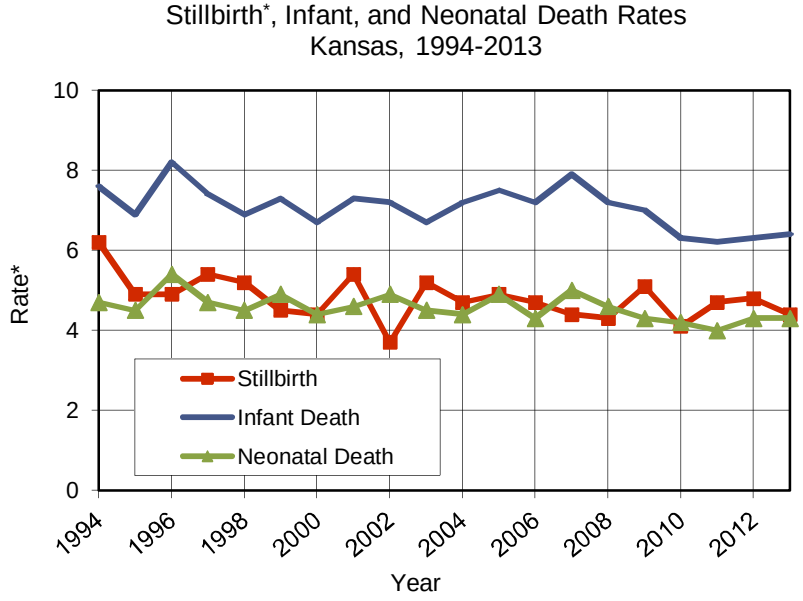
Table 2
Selected Vital Event Percents, Rates, and Ratios
Kansas, 1994-2013

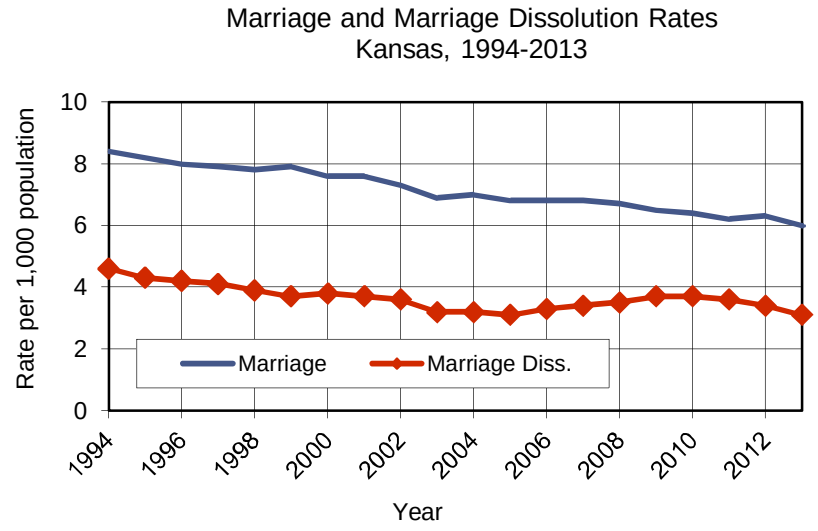
Vital Event	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Live Births																				
Number	37,269	37,087	36,524	37,191	38,372	38,748	39,654	38,832	39,338	39,353	39,553	39,701	40,896	41,951	41,815	41,388	40,439	39,628	40,304	38,805
Rate*	14.6	14.5	14.2	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
Out-of-Wedlock Births																				
Number	9,653	9,594	9,798	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
Percent†	25.9	25.9	26.8	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
Stillbirths																				
Number	231	183	179	202	199	175	177	209	146	206	186	194	192	186	182	213	168	188	195	173
Rate‡	6.2	4.9	4.9	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
Hebdomadal Deaths																				
Number	140	134	157	147	132	159	146	148	155	138	144	153	137	163	160	144	143	121	142	140
Rate§	3.8	3.6	4.3	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
Perinatal Period III Deaths																				
Number	371	317	336	349	331	334	323	357	301	344	330	347	329	349	342	357	311	309	337	313
Rate‡	9.9	8.5	9.2	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
Neonatal Deaths																				
Number	177	166	199	173	172	189	174	178	192	177	176	196	176	211	193	176	170	157	173	166
Rate§	4.7	4.5	5.4	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
Infant Deaths																				
Number	285	256	299	274	263	281	266	285	282	262	284	297	293	333	303	290	253	247	254	248
Rate§	7.6	6.9	8.2	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
Maternal Deaths ¶																				
Number	2	2	2	5	3	4	4	1	2	0	2	6	4	3	7	8	7	4	4	10
Rate#	5.4	5.4	5.5	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
Deaths																				
Number	23,219	23,807	23,788	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
Rate*	9.1	9.3	9.2	9.1	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
Marriages																				
Number	21,524	21,057	20,657	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
Rate*	8.4	8.2	8.0	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
Marriage Dissolutions																				
Number	11,659	11,029	10,779	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
Rate*	4.6	4.3	4.2	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
Abortions																				
Number	6,596	6,566	6,806	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	3,765
Ratio§	177.0	177.0	186.3	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

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

Selected Vital Event Rates
Kansas, 1994-2013







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

Figure 3

Table 3

Selected Vital Events by Population Group

Kansas, 2013

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	38,805	27,821	2,549	183	1,175	921	6,139	17
Birth Rates†	13.4	12.5	15.1	7.8	15.2	13.5	19.0	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	751	352	78	7	9	33	271	1
Births to mother <20 years of age	2,897	1,595	302	16	34	120	828	2
Births to mother with < HS diploma or GED	5,466	2,231	431	41	106	188	2,467	2
Out-of-wedlock births	14,053	8,437	1,766	121	184	425	3,114	6
Fourth and higher birth order#	5,276	3,217	455	31	97	134	1,340	2

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)	2,728	1,870	337	12	91	62	356	0
Very low birth weight infants (<1500 grams)	494	327	81	2	16	9	59	0
Births with gestational age < 37 weeks	3,448	2,419	344	26	95	88	476	0
				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‡	6.4	4.9	15.3	5.5	3.4	20.6	7.2	n/a
Neonatal deaths‡	4.3	3.1	11.8	5.5	2.6	11.9	5.0	n/a
Postneonatal deaths‡	2.1	1.8	3.5	0.0	0.9	8.7	2.1	n/a
Stillbirths§	4.4	3.5	8.9	0.0	5.1	7.5	6.2	n/a
Perinatal§	8.0	6.1	18.7	5.5	7.6	17.2	10.4	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	30,618	23,002	1,762	129	923	660	4,130	12
Births to women with late (3rd trimester) or no prenatal care	1,526	766	169	17	41	52	414	2
Plural births**	1,326	1,033	89	4	34	20	146	0

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	25,347	22,639	1,264	194	200	290	709	51
Death Rates†	8.8	10.1	7.5	8.2	2.6	4.3	2.2	n/a
Age-Adjusted death rates¶	755.6	752.7	949.3	1,202.1	476.6	1,079.2	527.5	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.

POPULATION

Table 4
Population by County and by Peer Group*
Kansas, 2009-2013

County of Residence	2009	2010	2011	2012	2013	Percent Change 2009-2013
Kansas	2,818,747	2,853,118	2,871,238	2,885,905	2,893,957	2.7
Allen	13,203	13,371	13,331	13,319	13,124	-0.6
Anderson	7,872	8,102	8,070	7,917	7,897	0.3
Atchison	16,411	16,924	16,793	16,813	16,749	2.1
Barber	4,593	4,861	4,888	4,861	4,947	7.7
Barton	27,464	27,674	27,841	27,557	27,509	0.2
Bourbon	14,884	15,173	14,985	14,897	14,852	-0.2
Brown	9,927	9,984	10,010	9,881	9,997	0.7
Butler	64,084	65,880	65,817	65,827	65,803	2.7
Chase	2,798	2,790	2,817	2,757	2,700	-3.5
Chautauqua	3,745	3,669	3,584	3,571	3,552	-5.2
Cherokee	21,064	21,603	21,385	21,226	20,978	-0.4
Cheyenne	2,700	2,726	2,718	2,678	2,694	-0.2
Clark	2,081	2,215	2,143	2,181	2,193	5.4
Clay	8,704	8,535	8,573	8,531	8,406	-3.4
Cloud	9,263	9,533	9,365	9,397	9,292	0.3
Coffey	8,436	8,601	8,533	8,502	8,412	-0.3
Comanche	1,873	1,891	1,884	1,913	1,955	4.4
Cowley	33,634	36,311	36,272	36,288	36,204	7.6
Crawford	38,869	39,134	39,220	39,361	39,278	1.1
Decatur	2,855	2,961	2,915	2,871	2,930	2.6
Dickinson	19,015	19,754	19,739	19,762	19,609	3.1
Doniphan	7,624	7,945	7,945	7,864	7,851	3.0
Douglas	116,383	110,826	112,211	112,864	114,322	-1.8
Edwards	3,071	3,037	3,020	2,979	2,945	-4.1
Elk	3,001	2,882	2,811	2,720	2,655	-11.5
Ellis	27,739	28,452	28,742	29,053	29,061	4.8
Ellsworth	6,179	6,497	6,483	6,494	6,398	3.5
Finney	42,074	36,776	37,083	37,200	37,098	-11.8
Ford	33,692	33,848	34,568	34,752	34,819	3.3
Franklin	26,441	25,992	25,931	25,906	25,740	-2.7
Geary	31,751	34,362	35,323	38,013	37,384	17.7
Gove	2,480	2,695	2,697	2,729	2,769	11.7
Graham	2,435	2,597	2,641	2,578	2,593	6.5
Grant	7,353	7,829	7,964	7,923	7,950	8.1
Gray	6,005	6,006	6,113	6,030	6,009	0.1
Greeley	1,234	1,247	1,258	1,298	1,290	4.5
Greenwood	6,666	6,689	6,644	6,454	6,424	-3.6
Hamilton	2,625	2,690	2,666	2,639	2,609	-0.6
Harper	5,667	6,034	5,993	5,911	5,860	3.4
Harvey	34,247	34,684	34,846	34,852	34,741	1.4
Haskell	4,006	4,256	4,285	4,256	4,141	3.4
Hodgeman	1,906	1,916	1,966	1,963	1,950	2.3
Jackson	13,412	13,462	13,433	13,449	13,366	-0.3
Jefferson	18,207	19,126	18,941	18,945	18,813	3.3
Jewell	3,059	3,077	3,096	3,046	3,046	-0.4
Johnson	542,737	544,179	552,991	559,913	566,933	4.5
Kearny	4,169	3,977	3,987	3,968	3,923	-5.9
Kingman	7,571	7,858	7,853	7,863	7,844	3.6
Kiowa	2,322	2,553	2,549	2,496	2,523	8.7
Labette	21,776	21,607	21,511	21,284	20,916	-3.9
Lane	1,742	1,750	1,749	1,704	1,720	-1.3
Leavenworth	75,227	76,227	77,176	77,739	78,185	3.9
Lincoln	3,123	3,241	3,215	3,174	3,147	0.8
Linn	9,335	9,656	9,612	9,441	9,516	1.9
Logan	2,549	2,756	2,783	2,784	2,798	9.8

Table 4
Population by County and by Peer Group*
Kansas, 2009-2013

County of Residence	2009	2010	2011	2012	2013	Percent Change 2009-2013
Lyon	33,601	33,690	33,764	33,748	33,510	-0.3
McPherson	28,866	29,180	29,241	29,356	29,569	2.4
Marion	11,982	12,660	12,538	12,347	12,219	2.0
Marshall	10,123	10,117	10,005	10,022	10,002	-1.2
Meade	4,407	4,575	4,531	4,396	4,343	-1.5
Miami	30,969	32,787	32,715	32,612	32,835	6.0
Mitchell	6,344	6,373	6,295	6,355	6,378	0.5
Montgomery	34,254	35,471	34,911	34,459	34,292	0.1
Morris	5,994	5,923	5,888	5,854	5,741	-4.2
Morton	3,031	3,233	3,198	3,169	3,143	3.7
Nemaha	9,968	10,178	10,113	10,132	10,161	1.9
Neosho	16,046	16,512	16,449	16,406	16,430	2.4
Ness	2,835	3,107	3,120	3,068	3,073	8.4
Norton	5,330	5,671	5,635	5,612	5,622	5.5
Osage	16,104	16,295	16,306	16,142	16,142	0.2
Osborne	3,849	3,858	3,847	3,806	3,818	-0.8
Ottawa	5,974	6,091	6,119	6,072	6,042	1.1
Pawnee	6,206	6,973	7,011	6,928	6,971	12.3
Phillips	5,272	5,642	5,555	5,519	5,540	5.1
Pottawatomie	19,994	21,604	21,920	22,302	22,691	13.5
Pratt	9,304	9,656	9,676	9,728	9,878	6.2
Rawlins	2,425	2,519	2,512	2,560	2,589	6.8
Reno	63,357	64,511	64,607	64,438	64,190	1.3
Republic	4,808	4,980	4,907	4,858	4,820	0.2
Rice	10,079	10,083	10,076	9,985	10,011	-0.7
Riley	71,341	71,115	72,997	75,508	75,394	5.7
Rooks	4,984	5,181	5,182	5,223	5,190	4.1
Rush	3,143	3,307	3,238	3,220	3,186	1.4
Russell	6,596	6,970	6,956	6,946	6,933	5.1
Saline	54,364	55,606	55,844	55,988	55,740	2.5
Scott	4,560	4,936	4,910	4,937	5,035	10.4
Sedgwick	490,864	498,365	501,076	503,889	505,415	3.0
Seward	23,013	22,952	23,328	23,547	23,390	1.6
Shawnee	176,255	177,934	178,941	178,991	178,831	1.5
Sheridan	2,435	2,556	2,552	2,538	2,553	4.8
Sherman	5,860	6,010	6,054	6,113	6,115	4.4
Smith	3,753	3,853	3,834	3,765	3,706	-1.3
Stafford	4,342	4,437	4,371	4,358	4,359	0.4
Stanton	2,107	2,235	2,250	2,175	2,194	4.1
Stevens	5,129	5,724	5,613	5,756	5,816	13.4
Sumner	23,488	24,132	23,787	23,674	23,591	0.4
Thomas	7,343	7,900	7,977	7,941	7,948	8.2
Trego	2,920	3,001	2,930	2,986	2,980	2.1
Wabaunsee	6,846	7,053	7,026	7,039	7,051	3.0
Wallace	1,408	1,485	1,527	1,517	1,569	11.4
Washington	5,683	5,799	5,845	5,758	5,629	-1.0
Wichita	2,109	2,234	2,276	2,256	2,192	3.9
Wilson	9,474	9,409	9,300	9,105	9,105	-3.9
Woodson	3,240	3,309	3,292	3,278	3,221	-0.6
Wyandotte	155,085	157,505	158,224	159,129	160,384	3.4
Peer Group						
Frontier	85,038	113,811	113,453	112,514	112,373	32.1
Rural	269,582	238,338	237,591	236,318	235,845	-12.5
Densely -Settled Rural	424,298	476,391	477,364	477,584	476,272	12.2
Semi-Urban	558,505	459,542	462,211	466,964	465,397	-16.7
Urban	1,481,324	1,565,036	1,580,619	1,592,525	1,604,070	8.3

Source: U.S. Bureau of the Census
* See Technical Notes for Peer Group definition. Several counties changed groups as of the 2010 Census.

Table 5
City Population*
Kansas, 2009-2013

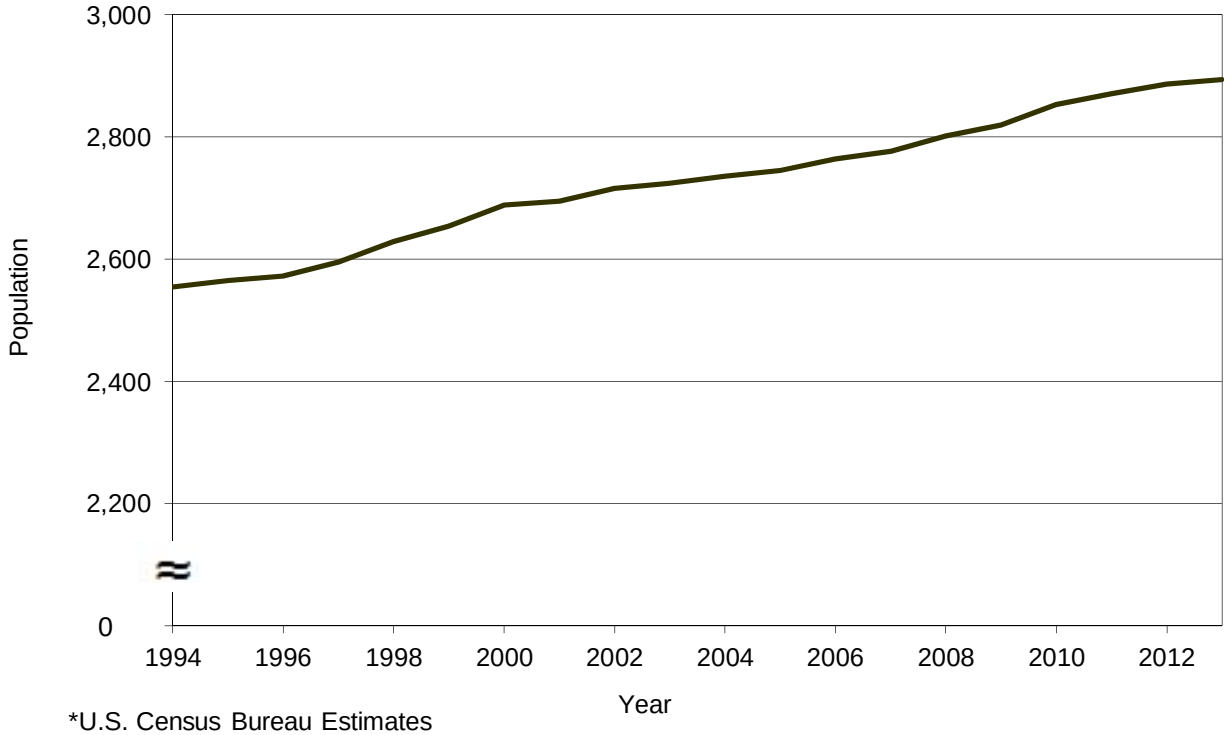
City of Residence	Year 2009	2010	2011	2012	2013	Percent Change 2009-2013
Abilene	6,268	6,844	6,839	6,771	6,665	6.3
Andover	10,581	11,791	11,779	12,099	12,265	15.9
Arkansas City	10,977	12,415	12,401	12,340	12,305	12.1
Atchison	10,432	11,021	10,943	10,953	10,925	4.7
Augusta	8,743	9,274	9,265	9,217	9,203	5.3
Baldwin City	4,401	4,515	4,569	4,526	4,540	3.2
Basehor	4,392	4,665	4,692	4,787	4,898	11.5
Baxter Springs	4,144	4,238	4,195	4,162	4,124	-0.5
Bel Aire	6,873	6,769	6,806	6,838	6,916	0.6
Beloit	3,665	3,835	3,789	3,830	3,846	4.9
Bonner Springs	7,248	7,314	7,346	7,419	7,480	3.2
Burlington	2,676	2,674	2,654	2,652	2,630	-1.7
Chanute	8,738	9,119	9,085	9,161	9,255	5.9
Clay Center	4,366	4,334	4,354	4,315	4,239	-2.9
Coffeyville	10,244	10,295	10,137	9,993	9,949	-2.9
Colby	4,834	5,387	5,438	5,406	5,416	12.0
Columbus	3,177	3,312	3,278	3,250	3,223	1.4
Concordia	5,109	5,395	5,302	5,320	5,261	3.0
Derby	22,923	22,158	22,279	22,943	23,047	0.5
De Soto	5,488	5,720	5,813	5,869	5,911	7.7
Dodge City	25,955	27,340	27,921	28,075	28,159	8.5
Edwardsville	4,528	4,340	4,360	4,377	4,355	-3.8
El Dorado	12,643	13,021	13,008	12,900	12,852	1.7
Ellsworth	2,817	3,120	3,113	3,116	3,077	9.2
Emporia	24,868	24,916	24,971	24,958	24,799	-0.3
Eudora	6,260	6,136	6,217	6,184	6,211	-0.8
Eureka	2,483	2,633	2,616	2,537	2,527	1.8
Fairway	3,891	3,882	3,945	3,939	3,963	1.9
Fort Scott	7,938	8,087	7,990	7,934	7,934	-0.1
Frontenac	3,201	3,437	3,445	3,459	3,432	7.2
Galena	3,119	3,085	3,054	3,029	2,994	-4.0
Garden City	28,532	26,658	26,880	26,985	26,966	-5.5
Gardner	17,852	19,123	19,433	20,318	20,473	14.7
Garnett	3,163	3,415	3,402	3,325	3,307	4.6
Girard	2,710	2,789	2,796	2,796	2,779	2.5
Goddard	4,048	4,413	4,367	4,532	4,582	13.2
Goodland	4,276	4,489	4,522	4,559	4,557	6.6
Great Bend	15,652	15,995	16,092	15,923	15,901	1.6
Hays	20,360	20,510	20,717	20,993	21,038	3.3
Haysville	10,496	10,826	10,883	10,951	11,004	4.8
Herington	2,395	2,526	2,525	2,493	2,449	2.3
Hesston	3,829	3,709	3,725	3,742	3,736	-2.4
Hiawatha	3,182	3,172	3,181	3,133	3,178	-0.1
Hillsboro	2,613	2,993	2,969	2,926	2,903	11.1
Hoisington	2,797	2,706	2,723	2,691	2,685	-4.0
Holton	3,289	3,329	3,322	3,302	3,278	-0.3
Hugoton	3,455	3,904	3,829	3,927	3,979	15.2
Hutchinson	40,795	42,080	42,142	41,962	41,889	2.7
Independence	9,198	9,483	9,332	9,242	9,230	0.3
Iola	5,719	5,704	5,687	5,698	5,613	-1.9
Junction City	20,932	23,353	24,015	25,817	25,388	21.3
Kansas City	143,209	145,786	146,453	147,268	148,483	3.7

Table 5
City Population*
Kansas, 2009-2013

City of Residence	Year 2009	2010	2011	2012	2013	Percent Change 2009-2013
Kingman	2,931	3,177	3,176	3,169	3,158	7.7
Lansing	10,804	11,265	11,385	11,591	11,642	7.8
Larned	3,540	4,054	4,080	4,023	4,046	14.3
Lawrence	92,048	87,643	88,727	89,512	90,811	-1.3
Leavenworth	35,081	35,251	35,675	35,816	35,891	2.3
Leawood	31,766	31,867	32,389	32,539	32,991	3.9
Lenexa	48,087	48,190	48,972	49,398	50,344	4.7
Liberal	20,048	20,525	20,861	21,084	20,956	4.5
Lindsborg	3,224	3,458	3,465	3,464	3,481	8.0
Louisburg	3,906	4,315	4,305	4,282	4,299	10.1
Lyons	3,400	3,739	3,736	3,733	3,737	9.9
McPherson	13,323	13,155	13,182	13,218	13,322	0.0
Maize	3,346	3,482	3,437	3,708	3,823	14.3
Manhattan	52,836	52,281	53,678	56,069	56,143	6.3
Marysville	3,105	3,294	3,261	3,295	3,295	6.1
Merriam	11,132	11,003	11,180	11,174	11,281	1.3
Mission	9,865	9,323	9,475	9,467	9,516	-3.5
Mission Hills	3,622	3,498	3,554	3,564	3,582	-1.1
Mulvane	5,915	6,111	6,127	6,267	6,287	6.3
Newton	18,437	19,132	19,230	19,189	19,117	3.7
Norton	2,657	2,928	2,908	2,871	2,880	8.4
Olathe	121,962	125,872	127,907	130,045	131,885	8.1
Osage City	2,770	2,943	2,945	2,903	2,899	4.7
Osawatomie	4,541	4,447	4,437	4,388	4,385	-3.4
Ottawa	12,887	12,649	12,620	12,575	12,482	-3.1
Overland Park	174,907	173,372	176,185	178,919	181,260	3.6
Paola	5,346	5,602	5,590	5,550	5,630	5.3
Park City	8,029	7,297	7,336	7,446	7,499	-6.6
Parsons	10,996	10,500	10,454	10,327	10,164	-7.6
Phillipsburg	2,349	2,581	2,542	2,520	2,541	8.2
Pittsburg	19,639	20,233	20,276	20,360	20,398	3.9
Prairie Village	21,703	21,447	21,795	21,769	21,892	0.9
Pratt	6,315	6,835	6,850	6,880	6,986	10.6
Roeland Park	7,026	6,731	6,841	6,816	6,845	-2.6
Rose Hill	4,091	3,931	3,928	3,932	3,942	-3.6
Russell	4,185	4,506	4,497	4,481	4,475	6.9
Sabetha	2,450	2,571	2,555	2,559	2,568	4.8
St Marys	2,301	2,631	2,664	2,656	2,677	16.3
Salina	46,180	47,707	47,910	48,045	47,846	3.6
Scott City	3,488	3,816	3,796	3,817	3,889	11.5
Shawnee	61,712	62,209	63,219	63,622	64,323	4.2
Spring Hill	5,281	5,437	5,483	5,612	5,730	8.5
Tonganoxie	4,416	4,996	5,065	5,108	5,165	17.0
Topeka	124,331	127,473	128,188	127,939	127,679	2.7
Ulysses	5,515	6,161	6,267	6,239	6,274	13.8
Valley Center	6,638	6,822	6,861	6,965	7,011	5.6
Wamego	4,372	4,372	4,435	4,485	4,603	5.3
Wellington	7,677	8,172	8,057	7,997	7,967	3.8
Wichita	372,186	382,368	384,445	385,577	386,552	3.9
Winfield	11,148	12,301	12,288	12,365	12,333	10.6

* Includes cities with populations of 2,500 or more as reported by the 2010 U.S. Census.
Source: U.S. Bureau of the Census; 2010 data are actual Census counts, not estimates.

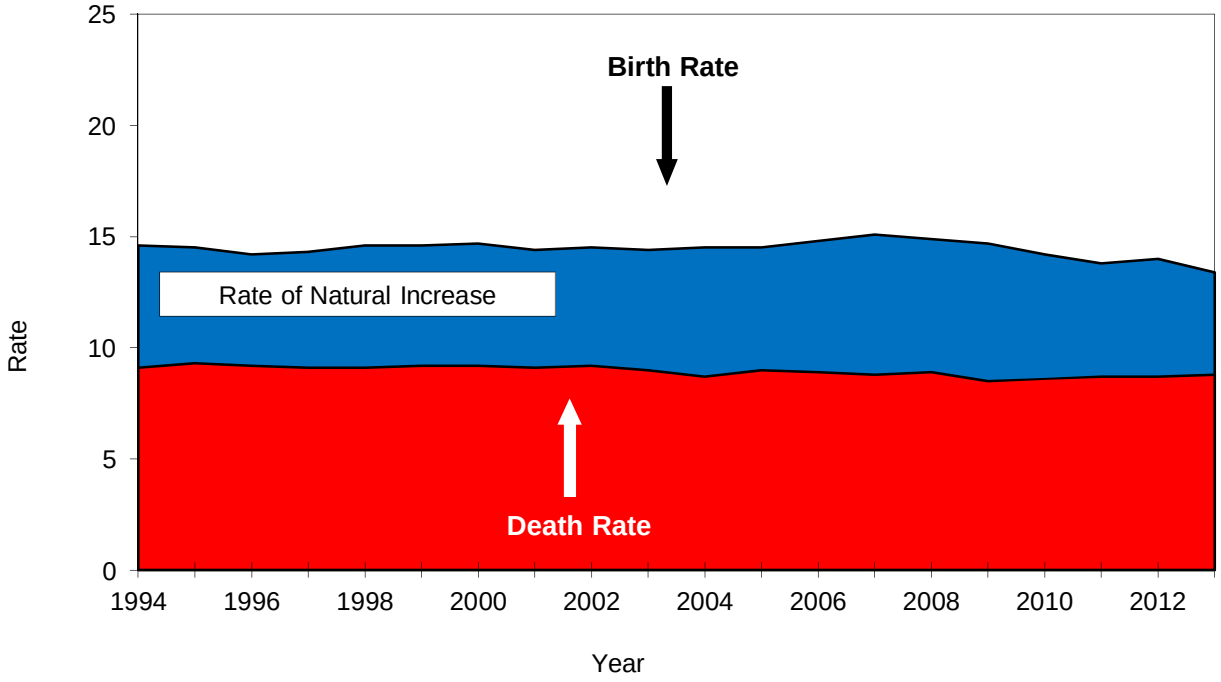
Total Population
Kansas, 1994-2013* (in Thousands)



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

Figure 4

Rate of Natural Increase
Kansas, 1994-2013



Rate per 1,000 Population

Figure 5

Median Age
Kansas, 1994-2013

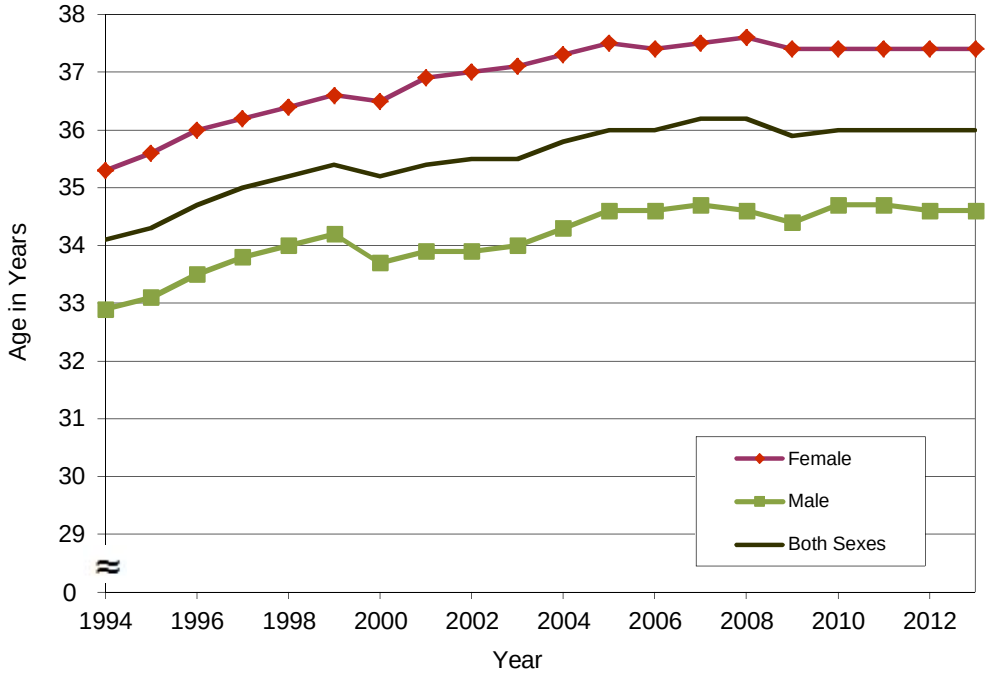


Figure 6

Percent Change in Age-Group Population
Both Sexes, Kansas, 1994-2013

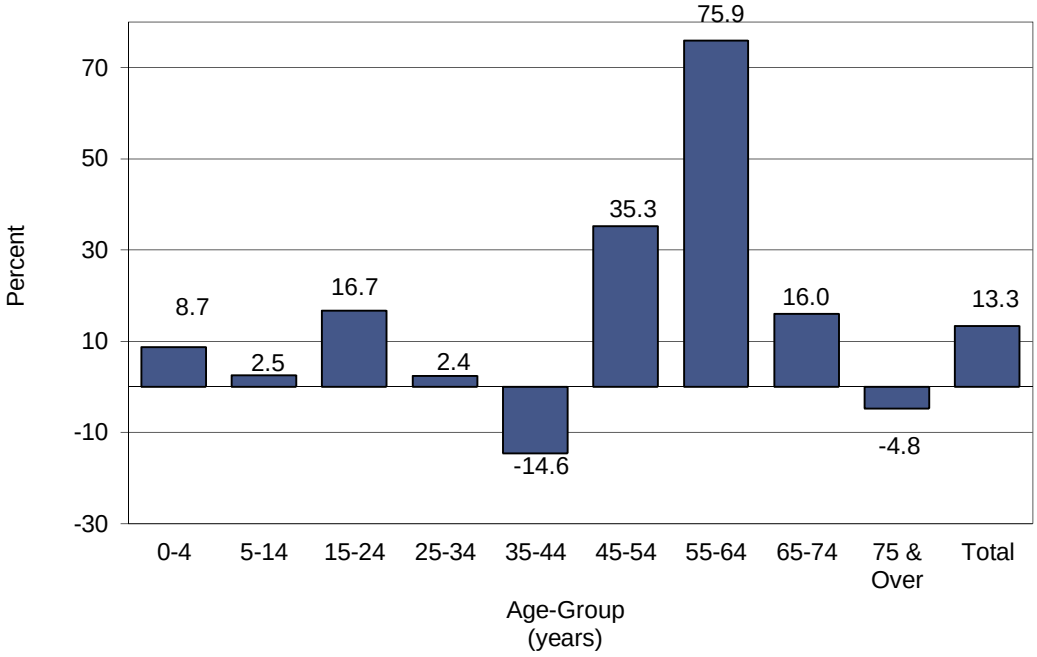


Figure 7

Table 6
Population by Nine Selected Age-Groups and Sex*
Kansas, 1994-2013
(In Thousands)

Age-Group	Year																				Percent Change
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	1994-2013
Both Sexes																					
0-4	184	183	180	179	182	184	189	189	188	189	189	188	194	196	203	205	205	204	203	200	8.7
5-14	395	394	387	385	389	388	400	401	386	385	376	367	380	379	380	383	401	401	403	405	2.5
15-24	359	362	366	376	389	398	400	401	414	417	419	416	415	411	411	424	408	412	415	419	16.7
25-34	378	372	364	356	347	340	349	350	352	352	359	364	355	361	368	369	378	383	387	387	2.4
35-44	403	411	417	423	426	427	420	421	404	393	388	382	375	367	360	349	347	343	343	344	-14.6
45-54	278	289	302	317	329	343	354	355	378	384	392	399	403	406	408	404	406	399	389	376	35.3
55-64	203	203	203	207	213	220	220	221	239	249	260	271	284	296	306	317	331	346	351	357	75.9
65-74	187	183	182	179	178	175	176	176	171	170	170	170	171	174	180	183	190	195	207	217	16.0
75 and Over	167	168	170	173	176	179	180	181	184	184	184	187	186	186	187	184	186	187	187	159	-4.8
Total †	2,554	2,565	2,572	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	13.3
Median Age	34.1	34.3	34.7	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	5.6
Males																					
0-4	95	94	93	92	94	94	97	97	97	98	98	98	99	100	103	105	105	104	104	103	8.4
5-14	203	203	199	198	200	199	205	206	198	197	193	189	195	195	195	196	206	206	206	208	2.5
15-24	185	186	189	194	200	205	207	207	214	216	216	215	215	213	214	221	211	213	216	219	18.4
25-34	191	188	183	179	173	170	179	179	181	182	185	188	183	186	190	189	192	195	198	199	4.2
35-44	204	208	211	214	216	216	210	211	202	197	195	192	188	185	182	177	175	173	173	174	-14.7
45-54	137	143	149	157	162	169	178	178	189	192	196	199	201	202	203	200	201	198	193	187	36.5
55-64	98	97	98	100	103	106	107	107	116	122	128	134	140	146	151	156	164	171	173	175	78.6
65-74	84	83	82	81	81	79	80	80	78	78	78	78	79	80	84	85	89	92	98	103	22.6
75 and Over	59	60	61	63	64	66	66	66	68	69	70	72	70	70	71	70	73	74	74	75	27.1
Total†	1,256	1,262	1,266	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	14.8
Median Age	32.9	33.1	33.5	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	5.2
Females																					
0-4	90	89	88	87	89	90	92	92	91	91	91	90	95	96	99	101	101	100	99	98	8.9
5-14	192	192	188	187	189	188	194	195	188	187	183	179	185	185	185	187	196	196	197	198	3.1
15-24	174	175	177	182	189	193	193	194	200	201	202	201	200	198	197	203	197	197	199	200	14.9
25-34	187	184	181	177	174	170	170	171	171	171	173	176	172	176	178	180	185	191	189	189	1.1
35-44	199	203	206	209	211	211	210	211	202	196	193	190	187	183	179	171	172	170	170	170	-14.6
45-54	141	147	153	161	167	174	176	177	188	192	196	200	202	204	205	204	205	201	196	190	34.8
55-64	105	105	105	107	111	114	113	113	122	127	133	138	144	150	155	160	168	175	178	181	72.4
65-74	103	101	100	98	97	96	96	96	93	92	92	92	92	94	96	98	101	103	109	114	10.7
75 and Over	108	108	109	110	112	113	115	115	116	115	114	115	116	116	116	115	113	113	113	113	4.6
Total†	1,298	1,304	1,306	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	11.9
Median Age	35.3	35.6	36.0	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	5.9

* U.S. Census Bureau estimates for July 1, 1993-1999, 2002-2009, and 2011-2013.
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.

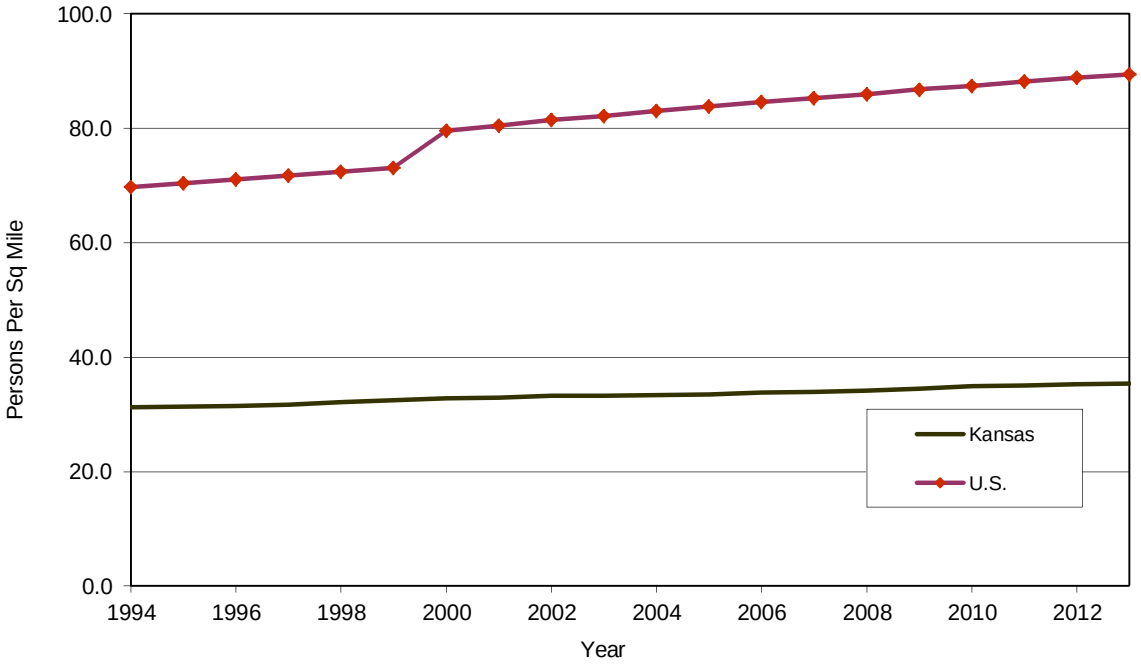
Table 7
Kansas Population 2013
by 11 Selected Age-Groups, Population Group and Sex*

Age-Group	Total	White Non-Hispanic		Black Non-Hispanic		Native American Non-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	2,893,957	1,103,195	1,128,993	87,016	82,315	11,675	11,894	37,378	39,909	33,632	34,390	169,052	154,508
<1	39,597	13,308	12,594	1,363	1,361	180	166	589	544	1,230	1,130	3,668	3,464
1-4	160,809	54,034	51,414	5,433	5,280	572	568	2,116	2,067	4,457	4,162	15,602	15,104
5-14	405,302	140,699	132,794	12,812	12,595	1,635	1,559	5,377	5,353	10,027	9,913	37,113	35,425
15-24	418,659	154,749	143,155	16,709	13,856	2,317	2,136	6,615	6,349	6,876	6,882	31,459	27,556
25-34	387,397	144,291	140,170	14,125	11,883	1,734	1,685	7,221	7,301	3,569	4,023	27,756	23,639
35-44	343,815	129,708	128,940	10,963	9,720	1,602	1,493	6,079	6,790	2,588	2,737	22,972	20,223
45-54	376,468	152,338	156,193	10,984	10,465	1,492	1,781	4,185	4,756	2,057	2,233	15,911	14,073
55-64	356,847	152,392	157,683	8,572	8,639	1,213	1,378	2,902	3,763	1,631	1,757	8,742	8,175
65-74	216,544	92,434	101,469	3,807	4,677	633	726	1,575	1,918	779	892	3,687	3,947
75-84	125,528	49,234	65,475	1,740	2,662	246	308	588	807	325	448	1,645	2,050
85+	62,991	20,008	39,106	508	1,177	51	94	131	261	93	213	497	852

*U.S. Census Bureau estimates for 2013.

Population Density

Kansas and the U.S., 1994-2013



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

Figure 8

Table 8
Kansas Population
by Population Group and County of Residence
2013

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	2,893,957	2,232,188	169,331	23,569	77,287	68,022	323,560
Allen	13,124	11,963	266	102	78	298	417
Anderson	7,897	7,474	48	54	52	125	144
Atchison	16,749	14,841	846	101	91	397	473
Barber	4,947	4,636	26	31	25	72	157
Barton	27,509	22,678	372	129	101	338	3,891
Bourbon	14,852	13,537	451	96	97	337	334
Brown	9,997	8,379	137	832	41	248	360
Butler	65,803	59,294	1,179	549	623	1,287	2,871
Chase	2,700	2,498	33	20	6	38	105
Chautauqua	3,552	3,099	23	167	7	154	102
Cherokee	20,978	18,657	150	824	129	772	446
Cheyenne	2,694	2,460	7	6	18	18	185
Clark	2,193	1,892	13	19	26	54	189
Clay	8,406	7,984	46	35	36	98	207
Cloud	9,292	8,722	72	36	29	130	303
Coffey	8,412	7,918	66	66	47	110	205
Comanche	1,955	1,819	9	4	6	30	87
Cowley	36,204	29,280	963	661	647	1,012	3,641
Crawford	39,278	34,584	808	372	636	908	1,970
Decatur	2,930	2,797	22	11	13	35	52
Dickinson	19,609	17,976	203	101	98	350	881
Doniphan	7,851	7,076	269	112	23	169	202
Douglas	114,322	92,015	4,785	2,646	4,862	3,679	6,335
Edwards	2,945	2,291	11	15	12	27	589
Elk	2,655	2,449	2	28	12	73	91
Ellis	29,061	26,368	260	68	400	382	1,583
Ellsworth	6,398	5,536	319	41	44	85	373
Finney	37,098	16,447	888	172	1,431	394	17,766
Ford	34,819	14,710	876	147	591	383	18,112
Franklin	25,740	23,572	326	171	122	544	1,005
Geary	37,384	21,916	6,415	295	1,531	1,753	5,474
Gove	2,769	2,662	9	2	13	20	63
Graham	2,593	2,311	109	13	14	69	77
Grant	7,950	4,085	31	28	36	67	3,703
Gray	6,009	5,007	31	19	16	50	886
Greeley	1,290	1,068	2	4	4	10	202
Greenwood	6,424	5,931	27	77	19	123	247
Hamilton	2,609	1,689	12	18	16	30	844
Harper	5,860	5,317	23	69	13	65	373
Harvey	34,741	29,165	577	182	303	653	3,861
Haskell	4,141	2,856	13	18	64	38	1,152
Hodgeman	1,950	1,757	22	3	9	25	134
Jackson	13,366	11,313	85	981	60	366	561
Jefferson	18,813	17,713	118	182	50	294	456
Jewell	3,046	2,911	9	17	10	23	76
Johnson	566,933	459,350	26,459	1,741	25,770	11,830	41,783
Kearny	3,923	2,640	22	41	15	55	1,150
Kingman	7,844	7,391	23	50	47	110	223
Kiowa	2,523	2,295	14	24	22	31	137
Labette	20,916	17,797	918	391	114	795	901
Lane	1,720	1,567	12	9	4	32	96
Leavenworth	78,185	62,065	7,299	527	1,091	1,942	5,261
Lincoln	3,147	2,997	11	16	10	36	77
Linn	9,516	8,980	65	70	38	142	221
Logan	2,798	2,551	17	17	34	44	135

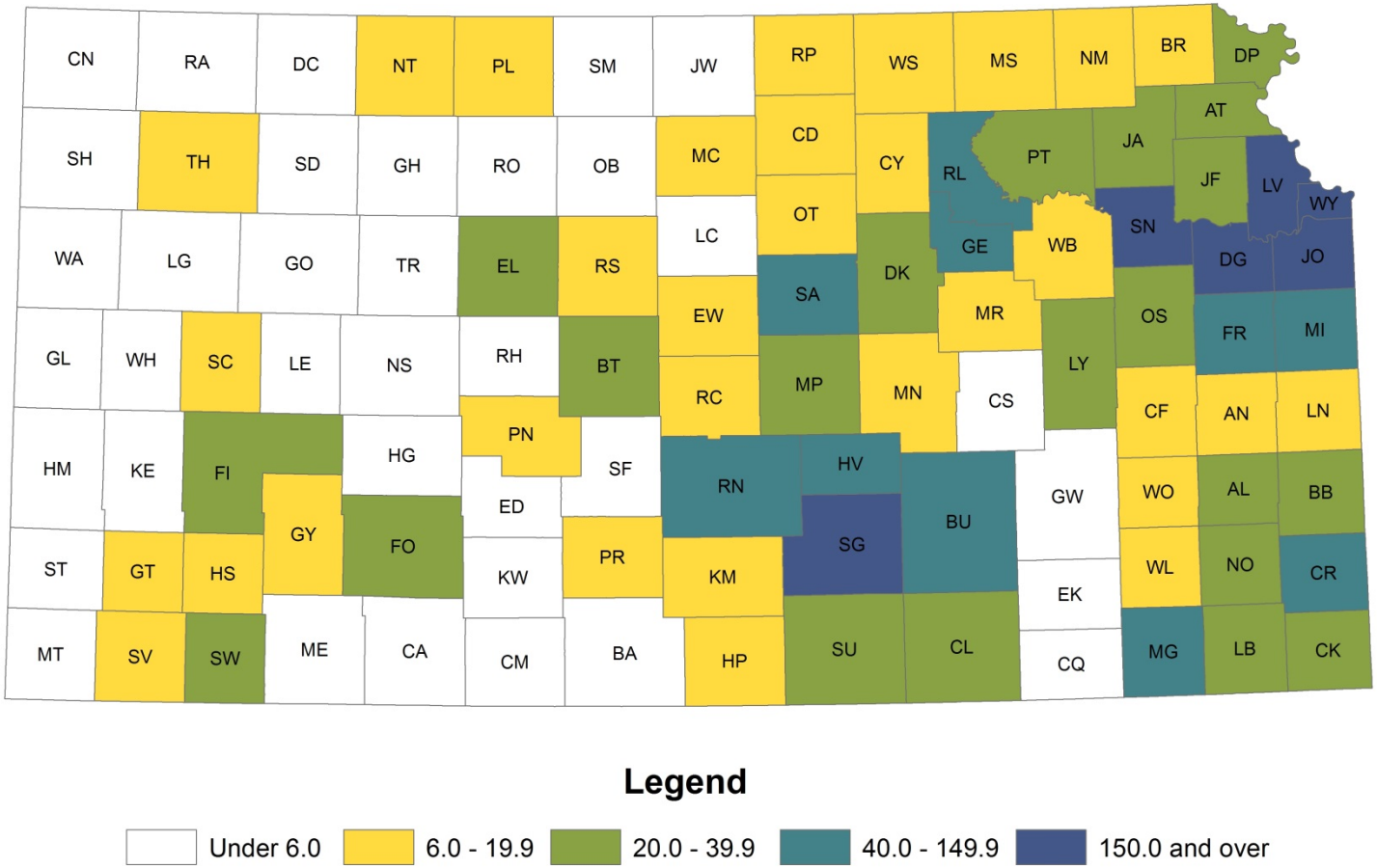
Table 8
Kansas Population
by Population Group and County of Residence
2013

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	24,246	759	215	830	596	6,864
McPherson	29,569	27,262	312	109	252	485	1,149
Marion	12,219	11,462	114	76	38	179	350
Marshall	10,002	9,532	33	36	41	137	223
Meade	4,343	3,494	33	34	16	71	695
Miami	32,835	30,595	429	184	132	533	962
Mitchell	6,378	6,114	19	25	29	58	133
Montgomery	34,292	27,523	1,901	1,039	274	1,473	2,082
Morris	5,741	5,336	36	30	17	90	232
Morton	3,143	2,306	20	29	57	55	676
Nemaha	10,161	9,735	58	50	36	124	158
Neosho	16,430	14,903	192	152	107	267	809
Ness	3,073	2,734	19	11	4	31	274
Norton	5,622	5,042	168	15	34	79	284
Osage	16,142	15,200	79	116	59	273	415
Osborne	3,818	3,679	10	14	17	33	65
Ottawa	6,042	5,709	62	25	15	69	162
Pawnee	6,971	5,952	335	40	31	111	502
Phillips	5,540	5,243	25	18	40	59	155
Pottawatomie	22,691	20,397	260	151	209	486	1,188
Pratt	9,878	8,808	125	40	55	176	674
Rawlins	2,589	2,426	9	3	8	24	119
Reno	64,190	54,774	1,942	378	346	1,191	5,559
Republic	4,820	4,663	24	11	25	27	70
Rice	10,011	8,468	141	62	49	194	1,097
Riley	75,394	58,673	4,803	390	3,442	2,135	5,951
Rooks	5,190	4,960	25	8	22	53	122
Rush	3,186	3,004	10	20	5	34	113
Russell	6,933	6,507	63	45	58	107	153
Saline	55,740	45,120	1,778	259	1,231	1,448	5,904
Scott	5,035	4,068	18	26	32	20	871
Sedgwick	505,415	349,886	45,345	4,393	21,290	15,183	69,318
Seward	23,390	7,882	772	84	678	305	13,669
Shawnee	178,831	134,055	14,436	1,669	2,445	5,612	20,614
Sheridan	2,553	2,412	6	6	4	22	103
Sherman	6,115	5,175	45	23	70	83	719
Smith	3,706	3,550	15	16	13	56	56
Stafford	4,359	3,651	16	36	19	56	581
Stanton	2,194	1,310	17	21	2	20	824
Stevens	5,816	3,733	26	46	19	60	1,932
Sumner	23,591	21,315	257	239	85	479	1,216
Thomas	7,948	7,291	58	30	71	87	411
Trego	2,980	2,855	18	8	17	23	59
Wabaunsee	7,051	6,576	51	51	17	118	238
Wallace	1,569	1,428	4	8	1	14	114
Washington	5,629	5,346	35	9	20	53	166
Wichita	2,192	1,552	15	6	11	13	595
Wilson	9,105	8,444	49	103	60	197	252
Woodson	3,221	3,022	12	31	2	63	91
Wyandotte	160,384	68,484	38,553	769	5,346	3,810	43,422
Peer Group							
Frontier	112,373	98,856	674	785	561	1,587	9,910
Rural	235,845	210,700	2,326	2,087	1,152	3,276	16,304
Densely -Settled Rural	476,272	371,561	9,296	5,133	6,130	9,178	74,974
Semi-Urban	465,397	385,216	20,158	3,819	8,640	11,925	35,639
Urban	1,604,070	1,165,855	136,877	11,745	60,804	42,056	186,733

*U.S. Census Bureau 2013 population estimates.

Population Density
By County of Residence

Kansas, 2013



Legend

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

Figure 9

PREGNANCY OUTCOMES

Table 9
Live Births by County of Residence and by Peer Group*
by Number and Rate†
Kansas, 2009-2013

County of Residence	Year 2009 Number	2009 Rate	2010 Number	2010 Rate	2011 Number	2011 Rate	2012 Number	2012 Rate	2013 Number	2013 Rate	5-Year Rate
Kansas	41,388	14.7	40,439	14.2	39,628	13.8	40,304	14.0	38,805	13.4	14.0
Allen	166	12.6	137	10.2	153	11.5	154	11.6	143	10.9	11.3
Anderson	105	13.3	106	13.1	108	13.4	85	10.7	94	11.9	12.5
Atchison	224	13.6	225	13.3	212	12.6	204	12.1	191	11.4	12.6
Barber	61	13.3	74	15.2	66	13.5	66	13.6	60	12.1	13.5
Barton	366	13.3	355	12.8	379	13.6	401	14.6	350	12.7	13.4
Bourbon	216	14.5	220	14.5	205	13.7	203	13.6	218	14.7	14.2
Brown	145	14.6	127	12.7	161	16.1	136	13.8	139	13.9	14.2
Butler	799	12.5	805	12.2	725	11.0	801	12.2	751	11.4	11.9
Chase	24	8.6	23	8.2	23	8.2	26	9.4	26	9.6	8.8
Chautauqua	37	9.9	25	6.8	38	10.6	40	11.2	34	9.6	9.6
Cherokee	257	12.2	237	11.0	254	11.9	227	10.7	219	10.4	11.2
Cheyenne	35	13.0	25	9.2	34	12.5	26	9.7	27	10.0	10.9
Clark	23	11.1	27	12.2	22	10.3	30	13.8	20	9.1	11.3
Clay	113	13.0	107	12.5	106	12.4	97	11.4	113	13.4	12.5
Cloud	136	14.7	130	13.6	107	11.4	135	14.4	103	11.1	13.0
Coffey	74	8.8	106	12.3	77	9.0	82	9.6	94	11.2	10.2
Comanche	27	14.4	20	10.6	31	16.5	23	12.0	21	10.7	12.8
Cowley	489	14.5	487	13.4	467	12.9	456	12.6	456	12.6	13.2
Crawford	563	14.5	478	12.2	508	13.0	493	12.5	489	12.4	12.9
Decatur	26	9.1	26	8.8	31	10.6	37	12.9	33	11.3	10.5
Dickinson	240	12.6	284	14.4	240	12.2	205	10.4	218	11.1	12.1
Doniphan	72	9.4	99	12.5	83	10.4	85	10.8	81	10.3	10.7
Douglas	1,232	10.6	1,263	11.4	1,216	10.8	1,262	11.2	1,219	10.7	10.9
Edwards	40	13.0	40	13.2	29	9.6	39	13.1	32	10.9	12.0
Elk	40	13.3	35	12.1	17	6.0	27	9.9	27	10.2	10.4
Ellis	406	14.6	375	13.2	408	14.2	406	14.0	360	12.4	13.7
Ellsworth	75	12.1	56	8.6	69	10.6	67	10.3	52	8.1	10.0
Finney	776	18.4	765	20.8	721	19.4	703	18.9	656	17.7	19.0
Ford	698	20.7	677	20.0	700	20.2	673	19.4	681	19.6	20.0
Franklin	352	13.3	337	13.0	304	11.7	324	12.5	332	12.9	12.7
Geary	890	28.0	1,051	30.6	930	26.3	1,060	27.9	1,029	27.5	28.0
Gove	36	14.5	29	10.8	35	13.0	30	11.0	30	10.8	12.0
Graham	22	9.0	31	11.9	25	9.5	29	11.2	24	9.3	10.2
Grant	147	20.0	128	16.3	127	15.9	112	14.1	123	15.5	16.3
Gray	95	15.8	94	15.7	87	14.2	87	14.4	103	17.1	15.4
Greeley	23	18.6	12	9.6	19	15.1	19	14.6	25	19.4	15.5
Greenwood	66	9.9	58	8.7	65	9.8	59	9.1	62	9.7	9.4
Hamilton	56	21.3	57	21.2	43	16.1	41	15.5	37	14.2	17.7
Harper	84	14.8	72	11.9	68	11.3	66	11.2	83	14.2	12.7
Harvey	458	13.4	463	13.3	428	12.3	463	13.3	445	12.8	13.0
Haskell	83	20.7	61	14.3	52	12.1	58	13.6	52	12.6	14.6
Hodgeman	21	11.0	22	11.5	21	10.7	28	14.3	21	10.8	11.6
Jackson	169	12.6	165	12.3	156	11.6	176	13.1	156	11.7	12.2
Jefferson	204	11.2	199	10.4	172	9.1	196	10.3	195	10.4	10.3
Jewell	29	9.5	25	8.1	19	6.1	31	10.2	27	8.9	8.5
Johnson	7,565	13.9	7,390	13.6	7,355	13.3	7,437	13.3	7,320	12.9	13.4
Kearny	58	13.9	65	16.3	62	15.6	55	13.9	63	16.1	15.1
Kingman	96	12.7	79	10.1	71	9.0	80	10.2	90	11.5	10.7
Kiowa	29	12.5	28	11.0	38	14.9	32	12.8	39	15.5	13.3
Labette	297	13.6	277	12.8	243	11.3	297	14.0	270	12.9	12.9
Lane	22	12.6	16	9.1	22	12.6	22	12.9	23	13.4	12.1
Leavenworth	963	12.8	946	12.4	967	12.5	966	12.4	955	12.2	12.5
Lincoln	38	12.2	35	10.8	38	11.8	33	10.4	25	7.9	10.6
Linn	101	10.8	92	9.5	101	10.5	97	10.3	91	9.6	10.1
Logan	23	9.0	36	13.1	36	12.9	30	10.8	33	11.8	11.6

Table 9
Live Births by County of Residence and by Peer Group*
by Number and Rate†
Kansas, 2009-2013

County of Residence	Year 2009 Number	2009 Rate	2010 Number	2010 Rate	2011 Number	2011 Rate	2012 Number	2012 Rate	2013 Number	2013 Rate	5-Year Rate
Lyon	474	14.1	426	12.6	420	12.4	421	12.5	419	12.5	12.8
McPherson	364	12.6	300	10.3	347	11.9	366	12.5	320	10.8	11.6
Marion	109	9.1	126	10.0	112	8.9	112	9.1	109	8.9	9.2
Marshall	110	10.9	111	11.0	114	11.4	124	12.4	125	12.5	11.6
Meade	55	12.5	52	11.4	72	15.9	45	10.2	69	15.9	13.2
Miami	411	13.3	384	11.7	380	11.6	364	11.2	297	9.0	11.3
Mitchell	85	13.4	66	10.4	84	13.3	74	11.6	72	11.3	12.0
Montgomery	485	14.2	426	12.0	457	13.1	502	14.6	427	12.5	13.2
Morris	58	9.7	54	9.1	64	10.9	73	12.5	59	10.3	10.5
Morton	51	16.8	34	10.5	39	12.2	52	16.4	37	11.8	13.5
Nemaha	138	13.8	131	12.9	125	12.4	126	12.4	154	15.2	13.3
Neosho	203	12.7	226	13.7	214	13.0	230	14.0	204	12.4	13.2
Ness	19	6.7	39	12.6	28	9.0	41	13.4	33	10.7	10.5
Norton	56	10.5	47	8.3	49	8.7	53	9.4	51	9.1	9.2
Osage	177	11.0	185	11.4	184	11.3	157	9.7	150	9.3	10.5
Osborne	33	8.6	47	12.2	39	10.1	37	9.7	50	13.1	10.7
Ottawa	61	10.2	80	13.1	46	7.5	68	11.2	58	9.6	10.3
Pawnee	82	13.2	77	11.0	75	10.7	68	9.8	63	9.0	10.7
Phillips	53	10.1	57	10.1	50	9.0	74	13.4	65	11.7	10.9
Pottawatomie	350	17.5	382	17.7	354	16.1	370	16.6	353	15.6	16.7
Pratt	122	13.1	113	11.7	164	16.9	149	15.3	122	12.4	13.9
Rawlins	27	11.1	23	9.1	15	6.0	33	12.9	22	8.5	9.5
Reno	847	13.4	762	11.8	759	11.7	742	11.5	743	11.6	12.0
Republic	56	11.6	35	7.0	46	9.4	48	9.9	49	10.2	9.6
Rice	116	11.5	129	12.8	119	11.8	119	11.9	128	12.8	12.2
Riley	1,064	14.9	1,118	15.7	1,119	15.3	1,177	15.6	999	13.3	14.9
Rooks	74	14.8	66	12.7	63	12.2	62	11.9	60	11.6	12.6
Rush	27	8.6	30	9.1	26	8.0	31	9.6	30	9.4	8.9
Russell	81	12.3	93	13.3	85	12.2	85	12.2	94	13.6	12.7
Saline	861	15.8	805	14.5	756	13.5	766	13.7	772	13.9	14.3
Scott	87	19.1	43	8.7	76	15.5	62	12.6	61	12.1	13.5
Sedgwick	8,293	16.9	8,058	16.2	7,818	15.6	7,889	15.7	7,487	14.8	15.8
Seward	571	24.8	468	20.4	451	19.3	462	19.6	441	18.9	20.6
Shawnee	2,460	14.0	2,496	14.0	2,464	13.8	2,431	13.6	2,352	13.2	13.7
Sheridan	29	11.9	20	7.8	31	12.1	26	10.2	31	12.1	10.8
Sherman	63	10.8	83	13.8	72	11.9	82	13.4	80	13.1	12.6
Smith	38	10.1	31	8.0	27	7.0	40	10.6	28	7.6	8.7
Stafford	49	11.3	41	9.2	45	10.3	40	9.2	49	11.2	10.2
Stanton	32	15.2	30	13.4	29	12.9	29	13.3	38	17.3	14.4
Stevens	85	16.6	83	14.5	84	15.0	89	15.5	99	17.0	15.7
Sumner	283	12.0	312	12.9	263	11.1	279	11.8	272	11.5	11.9
Thomas	108	14.7	115	14.6	99	12.4	118	14.9	98	12.3	13.8
Trego	31	10.6	27	9.0	27	9.2	24	8.0	33	11.1	9.6
Wabaunsee	89	13.0	77	10.9	83	11.8	107	15.2	98	13.9	13.0
Wallace	11	7.8	12	8.1	18	11.8	20	13.2	23	14.7	11.2
Washington	69	12.1	57	9.8	61	10.4	68	11.8	79	14.0	11.6
Wichita	30	14.2	35	15.7	23	10.1	31	13.7	25	11.4	13.0
Wilson	116	12.2	128	13.6	114	12.3	123	13.5	109	12.0	12.7
Woodson	44	13.6	43	13.0	31	9.4	28	8.5	29	9.0	10.7
Wyandotte	2,859	18.4	2,754	17.5	2,732	17.3	2,770	17.4	2,678	16.7	17.5
n.s.	--	N/A	--	N/A	1	N/A	0	N/A	1	N/A	N/A
Peer Group											
Frontier	1,016	11.9	1,279	11.2	1,268	11.2	1,316	11.7	1,297	11.5	11.5
Rural	3,437	12.7	2,823	11.5	2,815	11.5	2,870	12.1	2,859	12.1	12.0
Densely -Settled Rural	6,359	15.0	6,801	14.5	6,626	14.1	6,671	14.0	6,353	13.3	14.2
Semi-Urban	8,167	14.6	6,629	14.4	6,366	13.8	6,692	14.3	6,284	13.5	14.1
Urban	22,409	15.1	22,907	14.6	22,552	14.3	22,755	14.3	22,011	13.7	14.4

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

Table 10
Live Births by Selected City of Residence
by Number and Rate*
Kansas, 2009-2013

City of Residence	Year 2009 Number	2009 Rate	2010 Number	2010 Rate	2011 Number	2011 Rate	2012 Number	2012 Rate	2013 Number	2013 Rate	5-Year Rate
Abilene	108	17.2	99	14.5	86	12.6	92	13.6	85	12.8	14.1
Andover	189	17.9	173	14.7	176	14.9	164	13.6	170	13.9	14.9
Arkansas City	248	22.6	240	19.3	196	15.8	208	16.9	213	17.3	18.3
Atchison	196	18.8	162	14.7	161	14.7	156	14.2	140	12.8	15.0
Augusta	134	15.3	138	14.9	109	11.8	150	16.3	143	15.5	14.7
Baldwin City	40	9.1	52	11.5	37	8.1	46	10.2	31	6.8	9.1
Basehor	61	13.9	65	13.9	66	14.1	54	11.3	62	12.7	13.1
Baxter Springs	68	16.4	56	13.2	56	13.3	66	15.9	49	11.9	14.1
Bel Aire	62	9.0	56	8.3	63	9.3	81	11.8	55	8.0	9.3
Beloit	58	15.8	41	10.7	63	16.6	43	11.2	45	11.7	13.2
Bonner Springs	111	15.3	98	13.4	99	13.5	105	14.2	109	14.6	14.2
Burlington	28	10.5	40	15.0	23	8.7	31	11.7	29	11.0	11.4
Chanute	129	14.8	148	16.2	119	13.1	152	16.6	131	14.2	15.0
Clay Center	69	15.8	60	13.8	67	15.4	54	12.5	63	14.9	14.5
Coffeyville	182	17.8	138	13.4	157	15.5	160	16.0	155	15.6	15.6
Colby	77	15.9	86	16.0	72	13.2	87	16.1	72	13.3	14.9
Columbus	67	21.1	40	12.1	53	16.2	43	13.2	38	11.8	14.8
Concordia	86	16.8	82	15.2	65	12.3	79	14.8	67	12.7	14.4
Derby	314	13.7	360	16.2	344	15.4	331	14.4	326	14.1	14.8
De Soto	75	13.7	52	9.1	63	10.8	72	12.3	82	13.9	11.9
Dodge City	643	24.8	608	22.2	628	22.5	612	21.8	607	21.6	22.5
Edwardsville	44	9.7	52	12.0	47	10.8	38	8.7	50	11.5	10.5
El Dorado	192	15.2	189	14.5	189	14.5	221	17.1	166	12.9	14.9
Ellsworth	41	14.6	28	9.0	31	10.0	31	9.9	24	7.8	10.2
Emporia	391	15.7	357	14.3	336	13.5	358	14.3	335	13.5	14.3
Eudora	110	17.6	112	18.3	102	16.4	94	15.2	78	12.6	16.0
Eureka	29	11.7	30	11.4	26	9.9	22	8.7	28	11.1	10.6
Fairway	51	13.1	69	17.8	58	14.7	59	15.0	61	15.4	15.2
Fort Scott	185	23.3	140	17.3	122	15.3	123	15.5	140	17.6	17.8
Frontenac	38	11.9	38	11.1	35	10.2	37	10.7	34	9.9	10.7
Galena	71	22.8	44	14.3	37	12.1	31	10.2	42	14.0	14.7
Garden City	667	23.4	648	24.3	616	22.9	612	22.7	565	21.0	22.8
Gardner	452	25.3	419	21.9	405	20.8	399	19.6	376	18.4	21.1
Garnett	61	19.3	56	16.4	41	12.1	32	9.6	39	11.8	13.8
Girard	35	12.9	25	9.0	32	11.4	21	7.5	25	9.0	9.9
Goddard	98	24.2	111	25.2	105	24.0	95	21.0	92	20.1	22.8
Goodland	53	12.4	71	15.8	61	13.5	70	15.4	65	14.3	14.3
Great Bend	246	15.7	230	14.4	252	15.7	259	16.3	226	14.2	15.2
Hays	333	16.4	289	14.1	302	14.6	307	14.6	277	13.2	14.6
Haysville	203	19.3	157	14.5	199	18.3	201	18.4	176	16.0	17.3
Herington	36	15.0	49	19.4	40	15.8	24	9.6	27	11.0	14.2
Hesston	43	11.2	27	7.3	31	8.3	43	11.5	41	11.0	9.9
Hiawatha	53	16.7	48	15.1	48	15.1	45	14.4	48	15.1	15.3
Hillsboro	29	11.1	34	11.4	30	10.1	27	9.2	24	8.3	10.0
Hoisington	38	13.6	46	17.0	38	14.0	42	15.6	39	14.5	14.9
Holton	57	17.3	56	16.8	48	14.4	64	19.4	56	17.1	17.0
Hugoton	70	20.3	66	16.9	63	16.5	68	17.3	74	18.6	17.9
Hutchinson	675	16.5	517	12.3	536	12.7	509	12.1	526	12.6	13.2
Independence	205	22.3	149	15.7	142	15.2	169	18.3	141	15.3	17.3
Iola	99	17.3	78	13.7	85	14.9	77	13.5	76	13.5	14.6
Junction City	643	30.7	728	31.2	622	25.9	666	25.8	627	24.7	27.5
Kansas City	2,697	18.8	2,608	17.9	2,579	17.6	2,616	17.8	2,519	17.0	17.8

Table 10
Live Births by Selected City of Residence
by Number and Rate*
Kansas, 2009-2013

City of Residence	Year										5-Year Rate
	2009		2010		2011		2012		2013		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
Kingman	53	18.1	36	11.3	30	9.4	41	12.9	44	13.9	13.1
Lansing	93	8.6	99	8.8	96	8.4	79	6.8	84	7.2	8.0
Larned	64	18.1	59	14.6	56	13.7	49	12.2	46	11.4	13.9
Lawrence	1,027	11.2	1,023	11.7	987	11.1	1,040	11.6	1,021	11.2	11.4
Leavenworth	466	13.3	397	11.3	428	12.0	441	12.3	416	11.6	12.1
Leawood	287	9.0	244	7.7	251	7.7	245	7.5	261	7.9	8.0
Lenexa	643	13.4	644	13.4	592	12.1	636	12.9	601	11.9	12.7
Liberal	556	27.7	434	21.1	425	20.4	432	20.5	409	19.5	21.8
Lindsborg	42	13.0	26	7.5	29	8.4	35	10.1	32	9.2	9.6
Louisburg	100	25.6	58	13.4	70	16.3	65	15.2	56	13.0	16.5
Lyons	60	17.6	58	15.5	66	17.7	59	15.8	58	15.5	16.4
McPherson	205	15.4	164	12.5	193	14.6	200	15.1	167	12.5	14.0
Maize	69	20.6	72	20.7	50	14.5	66	17.8	68	17.8	18.3
Manhattan	718	13.6	749	14.3	764	14.2	812	14.5	701	12.5	13.8
Marysville	40	12.9	36	10.9	42	12.9	31	9.4	47	14.3	12.1
Merriam	166	14.9	154	14.0	164	14.7	137	12.3	141	12.5	13.7
Mission	143	14.5	174	18.7	169	17.8	167	17.6	156	16.4	17.0
Mission Hills	25	6.9	18	5.1	19	5.3	31	8.7	21	5.9	6.4
Mulvane	103	17.4	83	13.6	70	11.4	73	11.6	101	16.1	14.0
Newton	295	16.0	318	16.6	271	14.1	306	15.9	295	15.4	15.6
Norton	43	16.2	34	11.6	29	10.0	36	12.5	38	13.2	12.6
Olathe	2,147	17.6	1,993	15.8	2,002	15.7	1,986	15.3	1,990	15.1	15.9
Osage City	40	14.4	30	10.2	31	10.5	28	9.6	28	9.7	10.9
Osawatomie	70	15.4	71	16.0	75	16.9	76	17.3	42	9.6	15.0
Ottawa	235	18.2	201	15.9	180	14.3	183	14.6	188	15.1	15.6
Overland Park	2,130	12.2	2,101	12.1	2,054	11.7	2,090	11.7	2,169	12.0	11.9
Paola	93	17.4	101	18.0	92	16.5	79	14.2	84	14.9	16.2
Park City	105	13.1	102	14.0	118	16.1	113	15.2	83	11.1	13.9
Parsons	173	15.7	158	15.0	149	14.3	175	16.9	165	16.2	15.6
Phillipsburg	34	14.5	29	11.2	25	9.8	40	15.9	37	14.6	13.2
Pittsburg	355	18.1	296	14.6	305	15.0	309	15.2	305	15.0	15.6
Prairie Village	264	12.2	305	14.2	316	14.5	340	15.6	343	15.7	14.4
Pratt	101	16.0	85	12.4	128	18.7	110	16.0	95	13.6	15.3
Roeland Park	102	14.5	104	15.5	117	17.1	130	19.1	100	14.6	16.1
Rose Hill	55	13.4	58	14.8	51	13.0	45	11.4	56	14.2	13.4
Russell	57	13.6	62	13.8	64	14.2	58	12.9	71	15.9	14.1
Sabetha	34	13.9	42	16.3	31	12.1	35	13.7	37	14.4	14.1
St Marys	55	23.9	67	25.5	54	20.3	70	26.4	68	25.4	24.3
Salina	787	17.0	751	15.7	693	14.5	694	14.4	703	14.7	15.3
Scott City	66	18.9	39	10.2	66	17.4	51	13.4	52	13.4	14.6
Shawnee	899	14.6	830	13.3	884	14.0	901	14.2	807	12.5	13.7
Spring Hill	105	19.9	108	19.9	101	18.4	111	19.8	87	15.2	18.6
Tonganoxie	97	22.0	87	17.4	99	19.5	90	17.6	101	19.6	19.2
Topeka	2,309	18.6	2,101	16.5	2,086	16.3	2,053	16.0	2,004	15.7	16.6
Ulysses	134	24.3	105	17.0	108	17.2	84	13.5	110	17.5	17.8
Valley Center	112	16.9	95	13.9	100	14.6	109	15.6	95	13.6	14.9
Wamego	87	19.9	75	17.2	80	18.0	78	17.4	62	13.5	17.2
Wellington	144	18.8	136	16.6	107	13.3	116	14.5	98	12.3	15.1
Wichita	6,933	18.6	6,678	17.5	6,457	16.8	6,500	16.9	6,170	16.0	17.1
Winfield	187	16.8	151	12.3	170	13.8	167	13.5	159	12.9	13.8

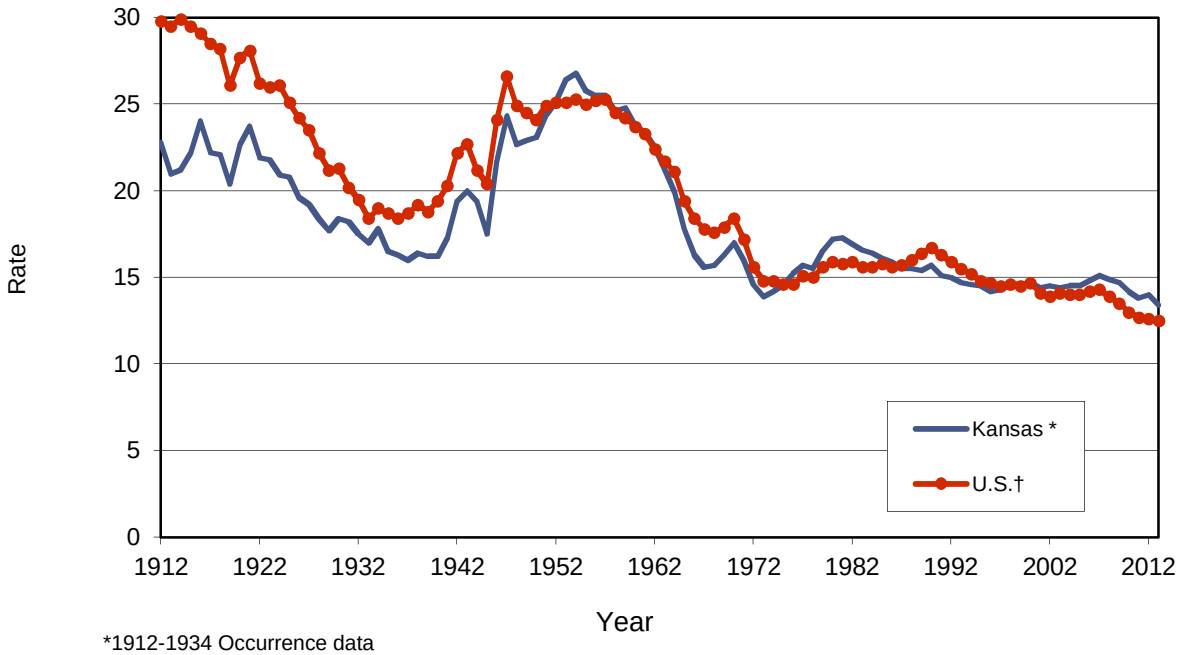
*Rate per 1,000 population

Table 11
Birth Rates*
Kansas† and the U.S.‡, 1912-2013

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

*Rate per 1,000 population
†1912-1934 Occurrence data
1935-2013 Residence data
‡US numbers from provisional reports.

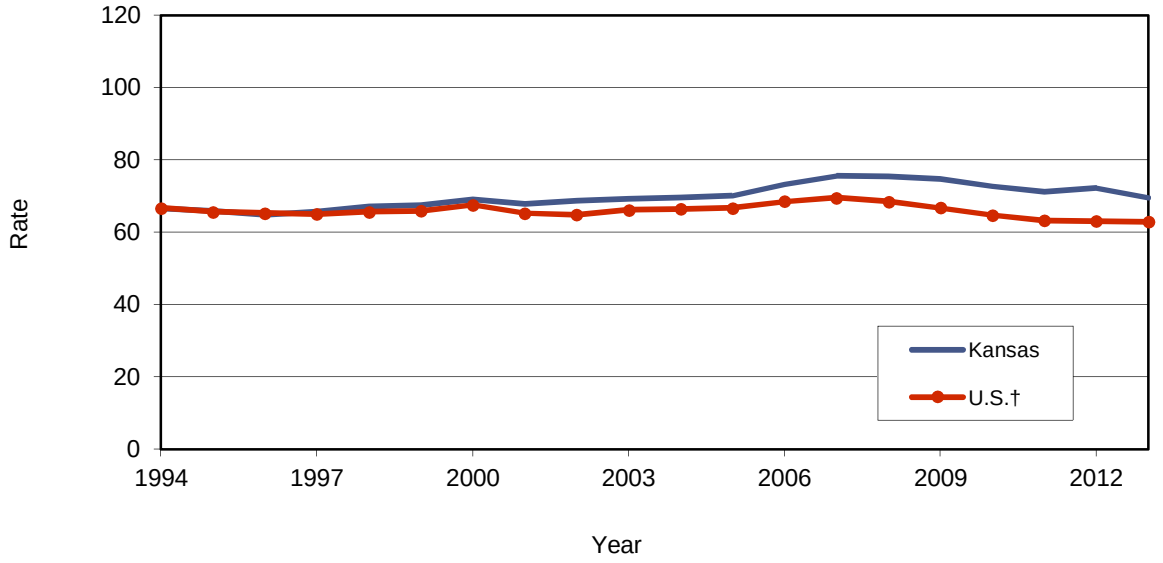
Birth Rates
Kansas and the U.S., 1912-2013



*1912-1934 Occurrence data
1935-2013 Residence data
†2013 Rates Provisional

Figure 10

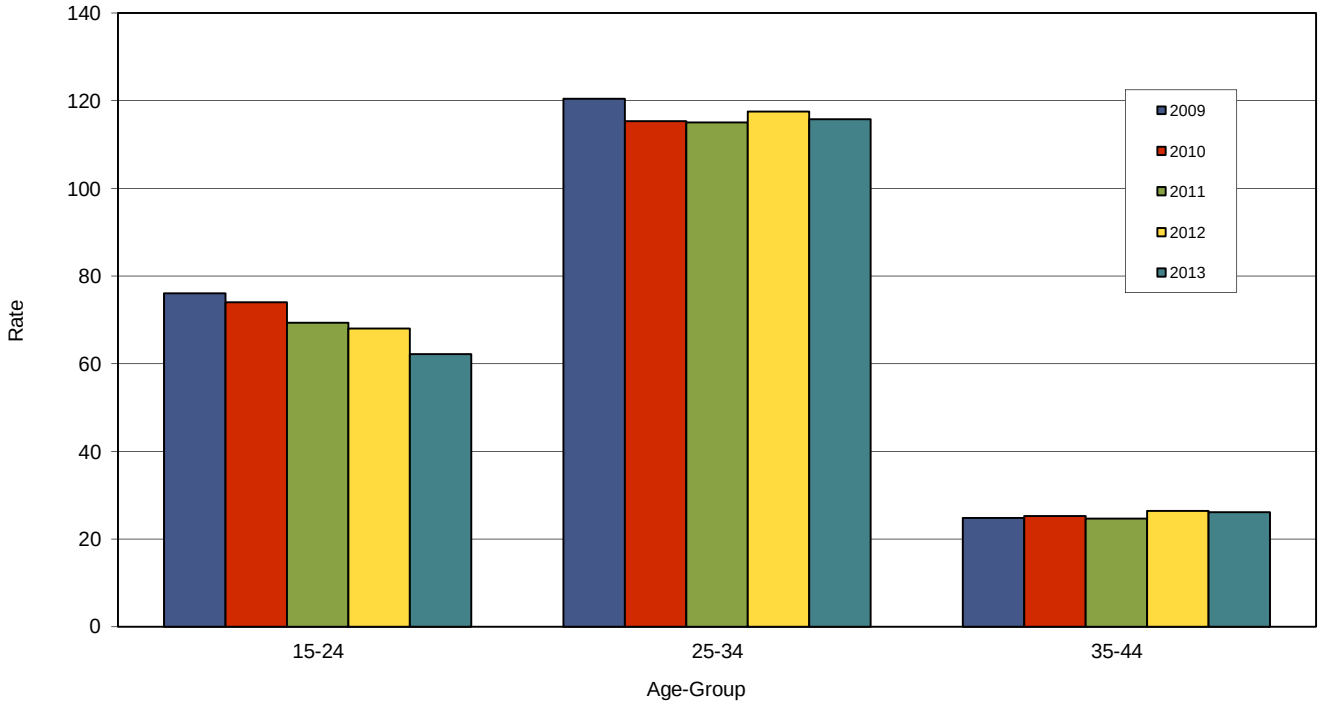
Fertility Rates*
Kansas and the U.S., 1994-2013



*Rate per 1,000 Female
Population 15-44
†2013 Rates Provisional

Figure 11

Age-Specific Fertility Rates by Year by Age-Group of Mother*
Kansas, 2009-2013



*Rate per 1,000 Female Age- Group Population

Figure 12

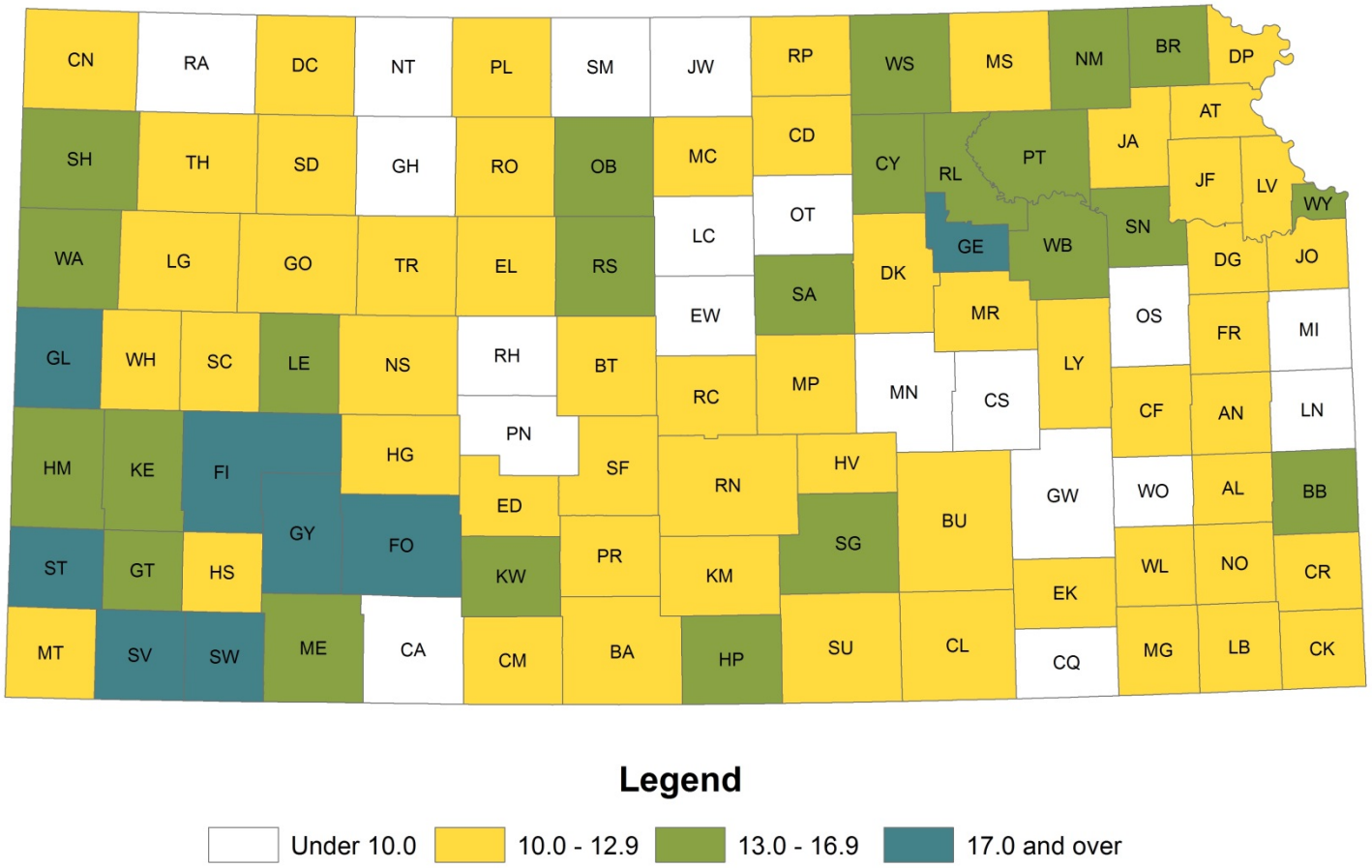
Table 12
Age-Specific Fertility Rates*
by Age-Group of Mother
Kansas, 1994-2013

Age-Group	Year																				Percent Change
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	1994-2013
Total	66.5	65.9	64.8	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	4.5
15-24	85.3	83.8	80.1	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	-27.1
25-34	99.8	100.8	101.3	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	16.0
35-44	18.5	18.5	18.9	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	41.1

*Rate per 1,000 female age-group population

Birth Rates
By County of Residence

Kansas, 2013



Legend

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

Figure 13

Table 13
Live Births by Age-Group of Mother by Sex of Infant
Kansas, 2013

Age-Group of Mother	Total		Sex	
	Number	Percent	Male	Female
Total	38,805	100	19,807	18,998
Under 15	30	0.1	15	15
15-17	721	1.9	369	352
18-19	2,146	5.5	1,095	1,051
20-24	9,576	24.7	4,916	4,660
25-29	12,220	31.5	6,286	5,934
30-34	9,641	24.8	4,898	4,743
35-39	3,686	9.5	1,834	1,852
40-44	743	1.9	374	369
45 & Over	41	0.1	20	21
n.s.	1	n/a	0	1

Table 14
Live Births by Age-Group of Father by Age-Group of Mother
Kansas, 2013

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..	38,805	751	30	2,867	9,576	12,220	9,641	3,686	743	41	1
Under 18....	223	148	6	206	10	0	0	1	0	0	0
10-14	2	2	1	1	0	0	0	0	0	0	0
15-19	1,055	342	6	821	209	15	3	1	0	0	0
20-24	5,967	150	1	1,120	3,993	718	109	20	6	0	0
25-29	9,975	13	0	187	2,807	5,753	1,071	138	16	3	0
30-34	10,223	5	0	42	752	3,658	5,034	681	54	2	0
35-39	5,003	0	0	9	187	810	2,218	1,627	152	0	0
40-44	1,879	0	0	3	78	234	536	726	289	13	0
45 & Over	788	0	0	5	30	102	203	261	166	21	0
n.s.	3,913	239	22	679	1,520	930	467	232	60	2	1

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Table 15
Live Births by County of Residence
by Age-Group of Mother
Kansas, 2013

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	38,805	30	2,867	9,576	12,220	9,641	3,686	743	41	1
Allen	143	0	9	44	55	28	7	0	0	0
Anderson	94	0	7	25	33	22	7	0	0	0
Atchison	191	0	24	56	62	34	14	1	0	0
Barber	60	0	4	23	16	9	7	1	0	0
Barton	350	0	29	103	118	74	21	5	0	0
Bourbon	218	1	21	69	69	38	15	4	1	0
Brown	139	0	12	49	43	23	9	3	0	0
Butler	751	2	47	200	244	185	61	11	1	0
Chase	26	0	1	6	9	8	2	0	0	0
Chautauqua	34	0	6	11	10	5	1	1	0	0
Cherokee	219	0	28	82	58	42	9	0	0	0
Cheyenne	27	1	3	6	5	11	0	1	0	0
Clark	20	0	2	6	8	2	2	0	0	0
Clay	113	0	6	33	33	29	12	0	0	0
Cloud	103	0	11	27	39	17	7	2	0	0
Coffey	94	0	4	35	26	16	11	2	0	0
Comanche	21	0	2	4	7	6	2	0	0	0
Cowley	456	0	53	162	137	66	33	5	0	0
Crawford.	489	0	45	155	156	96	29	8	0	0
Decatur	33	0	6	9	9	7	1	1	0	0
Dickinson	218	0	10	61	79	48	18	2	0	0
Doniphan	81	0	8	29	22	15	7	0	0	0
Douglas	1,219	0	52	219	410	368	144	26	0	0
Edwards	32	0	1	10	9	7	4	1	0	0
Elk	27	0	3	6	10	7	1	0	0	0
Ellis	360	0	23	94	129	84	23	7	0	0
Ellsworth	52	1	2	12	17	14	5	1	0	0
Finney	656	0	77	193	199	132	49	5	1	0
Ford	681	1	67	211	198	137	55	11	0	1
Franklin	332	0	30	115	100	55	28	4	0	0
Geary	1,029	1	63	406	310	174	59	16	0	0
Gove	30	0	0	5	10	6	6	3	0	0
Graham	24	0	3	3	6	9	2	1	0	0
Grant	123	0	17	35	39	24	8	0	0	0
Gray	103	0	7	26	33	25	10	2	0	0
Greeley	25	0	0	5	8	9	2	1	0	0
Greenwood	62	0	7	23	20	6	5	1	0	0
Hamilton	37	0	5	11	11	7	2	1	0	0
Harper	83	0	7	23	35	15	3	0	0	0
Harvey	445	0	44	114	143	103	32	9	0	0
Haskell	52	0	8	16	18	7	3	0	0	0
Hodgeman	21	0	1	4	7	4	4	1	0	0
Jackson	156	0	13	43	53	35	8	3	1	0
Jefferson	195	0	6	47	80	37	18	6	1	0
Jewell	27	0	4	8	8	6	1	0	0	0
Johnson	7,320	4	193	837	2,242	2,700	1,118	207	19	0
Kearny	63	0	4	19	24	11	4	1	0	0
Kingman	90	0	9	31	29	16	3	2	0	0
Kiowa	39	0	1	10	12	13	3	0	0	0
Labette	270	0	23	83	83	56	17	8	0	0
Lane	23	0	1	6	9	1	6	0	0	0
Leavenworth	955	0	67	239	254	264	111	19	1	0
Lincoln	25	0	1	7	8	9	0	0	0	0
Linn	91	0	10	26	25	18	8	4	0	0
Logan	33	0	2	11	7	7	5	1	0	0

Table 15
Live Births by County of Residence
by Age-Group of Mother
Kansas, 2013

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	419	1	40	113	136	85	38	6	0	0
McPherson	320	0	18	67	120	77	32	5	1	0
Marion	109	0	5	26	44	22	6	5	1	0
Marshall	125	0	8	26	45	36	7	3	0	0
Meade	69	0	7	17	23	14	5	3	0	0
Miami	297	0	24	68	93	69	40	3	0	0
Mitchell	72	0	6	15	24	22	4	1	0	0
Montgomery	427	1	50	139	122	87	25	3	0	0
Morris	59	0	4	9	21	18	5	2	0	0
Morton	37	0	3	11	12	9	2	0	0	0
Nemaha	154	0	10	35	54	39	11	5	0	0
Neosho	204	0	17	70	67	34	12	4	0	0
Ness	33	0	1	7	13	8	3	1	0	0
Norton	51	0	7	18	17	6	3	0	0	0
Osage	150	0	10	49	45	28	14	4	0	0
Osborne	50	0	6	8	21	12	3	0	0	0
Ottawa	58	0	3	14	21	16	4	0	0	0
Pawnee	63	1	3	16	27	14	2	0	0	0
Phillips	65	0	2	21	25	9	7	1	0	0
Pottawatomie	353	0	9	80	107	107	39	10	1	0
Pratt	122	0	9	38	34	30	7	4	0	0
Rawlins	22	0	3	6	6	3	3	1	0	0
Reno	743	0	73	217	248	135	55	15	0	0
Republic	49	0	4	17	16	11	0	1	0	0
Rice	128	0	14	26	52	27	6	3	0	0
Riley	999	0	44	306	377	204	60	8	0	0
Rooks	60	1	1	19	23	13	2	1	0	0
Rush	30	0	1	8	12	5	3	1	0	0
Russell	94	0	5	26	29	22	10	1	1	0
Saline	772	0	66	221	259	162	55	8	1	0
Scott	61	0	5	20	21	12	3	0	0	0
Sedgwick	7,487	7	660	1,966	2,312	1,738	659	139	6	0
Seward	441	1	55	125	136	80	33	11	0	0
Shawnee	2,352	0	219	593	756	546	199	37	2	0
Sheridan	31	0	2	11	11	6	1	0	0	0
Sherman	80	0	8	27	22	17	3	3	0	0
Smith	28	0	2	10	9	4	3	0	0	0
Stafford	49	0	4	11	23	8	1	2	0	0
Stanton	38	0	2	10	13	9	4	0	0	0
Stevens	99	1	11	30	31	19	5	2	0	0
Sumner	272	0	23	95	83	48	21	2	0	0
Thomas	98	0	10	20	38	22	4	4	0	0
Trego	33	0	2	9	11	9	2	0	0	0
Wabaunsee	98	0	9	27	23	26	11	2	0	0
Wallace	23	0	1	5	7	8	2	0	0	0
Washington	79	0	1	9	30	28	10	1	0	0
Wichita	25	0	1	6	9	6	1	2	0	0
Wilson.	109	0	8	35	42	19	5	0	0	0
Woodson	29	0	0	7	11	10	0	1	0	0
Wyandotte	2,678	6	302	774	754	555	234	50	3	0
n.s.	1	0	0	0	1	0	0	0	0	0
Peer Group										
Frontier	1,297	2	101	358	428	281	98	29	0	0
Rural	2,859	3	224	773	975	634	196	52	2	0
Densely -Settled Rural	6,353	4	563	1,876	2,036	1,285	483	99	6	1
Semi-Urban	6,284	4	486	1,941	2,052	1,270	444	85	2	0
Urban	22,011	17	1,493	4,628	6,728	6,171	2,465	478	31	0

Table 16
Live Births by County of Residence and Peer Group*
By Weeks Gestation
Kansas, 2013

ERRATA on Page 207

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	38,805	14	52	196	335	1,581	1,270	8,926	15,140	11,143	132	16	8.9
Allen	143	0	0	0	1	4	0	27	80	31	0	0	3.5
Anderson	94	0	0	0	0	1	3	19	42	26	3	0	4.3
Atchison	191	0	0	0	0	6	9	43	77	55	1	0	7.9
Barber	60	0	0	1	1	1	1	12	18	25	1	0	6.7
Barton	350	0	0	0	5	16	16	89	130	94	0	0	10.6
Bourbon	218	0	0	0	4	7	6	88	78	34	1	0	7.8
Brown	139	0	0	1	1	2	2	20	66	44	1	2	4.4
Butler	751	1	0	5	4	36	25	172	325	180	3	0	9.5
Chase	26	0	0	0	0	0	0	9	10	7	0	0	0.0
Chautauqua	34	0	0	0	1	0	5	6	14	7	1	0	17.6
Cherokee	219	0	0	1	1	7	8	47	102	53	0	0	7.8
Cheyenne	27	0	0	0	1	4	2	7	7	6	0	0	25.9
Clark	20	0	0	0	0	1	2	5	3	9	0	0	15.0
Clay	113	0	0	1	0	1	1	27	52	30	1	0	2.7
Cloud	103	0	0	1	0	1	3	25	41	31	1	0	4.9
Coffey	94	0	0	1	1	3	2	20	44	22	1	0	7.4
Comanche	21	0	0	0	0	1	0	2	9	9	0	0	4.8
Cowley	456	0	1	4	3	21	30	156	145	94	2	0	12.9
Crawford	489	0	0	3	2	27	28	154	186	88	1	0	12.3
Decatur	33	0	0	1	0	1	0	5	9	17	0	0	6.1
Dickinson	218	0	0	1	0	7	12	47	83	68	0	0	9.2
Doniphan	81	0	0	0	0	2	3	20	35	21	0	0	6.2
Douglas	1,219	0	1	6	9	40	35	269	496	357	6	0	7.5
Edwards	32	0	0	0	0	4	0	4	13	11	0	0	12.5
Elk	27	0	0	0	0	1	0	10	11	5	0	0	3.7
Ellis	360	0	2	0	3	12	8	84	121	126	4	0	6.9
Ellsworth	52	0	0	0	0	4	0	8	25	15	0	0	7.7
Finney	656	0	0	1	5	19	18	204	261	146	2	0	6.6
Ford	681	0	1	3	6	27	18	155	266	204	1	0	8.1
Franklin	332	0	0	1	2	13	9	58	142	105	2	0	7.5
Geary	1,029	0	2	6	11	52	32	256	363	305	2	0	10.0
Gove	30	0	0	1	0	2	0	8	12	7	0	0	10.0
Graham	24	0	0	1	0	2	0	6	5	10	0	0	12.5
Grant	123	0	0	0	2	6	3	39	49	23	1	0	8.9
Gray	103	0	1	1	0	3	3	28	43	24	0	0	7.8
Greeley	25	0	0	0	0	1	0	4	19	1	0	0	4.0
Greenwood	62	0	0	0	1	2	2	16	29	11	1	0	8.1
Hamilton	37	0	0	0	1	1	2	17	10	6	0	0	10.8
Harper	83	2	0	0	1	2	8	17	29	24	0	0	15.7
Harvey	445	0	0	4	3	17	22	132	172	93	1	1	10.4
Haskell	52	0	0	0	2	2	0	15	20	12	1	0	7.7
Hodgeman	21	0	0	0	0	2	1	4	5	8	1	0	14.3
Jackson	156	0	0	0	2	7	3	28	74	40	2	0	7.7
Jefferson	195	0	0	1	0	8	7	44	92	42	1	0	8.2
Jewell	27	0	0	0	1	1	0	4	12	9	0	0	7.4
Johnson	7,320	1	11	25	66	291	206	1,504	2,765	2,424	23	4	8.2
Kearny	63	0	0	2	0	1	1	19	26	14	0	0	6.3
Kingman	90	0	0	0	0	6	2	19	33	30	0	0	8.9
Kiowa	39	0	0	0	0	0	2	3	19	15	0	0	5.1
Labette	270	0	1	1	2	13	20	80	103	50	0	0	13.7
Lane	23	0	0	0	0	3	0	5	8	7	0	0	13.0
Leavenworth	955	1	1	2	3	40	27	206	400	273	2	0	7.7
Lincoln	25	0	0	0	1	0	2	3	10	9	0	0	12.0
Linn	91	0	0	0	0	2	1	17	45	26	0	0	3.3
Logan	33	0	0	0	0	0	2	8	14	9	0	0	6.1

Table 16
Live Births by County of Residence and Peer Group*
By Weeks Gestation
Kansas, 2013

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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	419	0	0	4	7	11	21	96	161	115	4	0	10.3
McPherson	109	0	0	0	0	5	2	43	30	29	0	0	6.4
Marion	125	0	0	1	0	7	4	24	56	32	1	0	9.6
Marshall	320	0	0	4	3	14	14	92	117	75	1	0	10.9
Meade	69	0	0	0	2	1	1	12	27	25	1	0	5.8
Miami	297	0	0	2	0	14	6	61	132	82	0	0	7.4
Mitchell	72	0	0	0	1	3	2	19	27	20	0	0	8.3
Montgomery	427	0	0	1	2	22	22	116	195	69	0	0	11.0
Morris	59	0	0	0	0	1	2	12	23	20	1	0	5.1
Morton	37	0	0	0	0	1	2	8	17	9	0	0	8.1
Nemaha	154	2	0	0	1	9	4	21	58	58	1	0	10.4
Neosho	204	0	0	1	1	10	7	50	74	59	2	0	9.3
Ness	33	0	0	1	0	1	1	6	13	11	0	0	9.1
Norton	51	0	0	2	1	1	0	10	13	22	2	0	7.8
Osage	150	0	0	4	0	4	8	32	65	36	1	0	10.7
Osborne	50	0	0	0	0	4	4	13	14	14	1	0	16.0
Ottawa	58	0	0	1	0	1	1	10	28	16	1	0	5.2
Pawnee	63	0	0	0	2	0	1	20	20	20	0	0	4.8
Phillips	65	0	0	0	0	3	1	15	24	22	0	0	6.2
Pottawatomie	353	0	1	2	6	10	11	85	141	96	1	0	8.5
Pratt	122	0	0	1	0	2	2	29	43	44	1	0	4.1
Rawlins	22	0	0	0	0	3	0	5	7	7	0	0	13.6
Reno	743	0	2	12	6	36	25	184	314	158	4	2	10.9
Republic	49	0	2	1	0	4	1	15	17	9	0	0	16.3
Rice	128	0	0	1	2	2	6	36	49	32	0	0	8.6
Riley	999	1	2	2	12	38	45	207	392	299	1	0	10.0
Rooks	60	0	0	0	0	1	0	14	22	23	0	0	1.7
Rush	30	0	0	1	1	3	0	3	9	13	0	0	16.7
Russell	94	0	0	1	1	3	2	32	35	20	0	0	7.4
Saline	772	0	0	7	4	34	31	168	298	224	6	0	9.8
Scott	61	0	0	0	0	3	1	14	26	17	0	0	6.6
Sedgwick	7,487	5	19	44	71	347	229	1,697	2,836	2,220	18	1	9.6
Seward	441	0	1	1	5	15	7	96	173	137	4	2	6.6
Shawnee	2,352	0	3	11	24	84	91	593	1,056	482	7	1	9.1
Sheridan	31	0	0	0	1	0	2	13	11	4	0	0	9.7
Sherman	80	0	0	0	0	6	1	19	28	26	0	0	8.8
Smith	28	0	0	0	0	0	1	9	8	9	1	0	3.6
Stafford	49	0	0	0	0	0	0	10	21	18	0	0	0.0
Stanton	38	0	0	0	0	4	0	10	16	8	0	0	10.5
Stevens	99	0	0	0	1	2	2	25	42	27	0	0	5.1
Sumner	272	0	0	1	4	6	12	59	113	77	0	0	8.5
Thomas	98	0	0	0	1	6	8	22	29	31	0	1	15.5
Trego	33	0	0	0	2	0	0	7	7	17	0	0	6.1
Wabaunsee	98	0	0	0	1	8	2	21	44	20	1	1	11.3
Wallace	23	0	0	0	0	2	3	7	8	3	0	0	21.7
Washington	79	0	0	1	1	5	3	15	31	23	0	0	12.7
Wichita	25	0	0	0	0	1	1	9	10	4	0	0	8.0
Wilson	109	0	0	2	2	1	0	20	55	29	0	0	4.6
Woodson	29	0	0	0	0	1	2	3	15	8	0	0	10.3
Wyandotte	2,678	1	1	12	24	109	87	565	941	932	5	1	8.7
n.s.	1	0	0	0	0	0	0	0	1	0	0	0	n/a
Peer Group													
Frontier	1,297	0	0	8	13	55	38	302	481	393	7	0	8.8
Rural	3,070	4	3	20	24	109	86	709	1,241	852	18	4	8.0
Densely - Settled Rural	6,142	0	7	25	55	217	226	1,573	2,404	1,607	26	2	8.6
Semi-Urban	6,284	2	6	43	46	289	245	1,508	2,519	1,603	20	3	10.0
Urban	22,011	8	36	100	197	911	675	4,834	8,494	6,688	61	7	8.8

Table 17
Live Births by County of Residence
by Month Prenatal Care Began
Kansas, 2013

County of Residence	Total	Month Care Began										
		1st	2nd	3rd	4th	5th	6th	7th	8th	9th	None	n.s.
Kansas	38,805	1,078	13,602	15,938	3,786	1,715	966	604	372	172	313	259
Allen	143	2	36	63	21	13	4	2	1	0	0	1
Anderson	94	3	32	40	8	4	3	2	1	0	1	0
Atchison	191	6	60	83	20	8	6	4	3	0	1	0
Barber	60	3	5	31	12	4	2	1	1	1	0	0
Barton	350	14	116	120	46	19	14	10	3	2	4	2
Bourbon	218	7	86	65	20	13	12	4	3	3	4	1
Brown	139	6	28	62	19	7	5	4	5	0	2	1
Butler	751	13	255	358	61	27	13	8	4	3	3	6
Chase	26	1	9	10	3	2	0	1	0	0	0	0
Chautauqua	34	0	11	15	4	3	0	0	1	0	0	0
Cherokee	219	2	57	92	26	12	10	8	4	4	1	3
Cheyenne	27	1	6	11	1	1	2	0	0	0	0	5
Clark	20	0	10	4	3	1	0	2	0	0	0	0
Clay	113	0	25	72	9	3	2	1	0	1	0	0
Cloud	103	0	35	45	15	3	3	0	1	0	1	0
Coffey	94	4	31	44	11	1	2	0	0	0	1	0
Comanche	21	1	3	11	3	1	2	0	0	0	0	0
Cowley	456	11	173	138	54	29	16	14	10	4	5	2
Crawford	489	12	151	196	67	27	14	9	4	4	2	3
Decatur	33	1	11	20	0	0	1	0	0	0	0	0
Dickinson	218	1	67	97	24	11	6	6	2	4	0	0
Doniphan	81	2	32	26	7	2	4	4	2	0	1	1
Douglas	1,219	29	593	379	95	40	26	20	14	7	15	1
Edwards	32	1	8	14	5	2	0	1	0	0	1	0
Elk	27	0	12	10	0	3	2	0	0	0	0	0
Ellis	360	5	50	250	34	6	5	7	3	0	0	0
Ellsworth	52	0	31	16	3	0	2	0	0	0	0	0
Finney	656	13	112	236	139	66	38	22	15	8	7	0
Ford	681	30	236	218	82	32	27	21	14	11	7	3
Franklin	332	13	152	102	28	15	7	8	3	2	2	0
Geary	1,029	18	298	482	82	56	32	25	15	13	5	3
Gove	30	0	7	17	3	1	1	1	0	0	0	0
Graham	24	0	5	14	3	2	0	0	0	0	0	0
Grant	123	6	32	40	13	17	8	0	3	4	0	0
Gray	103	5	45	32	13	3	3	0	0	0	0	2
Greeley	25	3	8	4	3	0	0	5	1	1	0	0
Greenwood	62	3	18	23	5	4	2	2	3	1	0	1
Hamilton	37	2	11	7	9	2	1	1	1	1	2	0
Harper	83	4	29	37	6	1	1	1	0	1	1	2
Harvey	445	6	77	261	50	22	10	9	0	2	6	2
Haskell	52	2	9	17	9	4	3	3	2	1	2	0
Hodgeman	21	0	6	10	3	1	1	0	0	0	0	0
Jackson	156	1	33	73	23	11	4	5	3	1	1	1
Jefferson	195	7	66	78	20	8	9	4	1	1	1	0
Jewell	27	0	6	18	1	2	0	0	0	0	0	0
Johnson	7,320	345	3,736	2,317	508	179	63	42	26	7	22	75
Kearny	63	0	20	22	9	5	3	3	1	0	0	0
Kingman	90	2	27	42	6	5	4	3	0	1	0	0
Kiowa	39	0	8	23	6	1	0	0	1	0	0	0
Labette	270	10	124	73	24	12	5	15	2	0	3	2
Lane	23	1	5	7	3	1	2	1	1	0	0	2
Leavenworth	955	42	461	295	67	30	22	11	9	4	6	8
Lincoln	25	0	11	12	1	0	1	0	0	0	0	0
Linn	91	3	34	34	14	6	0	0	0	0	0	0
Logan	33	0	9	17	5	2	0	0	0	0	0	0

Table 17
Live Births by County of Residence
by Month Prenatal Care Began
Kansas, 2013

County of Residence	Total	Month Care Began										
		1st	2nd	3rd	4th	5th	6th	7th	8th	9th	None	n.s.
Lyon	419	15	146	148	56	27	10	4	6	1	3	3
McPherson	109	0	17	80	6	2	1	1	0	1	1	0
Marion	125	1	16	72	19	9	3	2	1	0	2	0
Marshall	320	6	123	144	27	12	1	1	3	3	0	0
Meade	69	1	25	21	9	5	6	1	0	0	1	0
Miami	297	20	137	104	22	4	1	3	0	3	3	0
Mitchell	72	0	24	38	4	3	1	2	0	0	0	0
Montgomery	427	18	154	144	43	25	19	12	4	3	2	3
Morris	59	1	13	34	7	1	1	1	0	0	1	0
Morton	37	0	13	19	3	1	0	0	1	0	0	0
Nemaha	154	3	39	79	20	9	2	1	0	0	1	0
Neosho	204	10	64	67	21	15	13	5	4	2	2	1
Ness	33	0	12	12	4	3	0	0	1	0	1	0
Norton	51	1	13	19	5	4	5	0	1	0	2	1
Osage	150	4	37	83	13	7	2	2	1	0	1	0
Osborne	50	0	17	22	8	0	1	0	1	1	0	0
Ottawa	58	2	24	22	6	1	0	2	1	0	0	0
Pawnee	63	5	10	31	4	6	3	3	0	1	0	0
Phillips	65	3	13	34	5	7	0	0	2	0	1	0
Pottawatomie	353	5	27	227	51	20	11	4	3	1	3	1
Pratt	122	2	19	60	20	13	2	2	1	2	1	0
Rawlins	22	0	4	14	3	0	0	1	0	0	0	0
Reno	743	39	306	228	89	38	23	10	3	1	4	2
Republic	49	0	16	24	4	2	0	1	0	0	0	2
Rice	128	4	50	45	9	12	5	0	2	0	0	1
Riley	999	8	166	626	80	33	26	17	22	11	7	3
Rooks	60	0	10	35	7	1	3	3	1	0	0	0
Rush	30	1	2	20	2	2	1	0	0	0	2	0
Russell	94	2	20	52	11	4	2	1	2	0	0	0
Saline	772	11	305	323	54	39	14	16	6	1	2	1
Scott	61	2	9	32	10	4	2	0	2	0	0	0
Sedgwick	7,487	98	2,459	3,343	727	338	201	92	65	30	70	64
Seward	441	6	131	136	61	36	29	22	10	3	6	1
Shawnee	2,352	45	383	1,396	243	103	64	45	35	5	24	9
Sheridan	31	0	11	14	2	2	1	1	0	0	0	0
Sherman	80	4	30	30	12	3	1	0	0	0	0	0
Smith	28	1	5	15	4	1	1	0	1	0	0	0
Stafford	49	1	9	27	5	3	1	3	0	0	0	0
Stanton	38	2	12	16	4	3	0	1	0	0	0	0
Stevens	99	2	32	33	18	7	4	1	0	1	1	0
Sumner	272	7	105	109	21	14	8	2	2	0	3	1
Thomas	98	2	26	54	8	2	0	3	1	0	2	0
Trego	33	0	11	18	2	1	0	1	0	0	0	0
Wabaunsee	98	2	10	64	10	6	2	1	2	0	0	1
Wallace	23	0	6	11	4	2	0	0	0	0	0	0
Washington	79	5	16	39	16	2	0	1	0	0	0	0
Wichita	25	1	6	8	2	4	1	2	0	0	0	1
Wilson	109	1	36	49	10	3	6	2	1	0	0	1
Woodson	29	0	9	11	4	2	1	1	0	0	1	0
Wyandotte	2,678	96	956	922	305	144	85	41	24	10	59	36
n.s.	1	0	0	1	0	0	0	0	0	0	0	0
Peer Group												
Frontier	1,297	28	362	582	153	69	36	31	15	5	7	9
Rural	3,070	79	876	1,417	343	163	76	39	31	15	20	11
Densely -Settled Rural	6,142	158	1,775	2,462	769	363	234	166	92	46	54	23
Semi-Urban	6,284	158	2,001	2,824	576	286	159	117	61	43	36	23
Urban	22,011	655	8,588	8,652	1,945	834	461	251	173	63	196	193

Table 18
Live Births by County of Residence
by Adequacy of Prenatal Care Utilization (APNCU) Index*
Kansas, 2013

County of Residence	Live Births	APNCU Category†								n.s.
		Adequate Plus		Adequate		Intermediate		Inadequate		
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	
Kansas	38,805	11,747	30.5	19,778	51.4	2,580	6.7	4,383	11.4	317
Allen	143	39	27.5	74	52.1	9	6.3	20	14.1	1
Anderson	94	35	37.2	44	46.8	4	4.3	11	11.7	0
Atchison	191	43	22.8	100	52.9	22	11.6	24	12.7	2
Barber	60	14	23.3	36	60.0	0	0.0	10	16.7	0
Barton	350	132	37.8	146	41.8	16	4.6	55	15.8	1
Bourbon	218	110	50.9	58	26.9	7	3.2	41	19.0	2
Brown	139	26	19.0	67	48.9	21	15.3	23	16.8	2
Butler	751	196	26.3	467	62.8	20	2.7	61	8.2	7
Chase	26	10	40.0	12	48.0	0	0.0	3	12.0	1
Chautauqua	34	11	32.4	17	50.0	2	5.9	4	11.8	0
Cherokee	219	62	28.6	89	41.0	21	9.7	45	20.7	2
Cheyenne	27	3	13.6	11	50.0	3	13.6	5	22.7	5
Clark	20	9	45.0	7	35.0	1	5.0	3	15.0	0
Clay	113	43	38.1	61	54.0	2	1.8	7	6.2	0
Cloud	103	27	26.2	55	53.4	13	12.6	8	7.8	0
Coffey	94	26	28.0	56	60.2	7	7.5	4	4.3	1
Comanche	21	6	28.6	12	57.1	0	0.0	3	14.3	0
Cowley	456	186	41.3	172	38.2	8	1.8	84	18.7	6
Crawford	489	125	25.8	198	40.9	86	17.8	75	15.5	5
Decatur	33	8	24.2	21	63.6	3	9.1	1	3.0	0
Dickinson	218	86	39.4	90	41.3	13	6.0	29	13.3	0
Doniphan	81	27	33.8	33	41.3	6	7.5	14	17.5	1
Douglas	1,219	501	41.1	544	44.6	50	4.1	124	10.2	0
Edwards	32	8	25.0	19	59.4	1	3.1	4	12.5	0
Elk	27	5	18.5	16	59.3	1	3.7	5	18.5	0
Ellis	360	85	23.6	219	60.8	33	9.2	23	6.4	0
Ellsworth	52	10	19.2	33	63.5	7	13.5	2	3.8	0
Finney	656	193	29.5	231	35.3	65	9.9	166	25.3	1
Ford	681	196	29.0	263	38.8	94	13.9	124	18.3	4
Franklin	332	91	27.4	187	56.3	15	4.5	39	11.7	0
Geary	1,029	266	26.0	517	50.4	88	8.6	154	15.0	4
Gove	30	8	26.7	14	46.7	5	16.7	3	10.0	0
Graham	24	6	25.0	12	50.0	4	16.7	2	8.3	0
Grant	123	26	21.5	47	38.8	14	11.6	34	28.1	2
Gray	103	35	34.7	51	50.5	8	7.9	7	6.9	2
Greeley	25	5	20.0	8	32.0	5	20.0	7	28.0	0
Greenwood	62	16	27.1	27	45.8	3	5.1	13	22.0	3
Hamilton	37	9	24.3	17	45.9	2	5.4	9	24.3	0
Harper	83	13	16.3	58	72.5	4	5.0	5	6.3	3
Harvey	445	219	49.4	168	37.9	5	1.1	51	11.5	2
Haskell	52	10	19.2	24	46.2	3	5.8	15	28.8	0
Hodgeman	21	3	14.3	12	57.1	4	19.0	2	9.5	0
Jackson	156	49	31.6	68	43.9	12	7.7	26	16.8	1
Jefferson	195	86	44.1	81	41.5	4	2.1	24	12.3	0
Jewell	27	4	14.8	18	66.7	3	11.1	2	7.4	0
Johnson	7,320	2,439	33.7	3,909	54.0	535	7.4	351	4.9	86
Kearny	63	23	36.5	24	38.1	4	6.3	12	19.0	0
Kingman	90	14	15.6	59	65.6	3	3.3	14	15.6	0
Kiowa	39	7	17.9	28	71.8	2	5.1	2	5.1	0
Labette	270	112	41.8	90	33.6	22	8.2	44	16.4	2
Lane	23	6	28.6	9	42.9	1	4.8	5	23.8	2
Leavenworth	955	251	26.5	534	56.4	76	8.0	86	9.1	8
Lincoln	25	5	20.0	18	72.0	1	4.0	1	4.0	0
Linn	91	36	39.6	47	51.6	2	2.2	6	6.6	0
Logan	33	10	30.3	17	51.5	4	12.1	2	6.1	0

Table 18
Live Births by County of Residence
by Adequacy of Prenatal Care Utilization (APNCU) Index*
Kansas, 2013

County of Residence	Live Births	APNCU Category†								n.s.
		Adequate Plus		Adequate		Intermediate		Inadequate		
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	
Lyon	419	198	48.1	135	32.8	25	6.1	54	13.1	7
McPherson	320	150	47.0	137	42.9	12	3.8	20	6.3	1
Marion	109	54	49.5	44	40.4	3	2.8	8	7.3	0
Marshall	125	34	27.4	58	46.8	15	12.1	17	13.7	1
Meade	69	15	21.7	34	49.3	7	10.1	13	18.8	0
Miami	297	82	27.7	184	62.2	15	5.1	15	5.1	1
Mitchell	72	18	25.0	40	55.6	7	9.7	7	9.7	0
Montgomery	427	181	42.7	150	35.4	23	5.4	70	16.5	3
Morris	59	18	30.5	32	54.2	3	5.1	6	10.2	0
Morton	37	11	30.6	22	61.1	2	5.6	1	2.8	1
Nemaha	154	38	24.7	96	62.3	6	3.9	14	9.1	0
Neosho	204	65	32.2	84	41.6	10	5.0	43	21.3	2
Ness	33	9	27.3	19	57.6	0	0.0	5	15.2	0
Norton	51	5	10.0	20	40.0	13	26.0	12	24.0	1
Osage	150	61	41.5	59	40.1	12	8.2	15	10.2	3
Osborne	50	14	28.0	30	60.0	3	6.0	3	6.0	0
Ottawa	58	12	20.7	35	60.3	7	12.1	4	6.9	0
Pawnee	63	22	34.9	19	30.2	9	14.3	13	20.6	0
Phillips	65	13	20.0	26	40.0	14	21.5	12	18.5	0
Pottawatomie	353	107	30.4	187	53.1	16	4.5	42	11.9	1
Pratt	122	27	22.1	71	58.2	3	2.5	21	17.2	0
Rawlins	22	7	31.8	11	50.0	3	13.6	1	4.5	0
Reno	743	293	39.6	323	43.6	42	5.7	82	11.1	3
Republic	49	17	36.2	22	46.8	5	10.6	3	6.4	2
Rice	128	42	33.1	59	46.5	5	3.9	21	16.5	1
Riley	999	269	27.0	548	55.0	61	6.1	118	11.8	3
Rooks	60	14	23.3	29	48.3	8	13.3	9	15.0	0
Rush	30	6	20.0	14	46.7	3	10.0	7	23.3	0
Russell	94	16	17.0	63	67.0	5	5.3	10	10.6	0
Saline	772	200	26.0	426	55.3	62	8.1	82	10.6	2
Scott	61	31	50.8	17	27.9	5	8.2	8	13.1	0
Sedgwick	7,487	1,611	21.7	4,776	64.4	196	2.6	833	11.2	71
Seward	441	122	27.7	172	39.1	35	8.0	111	25.2	1
Shawnee	2,352	1,053	45.1	908	38.9	84	3.6	292	12.5	15
Sheridan	31	4	12.9	17	54.8	6	19.4	4	12.9	0
Sherman	80	24	30.0	41	51.3	11	13.8	4	5.0	0
Smith	28	10	35.7	13	46.4	2	7.1	3	10.7	0
Stafford	49	11	22.4	31	63.3	0	0.0	7	14.3	0
Stanton	38	13	34.2	15	39.5	6	15.8	4	10.5	0
Stevens	99	22	22.2	54	54.5	8	8.1	15	15.2	0
Sumner	272	57	21.1	165	61.1	16	5.9	32	11.9	2
Thomas	98	33	33.7	50	51.0	7	7.1	8	8.2	0
Trego	33	9	27.3	21	63.6	1	3.0	2	6.1	0
Wabaunsee	98	36	37.1	44	45.4	5	5.2	12	12.4	1
Wallace	23	6	26.1	11	47.8	2	8.7	4	17.4	0
Washington	79	31	39.2	36	45.6	9	11.4	3	3.8	0
Wichita	25	6	25.0	7	29.2	4	16.7	7	29.2	1
Wilson	109	34	31.5	54	50.0	8	7.4	12	11.1	1
Woodson	29	9	31.0	14	48.3	1	3.4	5	17.2	0
Wyandotte	2,678	655	24.8	1,160	43.9	431	16.3	395	15.0	37
n.s.	1	1	n/a	0	n/a	0	n/a	0	n/a	0
Peer Group										
Frontier	1,297	335	26.1	670	52.2	107	8.3	172	13.4	13
Rural	2,859	813	28.6	1,456	51.2	226	8.0	347	12.2	17
Densely -Settled R	6,353	2,166	34.3	2,653	42.0	458	7.3	1,036	16.4	40
Semi-Urban	6,284	1,922	30.7	3,168	50.7	417	6.7	747	11.9	30
Urban	22,011	6,510	29.9	11,831	54.3	1,372	6.3	2,081	9.5	217

*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 19
Live Births by County of Residence
by Birth Weight in Grams
Kansas, 2013

County of Residence	Total	Under 500	500 - 999	1000 - 1499	1500 - 1999	2000 - 2499	2500 - 2999	3000 - 3499	3500 - 3999	4000 - 4499	4500 - 4999	5000 & Over	n.s.
	Birth Weight in Grams												
Kansas	38,805	65	182	247	539	1,695	6,612	14,813	11,288	2,896	410	52	6
Allen	143	0	0	2	0	3	23	63	43	9	0	0	0
Anderson	94	0	0	0	0	5	13	40	32	3	0	1	0
Atchison	191	0	0	0	3	10	37	59	61	16	4	1	0
Barber	60	0	1	1	0	0	15	26	10	6	1	0	0
Barton	350	0	0	3	5	13	77	122	105	22	3	0	0
Bourbon	218	0	0	2	5	4	43	98	51	12	2	1	0
Brown	139	0	1	1	0	4	23	50	43	14	1	2	0
Butler	751	1	3	6	8	36	120	275	225	66	11	0	0
Chase	26	0	0	0	0	0	3	12	9	2	0	0	0
Chautauqua	34	0	0	0	1	3	5	13	8	2	2	0	0
Cherokee	219	0	2	0	3	7	33	92	64	17	1	0	0
Cheyenne	27	0	0	1	3	0	4	12	4	3	0	0	0
Clark	20	0	0	1	1	2	5	5	5	1	0	0	0
Clay	113	0	0	1	0	4	13	40	44	9	2	0	0
Cloud	103	0	1	0	0	3	17	45	28	8	1	0	0
Coffey	94	0	1	1	1	5	12	41	22	8	3	0	0
Comanche	21	0	0	0	0	0	4	7	8	2	0	0	0
Cowley	456	1	2	3	4	23	88	196	112	21	6	0	0
Crawford	489	0	2	4	5	23	87	188	141	33	5	1	0
Decatur	33	0	1	0	1	1	2	11	17	0	0	0	0
Dickinson	218	0	1	0	2	8	33	91	63	19	1	0	0
Doniphan	81	0	0	0	0	0	14	39	22	5	1	0	0
Douglas	1,219	2	4	10	13	43	215	448	383	84	13	3	1
Edwards	32	0	0	0	2	1	7	10	9	3	0	0	0
Elk	27	0	0	0	0	2	3	13	6	3	0	0	0
Ellis	360	1	1	0	4	10	57	129	116	33	8	1	0
Ellsworth	52	0	0	0	0	5	8	23	12	3	0	1	0
Finney	656	1	1	7	9	30	118	272	174	38	5	1	0
Ford	681	1	3	3	8	35	127	299	160	40	5	0	0
Franklin	332	0	1	2	5	7	43	135	103	32	4	0	0
Geary	1,029	2	4	12	14	52	149	395	295	96	9	1	0
Gove	30	0	1	0	1	0	5	12	7	2	2	0	0
Graham	24	0	0	1	1	1	1	5	10	4	1	0	0
Grant	123	0	0	2	2	5	16	57	32	8	1	0	0
Gray	103	1	1	0	1	2	21	40	30	5	2	0	0
Greeley	25	0	0	0	0	0	4	9	9	3	0	0	0
Greenwood	62	0	0	0	3	1	16	23	15	4	0	0	0
Hamilton	37	0	0	1	0	2	7	16	9	2	0	0	0
Harper	83	2	0	1	2	4	21	27	23	3	0	0	0
Harvey	445	0	4	3	7	18	76	181	119	31	6	0	0
Haskell	52	0	0	0	1	1	8	18	18	5	0	1	0
Hodgeman	21	0	0	0	1	1	4	8	6	1	0	0	0
Jackson	156	0	0	1	2	4	23	60	46	17	3	0	0
Jefferson	195	0	1	0	2	9	24	73	66	18	2	0	0
Jewell	27	0	0	0	0	1	4	11	6	5	0	0	0
Johnson	7,320	14	26	32	119	317	1,144	2,685	2,296	597	77	10	3
Kearny	63	0	1	1	0	2	5	23	26	5	0	0	0
Kingman	90	0	0	0	1	4	14	28	35	5	3	0	0
Kiowa	39	0	0	0	0	2	6	11	15	5	0	0	0
Labette	270	1	1	1	4	17	50	107	65	21	3	0	0
Lane	23	0	0	0	0	2	4	4	10	3	0	0	0
Leavenworth	955	2	2	2	12	46	156	345	296	76	18	0	0
Lincoln	25	0	0	0	1	2	3	12	6	1	0	0	0
Linn	91	0	0	0	1	1	13	39	28	9	0	0	0
Logan	33	0	0	0	0	0	5	11	14	2	0	1	0

Table 19
Live Births by County of Residence
by Birth Weight in Grams
Kansas, 2013

County of Residence	Total	Under 500	500 - 999	1000 - 1499	1500 - 1999	2000 - 2499	2500 - 2999	3000 - 3499	3500 - 3999	4000 - 4499	4500 - 4999	5000 & Over	n.s.
	Birth Weight in Grams												
Lyon	419	0	4	1	10	14	77	144	135	31	2	1	0
McPherson	320	0	4	5	2	14	57	123	83	28	4	0	0
Marion	109	0	0	1	1	5	9	38	39	13	3	0	0
Marshall	125	0	1	0	5	6	14	48	33	16	2	0	0
Meade	69	0	0	2	0	3	2	28	25	8	1	0	0
Miami	297	0	1	1	4	13	41	101	107	27	2	0	0
Mitchell	72	0	0	1	1	2	11	25	23	7	1	1	0
Montgomery	427	0	0	2	5	20	102	160	108	28	2	0	0
Morris	59	0	0	0	0	1	5	21	23	7	1	1	0
Morton	37	0	0	0	1	2	7	13	7	7	0	0	0
Nemaha	154	2	0	1	1	4	26	53	45	18	3	1	0
Neosho	204	0	1	1	4	9	27	92	55	13	2	0	0
Ness	33	0	1	0	0	2	3	12	9	6	0	0	0
Norton	51	0	3	0	0	2	8	22	14	2	0	0	0
Osage	150	0	2	2	0	4	21	62	49	10	0	0	0
Osborne	50	0	0	0	1	5	7	21	13	3	0	0	0
Ottawa	58	0	1	0	1	1	8	27	14	4	2	0	0
Pawnee	63	0	0	1	1	2	9	21	23	6	0	0	0
Phillips	65	0	0	1	0	7	12	24	18	2	1	0	0
Pottawatomie	353	1	2	2	5	14	61	134	112	19	3	0	0
Pratt	122	0	1	0	1	3	21	52	35	8	1	0	0
Rawlins	22	0	0	0	2	2	0	8	7	3	0	0	0
Reno	743	0	9	7	15	26	130	266	219	59	9	2	1
Republic	49	2	1	0	0	6	13	14	10	3	0	0	0
Rice	128	0	1	0	1	4	31	43	40	8	0	0	0
Riley	999	3	3	12	6	43	165	366	302	83	16	0	0
Rooks	60	0	0	0	4	2	8	20	22	4	0	0	0
Rush	30	0	1	0	2	1	5	9	7	4	1	0	0
Russell	94	0	1	1	1	3	19	40	18	11	0	0	0
Saline	772	1	3	8	7	44	145	311	194	54	5	0	0
Scott	61	0	0	0	1	4	10	31	14	1	0	0	0
Sedgwick	7,487	20	47	44	106	353	1,356	2,852	2,099	527	74	9	0
Seward	441	1	3	6	3	22	71	171	131	28	4	1	0
Shawnee	2,352	3	11	15	32	94	408	921	664	174	24	6	0
Sheridan	31	0	0	1	0	4	5	14	5	2	0	0	0
Sherman	80	0	0	0	2	5	7	33	26	7	0	0	0
Smith	28	0	0	0	0	0	7	11	7	3	0	0	0
Stafford	49	0	0	0	0	0	9	24	11	5	0	0	0
Stanton	38	0	0	0	1	2	6	13	13	2	1	0	0
Stevens	99	0	1	0	1	1	14	48	22	11	1	0	0
Sumner	272	0	1	3	3	13	44	98	81	24	4	1	0
Thomas	98	0	0	0	1	6	15	44	25	4	2	1	0
Trego	33	0	0	2	0	0	2	15	11	2	1	0	0
Wabaunsee	98	0	1	0	3	2	15	34	32	10	1	0	0
Wallace	23	0	0	0	0	3	5	6	6	2	1	0	0
Washington	79	0	1	2	0	5	15	21	28	6	1	0	0
Wichita	25	0	0	1	0	2	5	12	3	1	1	0	0
Wilson	109	0	1	1	1	3	13	38	41	9	0	1	1
Woodson	29	0	0	0	0	1	9	8	11	0	0	0	0
Wyandotte	2,678	3	10	18	46	130	523	1,067	707	144	28	2	0
n.s.	1	0	0	0	0	0	1	0	0	0	0	0	0
Peer Group													
Frontier	1,297	0	6	12	28	56	190	493	381	118	12	1	0
Rural	2,859	7	17	15	29	111	456	1,100	855	226	32	10	1
Densely -Settled Rural	6,353	7	29	42	78	263	1,105	2,524	1,794	441	63	7	0
Semi-Urban	6,284	7	30	57	76	282	1,058	2,378	1,813	509	69	4	1
Urban	22,011	44	100	121	328	983	3,802	8,318	6,445	1,602	234	30	4

Table 20
Live Births by County of Residence
by Initiation of Breastfeeding*
Kansas , 2013

County of Residence	Live Births	Initiated Breastfeeding		Did Not Initiate Breastfeeding		n.s.†
		Number	Percent	Number	Percent	
Kansas	38,805	32,489	84.2	6,083	15.8	233
Allen	143	100	70.4	42	29.6	1
Anderson	94	73	77.7	21	22.3	0
Atchison	191	111	58.7	78	41.3	2
Barber	60	51	85.0	9	15.0	0
Barton	350	288	82.8	60	17.2	2
Bourbon	218	192	88.5	25	11.5	1
Brown	139	109	79.0	29	21.0	1
Butler	751	653	87.4	94	12.6	4
Chase	26	23	88.5	3	11.5	0
Chautauqua	34	30	88.2	4	11.8	0
Cherokee	219	143	65.3	76	34.7	0
Cheyenne	27	26	96.3	1	3.7	0
Clark	20	12	60.0	8	40.0	0
Clay	113	99	87.6	14	12.4	0
Cloud	103	84	81.6	19	18.4	0
Coffey	94	75	80.6	18	19.4	1
Comanche	21	19	90.5	2	9.5	0
Cowley	456	350	77.6	101	22.4	5
Crawford	489	343	70.4	144	29.6	2
Decatur	33	28	84.8	5	15.2	0
Dickinson	218	175	80.6	42	19.4	1
Doniphan	81	48	60.8	31	39.2	2
Douglas	1,219	1,061	87.5	152	12.5	6
Edwards	32	31	96.9	1	3.1	0
Elk	27	21	77.8	6	22.2	0
Ellis	360	310	86.8	47	13.2	3
Ellsworth	52	42	80.8	10	19.2	0
Finney	656	534	81.7	120	18.3	2
Ford	681	473	70.4	199	29.6	9
Franklin	332	258	77.7	74	22.3	0
Geary	1,029	877	85.7	146	14.3	6
Gove	30	29	96.7	1	3.3	0
Graham	24	21	87.5	3	12.5	0
Grant	123	96	78.0	27	22.0	0
Gray	103	83	81.4	19	18.6	1
Greeley	25	21	84.0	4	16.0	0
Greenwood	62	42	67.7	20	32.3	0
Hamilton	37	35	94.6	2	5.4	0
Harper	83	73	91.3	7	8.8	3
Harvey	445	398	90.0	44	10.0	3
Haskell	52	45	86.5	7	13.5	0
Hodgeman	21	15	71.4	6	28.6	0
Jackson	156	135	86.5	21	13.5	0
Jefferson	195	154	79.0	41	21.0	0
Jewell	27	24	88.9	3	11.1	0
Johnson	7,320	6,684	92.0	581	8.0	55
Kearny	63	54	85.7	9	14.3	0
Kingman	90	75	83.3	15	16.7	0
Kiowa	39	38	97.4	1	2.6	0
Labette	270	198	73.3	72	26.7	0
Lane	23	16	80.0	4	20.0	3
Leavenworth	955	803	84.4	148	15.6	4
Lincoln	25	17	68.0	8	32.0	0
Linn	91	82	90.1	9	9.9	0
Logan	33	26	78.8	7	21.2	0

Table 20
Live Births by County of Residence
by Initiation of Breastfeeding*
Kansas , 2013

County of Residence	Live Births	Initiated Breastfeeding		Did Not Initiate Breastfeeding		n.s.†
		Number	Percent	Number	Percent	
Lyon	419	349	84.3	65	15.7	5
McPherson	320	271	84.7	49	15.3	0
Marion	109	98	89.9	11	10.1	0
Marshall	125	99	79.2	26	20.8	0
Meade	69	55	79.7	14	20.3	0
Miami	297	251	85.1	44	14.9	2
Mitchell	72	61	84.7	11	15.3	0
Montgomery	427	301	70.5	126	29.5	0
Morris	59	46	78.0	13	22.0	0
Morton	37	25	71.4	10	28.6	2
Nemaha	154	129	85.4	22	14.6	3
Neosho	204	155	76.0	49	24.0	0
Ness	33	25	75.8	8	24.2	0
Norton	51	46	92.0	4	8.0	1
Osage	150	111	75.0	37	25.0	2
Osborne	50	44	88.0	6	12.0	0
Ottawa	58	51	87.9	7	12.1	0
Pawnee	63	52	82.5	11	17.5	0
Phillips	65	59	90.8	6	9.2	0
Pottawatomie	353	307	87.2	45	12.8	1
Pratt	122	107	87.7	15	12.3	0
Rawlins	22	18	81.8	4	18.2	0
Reno	743	578	78.4	159	21.6	6
Republic	49	37	77.1	11	22.9	1
Rice	128	107	84.3	20	15.7	1
Riley	999	865	87.2	127	12.8	7
Rooks	60	50	83.3	10	16.7	0
Rush	30	21	70.0	9	30.0	0
Russell	94	72	76.6	22	23.4	0
Saline	772	623	81.2	144	18.8	5
Scott	61	54	88.5	7	11.5	0
Sedgwick	7,487	6,402	86.1	1,034	13.9	51
Seward	441	355	81.2	82	18.8	4
Shawnee	2,352	1,864	79.5	480	20.5	8
Sheridan	31	26	83.9	5	16.1	0
Sherman	80	62	77.5	18	22.5	0
Smith	28	25	89.3	3	10.7	0
Stafford	49	44	89.8	5	10.2	0
Stanton	38	28	73.7	10	26.3	0
Stevens	99	79	80.6	19	19.4	1
Sumner	272	217	80.1	54	19.9	1
Thomas	98	86	87.8	12	12.2	0
Trego	33	31	93.9	2	6.1	0
Wabaunsee	98	82	83.7	16	16.3	0
Wallace	23	18	78.3	5	21.7	0
Washington	79	65	82.3	14	17.7	0
Wichita	25	23	92.0	2	8.0	0
Wilson	109	82	75.9	26	24.1	1
Woodson	29	23	82.1	5	17.9	1
Wyandotte	2,678	2,106	79.0	559	21.0	13
n.s.	1	1	n/a	0	n/a	0
Peer Group						
Frontier	1,297	1,074	83.1	218	16.9	5
Rural	2,859	2,371	83.4	473	16.6	15
Densely -Settled Rural	6,353	4,976	78.8	1,336	21.2	41
Semi-Urban	6,284	5,147	82.4	1,102	17.6	35
Urban	22,011	18,920	86.5	2,954	13.5	137

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

Table 21
Live Births by County of Residence
by Mother's Reported Cigarette Use
Kansas, 2013

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	38,805	5,722	4,753	4,255	4,072	4,825	12.5	75
Allen	143	45	37	33	31	38	26.6	0
Anderson	94	17	15	15	15	15	16.0	0
Atchison	191	57	51	48	45	51	26.8	1
Barber	60	16	11	12	11	13	21.7	0
Barton	350	79	66	61	58	68	19.5	1
Bourbon	218	55	55	55	54	55	25.5	2
Brown	139	49	42	38	36	43	31.2	1
Butler	751	130	115	101	99	118	15.7	1
Chase	26	6	4	4	4	4	15.4	0
Chautauqua	34	13	13	11	11	13	38.2	0
Cherokee	219	66	53	52	49	54	25.0	3
Cheyenne	27	2	0	0	0	0	0.0	0
Clark	20	5	3	3	3	3	15.0	0
Clay	113	30	21	21	20	22	19.5	0
Cloud	103	26	23	23	22	23	22.5	1
Coffey	94	19	19	16	15	19	20.2	0
Comanche	21	2	2	2	2	2	9.5	0
Cowley	456	110	96	83	79	97	21.3	1
Crawford	489	96	85	76	75	86	17.7	2
Decatur	33	10	8	8	7	8	24.2	0
Dickinson	218	64	50	42	41	52	23.9	0
Doniphan	81	19	14	11	10	14	17.3	0
Douglas	1,219	172	132	117	110	136	11.2	1
Edwards	32	4	3	3	3	3	9.4	0
Elk	27	6	4	5	5	5	18.5	0
Ellis	360	55	41	34	32	41	11.4	0
Ellsworth	52	10	9	7	8	9	17.3	0
Finney	656	66	38	29	30	40	6.1	2
Ford	681	37	26	25	25	26	3.8	2
Franklin	332	86	68	63	59	71	21.5	1
Geary	1,029	198	126	106	95	130	12.7	3
Gove	30	3	3	3	3	3	10.0	0
Graham	24	5	5	5	4	5	20.8	0
Grant	123	11	5	4	4	5	4.1	0
Gray	103	3	3	2	1	3	2.9	0
Greeley	25	4	3	3	3	3	12.0	0
Greenwood	62	27	21	21	21	22	35.5	0
Hamilton	37	2	2	2	2	2	5.4	0
Harper	83	13	11	10	10	11	13.4	1
Harvey	445	72	63	55	54	64	14.4	0
Haskell	52	5	5	3	3	5	9.6	0
Hodgeman	21	2	2	2	2	2	9.5	0
Jackson	156	42	33	29	28	33	21.2	0
Jefferson	195	49	40	36	35	40	20.5	0
Jewell	27	5	5	2	2	5	18.5	0
Johnson	7,320	365	273	219	197	277	3.8	11
Kearny	63	5	4	4	4	4	6.5	1
Kingman	90	14	14	14	13	14	15.6	0
Kiowa	39	1	1	1	1	1	2.6	0
Labette	270	69	57	55	53	58	21.5	0
Lane	23	1	1	1	1	1	4.3	0
Leavenworth	955	171	133	111	105	135	14.2	1
Lincoln	25	7	7	7	6	7	28.0	0
Linn	91	28	23	20	18	23	25.3	0
Logan	33	5	5	4	4	5	15.2	0

Table 21
Live Births by County of Residence
by Mother's Reported Cigarette Use
Kansas, 2013

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	419	82	64	52	53	65	15.6	1
McPherson	320	63	48	37	34	49	15.3	0
Marion	109	14	11	9	9	11	10.1	0
Marshall	125	19	15	14	13	15	12.0	0
Meade	69	9	8	6	5	8	11.9	2
Miami	297	44	37	32	28	37	12.5	0
Mitchell	72	11	9	9	9	9	12.5	0
Montgomery	427	112	107	96	91	107	25.1	1
Morris	59	20	16	15	16	17	29.8	2
Morton	37	6	5	5	5	5	13.5	0
Nemaha	154	23	19	15	14	19	12.3	0
Neosho	204	41	31	27	28	33	16.3	1
Ness	33	5	4	3	4	5	15.2	0
Norton	51	19	11	9	9	12	23.5	0
Osage	150	42	37	33	33	37	24.7	0
Osborne	50	7	5	5	5	5	10.0	0
Ottawa	58	13	10	9	8	10	17.2	0
Pawnee	63	11	11	9	9	11	17.5	0
Phillips	65	19	16	13	11	17	26.2	0
Pottawatomie	353	54	44	37	34	44	12.5	0
Pratt	122	24	21	21	19	21	17.2	0
Rawlins	22	2	2	2	2	2	9.1	0
Reno	743	161	128	120	116	132	17.8	2
Republic	49	15	15	14	12	15	30.6	0
Rice	128	25	19	18	18	19	15.0	1
Riley	999	138	91	69	62	95	9.5	0
Rooks	60	15	14	13	13	14	23.3	0
Rush	30	8	7	6	5	7	23.3	0
Russell	94	33	26	24	25	28	29.8	0
Saline	772	186	146	133	120	149	19.3	1
Scott	61	9	8	5	5	8	13.1	0
Sedgwick	7,487	1,001	952	907	891	954	12.8	9
Seward	441	30	22	17	16	22	5.0	2
Shawnee	2,352	522	418	382	368	424	18.1	12
Sheridan	31	1	1	1	1	1	3.2	0
Sherman	80	10	7	6	7	8	10.0	0
Smith	28	7	5	4	4	5	17.9	0
Stafford	49	7	6	6	6	6	12.2	0
Stanton	38	3	3	2	2	3	7.9	0
Stevens	99	12	10	8	8	10	10.2	1
Sumner	272	71	64	60	59	64	23.5	0
Thomas	98	12	11	8	6	11	11.2	0
Trego	33	9	8	6	6	8	24.2	0
Wabaunsee	98	11	8	6	6	9	9.3	1
Wallace	23	3	2	1	2	3	13.0	0
Washington	79	7	7	6	6	7	8.9	0
Wichita	25	4	4	4	4	4	16.0	0
Wilson	109	35	27	24	22	27	24.8	0
Woodson	29	8	8	7	7	8	27.6	0
Wyandotte	2,678	280	256	223	208	258	9.6	3
n.s.	1	0	0	0	0	0	n/a	0
Peer Group								
Frontier	1,297	227	188	173	170	195	15.1	3
Rural	2,859	565	468	416	397	476	16.7	8
Densely -Settled Rural	6,353	1,196	967	856	827	981	15.5	16
Semi-Urban	6,284	1,223	966	851	799	989	15.8	11
Urban	22,011	2,511	2,164	1,959	1,879	2,184	9.9	37

* See Technical Notes

Table 22
Live Births by County of Residence
by Birth Weight Category for Gestational Age*
Kansas, 2013

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	38,805	34,941	90.1	3,846	9.9	18
Allen	143	127	88.8	16	11.2	0
Anderson	94	82	87.2	12	12.8	0
Atchison	191	167	87.4	24	12.6	0
Barber	60	53	88.3	7	11.7	0
Barton	350	310	88.6	40	11.4	0
Bourbon	218	195	89.4	23	10.6	0
Brown	139	123	89.8	14	10.2	2
Butler	751	690	91.9	61	8.1	0
Chase	26	25	96.2	1	3.8	0
Chautauqua	34	30	88.2	4	11.8	0
Cherokee	219	202	92.2	17	7.8	0
Cheyenne	27	24	88.9	3	11.1	0
Clark	20	16	80.0	4	20.0	0
Clay	113	103	91.2	10	8.8	0
Cloud	103	95	92.2	8	7.8	0
Coffey	94	87	92.6	7	7.4	0
Comanche	21	20	95.2	1	4.8	0
Cowley	456	426	93.4	30	6.6	0
Crawford	489	448	91.6	41	8.4	0
Decatur	33	31	93.9	2	6.1	0
Dickinson	218	200	91.7	18	8.3	0
Doniphan	81	73	90.1	8	9.9	0
Douglas	1,219	1,091	89.6	127	10.4	1
Edwards	32	25	78.1	7	21.9	0
Elk	27	25	92.6	2	7.4	0
Ellis	360	332	92.2	28	7.8	0
Ellsworth	52	46	88.5	6	11.5	0
Finney	656	585	89.2	71	10.8	0
Ford	681	594	87.2	87	12.8	0
Franklin	332	309	93.1	23	6.9	0
Geary	1,029	943	91.6	86	8.4	0
Gove	30	27	90.0	3	10.0	0
Graham	24	22	91.7	2	8.3	0
Grant	123	116	94.3	7	5.7	0
Gray	103	96	93.2	7	6.8	0
Greeley	25	24	96.0	1	4.0	0
Greenwood	62	52	83.9	10	16.1	0
Hamilton	37	36	97.3	1	2.7	0
Harper	83	71	85.5	12	14.5	0
Harvey	445	413	93.0	31	7.0	1
Haskell	52	48	92.3	4	7.7	0
Hodgeman	21	17	81.0	4	19.0	0
Jackson	156	144	92.3	12	7.7	0
Jefferson	195	184	94.4	11	5.6	0
Jewell	27	22	81.5	5	18.5	0
Johnson	7,320	6,640	90.8	676	9.2	4
Kearny	63	60	95.2	3	4.8	0
Kingman	90	82	91.1	8	8.9	0
Kiowa	39	35	89.7	4	10.3	0
Labette	270	244	90.4	26	9.6	0
Lane	23	21	91.3	2	8.7	0
Leavenworth	955	867	90.8	88	9.2	0
Lincoln	25	22	88.0	3	12.0	0
Linn	91	90	98.9	1	1.1	0
Logan	33	32	97.0	1	3.0	0

Table 22
Live Births by County of Residence
by Birth Weight Category for Gestational Age*
Kansas, 2013

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	419	381	90.9	38	9.1	0
McPherson	320	291	90.9	29	9.1	0
Marion	109	103	94.5	6	5.5	0
Marshall	125	111	88.8	14	11.2	0
Meade	69	66	95.7	3	4.3	0
Miami	297	271	91.2	26	8.8	0
Mitchell	72	67	93.1	5	6.9	0
Montgomery	427	374	87.6	53	12.4	0
Morris	59	57	96.6	2	3.4	0
Morton	37	33	89.2	4	10.8	0
Nemaha	154	141	91.6	13	8.4	0
Neosho	204	189	92.6	15	7.4	0
Ness	33	32	97.0	1	3.0	0
Norton	51	40	78.4	11	21.6	0
Osage	150	138	92.0	12	8.0	0
Osborne	50	44	88.0	6	12.0	0
Ottawa	58	51	87.9	7	12.1	0
Pawnee	63	54	85.7	9	14.3	0
Phillips	65	53	81.5	12	18.5	0
Pottawatomie	353	318	90.1	35	9.9	0
Pratt	122	111	91.0	11	9.0	0
Rawlins	22	20	90.9	2	9.1	0
Reno	743	674	91.0	67	9.0	2
Republic	49	39	79.6	10	20.4	0
Rice	128	113	88.3	15	11.7	0
Riley	999	906	90.7	93	9.3	0
Rooks	60	51	85.0	9	15.0	0
Rush	30	24	80.0	6	20.0	0
Russell	94	83	88.3	11	11.7	0
Saline	772	682	88.3	90	11.7	0
Scott	61	55	90.2	6	9.8	0
Sedgwick	7,487	6,716	89.7	770	10.3	1
Seward	441	383	87.2	56	12.8	2
Shawnee	2,352	2,119	90.1	232	9.9	1
Sheridan	31	26	83.9	5	16.1	0
Sherman	80	74	92.5	6	7.5	0
Smith	28	25	89.3	3	10.7	0
Stafford	49	42	85.7	7	14.3	0
Stanton	38	35	92.1	3	7.9	0
Stevens	99	89	89.9	10	10.1	0
Sumner	272	247	90.8	25	9.2	0
Thomas	98	93	95.9	4	4.1	1
Trego	33	31	93.9	2	6.1	0
Wabaunsee	98	93	95.9	4	4.1	1
Wallace	23	21	91.3	2	8.7	0
Washington	79	70	88.6	9	11.4	0
Wichita	25	19	76.0	6	24.0	0
Wilson	109	99	91.7	9	8.3	1
Woodson	29	24	82.8	5	17.2	0
Wyandotte	2,678	2,321	86.7	356	13.3	1
n.s.	1	0	n/a	1	n/a	0
Peer Group						
Frontier	1,297	1,162	89.6	135	10.4	0
Rural	2,859	2,585	90.6	269	9.4	5
Densely -Settled Rural	6,353	5,730	90.2	621	9.8	2
Semi-Urban	6,284	5,710	90.9	571	9.1	3
Urban	22,011	19,754	89.8	2,249	10.2	8

* See technical notes

Table 23
Mother's Weight Gain in Pregnancy for Singleton Births, by County of Residence and Peer Group*, by Prepregnancy BMI Category†
Kansas, 2013

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	37,477	7,591	20.4	11,943	32.1	17,643	47.5	300
Allen	143	32	22.4	39	27.3	72	50.3	0
Anderson	94	18	19.8	34	37.4	39	42.9	3
Atchison	186	32	17.4	56	30.4	96	52.2	2
Barber	60	15	25.0	23	38.3	22	36.7	0
Barton	342	87	25.5	100	29.3	154	45.2	1
Bourbon	211	53	25.4	61	29.2	95	45.5	2
Brown	139	26	19.4	40	29.9	68	50.7	5
Butler	715	141	19.7	198	27.7	375	52.5	1
Chase	26	6	25.0	7	29.2	11	45.8	2
Chautauqua	32	4	12.5	12	37.5	16	50.0	0
Cherokee	213	44	20.9	67	31.8	100	47.4	2
Cheyenne	24	4	17.4	9	39.1	10	43.5	1
Clark	18	8	44.4	3	16.7	7	38.9	0
Clay	113	23	20.4	31	27.4	59	52.2	0
Cloud	101	22	21.8	33	32.7	46	45.5	0
Coffey	90	23	25.8	27	30.3	39	43.8	1
Comanche	21	4	19.0	8	38.1	9	42.9	0
Cowley	444	93	21.2	142	32.4	203	46.3	6
Crawford	469	92	19.7	152	32.5	223	47.8	2
Decatur	32	5	15.6	12	37.5	15	46.9	0
Dickinson	214	43	20.1	73	34.1	98	45.8	0
Doniphan	81	12	14.8	22	27.2	47	58.0	0
Douglas	1,193	242	20.5	406	34.4	533	45.1	12
Edwards	28	4	14.3	8	28.6	16	57.1	0
Elk	27	6	22.2	6	22.2	15	55.6	0
Ellis	350	72	20.7	122	35.1	154	44.3	2
Ellsworth	50	5	10.0	20	40.0	25	50.0	0
Finney	638	142	22.4	205	32.3	288	45.4	3
Ford	664	158	24.0	218	33.1	283	42.9	5
Franklin	322	62	19.3	113	35.2	146	45.5	1
Geary	993	183	18.6	302	30.7	498	50.7	10
Gove	29	5	17.2	14	48.3	10	34.5	0
Graham	24	7	29.2	7	29.2	10	41.7	0
Grant.	119	28	24.1	37	31.9	51	44.0	3
Gray	99	25	25.3	27	27.3	47	47.5	0
Greeley	25	9	36.0	6	24.0	10	40.0	0
Greenwood	60	17	28.8	12	20.3	30	50.8	1
Hamilton	33	9	27.3	8	24.2	16	48.5	0
Harper	81	21	26.6	30	38.0	28	35.4	2
Harvey	433	83	19.4	136	31.8	209	48.8	5
Haskell	52	8	15.4	11	21.2	33	63.5	0
Hodgeman	19	3	15.8	7	36.8	9	47.4	0
Jackson	154	33	21.7	40	26.3	79	52.0	2
Jefferson	187	40	22.0	51	28.0	91	50.0	5
Jewell	27	4	14.8	12	44.4	11	40.7	0
Johnson	6,953	1,211	17.5	2,473	35.7	3,236	46.8	33
Kearny	61	13	21.3	20	32.8	28	45.9	0
Kingman	88	20	22.7	22	25.0	46	52.3	0
Kiowa	39	7	18.4	6	15.8	25	65.8	1
Labette	266	81	31.3	74	28.6	104	40.2	7
Lane	21	3	14.3	5	23.8	13	61.9	0
Leavenworth	911	160	17.7	279	30.8	467	51.5	5
Lincoln	23	2	8.7	9	39.1	12	52.2	0
Linn	89	17	19.1	24	27.0	48	53.9	0
Logan	33	8	24.2	14	42.4	11	33.3	0

Table 23
Mother's Weight Gain in Pregnancy for Singleton Births, by County of Residence and Peer Group*, by Prepregnancy BMI Category†
Kansas, 2013

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	399	68	17.5	97	25.0	223	57.5	11
McPherson	155	72	46.8	27	17.5	55	35.7	1
Marion	117	25	21.4	37	31.6	55	47.0	0
Marshall	258	27	10.5	97	37.6	134	51.9	0
Meade	67	8	11.9	23	34.3	36	53.7	0
Miami	289	47	16.4	99	34.5	141	49.1	2
Mitchell	72	15	21.4	22	31.4	33	47.1	2
Montgomery	417	104	25.1	123	29.6	188	45.3	2
Morris	59	9	15.5	25	43.1	24	41.4	1
Morton	37	11	32.4	9	26.5	14	41.2	3
Nemaha	147	32	21.8	58	39.5	57	38.8	0
Neosho	202	63	31.3	55	27.4	83	41.3	1
Ness	33	7	21.9	11	34.4	14	43.8	1
Norton	47	8	17.0	18	38.3	21	44.7	0
Osage	148	23	15.9	43	29.7	79	54.5	3
Osborne	46	9	20.0	17	37.8	19	42.2	1
Ottawa	58	11	19.0	27	46.6	20	34.5	0
Pawnee	61	12	19.7	14	23.0	35	57.4	0
Phillips	65	19	30.2	22	34.9	22	34.9	2
Pottawatomie	342	79	23.7	114	34.1	141	42.2	8
Pratt	120	24	20.0	36	30.0	60	50.0	0
Rawlins	20	7	35.0	6	30.0	7	35.0	0
Reno	707	143	20.4	202	28.8	357	50.9	5
Republic	43	9	21.4	14	33.3	19	45.2	1
Rice	120	34	28.3	33	27.5	53	44.2	0
Riley	977	203	20.8	289	29.6	483	49.5	2
Rooks	57	10	17.9	23	41.1	23	41.1	1
Rush	30	5	16.7	9	30.0	16	53.3	0
Russell	92	20	21.7	31	33.7	41	44.6	0
Saline	750	128	17.1	271	36.2	350	46.7	1
Scott	59	18	31.0	14	24.1	26	44.8	1
Sedgwick	7,270	1,442	20.0	2,342	32.4	3,442	47.6	44
Seward	425	105	25.1	111	26.5	203	48.4	6
Shawnee	2,261	512	23.2	638	28.9	1,058	47.9	53
Sheridan	31	8	25.8	12	38.7	11	35.5	0
Sherman	80	18	22.8	16	20.3	45	57.0	1
Smith	28	8	28.6	11	39.3	9	32.1	0
Stafford	49	9	18.4	15	30.6	25	51.0	0
Stanton	36	6	17.1	13	37.1	16	45.7	1
Stevens	99	15	15.3	28	28.6	55	56.1	1
Sumner	270	60	22.6	72	27.1	134	50.4	4
Thomas	98	22	22.4	36	36.7	40	40.8	0
Trego	31	11	35.5	10	32.3	10	32.3	0
Wabaunsee	91	17	18.9	28	31.1	45	50.0	1
Wallace	21	7	35.0	7	35.0	6	30.0	1
Washington	75	17	22.7	22	29.3	36	48.0	0
Wichita	23	9	39.1	6	26.1	8	34.8	0
Wilson	109	24	22.0	33	30.3	52	47.7	0
Woodson	27	6	22.2	6	22.2	15	55.6	0
Wyandotte	2,599	570	22.1	798	30.9	1,217	47.1	14
n.s.	1	0	n/a	0	n/a	1	n/a	0
Peer Group								
Frontier	1,251	276	22.3	396	32.0	565	45.7	14
Rural	2,932	600	20.6	937	32.2	1,372	47.2	23
Densely -Settled Rura	6,034	1,392	23.3	1,789	30.0	2,782	46.7	71
Semi-Urban	6,072	1,186	19.6	1,885	31.2	2,970	49.2	31
Urban	21,187	4,137	19.7	6,936	33.0	9,953	47.3	161

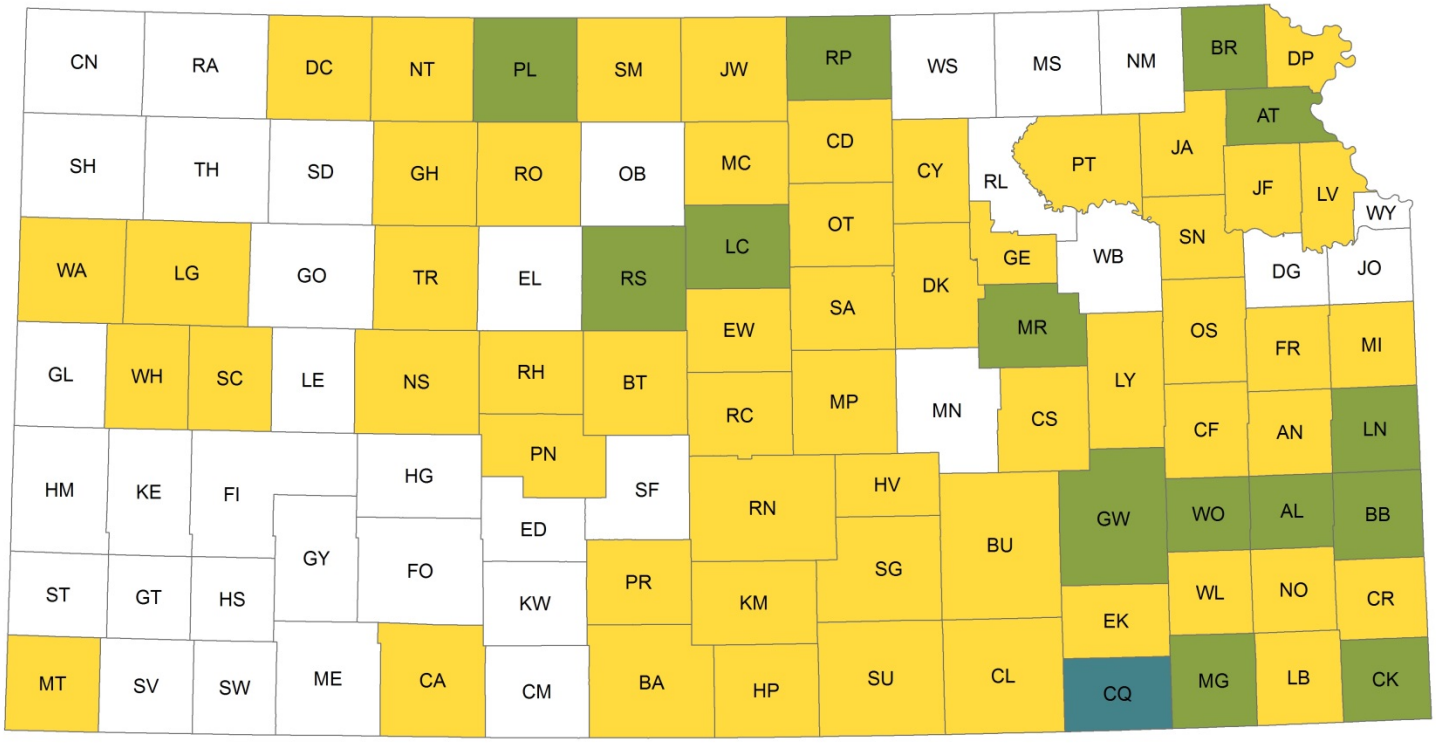
* See Technical Notes for Peer Group definition.
† See Technical Notes
‡ includes births where height, prepegnancy weight or weight at delivery are unknown

Table 24
Live Births by Age-Group of Mother by Birth Weight in Grams
Kansas, 2013

Age-Group of Mother	Total	Birth Weight in Grams											
		Under 500	500 - 999	1,000 - 1,499	1,500 - 1,999	2,000 - 2,499	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	38,805	65	182	247	539	1,695	6,612	14,813	11,288	2,896	410	52	6
10-14	30	0	0	0	0	4	5	13	6	2	0	0	0
15-19	2,867	6	22	10	46	155	621	1,217	633	144	10	2	1
20-24	9,576	17	42	78	139	457	1803	3,878	2,535	551	70	4	2
25-29	12,220	22	37	74	153	507	2,010	4,629	3,708	937	127	15	1
30-34	9,641	13	51	45	118	384	1,498	3,515	3,006	857	132	22	0
35-39	3,686	7	26	33	67	140	550	1,292	1,162	338	62	7	2
40-44	743	0	4	7	13	45	111	260	227	65	9	2	0
45 & Over	41	0	0	0	3	3	13	9	11	2	0	0	0
n.s.	1	0	0	0	0	0	1	0	0	0	0	0	0

Percent of Maternal Cigarette Use During Pregnancy By County of Residence

Kansas, 2013



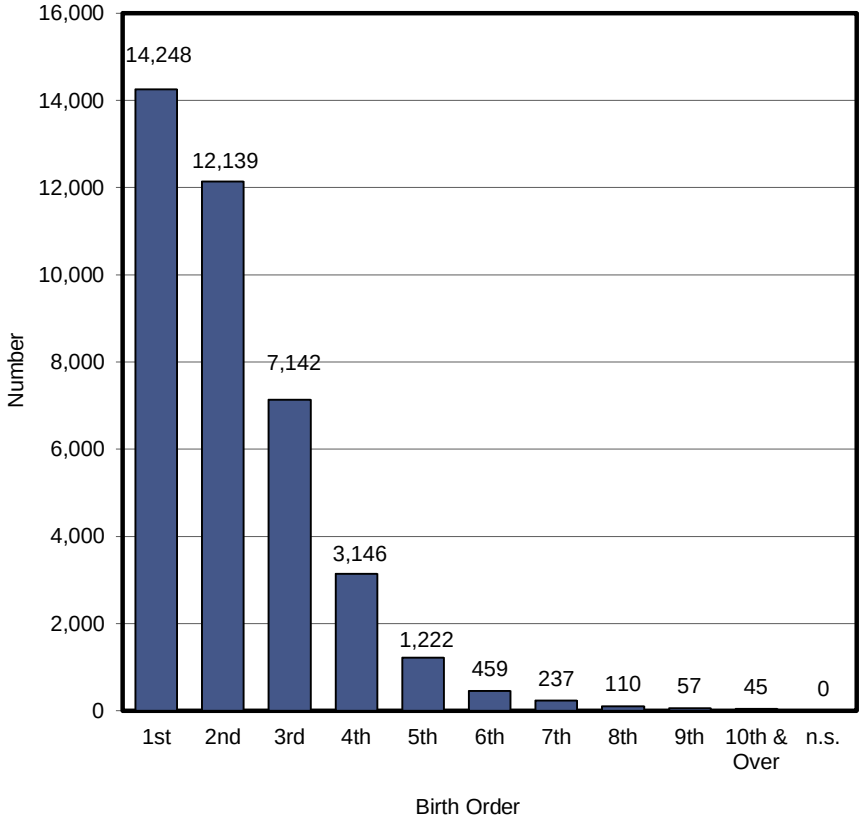
Legend

Under 12.5% | 12.5% - 24.9% | 25.0% - 37.4% | 37.5% and over

Figure 14

Live Births by Birth Order*

Kansas, 2013



* Sum of prior live births plus current birth.

Figure 15

Table 25

Live Births by Birth Order by Age-Group of Mother

Kansas, 2013

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	38,805	751	30	2,867	9,576	12,220	9,641	3,686	743	41	1
First	14,248	703	29	2,401	4,569	4,315	2,249	573	106	6	0
Second	12,139	46	1	408	3,255	4,059	3,223	1,016	167	10	0
Third	7,142	2	0	51	1,308	2,362	2,313	943	160	5	0
Fourth	3,146	0	0	5	339	983	1,122	575	117	5	0
Fifth	1,222	0	0	1	82	338	430	292	76	3	0
Sixth	459	0	0	1	19	109	155	137	35	3	0
Seventh	237	0	0	0	2	33	85	85	27	4	1
Eighth	110	0	0	0	2	13	35	40	20	0	0
Ninth	57	0	0	0	0	6	21	16	12	2	0
Tenth & Over	45	0	0	0	0	2	8	9	23	3	0
n.s.	0	0	0	0	0	0	0	0	0	0	0

Table 26
Live Births by Population Group of Mother
by Trimester Prenatal Care Began
Kansas, 2013

Population Group of Mother	Total	Trimester Care Began								
		1st		2nd		3rd		None		
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	n.s.
Kansas	38,805	30,618	79.4	6,467	16.8	1,148	3.0	313	0.8	259
White Non-Hispanic	27,821	23,002	83.2	3,874	14.0	613	2.2	153	0.6	179
Black Non-Hispanic	2,549	1,762	69.8	595	23.6	115	4.6	54	2.1	23
Native American Non-Hispanic	183	129	70.5	37	20.2	12	6.6	5	2.7	0
Asian/Pacific Islander Non-Hispanic	1,175	923	78.9	206	17.6	33	2.8	8	0.7	5
Other Non-Hispanic	921	660	72.2	202	22.1	45	4.9	7	0.8	7
Hispanic	6,139	4,130	67.7	1,552	25.5	330	5.4	84	1.4	43
n.s.	17	12	80.0	1	6.7	0	0.0	2	13.3	2

Table 27
Live Births by Population Group of Mother by Birth Weight in Grams
Kansas, 2013

Population Group of Mother	Total	Birth Weight in Grams											
		Under 500	500 - 999	1,000 - 1,499	1,500 - 1,999	2,000 - 2,499	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	38,805	65	182	247	539	1,695	6,612	14,813	11,288	2,896	410	52	6
White Non-Hispanic	27,821	35	119	173	376	1,167	4,405	10,398	8,522	2,275	310	39	2
Black Non-Hispanic	2,549	16	32	33	66	190	645	984	474	92	15	2	0
Native American Non-Hispanic	183	0	2	0	2	8	33	67	52	17	2	0	0
Asian/Pacific Islander Non-Hispanic	1,175	0	9	7	8	67	294	487	254	45	4	0	0
Other/Multi-Race Non-Hispanic	921	1	4	4	10	43	189	375	229	58	6	2	0
Hispanic	6,139	13	16	30	77	220	1,043	2,495	1,753	409	73	9	1
n.s.	17	0	0	0	0	0	3	7	4	0	0	0	3

Table 28
Live Births by Population Group of Mother by Final Route of Delivery
Kansas, 2013

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	38,805	25,804	373	887	69.8	3,699	8,001	35	30.2	31.6	6
White Non-Hispanic	27,821	18,272	290	659	69.1	2,678	5,891	27	30.9	31.3	4
Black Non-Hispanic	2,549	1,684	18	27	67.8	285	535	0	32.2	34.8	0
Native American Non-Hispanic	183	118	0	3	66.1	14	48	0	33.9	22.6	0
Asian/Pacific Islander Non-Hispanic	1,175	768	20	37	70.2	114	234	2	29.8	32.8	0
Other/Multi-Race Non-Hispanic	921	621	15	20	71.2	90	171	4	28.8	34.5	0
Hispanic	6,139	4,328	30	141	73.3	518	1,120	1	26.7	31.6	1
n.s.	17	13	0	0	81.3	0	2	1	18.8	0.0	1

Table 29
Live Births by County of Residence
by Population Group of Mother
Kansas, 2013

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	38,805	27,821	2,549	183	1,175	921	6,139	17
Allen	143	138	2	0	0	2	1	0
Anderson	94	91	0	0	1	0	2	0
Atchison	191	164	12	0	1	3	11	0
Barber	60	53	1	0	2	0	4	0
Barton	350	262	3	0	2	6	76	1
Bourbon	218	204	9	0	2	0	3	0
Brown	139	109	2	19	0	6	3	0
Butler	751	692	6	3	10	15	25	0
Chase	26	25	0	0	0	1	0	0
Chautauqua	34	31	0	0	0	1	2	0
Cherokee	219	183	1	4	4	19	8	0
Cheyenne	27	24	0	0	0	0	3	0
Clark	20	18	0	0	0	0	2	0
Clay	113	105	1	0	0	1	6	0
Cloud	103	96	1	0	1	2	3	0
Coffey	94	88	0	1	2	0	3	0
Comanche	21	17	0	0	0	0	4	0
Cowley	456	341	3	4	9	19	80	0
Crawford	489	432	15	1	4	10	27	0
Decatur	33	32	0	0	0	0	1	0
Dickinson	218	194	1	2	3	3	15	0
Doniphan	81	74	1	1	0	4	1	0
Douglas	1,219	957	51	25	60	43	83	0
Edwards	32	23	0	0	0	0	9	0
Elk	27	26	0	0	0	0	1	0
Ellis	360	316	1	2	5	6	30	0
Ellsworth	52	48	0	0	0	2	2	0
Finney	656	227	18	0	21	10	379	1
Ford	681	206	16	2	8	5	444	0
Franklin	332	307	2	0	5	4	14	0
Geary	1,029	628	154	2	28	49	168	0
Gove	30	29	0	0	0	0	1	0
Graham	24	21	1	0	0	1	1	0
Grant	123	45	0	0	0	0	77	1
Gray	103	79	0	0	1	0	23	0
Greeley	25	20	0	0	0	0	5	0
Greenwood	62	58	0	1	0	1	2	0
Hamilton	37	21	0	0	0	0	16	0
Harper	83	67	0	1	1	2	12	0
Harvey	445	350	5	2	5	3	80	0
Haskell	52	36	0	0	0	0	16	0
Hodgeman	21	19	0	0	0	0	2	0
Jackson	156	122	0	17	0	9	8	0
Jefferson	195	189	1	0	1	3	1	0
Jewell	27	26	0	0	0	0	1	0
Johnson	7,320	5,713	390	6	397	126	681	7
Kearny	63	38	0	0	0	0	25	0
Kingman	90	83	1	1	2	1	2	0
Kiowa	39	35	1	0	1	0	2	0
Labette	270	233	16	2	2	8	9	0
Lane	23	20	0	0	0	0	3	0
Leavenworth	955	785	68	2	21	22	56	1
Lincoln	25	23	0	0	1	1	0	0
Linn	91	89	0	1	0	0	1	0
Logan	33	30	0	0	1	0	2	0

Table 29
Live Births by County of Residence
by Population Group of Mother
Kansas, 2013

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	419	269	8	2	8	20	111	1
McPherson	320	290	4	1	3	5	17	0
Marion	109	108	0	1	0	0	0	0
Marshall	125	116	2	1	0	3	3	0
Meade	69	55	0	0	0	0	14	0
Miami	297	285	2	0	4	3	3	0
Mitchell	72	70	0	0	0	0	2	0
Montgomery	427	331	25	11	3	17	39	1
Morris	59	55	0	0	0	1	3	0
Morton	37	22	0	0	0	1	14	0
Nemaha	154	149	0	1	0	0	4	0
Neosho	204	191	1	0	0	1	11	0
Ness	33	25	0	0	0	0	8	0
Norton	51	49	0	1	0	0	1	0
Osage	150	143	0	0	1	4	2	0
Osborne	50	47	0	1	1	0	1	0
Ottawa	58	56	0	0	0	0	2	0
Pawnee	63	52	0	0	1	0	10	0
Phillips	65	62	0	0	0	1	2	0
Pottawatomie	353	320	2	1	4	5	21	0
Pratt	122	106	1	0	1	0	14	0
Rawlins	22	15	0	0	0	0	7	0
Reno	743	604	12	1	5	18	102	1
Republic	49	48	0	0	1	0	0	0
Rice	128	107	1	0	2	2	16	0
Riley	999	722	67	0	52	43	115	0
Rooks	60	53	0	1	1	2	3	0
Rush	30	29	0	0	0	0	1	0
Russell	94	87	0	0	0	3	4	0
Saline	772	587	27	1	21	19	116	1
Scott	61	44	0	0	0	0	17	0
Sedgwick	7,487	4,811	808	23	323	168	1,353	1
Seward	441	113	9	1	8	5	305	0
Shawnee	2,352	1,581	216	24	33	86	412	0
Sheridan	31	29	0	0	0	0	2	0
Sherman	80	70	1	0	0	0	9	0
Smith	28	27	0	0	0	0	1	0
Stafford	49	40	0	0	0	0	9	0
Stanton	38	19	0	1	0	0	17	1
Stevens	99	51	0	0	0	1	47	0
Sumner	272	253	3	0	0	2	14	0
Thomas	98	83	0	0	0	2	13	0
Trego	33	30	0	0	0	0	3	0
Wabaunsee	98	89	0	1	0	3	5	0
Wallace	23	19	0	0	1	0	3	0
Washington	79	71	0	0	1	1	6	0
Wichita	25	12	0	0	0	1	12	0
Wilson	109	103	0	1	3	2	0	0
Woodson	29	28	0	0	0	0	1	0
Wyandotte	2,678	1,052	577	10	97	114	828	0
n.s.	1	1	0	0	0	0	0	0
Peer Group								
Frontier	1,297	1,081	4	4	8	9	190	1
Rural	2,859	2,470	9	29	17	33	300	1
Densely -Settled Rural	6,353	4,432	111	39	82	139	1,547	3
Semi-Urban	6,284	4,938	315	21	137	181	689	3
Urban	22,011	14,899	2,110	90	931	559	3,413	9

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

Table 30
Out-of-Wedlock Births by County of Residence
by Age-Group and Population Group of Mother
Kansas, 2013

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	14,053	30	2,496	5,594	3,398	1,692	677	156	9	1	8,437	1,766	121	184	425	3,114	6
Allen	63	0	8	22	21	8	4	0	0	0	60	1	0	0	2	0	0
Anderson	34	0	6	14	7	4	3	0	0	0	33	0	0	0	0	1	0
Atchison	96	0	23	43	18	10	2	0	0	0	72	12	0	0	3	9	0
Barber	16	0	2	10	1	1	2	0	0	0	16	0	0	0	0	0	0
Barton	161	0	23	72	41	17	7	1	0	0	115	2	0	0	5	39	0
Bourbon	91	1	19	37	17	15	1	1	0	0	84	5	0	0	0	2	0
Brown	66	0	12	31	12	7	3	1	0	0	43	1	16	0	5	1	0
Butler	225	2	44	104	44	20	8	3	0	0	198	5	1	1	8	12	0
Chase	6	0	1	2	2	0	1	0	0	0	5	0	0	0	1	0	0
Chautauqua	14	0	5	6	2	0	1	0	0	0	13	0	0	0	0	1	0
Cherokee	105	0	27	46	15	13	4	0	0	0	91	1	1	2	7	3	0
Cheyenne	4	1	2	1	0	0	0	0	0	0	3	0	0	0	0	1	0
Clark	6	0	1	3	2	0	0	0	0	0	4	0	0	0	0	2	0
Clay	20	0	1	11	4	4	0	0	0	0	20	0	0	0	0	0	0
Cloud	36	0	9	11	10	3	2	1	0	0	33	1	0	0	1	1	0
Coffey	34	0	3	22	5	1	2	1	0	0	32	0	0	0	0	2	0
Comanche	7	0	2	2	2	0	1	0	0	0	5	0	0	0	0	2	0
Cowley	230	0	47	102	50	21	9	1	0	0	167	2	1	2	11	47	0
Crawford	240	0	40	108	54	29	7	2	0	0	205	12	1	3	2	17	0
Decatur	14	0	6	6	2	0	0	0	0	0	13	0	0	0	0	1	0
Dickinson	68	0	9	27	18	12	2	0	0	0	55	0	2	0	3	8	0
Doniphan	34	0	8	14	5	3	4	0	0	0	28	1	1	0	3	1	0
Douglas	396	0	44	144	134	49	20	5	0	0	277	34	18	6	18	43	0
Edwards	10	0	0	7	2	0	1	0	0	0	6	0	0	0	0	4	0
Elk	10	0	1	4	3	2	0	0	0	0	9	0	0	0	0	1	0
Ellis	112	0	21	52	21	11	5	2	0	0	84	1	1	3	1	22	0
Ellsworth	16	1	2	8	3	0	2	0	0	0	12	0	0	0	2	2	0
Finney	303	0	63	114	72	37	16	1	0	0	80	9	0	3	1	209	1
Ford	330	1	54	124	74	52	21	3	0	1	74	8	0	7	3	238	0
Franklin	155	0	28	73	33	10	10	1	0	0	144	1	0	0	2	8	0
Geary	172	1	29	75	30	25	10	2	0	0	65	53	0	4	15	35	0
Gove	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
Graham	9	0	2	3	1	1	1	1	0	0	7	1	0	0	0	1	0
Grant	52	0	13	12	12	9	6	0	0	0	14	0	0	0	0	37	1
Gray	18	0	5	7	2	2	2	0	0	0	11	0	0	0	0	7	0
Greeley	6	0	0	4	1	0	1	0	0	0	2	0	0	0	0	4	0
Greenwood	32	0	6	14	7	3	1	1	0	0	30	0	1	0	0	1	0
Hamilton	17	0	4	9	3	0	0	1	0	0	9	0	0	0	0	8	0
Harper	26	0	6	9	8	2	1	0	0	0	19	0	0	0	1	6	0
Harvey	148	0	35	64	35	8	5	1	0	0	104	3	0	1	2	38	0
Haskell	19	0	7	9	0	2	1	0	0	0	10	0	0	0	0	9	0
Hodgeman	5	0	0	2	0	1	1	1	0	0	4	0	0	0	0	1	0
Jackson	58	0	10	24	12	7	3	2	0	0	36	0	13	0	4	5	0
Jefferson	59	0	6	26	20	4	2	1	0	0	57	1	0	0	1	0	0
Jewell	13	0	4	5	2	1	1	0	0	0	12	0	0	0	0	1	0
Johnson	1,500	4	171	491	439	253	115	22	5	0	929	215	1	27	41	285	2
Kearny	20	0	2	8	6	2	1	1	0	0	10	0	0	0	0	10	0
Kingman	38	0	9	18	7	4	0	0	0	0	34	1	1	0	1	1	0
Kiowa	4	0	0	2	1	1	0	0	0	0	2	0	0	1	0	1	0
Labette	129	0	20	52	35	18	2	2	0	0	102	14	2	0	5	6	0
Lane	6	0	1	4	1	0	0	0	0	0	5	0	0	0	0	1	0
Leavenworth	294	0	62	135	56	31	10	0	0	0	227	40	2	0	8	17	0
Lincoln	8	0	1	6	1	0	0	0	0	0	8	0	0	0	0	0	0
Linn	45	0	10	20	7	5	2	1	0	0	44	0	0	0	0	1	0
Logan	6	0	1	4	1	0	0	0	0	0	4	0	0	0	0	2	0

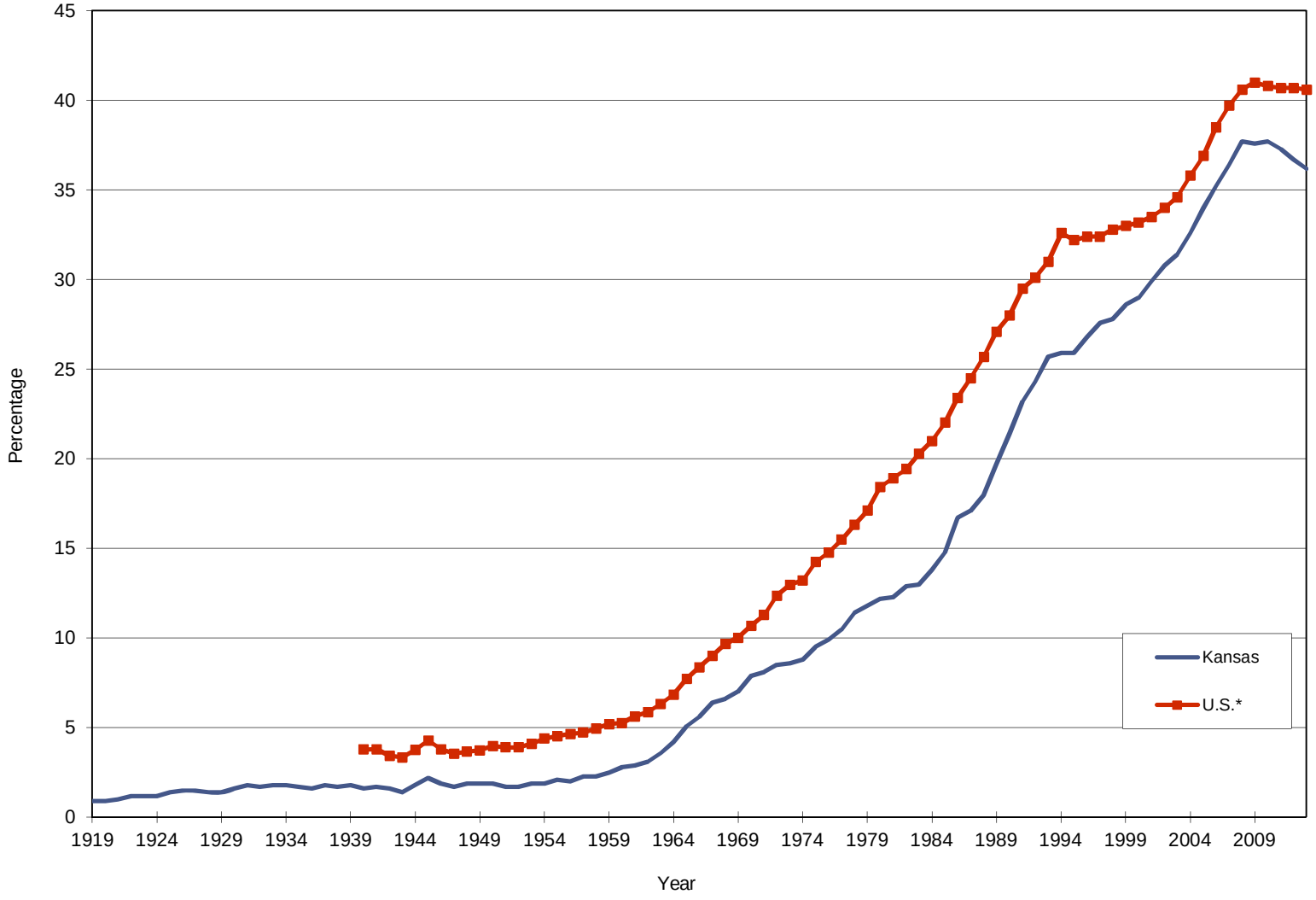
Table 30
Out-of-Wedlock Births by County of Residence
by Age-Group and Population Group of Mother
Kansas, 2013

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	185	1	33	74	49	16	8	4	0	0	107	6	1	0	10	61	0
McPherson	88	0	16	38	24	7	2	1	0	0	70	2	0	1	5	10	0
Marion	31	0	4	10	12	3	0	1	1	0	31	0	0	0	0	0	0
Marshall	37	0	7	16	8	5	1	0	0	0	35	2	0	0	0	0	0
Meade	23	0	4	9	6	3	0	1	0	0	15	0	0	0	0	8	0
Miami	85	0	23	32	18	10	2	0	0	0	77	2	0	2	3	1	0
Mitchell	14	0	6	6	0	1	1	0	0	0	12	0	0	0	0	2	0
Montgomery	215	1	43	93	50	21	6	1	0	0	160	18	5	0	10	22	0
Morris	21	0	4	7	6	2	2	0	0	0	18	0	0	0	1	2	0
Morton	16	0	3	6	4	2	1	0	0	0	8	0	0	0	0	8	0
Nemaha	38	0	7	18	7	4	1	1	0	0	36	0	1	0	0	1	0
Neosho	71	0	15	40	10	4	2	0	0	0	63	1	0	0	1	6	0
Ness	10	0	1	2	3	2	2	0	0	0	7	0	0	0	0	3	0
Norton	20	0	6	9	5	0	0	0	0	0	18	0	1	0	0	1	0
Osage	62	0	7	31	15	4	3	2	0	0	60	0	0	0	2	0	0
Osborne	19	0	6	5	6	2	0	0	0	0	18	0	0	1	0	0	0
Ottawa	15	0	2	5	4	3	1	0	0	0	14	0	0	0	0	1	0
Pawnee	27	1	3	12	9	1	1	0	0	0	21	0	0	0	0	6	0
Phillips	18	0	2	9	4	0	3	0	0	0	16	0	0	0	1	1	0
Pottawatomie	57	0	8	28	12	7	2	0	0	0	48	2	1	0	1	5	0
Pratt	50	0	8	22	10	6	3	1	0	0	43	1	0	0	0	6	0
Rawlins	8	0	3	3	1	0	1	0	0	0	5	0	0	0	0	3	0
Reno	326	0	69	129	80	33	13	2	0	0	244	9	1	2	10	60	0
Republic	20	0	4	8	6	1	0	1	0	0	20	0	0	0	0	0	0
Rice	45	0	12	20	10	3	0	0	0	0	35	0	0	0	2	8	0
Riley	182	0	21	83	52	18	7	1	0	0	116	23	0	5	13	25	0
Rooks	26	1	1	11	8	4	0	1	0	0	22	0	1	0	1	2	0
Rush	12	0	1	5	3	3	0	0	0	0	12	0	0	0	0	0	0
Russell	38	0	4	19	8	6	0	0	1	0	32	0	0	0	3	3	0
Saline	338	0	60	137	91	33	12	5	0	0	241	22	1	5	14	55	0
Scott	19	0	5	10	3	1	0	0	0	0	12	0	0	0	0	7	0
Sedgwick	3,199	7	597	1,260	767	379	152	35	2	0	1,696	608	16	76	93	709	1
Seward	217	1	50	74	49	27	14	2	0	0	40	8	1	2	3	163	0
Shawnee	1,059	0	203	407	267	123	44	15	0	0	576	169	22	2	55	235	0
Sheridan	8	0	2	3	2	1	0	0	0	0	7	0	0	0	0	1	0
Sherman	29	0	6	12	4	5	0	2	0	0	24	1	0	0	0	4	0
Smith	9	0	2	5	1	1	0	0	0	0	9	0	0	0	0	0	0
Stafford	17	0	4	5	7	1	0	0	0	0	14	0	0	0	0	3	0
Stanton	15	0	2	5	3	2	3	0	0	0	6	0	1	0	0	7	1
Stevens	31	1	7	10	5	6	1	1	0	0	13	0	0	0	0	18	0
Sumner	112	0	22	51	25	10	3	1	0	0	100	3	0	0	0	9	0
Thomas	32	0	9	8	10	4	1	0	0	0	24	0	0	0	2	6	0
Trego	8	0	2	4	1	0	1	0	0	0	6	0	0	0	0	2	0
Wabaunsee	21	0	6	11	4	0	0	0	0	0	19	0	0	0	1	1	0
Wallace.	7	0	1	3	1	2	0	0	0	0	5	0	0	0	0	2	0
Washington	17	0	1	5	6	4	0	1	0	0	15	0	0	0	0	2	0
Wichita	9	0	1	5	3	0	0	0	0	0	2	0	0	0	1	6	0
Wilson	48	0	7	20	14	4	3	0	0	0	46	0	1	0	1	0	0
Woodson	8	0	0	4	2	2	0	0	0	0	7	0	0	0	0	1	0
Wyandotte	1,504	6	271	581	342	208	78	18	0	0	485	465	6	28	36	484	0
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Peer Group																	
Frontier	430	2	80	186	93	40	20	9	0	0	328	2	3	2	3	91	1
Rural	954	3	187	401	210	99	42	10	2	0	772	6	20	0	21	134	1
Densely -Settled Rural	2,631	4	489	1,091	603	303	116	24	0	1	1,593	79	24	20	71	843	1
Semi-Urban	2,086	4	392	898	487	207	80	18	0	0	1,554	148	9	23	79	273	0
Urban	7,952	17	1,348	3,018	2,005	1,043	419	95	7	0	4,190	1,531	65	139	251	1,773	3

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

Out-of-Wedlock Birth Percentage Comparison

Kansas and the U.S., 1919-2013



*1919-1939, not available, 2013 provisional

Percentage of all births to unmarried women

Figure 16

Teen and Non-Teen Live Births:
Percent Distribution by Month Prenatal Care Began
Kansas, 2013

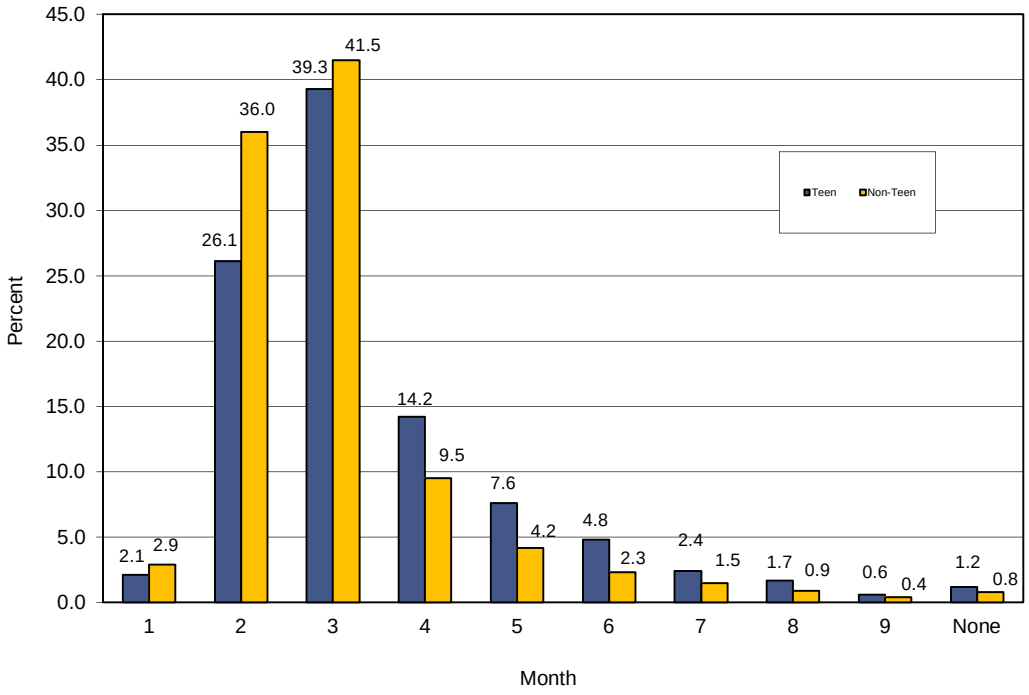


Figure 17

Teenage Live Births by Population Group
Kansas, 2013

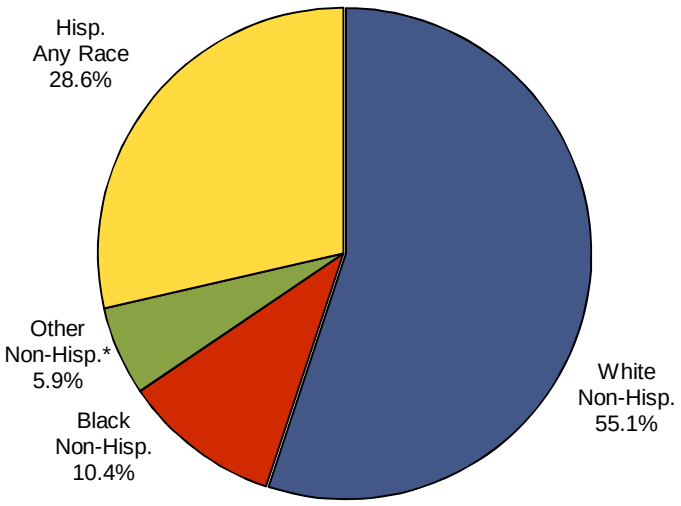


Figure 18

*Includes selection of two or more races
or other race

Teenage Pregnancy Rates*
by Age-Group,
Kansas 1994-2013

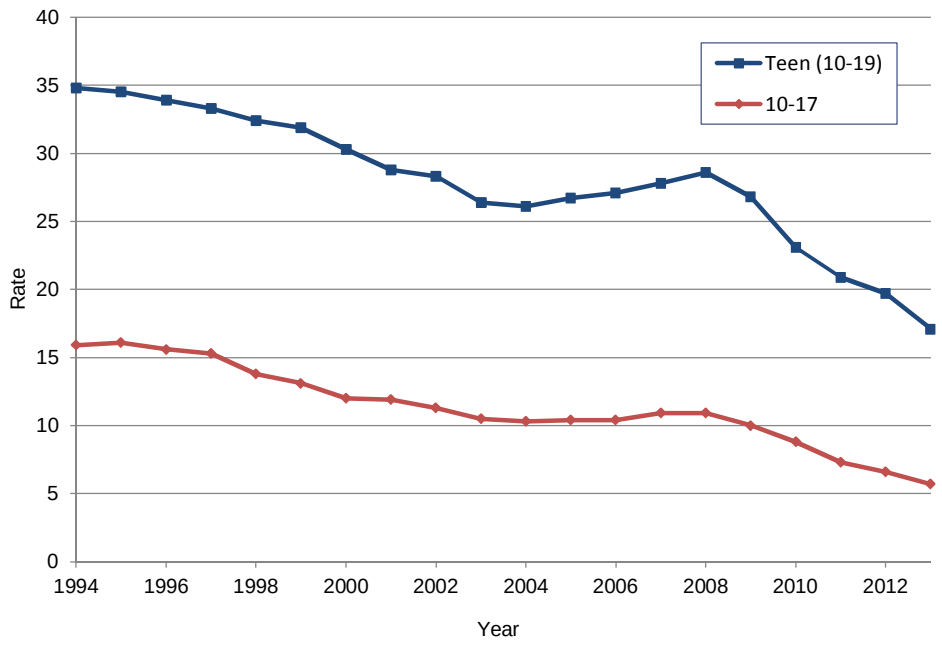


Figure 19

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

Table 31
Teenage Pregnancy Numbers and Rates*
by Year by Selected Age-Groups
Kansas, 1994-2013

Year	Teen (10-19) Pregnancies	Age-Group 10-14	15-17	18-19	15-19	Teen (10-19) Pregnancy Rate	Pregnancy Rate 10-14	15-17	10-17	15-19
1994	6,500	124	2,302	4,074	6,376	34.8	1.3	42.4	15.9	71.9
1995	6,552	153	2,332	4,067	6,399	34.5	1.6	41.3	16.1	69.5
1996	6,498	133	2,276	4,089	6,365	33.9	1.4	38.9	15.6	67.0
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

*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

Table 32
Teenage Pregnancy Numbers and Rates*
by Year for Selected Population Group†
and Selected Age-Group
Kansas, 2009-2013

	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
2009	19	0.3	776	6.9	2,927	39.1	2,946	20.6	15	2.0	175	14.3	627	80.9	642	41.9	21	1.7	437	23.3	1,160	108.5	1,181	51.5
2010	17	0.3	661	6.0	2,539	35.4	2,556	18.3	10	1.6	185	18.4	532	79.2	542	42.1	22	1.5	416	18.2	1,114	85.5	1,136	40.6
2011	27	0.4	563	5.0	2,283	31.2	2,310	16.2	18	2.3	131	10.4	451	56.3	469	29.5	19	1.2	363	15.3	1,044	77.3	1,063	36.5
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

*Rate per 1,000 female race/Hispanic age-group population; 2010 uses actual Census populations, not annual estimates for July 1.
†This table includes mutually exclusive race/ethnicity groups and is not comparable to tables in Annual Summaries prior to 2006.
See Technical Notes.

Table 33
Teenage Pregnancies by County of Residence and by Peer Group†
by Age-Group and Component
Kansas, 2013

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	30	2,867	0	19	11	408	41	3,294	3,335	17.1
Allen	0	9	0	0	0	2	0	11	11	13.0
Anderson	0	7	0	0	0	0	0	7	7	13.5
Atchison	0	24	0	0	0	2	0	26	26	19.6
Barber	0	4	0	0	0	0	0	4	4	14.4
Barton	0	29	0	0	0	3	0	32	32	17.8
Bourbon	1	21	0	0	0	2	1	23	24	24.8
Brown	0	12	0	0	0	0	0	12	12	19.3
Butler	2	47	0	0	0	7	2	54	56	11.2
Chase	0	1	0	0	0	0	0	1	1	5.7
Chautauqua	0	6	0	0	0	0	0	6	6	31.9
Cherokee	0	28	0	0	0	0	0	28	28	19.5
Cheyenne	1	3	0	0	0	0	1	3	4	31.3
Clark	0	2	0	0	0	0	0	2	2	13.4
Clay	0	6	0	0	0	2	0	8	8	16.0
Cloud	0	11	0	0	0	1	0	12	12	19.7
Coffey	0	4	0	0	0	0	0	4	4	6.9
Comanche	0	2	0	0	0	0	0	2	2	13.8
Cowley	0	53	0	0	0	2	0	55	55	22.0
Crawford	0	45	0	1	0	4	0	50	50	18.9
Decatur	0	6	0	0	0	0	0	6	6	37.5
Dickinson	0	10	0	0	0	2	0	12	12	9.5
Doniphan	0	8	0	0	0	2	0	10	10	18.2
Douglas	0	52	0	0	2	22	2	74	76	9.2
Edwards	0	1	0	0	0	0	0	1	1	5.0
Elk	0	3	0	0	0	0	0	3	3	19.6
Ellis	0	23	0	0	0	7	0	30	30	16.7
Ellsworth	1	2	0	0	0	0	1	2	3	10.6
Finney	0	77	0	0	0	7	0	84	84	28.3
Ford	1	67	0	0	0	3	1	70	71	27.4
Franklin	0	30	0	0	0	2	0	32	32	18.2
Geary	1	63	0	0	2	5	3	68	71	32.2
Gove	0	0	0	0	0	0	0	0	0	0.0
Graham	0	3	0	0	0	1	0	4	4	28.4
Grant	0	17	0	0	0	1	0	18	18	27.7
Gray	0	7	0	0	0	0	0	7	7	13.9
Greeley	0	0	0	0	0	0	0	0	0	0.0
Greenwood	0	7	0	0	0	1	0	8	8	21.8
Hamilton	0	5	0	0	0	0	0	5	5	30.9
Harper	0	7	0	0	0	0	0	7	7	20.7
Harvey	0	44	0	0	0	2	0	46	46	19.1
Haskell	0	8	0	0	0	0	0	8	8	23.6
Hodgeman	0	1	0	0	0	0	0	1	1	8.5
Jackson	0	13	0	0	0	1	0	14	14	15.4
Jefferson	0	6	0	0	0	2	0	8	8	6.4
Jewell	0	4	0	0	0	0	0	4	4	26.1
Johnson	4	193	0	1	0	97	4	291	295	7.7
Kearny	0	4	0	0	0	1	0	5	5	18.6
Kingman	0	9	0	0	0	0	0	9	9	17.4
Kiowa	0	1	0	0	0	0	0	1	1	5.6
Labette	0	23	0	0	1	2	1	25	26	20.8
Lane	0	1	0	0	0	0	0	1	1	7.9
Leavenworth	0	67	0	1	1	12	1	80	81	16.3
Lincoln	0	1	0	0	0	0	0	1	1	5.0
Linn	0	10	0	0	0	1	0	11	11	16.8
Logan	0	2	0	0	0	0	0	2	2	13.1

Table 33
Teenage Pregnancies by County of Residence and by Peer Group†
by Age-Group and Component
Kansas, 2013

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	40	0	2	2	5	3	47	50	20.8
McPherson	0	18	0	0	0	1	0	19	19	9.7
Marion	0	5	0	0	0	0	0	5	5	6.5
Marshall	0	8	0	0	0	0	0	8	8	13.7
Meade	0	7	0	0	0	0	0	7	7	19.8
Miami	0	24	0	0	0	4	0	28	28	11.8
Mitchell	0	6	0	0	0	0	0	6	6	15.6
Montgomery	1	50	0	0	0	0	1	50	51	23.5
Morris	0	4	0	0	0	1	0	5	5	15.6
Morton	0	3	0	0	0	0	0	3	3	12.2
Nemaha	0	10	0	2	0	1	0	13	13	18.3
Neosho	0	17	0	0	0	0	0	17	17	15.0
Ness	0	1	0	0	0	0	0	1	1	5.3
Norton	0	7	0	0	0	0	0	7	7	23.6
Osage	0	10	0	0	0	3	0	13	13	11.9
Osborne	0	6	0	0	0	1	0	7	7	33.5
Ottawa	0	3	0	0	0	0	0	3	3	7.4
Pawnee	1	3	0	0	0	0	1	3	4	11.2
Phillips	0	2	0	0	0	0	0	2	2	5.3
Pottawatomie	0	9	0	0	0	1	0	10	10	5.9
Pratt	0	9	0	0	0	1	0	10	10	15.4
Rawlins	0	3	0	0	0	0	0	3	3	21.9
Reno	0	73	0	0	0	3	0	76	76	18.7
Republic	0	4	0	0	0	0	0	4	4	15.8
Rice	0	14	0	0	0	2	0	16	16	23.9
Riley	0	44	0	0	0	20	0	64	64	13.1
Rooks	1	1	0	0	0	1	1	2	3	9.5
Rush	0	1	0	0	0	0	0	1	1	5.8
Russell	0	5	0	0	0	2	0	7	7	17.9
Saline	0	66	0	0	0	13	0	79	79	22.5
Scott	0	5	0	0	0	1	0	6	6	17.6
Sedgwick	7	660	0	7	1	83	8	750	758	22.1
Seward	1	55	0	0	0	1	1	56	57	31.6
Shawnee	0	219	0	1	0	28	0	248	248	21.5
Sheridan	0	2	0	0	0	0	0	2	2	12.7
Sherman	0	8	0	0	0	0	0	8	8	21.4
Smith	0	2	0	0	0	0	0	2	2	9.3
Stafford	0	4	0	0	0	0	0	4	4	16.4
Stanton	0	2	0	0	0	0	0	2	2	13.9
Stevens	1	11	0	0	0	0	1	11	12	27.8
Sumner	0	23	0	0	0	3	0	26	26	15.6
Thomas	0	10	0	0	0	0	0	10	10	16.7
Trego	0	2	0	0	0	0	0	2	2	11.7
Wabaunsee	0	9	0	0	0	0	0	9	9	19.4
Wallace	0	1	0	0	0	0	0	1	1	8.8
Washington	0	1	0	0	0	0	0	1	1	2.9
Wichita	0	1	0	0	0	0	0	1	1	7.6
Wilson	0	8	0	0	0	0	0	8	8	13.5
Woodson	0	0	0	0	0	0	0	0	0	0.0
Wyandotte	6	302	0	4	2	34	8	340	348	31.8
n.s.	0	0	0	0	0	3	0	3	3	n/a
Peer Group										
Frontier	2	101	0	0	0	5	2	106	108	15.7
Rural	3	234	0	2	0	14	3	250	253	15.2
Densely -Settled Rural	4	553	0	2	3	50	7	605	612	19.2
Semi-Urban	4	486	0	1	2	60	6	547	553	17.8
Urban	17	1,493	0	14	6	276	23	1,783	1,806	16.7

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

Table 34
Teenage Pregnancies for 10-17 Year Olds*
by County of Residence and Peer Group† by Component
Kansas, 2013

County of Residence	Live Births	Stillbirths	Abortions	Total Pregnancies	Pregnancy Rate‡
Kansas	751	8	123	882	5.7
Allen	6	0	1	7	10.9
Anderson	1	0	0	1	2.3
Atchison	4	0	0	4	4.7
Barber	0	0	0	0	0.0
Barton	9	0	0	9	6.3
Bourbon	8	0	1	9	11.4
Brown	4	0	0	4	7.7
Butler	14	0	3	17	4.1
Chase	0	0	0	0	0.0
Chautauqua	1	0	0	1	6.6
Cherokee	11	0	0	11	9.0
Cheyenne	2	0	0	2	18.7
Clark	0	0	0	0	0.0
Clay	0	0	1	1	2.4
Cloud	3	0	0	3	6.7
Coffey	1	0	0	1	2.1
Comanche	0	0	0	0	0.0
Cowley	11	0	0	11	5.7
Crawford	10	0	1	11	6.0
Decatur	0	0	0	0	0.0
Dickinson	0	0	2	2	1.9
Doniphan	1	0	0	1	2.7
Douglas	7	0	7	14	3.0
Edwards	0	0	0	0	0.0
Elk	1	0	0	1	8.1
Ellis	6	0	1	7	5.8
Ellsworth	1	0	0	1	4.4
Finney	23	0	2	25	10.5
Ford	20	0	1	21	9.9
Franklin	6	0	0	6	4.3
Geary	5	0	3	8	4.4
Gove	0	0	0	0	0.0
Graham	1	0	0	1	8.5
Grant	8	0	0	8	14.6
Gray	2	0	0	2	4.7
Greeley	0	0	0	0	0.0
Greenwood	2	0	1	3	9.6
Hamilton	0	0	0	0	0.0
Harper	0	0	0	0	0.0
Harvey	8	0	2	10	5.3
Haskell	4	0	0	4	14.4
Hodgeman	0	0	0	0	0.0
Jackson	3	0	0	3	3.9
Jefferson	1	0	1	2	1.9
Jewell	0	0	0	0	0.0
Johnson	47	1	16	64	2.0
Kearny	2	0	1	3	13.1
Kingman	2	0	0	2	4.5
Kiowa	0	0	0	0	0.0
Labette	8	0	1	9	8.8
Lane	1	0	0	1	9.4
Leavenworth	21	1	6	28	6.8
Lincoln	1	0	0	1	5.8
Linn	6	0	1	7	12.3
Logan	1	0	0	1	7.8

Table 34
Teenage Pregnancies for 10-17 Year Olds*
by County of Residence and Peer Group† by Component
Kansas, 2013

County of Residence	Live Births	Stillbirths	Abortions	Total Pregnancies	Pregnancy Rate‡
Lyon	11	2	4	17	10.7
McPherson	4	0	0	4	2.5
Marion	4	0	0	4	6.7
Marshall	1	0	0	1	2.0
Meade	1	0	0	1	3.4
Miami	3	0	1	4	2.0
Mitchell	0	0	0	0	0.0
Montgomery	11	0	0	11	6.6
Morris	1	0	0	1	3.7
Morton	2	0	0	2	9.7
Nemaha	2	0	1	3	5.0
Neosho	2	0	0	2	2.2
Ness	0	0	0	0	0.0
Norton	1	0	0	1	4.1
Osage	1	0	1	2	2.1
Osborne	0	0	0	0	0.0
Ottawa	0	0	0	0	0.0
Pawnee	3	0	0	3	10.0
Phillips	0	0	0	0	0.0
Pottawatomie	3	0	0	3	2.1
Pratt	1	0	0	1	2.0
Rawlins	0	0	0	0	0.0
Reno	16	0	2	18	5.4
Republic	1	0	0	1	4.7
Rice	4	0	2	6	12.2
Riley	5	0	2	7	3.1
Rooks	1	0	0	1	3.8
Rush	0	0	0	0	0.0
Russell	1	0	1	2	6.3
Saline	23	0	5	28	9.8
Scott	1	0	0	1	3.4
Sedgwick	183	4	26	213	7.5
Seward	19	0	1	20	14.0
Shawnee	57	0	13	70	7.4
Sheridan	1	0	0	1	7.5
Sherman	2	0	0	2	6.3
Smith	0	0	0	0	0.0
Stafford	0	0	0	0	0.0
Stanton	0	0	0	0	0.0
Stevens	5	0	0	5	13.6
Sumner	4	0	2	6	4.3
Thomas	2	0	0	2	4.9
Trego	0	0	0	0	0.0
Wabaunsee	1	0	0	1	2.5
Wallace	0	0	0	0	0.0
Washington	0	0	0	0	0.0
Wichita	1	0	0	1	8.6
Wilson	1	0	0	1	2.0
Woodson	0	0	0	0	0.0
Wyandotte	99	0	10	109	12.0
n.s.	0	0	0	0	n/a
Peer Group					
Frontier	20	0	2	22	3.9
Rural	64	0	6	70	5.2
Densely -Settled Rural	152	2	18	172	6.9
Semi-Urban	101	0	19	120	5.2
Urban	414	6	78	498	5.7

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

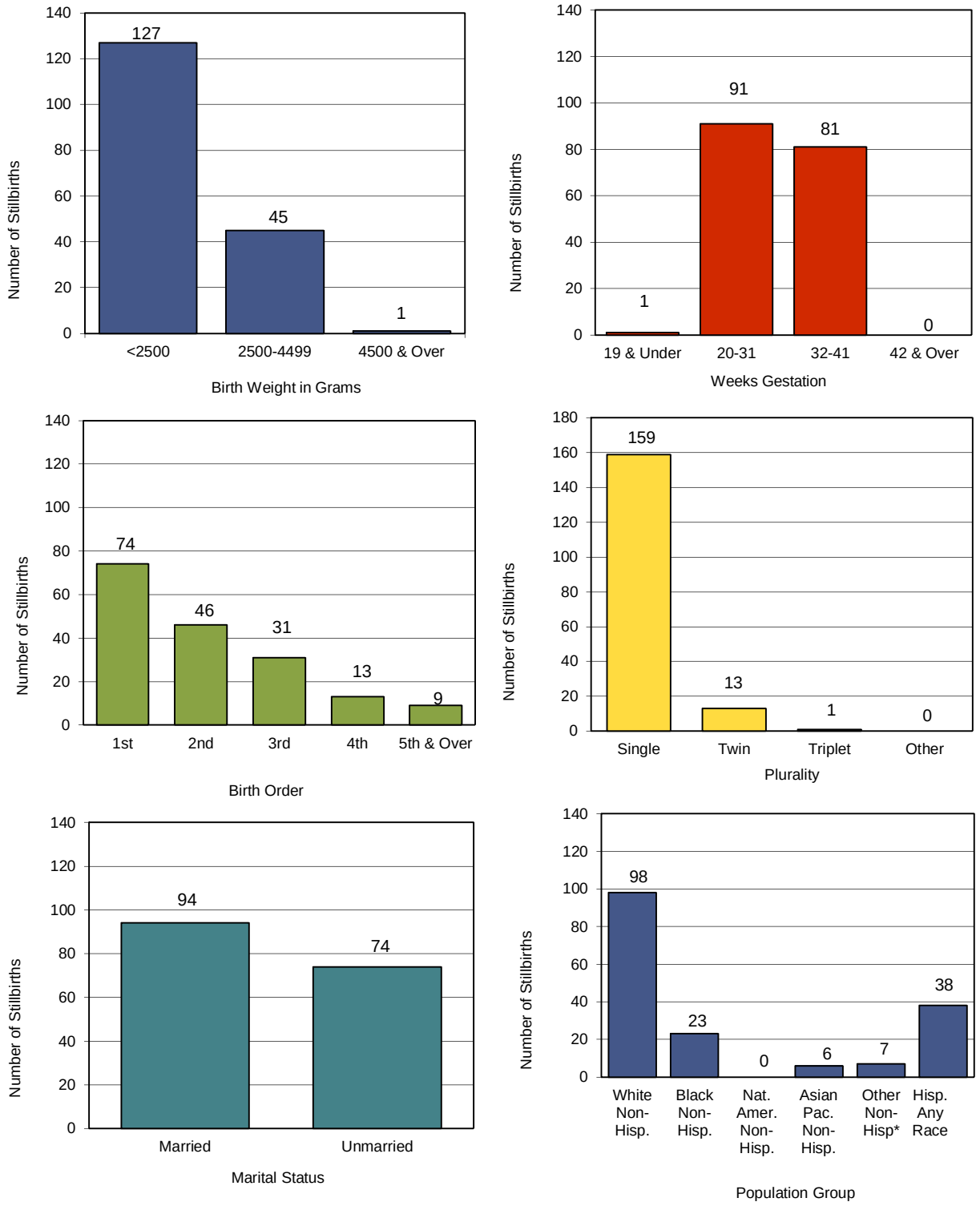
Table 35
Stillbirths by County of Residence
by Age-Group of Mother
Kansas, 2013

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	173	0	19	51	40	34	20	9	0	0
Allen	2	0	0	1	1	0	0	0	0	0
Anderson	0	0	0	0	0	0	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	1	0	0	0	1	0	0	0	0	0
Bourbon	1	0	0	0	0	1	0	0	0	0
Brown	0	0	0	0	0	0	0	0	0	0
Butler	0	0	0	0	0	0	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	1	0	0	1	0	0
Cheyenne	0	0	0	0	0	0	0	0	0	0
Clark	0	0	0	0	0	0	0	0	0	0
Clay	0	0	0	0	0	0	0	0	0	0
Cloud	1	0	0	0	0	1	0	0	0	0
Coffey	0	0	0	0	0	0	0	0	0	0
Comanche	1	0	0	0	1	0	0	0	0	0
Cowley	3	0	0	0	1	1	1	0	0	0
Crawford	5	0	1	1	1	2	0	0	0	0
Decatur	1	0	0	0	1	0	0	0	0	0
Dickinson	2	0	0	2	0	0	0	0	0	0
Doniphan	0	0	0	0	0	0	0	0	0	0
Douglas	4	0	0	2	0	1	1	0	0	0
Edwards	0	0	0	0	0	0	0	0	0	0
Elk	0	0	0	0	0	0	0	0	0	0
Ellis	1	0	0	1	0	0	0	0	0	0
Ellsworth	0	0	0	0	0	0	0	0	0	0
Finney	4	0	0	1	1	1	0	1	0	0
Ford	3	0	0	1	1	1	0	0	0	0
Franklin	1	0	0	0	0	0	0	1	0	0
Geary	4	0	0	4	0	0	0	0	0	0
Gove	1	0	0	0	0	0	1	0	0	0
Graham	0	0	0	0	0	0	0	0	0	0
Grant	0	0	0	0	0	0	0	0	0	0
Gray	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	1	0	0	1	0	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	0	0	0	0	0	0	0	0	0	0
Jewell	0	0	0	0	0	0	0	0	0	0
Johnson	29	0	1	4	10	9	3	2	0	0
Kearny	0	0	0	0	0	0	0	0	0	0
Kingman	0	0	0	0	0	0	0	0	0	0
Kiowa	1	0	0	0	0	0	1	0	0	0
Labette	1	0	0	1	0	0	0	0	0	0
Lane	0	0	0	0	0	0	0	0	0	0
Leavenworth	4	0	1	0	1	0	1	1	0	0
Lincoln	0	0	0	0	0	0	0	0	0	0
Linn	0	0	0	0	0	0	0	0	0	0
Logan	0	0	0	0	0	0	0	0	0	0

Table 35
Stillbirths by County of Residence
by Age-Group of Mother
Kansas, 2013

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	6	0	2	1	1	1	0	1	0	0
McPherson	1	0	0	0	0	0	1	0	0	0
Marion	0	0	0	0	0	0	0	0	0	0
Marshall	0	0	0	0	0	0	0	0	0	0
Meade	0	0	0	0	0	0	0	0	0	0
Miami	0	0	0	0	0	0	0	0	0	0
Mitchell	0	0	0	0	0	0	0	0	0	0
Montgomery	4	0	0	1	1	1	1	0	0	0
Morris	0	0	0	0	0	0	0	0	0	0
Morton	0	0	0	0	0	0	0	0	0	0
Nemaha	2	0	2	0	0	0	0	0	0	0
Neosho	2	0	0	1	0	0	1	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	1	0	0	0	1	0	0	0	0	0
Ottawa	0	0	0	0	0	0	0	0	0	0
Pawnee	1	0	0	1	0	0	0	0	0	0
Phillips	1	0	0	0	0	1	0	0	0	0
Pottawatomie	2	0	0	0	2	0	0	0	0	0
Pratt	0	0	0	0	0	0	0	0	0	0
Rawlins	0	0	0	0	0	0	0	0	0	0
Reno	3	0	0	2	0	1	0	0	0	0
Republic	0	0	0	0	0	0	0	0	0	0
Rice	0	0	0	0	0	0	0	0	0	0
Riley	1	0	0	0	1	0	0	0	0	0
Rooks	1	0	0	0	0	1	0	0	0	0
Rush	1	0	0	1	0	0	0	0	0	0
Russell	0	0	0	0	0	0	0	0	0	0
Saline	2	0	0	0	1	1	0	0	0	0
Scott	0	0	0	0	0	0	0	0	0	0
Sedgwick	35	0	7	10	7	5	5	1	0	0
Seward	1	0	0	0	0	0	1	0	0	0
Shawnee	11	0	1	6	1	1	1	1	0	0
Sheridan	0	0	0	0	0	0	0	0	0	0
Sherman	0	0	0	0	0	0	0	0	0	0
Smith	0	0	0	0	0	0	0	0	0	0
Stafford	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0
Thomas	1	0	0	0	1	0	0	0	0	0
Trego	0	0	0	0	0	0	0	0	0	0
Wabaunsee	1	0	0	1	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	2	0	0	1	0	1	0	0	0	0
Woodson	0	0	0	0	0	0	0	0	0	0
Wyandotte	19	0	4	6	3	4	2	0	0	0
n.s.	0	0	0	0	0	0	0	0	0	0

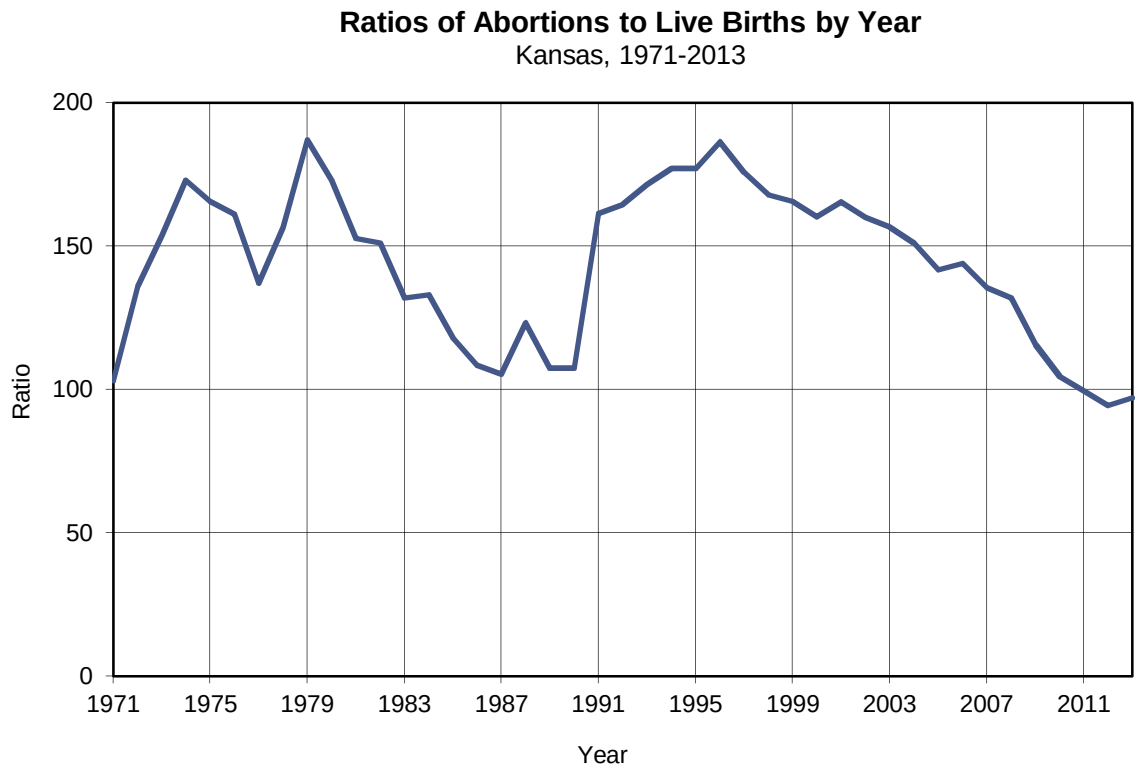
Stillbirths
By Selected Characteristics
Kansas, 2013



Rates per 1,000 Live Births + Stillbirths

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

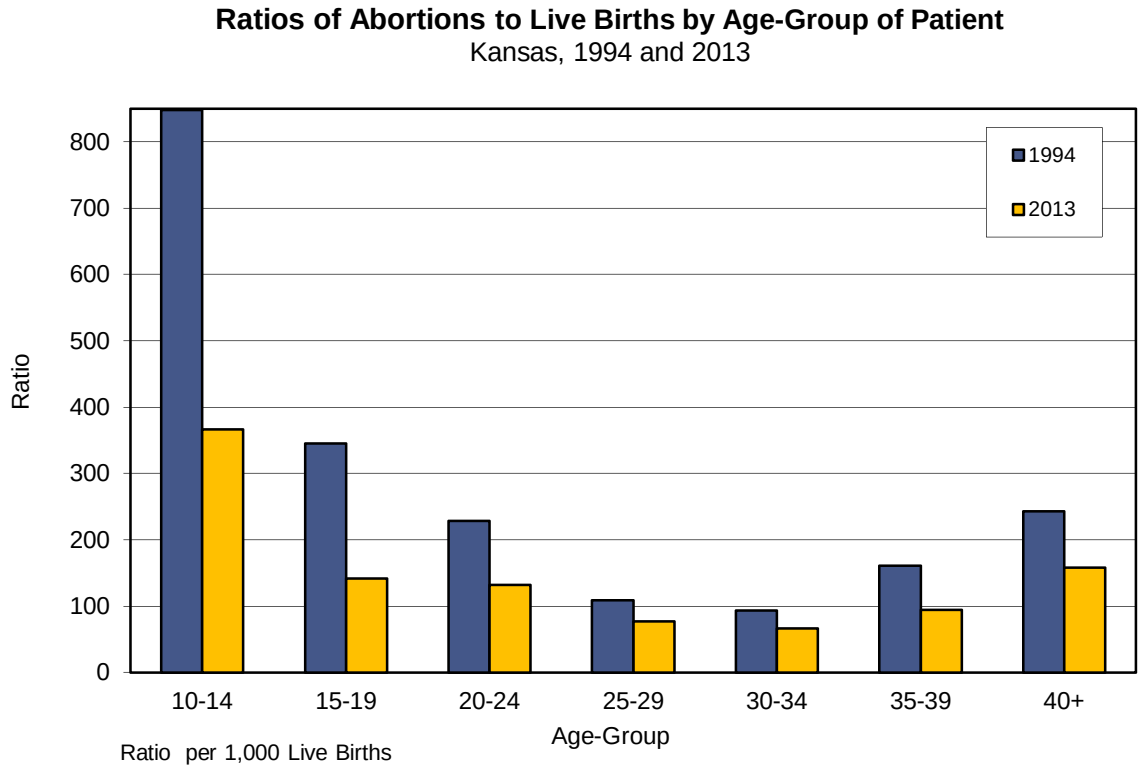
Figure 20



*Data not available for 2009-2011

Ratio per 1,000 Live Births

Figure 21



Ratio per 1,000 Live Births
Residence Data

Figure 22

Table 36
Total Reported Abortions and Ratios of Abortions to Live Births*
Kansas, 1971-2013

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

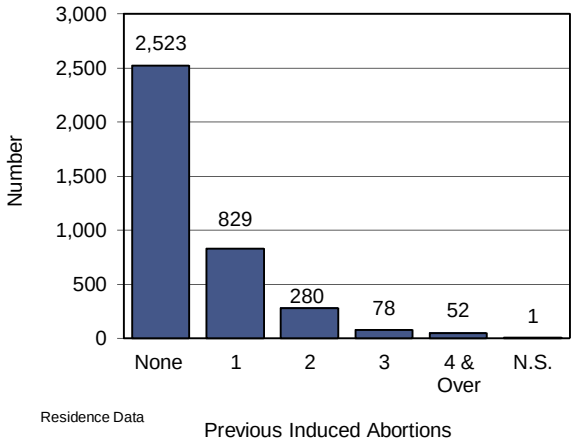
* Includes in state occurrences to Kansas residents and out of state residents, plus Kansas resident out of state. Ratio per 1,000 live births.

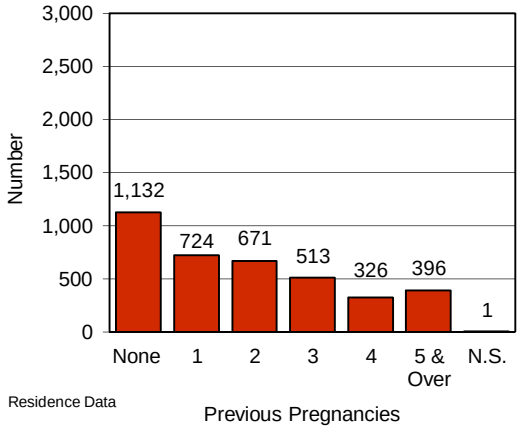
† Abortion ratios are per 1,000 live births, and are basesd on Kansas residence.

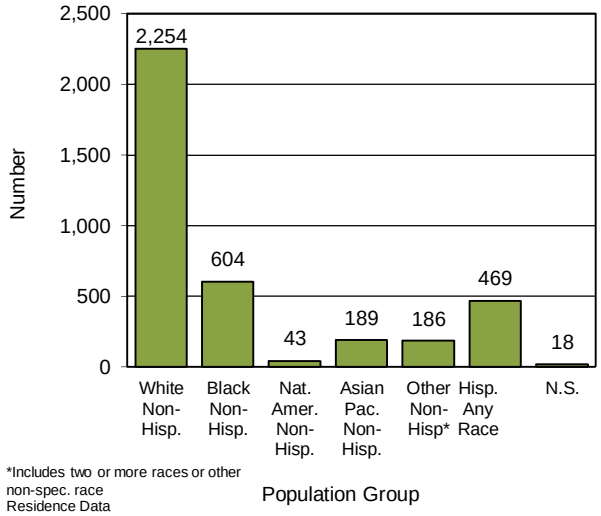
‡ As of July 1, 1995, reporting became mandatory for every medical care facility and every person licensed to practice medicine and surgery.

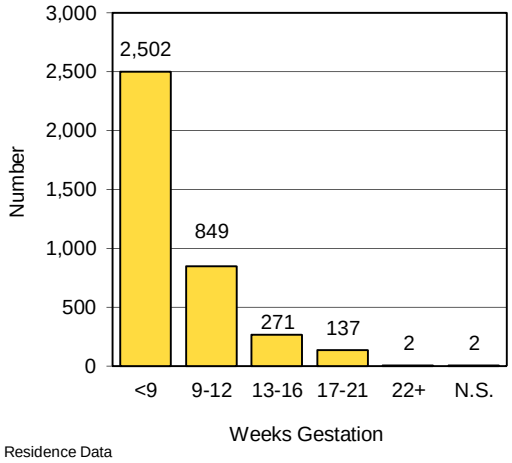
¶ Numbers from 1999 on are larger than the ones reported in the preliminary reports due to induced termination of pregnancy reports received from other states after the Kansas reporting deadlines.

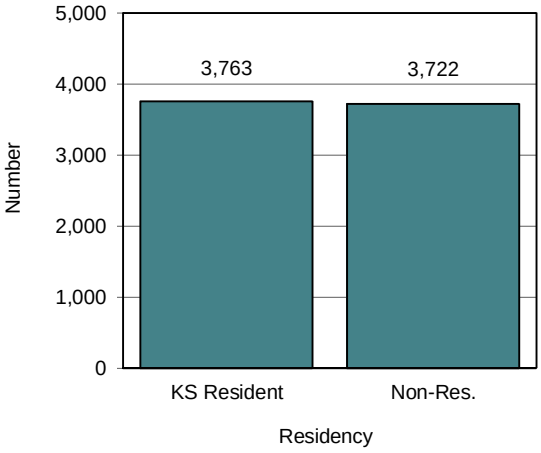
Reported Abortions
By Selected Characteristics,
Kansas, 2013











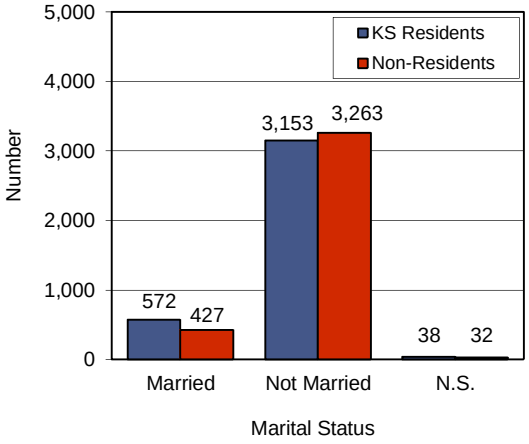


Figure 23

Table 37
Abortions by County of Residence
by Age-Group of Patient,
Kansas, 2013

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	3,763	11	408	1,274	949	647	350	117	7	0
Allen	8	0	2	0	3	2	1	0	0	0
Anderson	1	0	0	0	1	0	0	0	0	0
Atchison	21	0	2	6	7	5	1	0	0	0
Barber	1	0	0	0	1	0	0	0	0	0
Barton	18	0	3	4	2	8	1	0	0	0
Bourbon	13	0	2	3	3	4	1	0	0	0
Brown	4	0	0	0	1	0	3	0	0	0
Butler	46	0	7	18	9	5	6	1	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	9	0	0	2	4	3	0	0	0	0
Cheyenne	0	0	0	0	0	0	0	0	0	0
Clark	0	0	0	0	0	0	0	0	0	0
Clay	3	0	2	1	0	0	0	0	0	0
Cloud	8	0	1	2	4	1	0	0	0	0
Coffey	5	0	0	2	1	0	2	0	0	0
Comanche	0	0	0	0	0	0	0	0	0	0
Cowley	17	0	2	7	5	3	0	0	0	0
Crawford	38	0	4	22	4	6	1	1	0	0
Decatur	0	0	0	0	0	0	0	0	0	0
Dickinson	13	0	2	7	4	0	0	0	0	0
Doniphan	5	0	2	1	0	1	0	1	0	0
Douglas	239	2	22	107	48	33	22	5	0	0
Edwards	1	0	0	0	0	1	0	0	0	0
Elk	2	0	0	1	1	0	0	0	0	0
Ellis	38	0	7	15	8	6	1	1	0	0
Ellsworth	2	0	0	1	0	0	1	0	0	0
Finney	29	0	7	7	5	7	2	0	1	0
Ford	31	0	3	14	6	4	4	0	0	0
Franklin	20	0	2	6	4	6	2	0	0	0
Geary	88	2	5	42	15	19	3	2	0	0
Gove	1	0	0	0	1	0	0	0	0	0
Graham	1	0	1	0	0	0	0	0	0	0
Grant	1	0	1	0	0	0	0	0	0	0
Gray	2	0	0	0	1	0	0	1	0	0
Greeley	0	0	0	0	0	0	0	0	0	0
Greenwood	3	0	1	0	0	0	1	0	1	0
Hamilton	0	0	0	0	0	0	0	0	0	0
Harper	5	0	0	4	1	0	0	0	0	0
Harvey	18	0	2	9	5	1	1	0	0	0
Haskell	0	0	0	0	0	0	0	0	0	0
Hodgeman	2	0	0	2	0	0	0	0	0	0
Jackson	21	0	1	9	3	5	3	0	0	0
Jefferson	15	0	2	1	3	6	3	0	0	0
Jewell	1	0	0	1	0	0	0	0	0	0
Johnson	998	0	97	265	289	183	122	40	2	0
Kearny	3	0	1	0	0	0	2	0	0	0
Kingman	1	0	0	1	0	0	0	0	0	0
Kiowa	1	0	0	0	1	0	0	0	0	0
Labette	15	1	2	5	2	3	1	1	0	0
Lane	0	0	0	0	0	0	0	0	0	0
Leavenworth	98	1	12	27	29	10	13	6	0	0
Lincoln	1	0	0	0	1	0	0	0	0	0
Linn	9	0	1	1	0	5	1	1	0	0
Logan	2	0	0	0	1	1	0	0	0	0

Table 37
Abortions by County of Residence
by Age-Group of Patient,
Kansas, 2013

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	40	2	5	23	5	3	2	0	0	0
Mcpherson	22	0	1	7	3	8	3	0	0	0
Marion	2	0	0	0	1	1	0	0	0	0
Marshall	5	0	0	2	2	1	0	0	0	0
Meade	3	0	0	1	0	1	0	1	0	0
Miami	38	0	4	15	5	8	5	1	0	0
Mitchell	6	0	0	1	2	3	0	0	0	0
Montgomery	10	0	0	4	4	2	0	0	0	0
Morris	3	0	1	0	1	0	0	1	0	0
Morton	1	0	0	0	0	1	0	0	0	0
Nemaha	6	0	1	1	1	2	0	1	0	0
Neosho	7	0	0	5	1	0	1	0	0	0
Ness	1	0	0	1	0	0	0	0	0	0
Norton	1	0	0	1	0	0	0	0	0	0
Osage	13	0	3	2	4	2	2	0	0	0
Osborne	2	0	1	1	0	0	0	0	0	0
Ottawa	2	0	0	1	1	0	0	0	0	0
Pawnee	0	0	0	0	0	0	0	0	0	0
Phillips	1	0	0	0	1	0	0	0	0	0
Pottawatomie	11	0	1	2	3	4	1	0	0	0
Pratt	6	0	1	2	2	1	0	0	0	0
Rawlins	2	0	0	1	0	1	0	0	0	0
Reno	44	0	3	13	8	11	6	3	0	0
Republic	3	0	0	1	0	0	1	1	0	0
Rice	6	0	2	0	1	1	1	1	0	0
Riley	146	0	20	77	23	18	5	3	0	0
Rooks	5	0	1	1	2	0	1	0	0	0
Rush	0	0	0	0	0	0	0	0	0	0
Russell	5	0	2	3	0	0	0	0	0	0
Saline	69	0	13	22	17	10	6	1	0	0
Scott	1	0	1	0	0	0	0	0	0	0
Sedgwick	691	1	83	226	184	120	51	24	2	0
Seward	11	0	1	5	3	1	1	0	0	0
Shawnee	263	0	28	100	69	39	20	7	0	0
Sheridan	0	0	0	0	0	0	0	0	0	0
Sherman	1	0	0	0	1	0	0	0	0	0
Smith	1	0	0	0	0	1	0	0	0	0
Stafford	1	0	0	1	0	0	0	0	0	0
Stanton	2	0	0	2	0	0	0	0	0	0
Stevens	3	0	0	2	0	1	0	0	0	0
Sumner	16	0	3	6	4	2	0	1	0	0
Thomas	4	0	0	3	1	0	0	0	0	0
Trego	2	0	0	1	1	0	0	0	0	0
Wabaunsee	2	0	0	1	1	0	0	0	0	0
Wallace	0	0	0	0	0	0	0	0	0	0
Washington	1	0	0	1	0	0	0	0	0	0
Wichita	1	0	0	1	0	0	0	0	0	0
Wilson	4	0	0	2	2	0	0	0	0	0
Woodson	2	0	0	1	1	0	0	0	0	0
Wyandotte	420	2	34	132	117	77	46	11	1	0
n.s.*	19	0	3	10	5	0	0	1	0	0

*County information not collected by other states.

Table 38
Total Reported Abortions by Selected Characteristics
by Age-Group of Patient
Kansas, 2013

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	7,485	19	807	2,492	1,940	1,304	683	225	15	0
Residency										
Kansans in State	3,700	11	398	1,248	932	640	348	116	7	0
Kansans out-of-state	63	0	10	26	17	7	2	1	0	0
Non-residents in KS	3,721	8	399	1,218	991	656	333	108	8	0
n.s.	1	0	0	0	0	1	0	0	0	0
Population Group										
White Non-Hispanic	4,426	11	501	1,450	1,136	763	414	143	8	0
Black Non-Hispanic	1,633	1	147	561	466	291	123	41	3	0
Native American Non-Hispanic	67	1	10	20	12	16	7	1	0	0
Asian/Pacific Non-Hispanic	266	0	17	61	60	64	48	14	2	0
Other Non-Hispanic†	326	4	43	137	65	55	18	4	0	0
Hispanic Any Race	737	2	87	250	193	112	71	20	2	0
n.s.	30	0	2	13	8	3	2	2	0	0
Marital Status of Patient										
Married	999	0	11	182	247	269	210	74	6	0
Not Married	6,416	19	790	2,286	1,678	1,016	468	150	9	0
n.s.	70	0	6	24	15	19	5	1	0	0
Weeks Gestation										
Under 9	4,938	7	467	1,594	1,326	904	467	163	10	0
9-12	1,738	8	226	634	419	268	142	39	2	0
13-16	515	2	74	170	118	86	46	17	2	0
17-21	290	2	40	91	76	46	28	6	1	0
22 & Over	2	0	0	1	1	0	0	0	0	0
n.s,	2	0	0	2	0	0	0	0	0	0
Procedure										
Suction Curettage	3,982	13	430	1,267	1,024	713	397	131	7	0
Sharp Curettage	9	0	1	4	3	1	0	0	0	0
Dilation & Evac	585	2	82	191	141	95	58	14	2	0
Med Proc. 1‡	2,903	4	294	1,028	770	494	227	80	6	0
Med Proc. 2§	0	0	0	0	0	0	0	0	0	0
Intra-Uterine Pros. Instillation	0	0	0	0	0	0	0	0	0	0
Hysterotomy	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	0	2	2	1	1	0	0	0
n.s.	0	0	0	0	0	0	0	0	0	0
Previous Pregnancies										
None	2,155	19	628	965	354	132	45	10	2	0
1	1,479	0	140	669	393	174	79	23	1	0
2	1,372	0	29	465	435	266	127	48	2	0
3	1,057	0	7	245	319	262	168	54	2	0
4	625	0	3	89	206	203	93	29	2	0
5 & Over	796	0	0	58	233	267	171	61	6	0
n.s.	1	0	0	1	0	0	0	0	0	0

Table 38
Total Reported Abortions by Selected Characteristics
by Age-Group of Patient
Kansas, 2013

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										
None	4,792	19	732	1,815	1,082	677	338	120	9	0
1	1,776	0	70	496	554	380	202	70	4	0
2	611	0	5	140	203	150	89	23	1	0
3	187	0	0	29	69	56	25	7	1	0
4	70	0	0	6	23	22	15	4	0	0
5 & Over	48	0	0	5	9	19	14	1	0	0
n.s.	1	0	0	1	0	0	0	0	0	0
Number of Living Children										
None	3,007	19	702	1,312	615	240	92	25	2	0
1	1,850	0	92	719	552	301	141	42	3	0
2	1,504	0	9	352	450	398	220	70	5	0
3	716	0	2	90	218	213	141	52	0	0
4	284	0	2	16	75	106	58	25	2	0
5 & Over	123	0	0	2	30	46	31	11	3	0
n.s.	1	0	0	1	0	0	0	0	0	0
Children Born Alive Now Dead										
None	7,414	19	806	2,477	1,916	1,288	671	222	15	0
1	48	0	1	9	15	12	8	3	0	0
2	15	0	0	5	4	2	4	0	0	0
3	4	0	0	0	3	1	0	0	0	0
4	3	0	0	0	2	1	0	0	0	0
5 & Over	0	0	0	0	0	0	0	0	0	0
n.s.	1	0	0	1	0	0	0	0	0	0
Spontaneous Terminations										
None	6,227	19	783	2,230	1,561	978	501	145	10	0
1	972	0	22	223	305	226	135	58	3	0
2	200	0	2	27	46	72	37	16	0	0
3	50	0	0	8	20	13	6	3	0	0
4	17	0	0	2	2	9	2	1	1	0
5 & Over	18	0	0	1	6	6	2	2	1	0
n.s.	1	0	0	1	0	0	0	0	0	0

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

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

‡ Refers to drug mifepristone

§ Refers to drug methotrexate

¶ Other procedures included Medical Non-Surgical (3 cases), Cesarean Section (1 case), Induction (1 case), and Unknown (1 cas

Table 39
Abortions by Selected Characteristics
by Age-Group of Patient
Kansas Residents, 2013

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	3,763	11	408	1,274	949	647	350	117	7	0
Population Group										
White Non-Hispanic	2,254	5	258	761	569	377	207	74	3	0
Black Non-Hispanic	604	0	52	216	155	117	45	17	2	0
Native American Non-Hispanic	43	0	6	15	9	9	3	1	0	0
Asian/Pacific Non-Hispanic	189	0	5	46	42	47	38	10	1	0
Other Non-Hispanic†	186	4	31	68	40	29	12	2	0	0
Hispanic Any Race	469	2	55	160	129	67	44	11	1	0
n.s.	18	0	1	8	5	1	1	2	0	0
Marital Status of Patient										
Married	572	0	9	107	143	151	121	37	4	0
Not Married	3,153	11	396	1,155	796	487	226	79	3	0
n.s.	38	0	3	12	10	9	3	1	0	0
Weeks Gestation										
Under 9	2,502	5	236	820	650	460	245	81	5	0
9-12	849	5	116	307	196	132	71	22	0	0
13-16	271	0	37	96	68	37	21	11	1	0
17-21	137	1	19	48	34	18	13	3	1	0
22 & Over	2	0	0	1	1	0	0	0	0	0
n.s.	2	0	0	2	0	0	0	0	0	0
Procedure										
Suction Curettage	2,113	8	229	672	528	391	211	70	4	0
Sharp Curettage	9	0	1	4	3	1	0	0	0	0
Dilation & Evac	267	1	34	97	62	34	28	10	1	0
Med Proc. 1‡	1,368	2	144	499	354	220	110	37	2	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	0	2	2	1	1	0	0	0
n.s.	0	0	0	0	0	0	0	0	0	0
Previous Pregnancies										
None	1,132	11	327	517	186	63	22	6	0	0
1	724	0	64	321	196	84	45	13	1	0
2	671	0	11	228	212	132	68	19	1	0
3	513	0	3	126	146	122	85	30	1	0
4	326	0	3	49	99	111	48	16	0	0
5 & Over	396	0	0	32	110	135	82	33	4	0
n.s.	1	0	0	1	0	0	0	0	0	0

Table 39
Abortions by Selected Characteristics
by Age-Group of Patient
Kansas Residents, 2013

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										
None	2,523	11	378	952	571	353	189	65	4	0
1	829	0	27	239	248	186	88	38	3	0
2	280	0	3	62	91	71	44	9	0	0
3	78	0	0	13	29	19	15	2	0	0
4	37	0	0	4	8	13	9	3	0	0
5 & Over	15	0	0	3	2	5	5	0	0	0
n.s.	1	0	0	1	0	0	0	0	0	0
Number of Living Children										
None	1,515	11	358	672	313	109	40	12	0	0
1	907	0	45	359	256	138	87	20	2	0
2	741	0	2	183	209	204	105	36	2	0
3	383	0	1	45	120	113	81	23	0	0
4	149	0	2	13	37	55	23	18	1	0
5 & Over	67	0	0	1	14	28	14	8	2	0
n.s.	1	0	0	1	0	0	0	0	0	0
Children Born Alive Now Dead										
None	3,707	11	407	1,261	930	636	340	115	7	0
1	37	0	1	9	12	7	6	2	0	0
2	13	0	0	3	4	2	4	0	0	0
3	3	0	0	0	2	1	0	0	0	0
4	2	0	0	0	1	1	0	0	0	0
5 & Over	0	0	0	0	0	0	0	0	0	0
n.s.	1	0	0	1	0	0	0	0	0	0
Spontaneous Terminations										
None	3,115	11	396	1,130	755	479	263	77	4	0
1	503	0	11	123	153	119	68	28	1	0
2	97	0	1	16	21	37	13	9	0	0
3	28	0	0	3	14	6	3	2	0	0
4	7	0	0	0	2	3	1	0	1	0
5 & Over	12	0	0	1	4	3	2	1	1	0
n.s.	1	0	0	1	0	0	0	0	0	0

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

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

‡ Refers to drug mifepristone

§ Refers to drug methotrexate

¶ Other procedures included three medical non-surgical, one cesearean, one induction, and one unknown procedure.

Table 40
Total Reported Abortions by Population Group
by Marital Status
Kansas, 2013

Population Group	Total		Marital Status				
			Married		Unmarried		
	Number	Percent	Number	Percent	Number	Percent	n.s.†
Total	7,485	100.0	999	13.5	6,416	86.5	70
White Non-Hispanic	4,426	100.0	605	13.7	3,796	86.3	25
Black Non-Hispanic	1,633	100.0	117	7.3	1,495	92.7	21
Native American Non-Hispanic	67	100.0	4	6.1	62	93.9	1
Asian/Pacific Non-Hispanic	266	100.0	127	48.5	135	51.5	4
Other Non-Hispanic*	326	100.0	28	8.6	296	91.4	2
Hispanic Any Race	737	100.0	108	15.0	613	85.0	16
n.s.†	30	100.0	10	n/a	19	n/a	2

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

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

Table 41
Total Reported Abortions by Population Group
by Weeks Gestation
Kansas, 2013

Population Group	Total		Weeks Gestation										
			Under 9		9-12		13-16		17-21		22 & Over		
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	n.s.**
Total	7,485	100.0	4,938	66.0	1,738	23.2	515	6.9	290	3.9	2	0.0	2
White Non-Hispanic	4,426	100.0	3,000	67.8	990	22.4	271	6.1	162	3.7	2	0.0	1
Black Non-Hispanic	1,633	100.0	944	57.8	468	28.7	145	8.9	75	4.6	0	0.0	1
Native American Non-Hispanic	67	100.0	31	46.3	23	34.3	9	13.4	4	6.0	0	0.0	0
Asian/Pacific Non-Hispanic	266	100.0	213	80.1	29	10.9	14	5.3	10	3.8	0	0.0	0
Other Non-Hispanic*	326	100.0	205	62.9	88	27.0	21	6.4	12	3.7	0	0.0	0
Hispanic Any Race	737	100.0	523	71.0	136	18.5	52	7.1	26	3.5	0	0.0	0
n.s.†	30	100.0	22	n/a	4	n/a	3	n/a	1	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, 2013

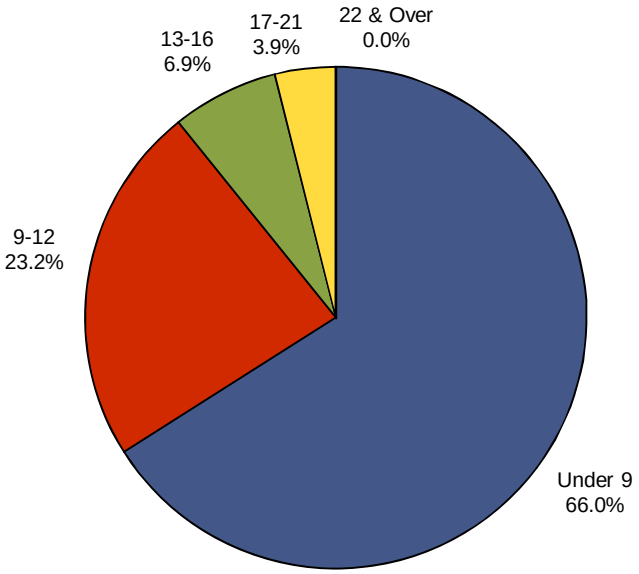


Figure 24

Table 42
Total Reported Abortions by Termination Procedure
by Weeks Gestation
Kansas, 2013

Termination Procedure	Total	Weeks Gestation					
		Under 9	9-12	13-16	17-21	22 & Over	n.s.*
Total	7,485	4,938	1,738	515	290	2	2
Suction Curettage	3,982	2,093	1,666	219	4	0	0
Sharp Curettage	9	8	0	0	1	0	0
Dilation & Evacuation	585	1	3	296	282	1	2
Medical Procedure I†	2,903	2,833	69	0	1	0	0
Medical Procedure II‡	0	0	0	0	0	0	0
Intra-Uterine	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	3	0	0	2	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 three medical non-surgical, one cesearean, one vaginal delivery, one induction, one misoprostol and one unknown procedure.

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DEATHS

Table 43
Deaths by County of Residence and by Peer Group‡
by Number, Crude* and Age-Adjusted Rate†
Kansas, 2009-2013

County of Residence	Year 2009 Number	2009 Crude Rate	2009 Age Adj. Rate	2010 Number	2010 Crude Rate	2010 Age Adj. Rate	2011 Number	2011 Crude Rate	2011 Age Adj. Rate	2012 Number	2012 Crude Rate	2012 Age Adj. Rate	2013 Number	2013 Crude Rate	2013 Age Adj. Rate	5-Year Crude Rate	5-Year Age Adj. Rate
Kansas	23,997	8.5	7.6	24,428	8.6	7.6	25,114	8.7	7.7	25,084	8.7	7.6	25,347	8.8	7.6	8.7	7.6
Allen	175	13.3	9.1	182	13.6	9.1	194	14.6	10.0	183	13.7	9.6	199	15.2	10.3	14.1	9.6
Anderson	107	13.6	9.1	95	11.7	7.0	106	13.1	8.7	96	12.1	7.6	93	11.8	7.8	12.5	8.0
Atchison	180	11.0	8.6	190	11.2	8.9	186	11.1	9.0	161	9.6	7.6	170	10.1	8.1	10.6	8.4
Barber	60	13.1	8.8	51	10.5	6.4	54	11.0	7.7	67	13.8	9.3	61	12.3	8.9	12.1	8.2
Barton	305	11.1	8.0	295	10.7	7.8	330	11.9	8.7	307	11.1	8.0	261	9.5	7.0	10.9	7.9
Bourbon	166	11.2	8.1	177	11.7	8.3	179	11.9	8.7	179	12.0	8.4	196	13.2	9.5	12.0	8.6
Brown	139	14.0	10.0	104	10.4	6.9	139	13.9	9.5	127	12.9	9.1	136	13.6	9.3	13.0	8.9
Butler	573	8.9	8.2	619	9.4	8.7	589	8.9	8.0	622	9.4	8.4	634	9.6	8.5	9.3	8.3
Chase	25	8.9	5.3	40	14.3	9.2	34	12.1	7.5	29	10.5	6.0	34	12.6	7.9	11.7	7.2
Chautauqua	53	14.2	8.0	53	14.4	8.2	64	17.9	9.7	52	14.6	8.5	60	16.9	9.1	15.6	8.6
Cherokee	265	12.6	10.2	278	12.9	10.5	280	13.1	10.8	270	12.7	10.3	247	11.8	9.1	12.6	10.2
Cheyenne	52	19.3	8.9	37	13.6	5.8	39	14.3	6.7	43	16.1	7.5	31	11.5	5.5	14.9	6.8
Clark	34	16.3	8.8	30	13.5	6.9	38	17.7	7.6	30	13.8	8.0	29	13.2	6.8	14.9	7.7
Clay	111	12.8	7.7	108	12.7	7.6	106	12.4	6.9	89	10.4	5.9	115	13.7	7.7	12.4	7.2
Cloud	155	16.7	9.1	130	13.6	7.6	129	13.8	7.8	131	13.9	8.1	121	13.0	7.7	14.2	8.1
Coffey	83	9.8	7.5	111	12.9	9.8	107	12.5	9.4	102	12.0	8.4	109	13.0	8.7	12.1	8.8
Comanche	27	14.4	6.5	39	20.6	11.7	29	15.4	10.5	23	12.0	6.7	34	17.4	10.1	16.0	9.1
Cowley	418	12.4	10.6	416	11.5	9.0	453	12.5	9.5	408	11.2	8.8	440	12.2	9.4	11.9	9.4
Crawford	366	9.4	8.0	439	11.2	9.2	430	11.0	9.1	418	10.6	8.7	383	9.8	8.2	10.4	8.6
Decatur	44	15.4	7.3	46	15.5	7.8	68	23.3	12.0	59	20.6	9.6	39	13.3	5.6	17.6	8.5
Dickinson	212	11.1	7.6	234	11.8	7.7	245	12.4	8.0	260	13.2	9.1	224	11.4	7.7	12.0	8.0
Doniphan	80	10.5	7.4	77	9.7	7.2	82	10.3	7.5	72	9.2	6.7	77	9.8	6.8	9.9	7.1
Douglas	588	5.1	6.0	627	5.7	7.1	590	5.3	6.4	645	5.7	6.8	650	5.7	6.6	5.5	6.6
Edwards	44	14.3	10.0	34	11.2	8.0	44	14.6	9.7	45	15.1	9.5	30	10.2	6.4	13.1	8.7
Elk	41	13.7	7.1	48	16.7	9.5	39	13.9	8.0	42	15.4	8.9	45	16.9	9.5	15.3	8.4
Ellis	243	8.8	7.3	225	7.9	6.6	233	8.1	6.9	259	8.9	7.5	246	8.5	6.9	8.4	7.0
Ellsworth	80	12.9	7.6	99	15.2	9.5	80	12.3	7.7	69	10.6	6.8	89	13.9	8.5	13.0	8.0
Finney	199	4.7	6.6	190	5.2	7.0	190	5.1	6.5	199	5.3	6.7	217	5.8	7.5	5.2	6.8
Ford	225	6.7	7.4	266	7.9	8.5	234	6.8	7.5	218	6.3	6.9	244	7.0	7.7	6.9	7.6
Franklin	242	9.2	8.6	245	9.4	8.2	232	8.9	7.6	251	9.7	8.4	256	9.9	8.5	9.4	8.3
Geary	218	6.9	8.2	204	5.9	8.4	196	5.5	8.1	198	5.2	8.2	199	5.3	8.3	5.7	8.2
Gove	51	20.6	10.3	26	9.6	4.5	39	14.5	8.0	34	12.5	5.9	50	18.1	9.9	15.0	7.7
Graham	36	14.8	7.4	39	15.0	7.6	32	12.1	7.4	39	15.1	9.4	20	7.7	3.8	12.9	7.1
Grant	40	5.4	6.2	57	7.3	8.9	45	5.7	7.0	69	8.7	10.5	40	5.0	5.7	6.4	7.6
Gray	49	8.2	7.2	54	9.0	8.5	43	7.0	6.5	47	7.8	6.9	44	7.3	6.4	7.9	7.0
Greeley	15	12.2	8.0	14	11.2	5.9	12	9.5	4.8	18	13.9	6.9	16	12.4	8.7	11.9	6.9
Greenwood	79	11.9	7.3	95	14.2	8.9	88	13.2	8.1	110	17.0	10.5	97	15.1	9.0	14.3	8.7
Hamilton	31	11.8	8.6	28	10.4	9.2	33	12.4	11.1	33	12.5	11.5	26	10.0	9.5	11.4	9.7
Harper	107	18.9	10.2	101	16.7	9.7	96	16.0	9.4	81	13.7	8.2	76	13.0	7.7	15.6	9.1
Harvey	335	9.8	6.5	399	11.5	7.8	379	10.9	7.0	392	11.2	7.4	399	11.5	7.6	11.0	7.3
Haskell	25	6.2	5.9	28	6.6	7.4	29	6.8	7.0	19	4.5	4.8	31	7.5	7.6	6.3	6.6
Hodgeman	26	13.6	8.8	17	8.9	5.4	17	8.6	5.6	11	5.6	3.5	20	10.3	5.7	9.4	5.7
Jackson	136	10.1	8.2	118	8.8	7.0	136	10.1	8.2	120	8.9	6.9	125	9.4	7.1	9.5	7.5
Jefferson	138	7.6	6.3	183	9.6	8.1	182	9.6	7.8	190	10.0	8.1	169	9.0	7.1	9.2	7.5
Jewell	41	13.4	6.7	35	11.4	5.9	46	14.9	7.0	40	13.1	6.0	43	14.1	7.2	13.4	6.5
Johnson	3,234	6.0	6.1	3,300	6.1	6.2	3,443	6.2	6.2	3,546	6.3	6.2	3,714	6.6	6.3	6.2	6.2
Kearny	38	9.1	9.8	34	8.5	7.7	49	12.3	11.2	46	11.6	10.0	50	12.7	10.9	10.8	9.9
Kingman	105	13.9	8.6	81	10.3	6.1	90	11.5	6.9	108	13.7	8.5	99	12.6	7.3	12.4	7.5
Kiowa	29	12.5	8.0	22	8.6	5.5	29	11.4	7.2	29	11.6	6.9	30	11.9	7.5	11.2	6.9
Labette	254	11.7	8.6	249	11.5	8.7	269	12.5	9.2	280	13.2	9.5	260	12.4	9.1	12.3	9.0
Lane	25	14.4	8.2	16	9.1	5.8	32	18.3	10.8	23	13.5	8.1	17	9.9	5.5	13.0	7.6
Leavenworth	521	6.9	7.9	554	7.3	7.8	566	7.3	7.7	557	7.2	7.3	564	7.2	7.3	7.2	7.6
Lincoln	44	14.1	8.2	40	12.3	7.8	52	16.2	8.7	35	11.0	6.4	31	9.9	5.0	12.7	7.2
Linn	114	12.2	9.1	109	11.3	7.7	107	11.1	7.4	127	13.5	9.1	114	12.0	8.8	12.0	8.4
Logan	30	11.8	7.3	29	10.5	6.3	34	12.2	7.7	34	12.2	6.6	41	14.7	8.2	12.3	7.1

Table 43
Deaths by County of Residence and by Peer Group‡
by Number, Crude* and Age-Adjusted Rate†
Kansas, 2009-2013

County of Residence	Year 2009 Number	2009 Crude Rate	2009 Age Adj. Rate	2010 Number	2010 Crude Rate	2010 Age Adj. Rate	2011 Number	2011 Crude Rate	2011 Age Adj. Rate	2012 Number	2012 Crude Rate	2012 Age Adj. Rate	2013 Number	2013 Crude Rate	2013 Age Adj. Rate	5-Year Crude Rate	5-Year Age Adj. Rate
Lyon	274	8.2	7.0	263	7.8	7.2	330	9.8	9.1	256	7.6	7.0	295	8.8	8.0	8.4	7.6
McPherson	357	12.4	8.1	348	11.9	7.3	374	12.8	7.8	364	12.4	7.5	380	12.9	7.8	12.5	7.7
Marion	152	12.7	7.1	141	11.1	6.2	185	14.8	8.1	153	12.4	6.8	166	13.6	7.6	12.9	7.2
Marshall	121	12.0	7.1	131	12.9	7.1	131	13.1	7.2	140	14.0	7.5	121	12.1	6.5	12.8	7.1
Meade	49	11.1	7.8	50	10.9	7.2	54	11.9	8.2	43	9.8	6.4	55	12.7	7.6	11.3	7.4
Miami	245	7.9	8.4	290	8.8	8.3	261	8.0	7.4	236	7.2	6.4	253	7.7	6.6	7.9	7.3
Mitchell	104	16.4	9.2	99	15.5	8.4	75	11.9	6.9	99	15.6	8.7	96	15.1	9.4	14.9	8.5
Montgomery	418	12.2	8.6	456	12.9	9.1	467	13.4	9.4	439	12.7	9.3	400	11.7	8.2	12.6	8.9
Morris	78	13.0	7.4	71	12.0	6.4	88	14.9	8.4	80	13.7	8.2	68	11.8	6.1	13.1	7.3
Morton	36	11.9	9.3	36	11.1	7.6	50	15.6	10.1	26	8.2	5.3	42	13.4	9.5	12.0	8.3
Nemaha	104	10.4	6.0	135	13.3	7.0	142	14.0	7.6	130	12.8	6.7	134	13.2	7.3	12.8	6.9
Neosho	182	11.3	8.5	196	11.9	8.4	220	13.4	9.4	187	11.4	7.8	197	12.0	8.4	12.0	8.5
Ness	45	15.9	8.7	37	11.9	5.7	42	13.5	6.1	38	12.4	6.8	48	15.6	9.2	13.8	7.1
Norton	66	12.4	7.9	65	11.5	6.9	51	9.1	6.4	57	10.2	6.4	61	10.9	7.4	10.8	7.0
Osage	200	12.4	10.2	164	10.1	7.6	175	10.7	8.2	169	10.5	7.6	189	11.7	8.7	11.1	8.4
Osborne	49	12.7	5.9	46	11.9	5.5	63	16.4	8.0	63	16.6	8.6	65	17.0	8.6	14.9	7.3
Ottawa	66	11.0	7.3	72	11.8	9.1	68	11.1	8.2	67	11.0	8.4	70	11.6	8.8	11.3	8.3
Pawnee	80	12.9	10.2	73	10.5	7.2	73	10.4	7.2	77	11.1	7.5	72	10.3	6.9	11.0	7.7
Phillips	70	13.3	7.2	70	12.4	7.5	94	16.9	10.0	67	12.1	7.0	74	13.4	9.2	13.6	8.1
Pottawatomie	170	8.5	7.8	146	6.8	6.5	137	6.3	6.0	165	7.4	6.9	176	7.8	7.4	7.3	6.9
Pratt	95	10.2	6.8	121	12.5	7.7	128	13.2	8.7	113	11.6	7.6	135	13.7	9.2	12.3	8.0
Rawlins	31	12.8	6.9	35	13.9	6.4	32	12.7	6.6	33	12.9	6.3	50	19.3	8.9	14.4	7.0
Reno	692	10.9	7.8	685	10.6	7.6	731	11.3	7.9	763	11.8	8.4	772	12.0	8.2	11.3	8.0
Republic	82	17.1	7.4	80	16.1	7.5	95	19.4	8.5	92	18.9	8.2	88	18.3	8.8	17.9	8.1
Rice	118	11.7	8.4	121	12.0	8.4	130	12.9	9.1	141	14.1	9.9	129	12.9	9.2	12.7	9.0
Riley	329	4.6	6.6	312	4.4	6.3	334	4.6	6.8	314	4.2	6.0	313	4.2	6.1	4.4	6.3
Rooks	73	14.6	8.1	56	10.8	7.0	63	12.2	7.7	65	12.4	8.2	62	11.9	7.0	12.4	7.6
Rush	35	11.1	4.8	46	13.9	7.7	50	15.4	8.4	55	17.1	8.1	45	14.1	7.0	14.4	7.2
Russell	86	13.0	7.1	105	15.1	8.6	91	13.1	7.1	103	14.8	8.7	84	12.1	6.2	13.6	7.5
Saline	461	8.5	7.0	518	9.3	7.8	527	9.4	7.9	534	9.5	7.9	544	9.8	7.8	9.3	7.7
Scott	65	14.3	10.4	56	11.3	7.1	65	13.2	9.5	67	13.6	9.3	47	9.3	6.8	12.3	8.6
Sedgwick	3,898	7.9	8.0	3,920	7.9	7.9	4,027	8.0	8.0	4,027	8.0	7.9	4,111	8.1	7.9	8.0	7.9
Seward	144	6.3	7.7	134	5.8	7.6	124	5.3	7.4	136	5.8	7.5	121	5.2	6.7	5.7	7.3
Shawnee	1,660	9.4	8.1	1,641	9.2	7.7	1,687	9.4	7.9	1,751	9.8	8.0	1,714	9.6	7.7	9.5	7.9
Sheridan	31	12.7	8.2	35	13.7	7.1	32	12.5	6.7	32	12.6	7.4	23	9.0	5.8	12.1	6.9
Sherman	84	14.3	9.9	62	10.3	7.1	78	12.9	9.3	63	10.3	7.3	88	14.4	10.1	12.4	8.7
Smith	53	14.1	6.0	63	16.4	8.4	60	15.6	6.4	63	16.7	7.5	68	18.3	8.6	16.2	7.4
Stafford	53	12.2	6.4	68	15.3	8.8	63	14.4	8.9	57	13.1	7.3	54	12.4	7.7	13.5	7.8
Stanton	19	9.0	7.4	17	7.6	5.4	16	7.1	5.4	21	9.7	7.9	12	5.5	4.1	7.8	6.0
Stevens	41	8.0	7.1	52	9.1	8.0	43	7.7	6.2	47	8.2	6.9	45	7.7	6.6	8.1	7.0
Sumner	260	11.1	8.6	276	11.4	8.9	290	12.2	9.1	271	11.4	8.6	257	10.9	8.1	11.4	8.7
Thomas	69	9.4	7.8	87	11.0	8.1	61	7.6	5.9	66	8.3	6.2	81	10.2	7.2	9.3	7.0
Trego	49	16.8	8.6	47	15.7	8.2	49	16.7	9.3	47	15.7	8.1	40	13.4	6.7	15.7	8.2
Wabaunsee	51	7.4	6.2	76	10.8	8.8	75	10.7	8.9	72	10.2	8.1	73	10.4	7.7	9.9	7.9
Wallace.	16	11.4	6.3	21	14.1	7.3	17	11.1	6.4	17	11.2	6.2	19	12.1	8.0	12.0	6.9
Washington	87	15.3	7.2	73	12.6	6.8	70	12.0	5.8	71	12.3	6.5	73	13.0	7.3	13.0	6.8
Wichita	29	13.8	10.1	22	9.8	7.0	25	11.0	7.8	26	11.5	7.7	29	13.2	8.2	11.8	8.1
Wilson	138	14.6	9.0	129	13.7	9.1	115	12.4	8.5	138	15.2	10.2	131	14.4	9.9	14.0	9.3
Woodson	60	18.5	11.5	49	14.8	9.2	50	15.2	9.1	50	15.3	8.4	65	20.2	11.8	16.8	10.0
Wyandotte	1,309	8.4	9.2	1,308	8.3	9.0	1,338	8.5	9.0	1,351	8.5	9.1	1,367	8.5	9.1	8.4	9.1
n.s.	0	n/a	n/a	7	n/a	n/a	1	n/a	n/a	0	n/a	n/a	0	n/a	n/a	n/a	n/a
Peer Group																	
Frontier	1,135	13.3	7.6	1,414	12.4	7.3	1,566	13.8	8.2	1,491	13.3	7.7	1,504	13.4	7.8	13.2	7.7
Rural	3,326	12.3	7.9	2,883	12.1	7.7	2,907	12.2	7.9	2,895	12.3	8.4	2,880	12.2	7.9	12.2	7.8
Densely -Settled Rural	4,173	9.8	8.2	4,607	9.7	8.0	4,843	10.1	8.4	4,654	9.7	8.0	4,690	9.8	8.0	9.8	8.1
Semi-Urban	4,674	8.4	7.6	4,167	9.1	8.1	4,146	9.0	7.9	4,167	8.9	7.9	4,153	8.9	7.8	8.8	7.9
Urban	10,689	7.2	7.3	11,350	7.3	7.3	11,651	7.4	7.3	11,877	7.5	7.3	12,120	7.6	7.3	7.4	7.3

* Rate per 1,000 population

† Rate per 1,000 standard U.S. 2000 population (see Technical Notes)

‡ 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.

Table 44
Deaths by Selected City of Residence
by Number and Crude Rate*
Kansas, 2009-2013

City of Residence	Year 2009 Number	2009 Rate	2010 Number	2010 Rate	2011 Number	2011 Rate	2012 Number	2012 Rate	2013 Number	2013 Rate	5-Year Rate
Abilene	96	15.3	94	13.7	100	14.6	106	15.7	92	13.8	14.6
Andover	80	7.6	78	6.6	97	8.2	99	8.2	110	9.0	7.9
Arkansas City	146	13.3	163	13.1	171	13.8	147	11.9	160	13.0	13.0
Atchison	129	12.4	136	12.3	148	13.5	121	11.0	120	11.0	12.0
Augusta	122	14.0	106	11.4	116	12.5	109	11.8	105	11.4	12.2
Baldwin City	33	7.5	45	10.0	40	8.8	37	8.2	46	10.1	8.9
Basehor	22	5.0	34	7.3	30	6.4	34	7.1	43	8.8	7.0
Baxter Springs	59	14.2	68	16.0	71	16.9	64	15.4	55	13.3	15.2
Bel Aire	54	7.9	60	8.9	43	6.3	61	8.9	57	8.2	8.0
Beloit	62	16.9	58	15.1	45	11.9	65	17.0	63	16.4	15.4
Bonner Springs	46	6.3	66	9.0	63	8.6	61	8.2	70	9.4	8.3
Burlington	36	13.5	39	14.6	52	19.6	36	13.6	53	20.2	16.3
Chanute	95	10.9	123	13.5	129	14.2	124	13.5	117	12.6	13.0
Clay Center	67	15.3	70	16.2	75	17.2	61	14.1	70	16.5	15.9
Coffeyville	160	15.6	176	17.1	200	19.7	181	18.1	147	14.8	17.1
Colby	53	11.0	62	11.5	48	8.8	54	10.0	62	11.4	10.5
Columbus	56	17.6	49	14.8	56	17.1	55	16.9	44	13.7	16.0
Concordia	105	20.6	68	12.6	75	14.1	88	16.5	80	15.2	15.8
Derby	123	5.4	163	7.4	171	7.7	164	7.1	176	7.6	7.0
De Soto	39	7.1	40	7.0	44	7.6	45	7.7	69	11.7	8.2
Dodge City	174	6.7	196	7.2	164	5.9	159	5.7	173	6.1	6.3
Edwardsville	38	8.4	39	9.0	47	10.8	49	11.2	61	14.0	10.7
El Dorado	164	13.0	190	14.6	152	11.7	166	12.9	174	13.5	13.1
Ellsworth	42	14.9	51	16.3	30	9.6	30	9.6	48	15.6	13.2
Emporia	202	8.1	202	8.1	257	10.3	198	7.9	225	9.1	8.7
Eudora	44	7.0	36	5.9	42	6.8	53	8.6	43	6.9	7.0
Eureka	35	14.1	50	19.0	57	21.8	52	20.5	51	20.2	19.1
Fairway	21	5.4	27	7.0	14	3.5	22	5.6	22	5.6	5.4
Fort Scott	113	14.2	118	14.6	115	14.4	108	13.6	138	17.4	14.8
Frontenac	41	12.8	57	16.6	52	15.1	43	12.4	46	13.4	14.1
Galena	36	11.5	64	20.7	50	16.4	56	18.5	58	19.4	17.3
Garden City	170	6.0	162	6.1	159	5.9	166	6.2	174	6.5	6.1
Gardner	88	4.9	82	4.3	84	4.3	87	4.3	83	4.1	4.4
Garnett	50	15.8	60	17.6	61	17.9	54	16.2	49	14.8	16.5
Girard	32	11.8	45	16.1	45	16.1	44	15.7	36	13.0	14.6
Goddard	21	5.2	38	8.6	43	9.8	26	5.7	41	8.9	7.7
Goodland	77	18.0	51	11.4	67	14.8	54	11.8	71	15.6	14.3
Great Bend	180	11.5	169	10.6	187	11.6	197	12.4	174	10.9	11.4
Hays	165	8.1	156	7.6	165	8.0	193	9.2	187	8.9	8.4
Haysville	89	8.5	92	8.5	103	9.5	113	10.3	122	11.1	9.6
Herington	45	18.8	39	15.4	36	14.3	47	18.9	34	13.9	16.2
Hesston	46	12.0	40	10.8	53	14.2	50	13.4	59	15.8	13.2
Hiawatha	47	14.8	33	10.4	62	19.5	50	16.0	64	20.1	16.2
Hillsboro	51	19.5	37	12.4	52	17.5	41	14.0	44	15.2	15.6
Hoisington	39	13.9	37	13.7	40	14.7	34	12.6	25	9.3	12.9
Holton	57	17.3	44	13.2	46	13.8	59	17.9	66	20.1	16.5
Hugoton	32	9.3	47	12.0	36	9.4	39	9.9	31	7.8	9.7
Hutchinson	479	11.7	500	11.9	513	12.2	527	12.6	544	13.0	12.3
Independence	122	13.3	123	13.0	109	11.7	122	13.2	142	15.4	13.3
Iola	77	13.5	81	14.2	92	16.2	97	17.0	92	16.4	15.4
Junction City	176	8.4	166	7.1	159	6.6	159	6.2	168	6.6	6.9
Kansas City	1,178	8.2	1,184	8.1	1,217	8.3	1,230	8.4	1,233	8.3	8.3

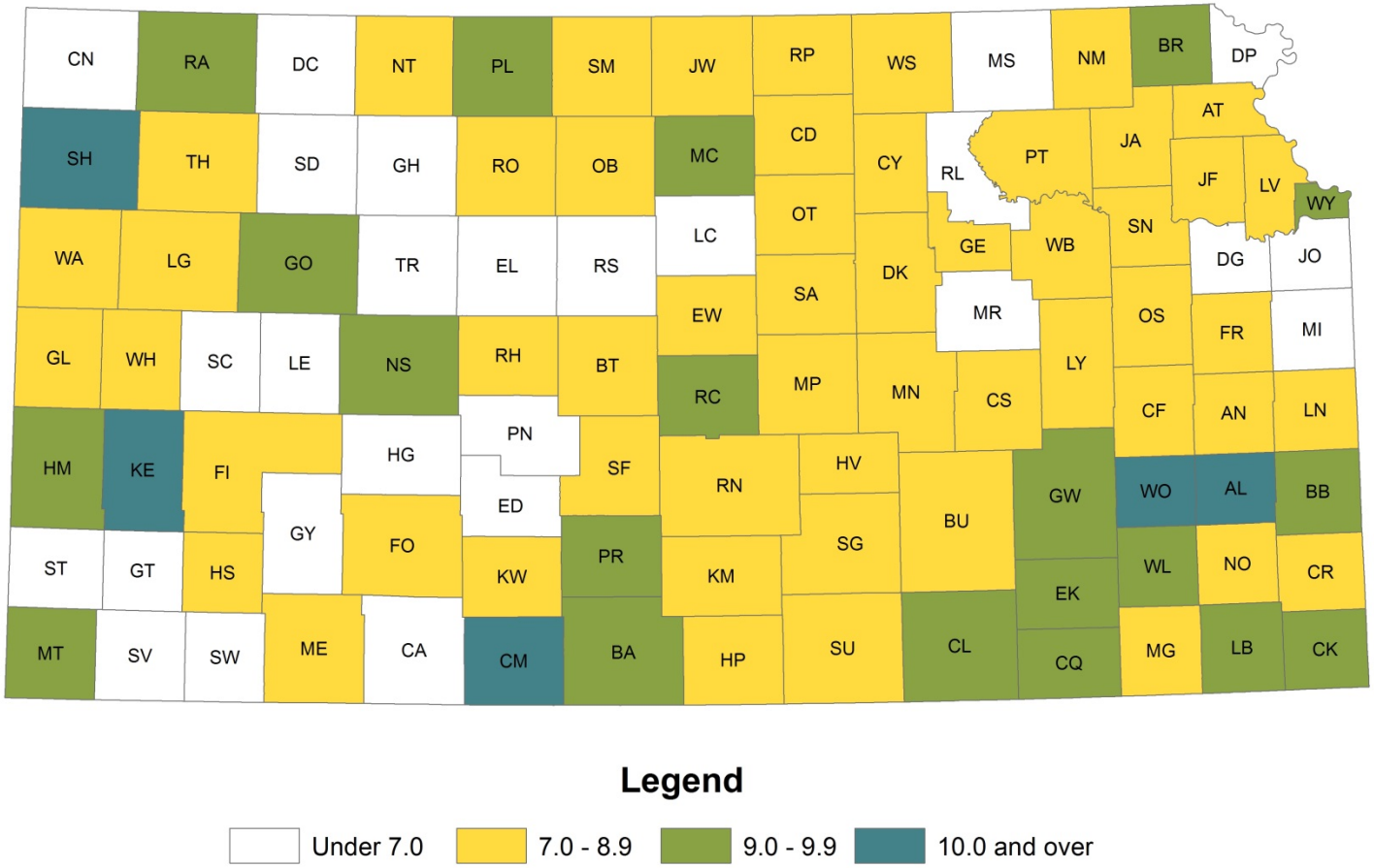
Table 44
Deaths by Selected City of Residence
by Number and Crude Rate*
Kansas, 2009-2013

City of Residence	Year 2009 Number	2009 Rate	2010 Number	2010 Rate	2011 Number	2011 Rate	2012 Number	2012 Rate	2013 Number	2013 Rate	5-Year Rate
Kingman	48	16.4	41	12.9	50	15.7	49	15.5	50	15.8	15.2
Lansing	67	6.2	71	6.3	69	6.1	61	5.3	64	5.5	5.9
Larned	60	16.9	55	13.6	51	12.5	61	15.2	50	12.4	14.0
Lawrence	434	4.7	482	5.5	442	5.0	487	5.4	489	5.4	5.2
Leavenworth	262	7.5	256	7.3	280	7.8	264	7.4	273	7.6	7.5
Leawood	231	7.3	217	6.8	257	7.9	252	7.7	243	7.4	7.4
Lenexa	282	5.9	287	6.0	312	6.4	338	6.8	357	7.1	6.4
Liberal	129	6.4	118	5.7	112	5.4	123	5.8	116	5.5	5.8
Lindsborg	36	11.2	54	15.6	53	15.3	56	16.2	51	14.7	14.6
Louisburg	30	7.7	40	9.3	37	8.6	25	5.8	41	9.5	8.2
Lyons	45	13.2	55	14.7	43	11.5	58	15.5	51	13.6	13.7
McPherson	138	10.4	130	9.9	167	12.7	143	10.8	160	12.0	11.1
Maize	17	5.1	21	6.0	15	4.4	17	4.6	18	4.7	4.9
Manhattan	261	4.9	252	4.8	275	5.1	260	4.6	256	4.6	4.8
Marysville	51	16.4	61	18.5	58	17.8	52	15.8	51	15.5	16.8
Merriam	106	9.5	116	10.5	132	11.8	113	10.1	118	10.5	10.5
Mission	80	8.1	70	7.5	96	10.1	82	8.7	102	10.7	9.0
Mission Hills	17	4.7	15	4.3	17	4.8	17	4.8	18	5.0	4.7
Mulvane	63	10.7	58	9.5	52	8.5	68	10.9	49	7.8	9.4
Newton	171	9.3	236	12.3	193	10.0	224	11.7	217	11.4	10.9
Norton	42	15.8	49	16.7	33	11.3	43	15.0	44	15.3	14.8
Olathe	560	4.6	547	4.3	622	4.9	660	5.1	681	5.2	4.8
Osage City	56	20.2	40	13.6	51	17.3	45	15.5	44	15.2	16.3
Osawatomie	55	12.1	71	16.0	54	12.2	50	11.4	51	11.6	12.7
Ottawa	135	10.5	136	10.8	123	9.7	152	12.1	144	11.5	10.9
Overland Park	1,021	5.8	1,156	6.7	1,153	6.5	1,198	6.7	1,267	7.0	6.6
Paola	50	9.4	69	12.3	60	10.7	55	9.9	78	13.9	11.3
Park City	24	3.0	18	2.5	21	2.9	30	4.0	37	4.9	3.5
Parsons	148	13.5	140	13.3	135	12.9	153	14.8	152	15.0	13.9
Phillipsburg	29	12.3	40	15.5	53	20.8	33	13.1	42	16.5	15.7
Pittsburg	153	7.8	201	9.9	202	10.0	204	10.0	189	9.3	9.4
Prairie Village	190	8.8	194	9.0	174	8.0	178	8.2	189	8.6	8.5
Pratt	73	11.6	104	15.2	105	15.3	98	14.2	109	15.6	14.4
Roeland Park	40	5.7	42	6.2	33	4.8	39	5.7	46	6.7	5.8
Rose Hill	30	7.3	31	7.9	38	9.7	43	10.9	36	9.1	9.0
Russell	64	15.3	76	16.9	60	13.3	79	17.6	61	13.6	15.4
Sabetha	33	13.5	45	17.5	59	23.1	51	19.9	45	17.5	18.3
St Marys	20	8.7	21	8.0	16	6.0	16	6.0	22	8.2	7.3
Salina	413	8.9	464	9.7	472	9.9	479	10.0	494	10.3	9.8
Scott City	60	17.2	48	12.6	55	14.5	59	15.5	39	10.0	13.9
Shawnee	321	5.2	375	6.0	343	5.4	375	5.9	389	6.0	5.7
Spring Hill	32	6.1	39	7.2	42	7.7	42	7.5	43	7.5	7.2
Tonganoxie	46	10.4	61	12.2	56	11.1	58	11.4	55	10.6	11.2
Topeka	1,377	11.1	1,371	10.8	1,405	11.0	1,452	11.3	1,414	11.1	11.0
Ulysses	34	6.2	47	7.6	38	6.1	59	9.5	37	5.9	7.1
Valley Center	53	8.0	53	7.8	43	6.3	67	9.6	50	7.1	7.8
Wamego	40	9.1	39	8.9	35	7.9	45	10.0	56	12.2	9.7
Wellington	97	12.6	99	12.1	119	14.8	108	13.5	110	13.8	13.4
Wichita	3,164	8.5	3,203	8.4	3,258	8.5	3,233	8.4	3,293	8.5	8.5
Winfield	167	15.0	169	13.7	173	14.1	154	12.5	198	16.1	14.2

*Rate per 1,000 population, based on US Census Bureau Estimates.

Age-Adjusted Death Rates
By County of Residence

Kansas, 2013



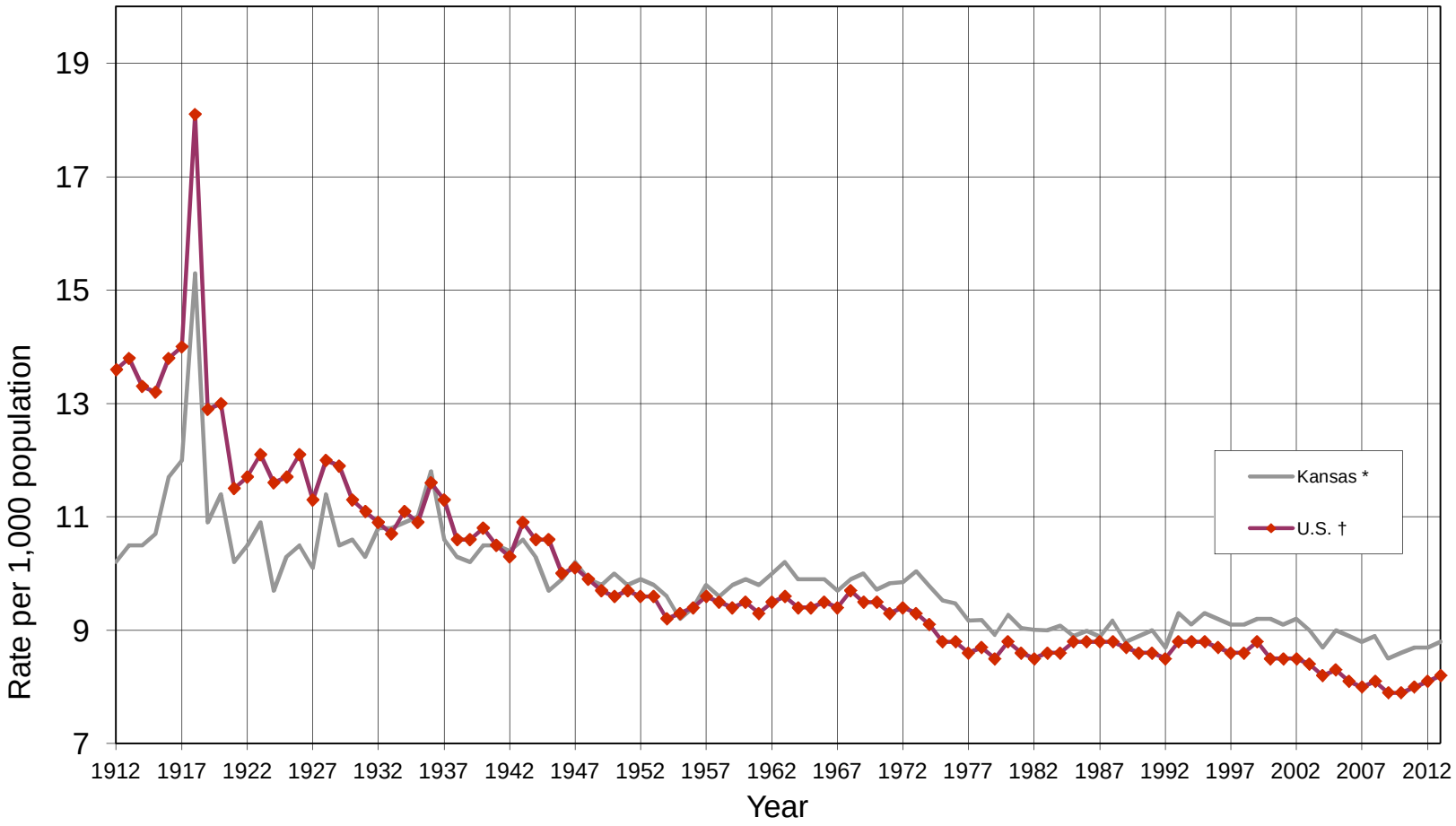
Legend

Under 7.0 | 7.0 - 8.9 | 9.0 - 9.9 | 10.0 and over

Figure 25

Crude Death Rates

Kansas and the U.S., 1912-2013



*1912-1936 Occurrence data

1937-2013 Residence data

†2011-2013 Rates Provisional

Figure 26

Table 45
Stillbirths by Cause of Death and Weeks Gestation
Kansas, 2013

Cause of Death*	Total Stillbirths	Weeks Gestation				
		Under 20	20-31	32-41	42 & Over	n.s.
All Causes	173	1	91	81	0	0
Certain Conditions Originating in the Perinatal Period	147	1	81	65	0	0
-Fetus Affected by Maternal Conditions	16	0	8	8	0	0
-Fetus Affected by Maternal Complications of Pregnancy	13	0	8	5	0	0
-Fetus Affected by Complications of Placenta, Cord & Membrane	46	0	22	24	0	0
-Fetus Affected by Complications of Labor & Delivery	1	0	0	1	0	0
-Disorders Related to Short Gestation & Low Birth Weight	7	0	7	0	0	0
-Hypoxia and Birth Asphyxia	1	0	1	0	0	0
-Cardiovascular Disorders	1	0	0	1	0	0
-Hemorrhagic & Hematologic Disorders of Fetus	0	0	0	0	0	0
-Unspecified Cause	48	1	28	19	0	0
-Other Perinatal Conditions	14	0	7	7	0	0
Congenital Anomalies	24	0	9	15	0	0
All other Causes	2	0	1	1	0	0

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

Table 46
Perinatal Period III Deaths by Component
Kansas, 1994-2013

Year	Stillbirths	Hebdomadal Deaths	Perinatal Period III Deaths	
			Number	Rate*
1994	231	140	371	9.9
1995	183	134	317	8.5
1996	179	157	336	9.2
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

*Rate per 1,000 live births + stillbirths

Table 47
Perinatal Period III Deaths by County of Residence
by Component
Kansas, 2013

County of Residence	Total	Perinatal Period III Deaths		County of Residence	Total	Perinatal Period III Deaths	
		Stillbirths	Hebdomadal Deaths			Stillbirths	Hebdomadal Deaths
Kansas	313	173	140				
Allen	2	2	0	Lyon	8	6	2
Anderson	2	0	2	McPherson	2	1	1
Atchison	0	0	0	Marion	0	0	0
Barber	0	0	0	Marshall	0	0	0
Barton	1	1	0	Meade	0	0	0
Bourbon	1	1	0	Miami	0	0	0
Brown	1	0	1	Mitchell	0	0	0
Butler	3	0	3	Montgomery	4	4	0
Chase	0	0	0	Morris	0	0	0
Chautauqua	0	0	0	Morton	0	0	0
Cherokee	2	2	0	Nemaha	4	2	2
Cheyenne	0	0	0	Neosho	2	2	0
Clark	0	0	0	Ness	0	0	0
Clay	0	0	0	Norton	2	0	2
Cloud	1	1	0	Osage	2	1	1
Coffey	0	0	0	Osborne	1	1	0
Comanche	1	1	0	Ottawa	0	0	0
Cowley	7	3	4	Pawnee	1	1	0
Crawford	6	5	1	Phillips	1	1	0
Decatur	1	1	0	Pottawatomie	3	2	1
Dickinson	3	2	1	Pratt	0	0	0
Doniphan	0	0	0	Rawlins	0	0	0
Douglas	8	4	4	Reno	9	3	6
Edwards	0	0	0	Republic	1	0	1
Elk	1	0	1	Rice	0	0	0
Ellis	2	1	1	Riley	5	1	4
Ellsworth	0	0	0	Rooks	1	1	0
Finney	7	4	3	Rush	1	1	0
Ford	7	3	4	Russell	0	0	0
Franklin	1	1	0	Saline	6	2	4
Geary	7	4	3	Scott	0	0	0
Gove	1	1	0	Sedgwick	72	35	37
Graham	0	0	0	Seward	3	1	2
Grant	0	0	0	Shawnee	17	11	6
Gray	1	0	1	Sheridan	1	0	1
Greeley	0	0	0	Sherman	0	0	0
Greenwood	0	0	0	Smith	0	0	0
Hamilton	0	0	0	Stafford	0	0	0
Harper	3	1	2	Stanton	0	0	0
Harvey	3	1	2	Stevens	0	0	0
Haskell	0	0	0	Sumner	0	0	0
Hodgeman	0	0	0	Thomas	1	1	0
Jackson	0	0	0	Trego	0	0	0
Jefferson	0	0	0	Wabaunsee	1	1	0
Jewell	0	0	0	Wallace	0	0	0
Johnson	55	29	26	Washington	0	0	0
Kearny	0	0	0	Wichita	0	0	0
Kingman	0	0	0	Wilson	3	2	1
Kiowa	1	1	0	Woodson	0	0	0
Labette	3	1	2	Wyandotte	24	19	5
Lane	0	0	0				
Leavenworth	7	4	3				
Lincoln	0	0	0				
Linn	0	0	0				
Logan	0	0	0				

Table 48
Infant Mortality Rates*
by Population Group
Kansas, 1994-2013

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	
1994	30,453	215	7.1	3,101	49	15.8	2,656	15	5.6	7.6
1995	30,221	184	6.1	2,850	51	17.9	2,812	17	6.0	6.9
1996	29,473	212	7.2	2,738	63	23.0	3,198	18	5.6	8.2
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

*Rate per 1,000 live births
†Due to changes in the collection of the race item on certificates, use caution when comparing 2005-2013 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.

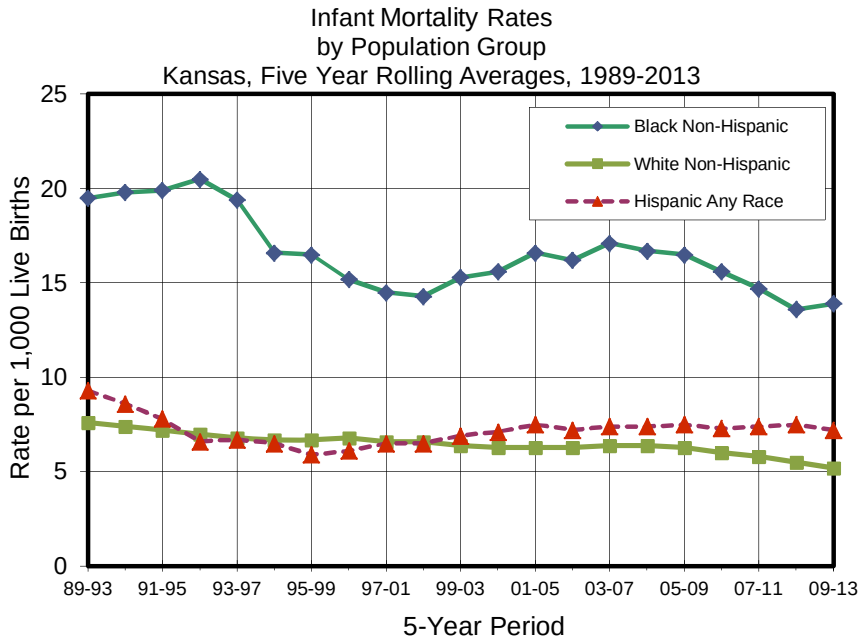


Figure 27

Table 49
Infant Deaths by County of Residence and by Peer Group*
by Year of Death
Kansas, 2009-2013

County of Residence	Year 2009	2010	2011	2012	2013	Total Infant Deaths 2009-2013	Infant Death Rate† 2009-2013
Kansas	290	253	247	254	248	1,292	6.4
Allen	1	0	2	1	0	4	5.3
Anderson	1	0	0	0	2	3	6.0
Atchison	2	1	3	2	1	9	8.5
Barber	0	0	0	0	0	0	0.0
Barton	1	3	6	2	1	13	7.0
Bourbon	1	2	1	2	0	6	5.6
Brown	0	0	3	1	1	5	7.1
Butler	3	8	3	3	6	23	5.9
Chase	0	0	0	0	0	0	0.0
Chautauqua	1	1	1	0	0	3	17.2
Cherokee	1	2	3	0	0	6	5.0
Cheyenne	1	0	0	1	0	2	13.6
Clark	0	0	1	0	0	1	8.2
Clay	3	1	1	1	1	7	13.1
Cloud	0	1	1	1	0	3	4.9
Coffey	0	1	2	0	0	3	6.9
Comanche	0	0	0	0	0	0	0.0
Cowley	4	5	4	1	4	18	7.6
Crawford	2	2	2	3	3	12	4.7
Decatur	0	0	0	1	0	1	6.5
Dickinson	1	1	2	4	2	10	8.4
Doniphan	0	0	0	0	0	0	0.0
Douglas	1	4	1	6	5	17	2.7
Edwards	0	0	1	2	0	3	16.7
Elk	1	0	0	0	1	2	13.7
Ellis	1	1	5	2	1	10	5.1
Ellsworth	0	0	0	1	0	1	3.1
Finney	6	2	2	7	6	23	6.4
Ford	5	7	5	7	5	29	8.5
Franklin	1	1	2	3	1	8	4.9
Geary	10	9	8	4	6	37	7.5
Gove	0	0	0	1	0	1	6.3
Graham	1	0	0	1	0	2	15.3
Grant	0	0	0	2	0	2	3.1
Gray	1	0	1	0	2	4	8.6
Greeley	0	0	0	0	0	0	0.0
Greenwood	0	0	0	1	1	2	6.5
Hamilton	0	0	0	0	0	0	0.0
Harper	1	1	0	0	2	4	10.7
Harvey	4	3	2	3	4	16	7.1
Haskell	1	2	1	1	0	5	16.3
Hodgeman	0	0	0	0	0	0	0.0
Jackson	1	1	1	2	0	5	6.1
Jefferson	1	4	2	2	2	11	11.4
Jewell	0	0	0	0	0	0	0.0
Johnson	41	31	36	31	34	173	4.7
Kearny	1	0	1	0	0	2	6.6
Kingman	0	0	2	0	0	2	4.8
Kiowa	2	1	0	0	0	3	18.1
Labette	3	4	3	2	2	14	10.1
Lane	0	0	0	0	0	0	0.0
Leavenworth	5	4	3	2	5	19	4.0
Lincoln	0	0	0	0	0	0	0.0
Linn	0	0	0	2	0	2	4.1
Logan	1	1	0	0	0	2	12.7

Table 49
Infant Deaths by County of Residence and by Peer Group*
by Year of Death
Kansas, 2009-2013

County of Residence	Year 2009	2010	2011	2012	2013	Total Infant Deaths 2009-2013	Infant Death Rate† 2009-2013
Lyon	5	4	4	5	3	21	9.7
McPherson	5	2	4	2	1	14	8.2
Marion	5	2	1	0	0	8	14.1
Marshall	1	1	4	0	0	6	10.3
Meade	0	0	1	0	0	1	3.4
Miami	2	4	1	2	0	9	4.9
Mitchell	1	1	0	0	0	2	5.2
Montgomery	2	0	3	4	0	9	3.9
Morris	0	0	1	0	0	1	3.2
Morton	0	0	0	0	0	0	0.0
Nemaha	1	0	1	3	2	7	10.4
Neosho	7	3	0	3	1	14	13.0
Ness	0	0	0	1	1	2	12.5
Norton	0	0	0	1	2	3	11.7
Osage	1	0	1	1	2	5	5.9
Osborne	0	0	1	1	1	3	14.6
Ottawa	0	1	0	0	0	1	3.2
Pawnee	1	0	0	2	0	3	8.2
Phillips	0	0	0	1	1	2	6.7
Pottawatomie	1	2	1	1	2	7	3.9
Pratt	1	1	1	0	1	4	6.0
Rawlins	0	1	1	0	0	2	16.7
Reno	7	7	7	3	14	38	9.9
Republic	0	0	0	0	1	1	4.3
Rice	0	1	1	0	0	2	3.3
Riley	12	4	2	9	7	34	6.2
Rooks	1	0	0	0	0	1	3.1
Rush	0	0	1	0	0	1	6.9
Russell	1	3	1	0	0	5	11.4
Saline	5	6	4	3	7	25	6.3
Scott	2	1	0	1	0	4	12.2
Sedgwick	69	60	52	61	62	304	7.7
Seward	0	2	0	4	3	9	3.8
Shawnee	25	16	17	10	15	83	6.8
Sheridan	0	0	0	1	1	2	14.6
Sherman	0	0	1	1	0	2	5.3
Smith	0	0	0	1	0	1	6.1
Stafford	0	0	0	0	0	0	0.0
Stanton	0	0	0	0	0	0	0.0
Stevens	0	0	0	1	0	1	2.3
Sumner	2	1	3	2	2	10	7.1
Thomas	3	0	0	0	0	3	5.6
Trego	0	0	0	0	0	0	0.0
Wabaunsee	0	0	1	0	0	1	2.2
Wallace	0	0	0	0	0	0	0.0
Washington	0	0	0	0	1	1	3.0
Wichita	0	0	0	1	0	1	6.9
Wilson	1	2	1	0	2	6	10.2
Woodson	0	1	0	0	0	1	5.7
Wyandotte	19	23	20	24	18	104	7.5
Peer Group							
Frontier	7	4	9	13	5	40	6.5
Rural	27	20	23	18	18	103	7.0
Densely -Settled Rural	43	47	52	52	38	238	7.3
Semi-Urban	58	44	34	37	48	211	6.2
Urban	155	138	129	134	139	700	6.2

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

Table 50
Infant Deaths by Cause of Death and Age-Group of Infant
Kansas, 2013

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	115	25	140	26	166	82	248
Infectious and Parasitic Diseases	0	0	0	0	0	3	3
Other Diseases and Disorders	3	1	4	1	5	12	17
Certain Conditions Originating in the Perinatal Period	81	15	96	14	110	1	111
-Maternal Factors and Compl. Of Pregnancy, Labor and Delivery	17	0	17	0	17	0	17
-Disorders Relating to Short Gestation and Low Birth Weight	53	0	53	0	53	0	53
-Birth Trauma	0	0	0	0	0	0	0
-Hypoxia and Birth Asphyxia	2	0	2	0	2	0	2
-Respiratory Distress of Newborn	1	2	3	0	3	0	3
-Congenital Pneumonia	0	0	0	4	4	0	4
-Other Respiratory Conditions of Newborn	2	2	4	2	6	0	6
-Bacterial Sepsis of Newborn	1	3	4	1	5	0	5
-Omphalitis of Newborn w/wo Mild Hemorrhage	0	0	0	0	0	0	0
-Hemorrhagic and Hematolog. Disorders of Fetus and Newborn	2	4	6	2	8	0	8
-Other Perinatal Conditions	3	4	7	5	12	1	13
Congenital Anomalies	31	8	39	7	46	13	59
Symptoms and Abnormal Findings	0	1	1	3	4	41	45
-Sudden Infant Death Syndrome	0	1	1	2	3	31	34
-Other	0	0	0	1	1	10	11
External Causes of Mortality	0	0	0	1	1	12	13

* The ICD-10 codes associated with each category are listed in Appendix 5.
† Hebdomadal Deaths
§ Neonatal Deaths

Infant Deaths by Component
Kansas, 1994-2013

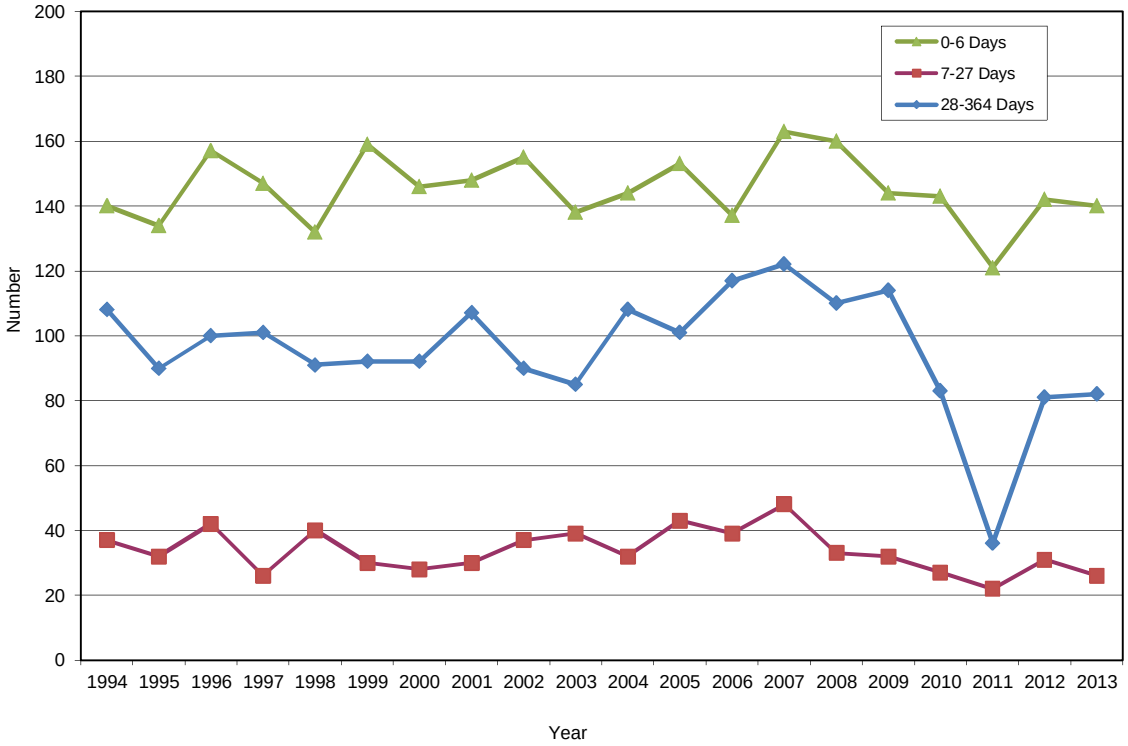


Figure 28

Pregnancy Associated Deaths*
Kansas, 2009-2013

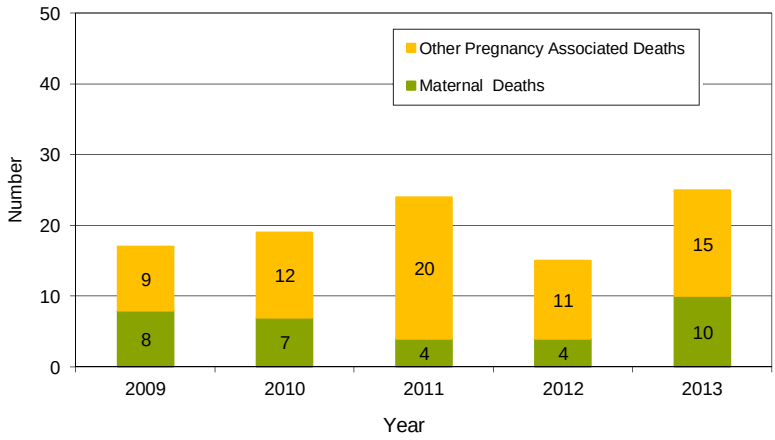


Figure 29

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

Table 51
Infant Deaths by County of Residence
by Component
Kansas, 2013

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	140	26	166	82	248
Allen	0	0	0	0	0
Anderson	2	0	2	0	2
Atchison	0	0	0	1	1
Barber	0	0	0	0	0
Barton	0	0	0	1	1
Bourbon	0	0	0	0	0
Brown	1	0	1	0	1
Butler	3	1	4	2	6
Chase	0	0	0	0	0
Chautauqua	0	0	0	0	0
Cherokee	0	0	0	0	0
Cheyenne	0	0	0	0	0
Clark	0	0	0	0	0
Clay	0	0	0	1	1
Cloud	0	0	0	0	0
Coffey	0	0	0	0	0
Comanche	0	0	0	0	0
Cowley	4	0	4	0	4
Crawford	1	0	1	2	3
Decatur	0	0	0	0	0
Dickinson	1	0	1	1	2
Doniphan	0	0	0	0	0
Douglas	4	0	4	1	5
Edwards	0	0	0	0	0
Elk	1	0	1	0	1
Ellis	1	0	1	0	1
Ellsworth	0	0	0	0	0
Finney	3	1	4	2	6
Ford	4	1	5	0	5
Franklin	0	1	1	0	1
Geary	3	0	3	3	6
Gove	0	0	0	0	0
Graham	0	0	0	0	0
Grant	0	0	0	0	0
Gray	1	0	1	1	2
Greeley	0	0	0	0	0
Greenwood	0	0	0	1	1
Hamilton	0	0	0	0	0
Harper	2	0	2	0	2
Harvey	2	0	2	2	4
Haskell	0	0	0	0	0
Hodgeman	0	0	0	0	0
Jackson	0	0	0	0	0
Jefferson	0	0	0	2	2
Jewell	0	0	0	0	0
Johnson	26	3	29	5	34
Kearny	0	0	0	0	0
Kingman	0	0	0	0	0
Kiowa	0	0	0	0	0
Labette	2	0	2	0	2
Lane	0	0	0	0	0
Leavenworth	3	1	4	1	5
Lincoln	0	0	0	0	0
Linn	0	0	0	0	0
Logan	0	0	0	0	0

Table 51
Infant Deaths by County of Residence
by Component
Kansas, 2013

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
Lyon	2	0	2	1	3
McPherson	1	0	1	0	1
Marion	0	0	0	0	0
Marshall	0	0	0	0	0
Meade	0	0	0	0	0
Miami	0	0	0	0	0
Mitchell	0	0	0	0	0
Montgomery	0	0	0	0	0
Morris	0	0	0	0	0
Morton	0	0	0	0	0
Nemaha	2	0	2	0	2
Neosho	0	0	0	1	1
Ness	0	0	0	1	1
Norton	2	0	2	0	2
Osage	1	0	1	1	2
Osborne	0	1	1	0	1
Ottawa	0	0	0	0	0
Pawnee	0	0	0	0	0
Phillips	0	1	1	0	1
Pottawatomie	1	0	1	1	2
Pratt	0	1	1	0	1
Rawlins	0	0	0	0	0
Reno	6	3	9	5	14
Republic	1	0	1	0	1
Rice	0	0	0	0	0
Riley	4	0	4	3	7
Rooks	0	0	0	0	0
Rush	0	0	0	0	0
Russell	0	0	0	0	0
Saline	4	0	4	3	7
Scott	0	0	0	0	0
Sedgwick	37	7	44	18	62
Seward	2	1	3	0	3
Shawnee	6	1	7	8	15
Sheridan	1	0	1	0	1
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	1	1	1	2
Thomas	0	0	0	0	0
Trego	0	0	0	0	0
Wabaunsee	0	0	0	0	0
Wallace	0	0	0	0	0
Washington	0	1	1	0	1
Wichita	0	0	0	0	0
Wilson	1	0	1	1	2
Woodson	0	0	0	0	0
Wyandotte	5	1	6	12	18
n.s.	0	0	0	0	0
Peer Group					
Frontier	2	1	3	1	4
Rural	12	3	15	4	19
Densely -Settled Rural	20	4	24	11	35
Semi-Urban	28	6	34	22	56
Urban	78	12	90	44	134

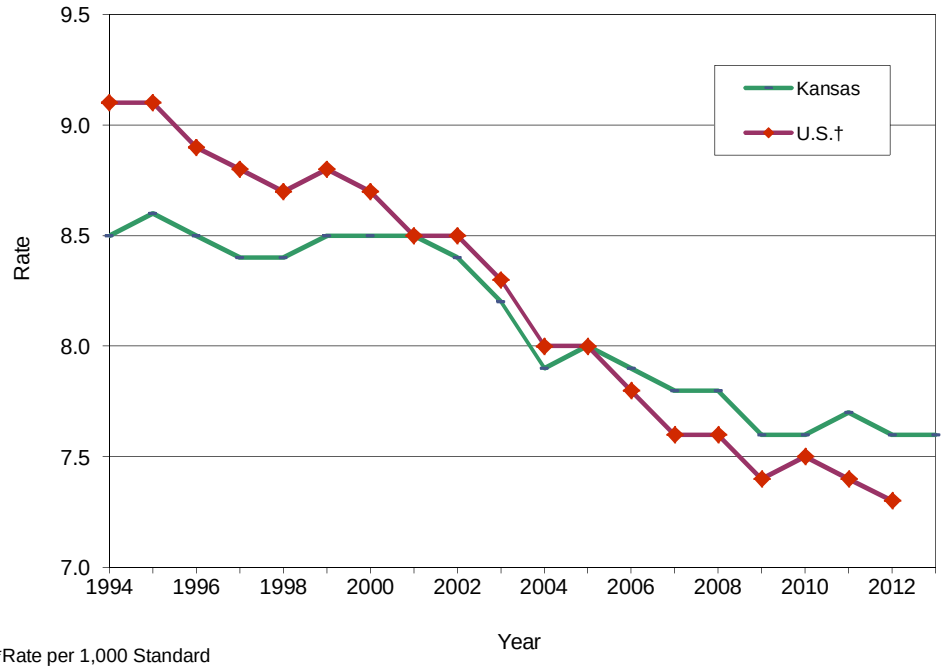
Table 52
Age-Specific Death Rates* by Sex
Kansas, 1994-2013

Age-Group and Sex	Year																			
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Both Sexes																				
Total	9.0	9.2	9.2	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
Under 1	7.8	7.1	8.4	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
1-4	0.4	0.4	0.5	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
5-14	0.2	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	0.1	0.2	0.2	0.2	0.1	0.2
15-24	1.0	0.9	1.0	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
25-34	1.2	1.1	1.1	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
35-44	1.7	1.7	1.7	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
45-54	3.7	3.9	3.5	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
55-64	9.6	9.8	10.1	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
65-74	24.1	24.5	24.4	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
75-84	55.5	55.9	54.2	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
85 and over	150.2	154.9	153.4	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
Male	9.0	9.2	9.1	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
Under 1	9.0	7.7	9.4	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
1-4	0.4	0.5	0.5	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
5-14	0.3	0.2	0.3	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
15-24	1.4	1.2	1.4	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
25-34	1.8	1.6	1.6	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
35-44	2.1	2.3	2.3	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
45-54	4.7	4.9	4.3	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
55-64	12.2	12.3	12.3	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
65-74	31.6	30.7	30.8	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
75-84	70.2	73.4	70.3	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
85 and over	176.6	179.4	178.3	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
Female	9.1	9.3	9.2	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
Under 1	6.6	6.5	7.4	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
1-4	0.4	0.3	0.5	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
5-14	0.2	0.2	0.2	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
15-24	0.5	0.5	0.5	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
25-34	0.7	0.6	0.6	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
35-44	1.2	1.0	1.1	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
45-54	2.9	3.0	2.7	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
55-64	7.3	7.4	8.0	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
65-74	18.0	19.4	19.2	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
75-84	46.4	44.9	43.9	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
85 and over	140.0	145.3	143.5	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

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

Age-Adjusted Death Rates*

Kansas and the U.S., 1994-2013



*Rate per 1,000 Standard U.S. 2000 Population

† 2013 Rates Not Available

Figure 30

Table 53

Age-Adjusted Death Rates* by Sex

Kansas and the U.S., 1994-2013

	Kansas			U.S.		
Year	Total	Male	Female	Total	Male	Female
1994	8.5	10.6	7.0	9.1	11.6	7.4
1995	8.6	10.8	7.1	9.1	11.4	7.4
1996	8.5	10.6	7.0	8.9	11.2	7.3
1997	8.4	10.5	6.8	8.8	10.9	7.3
1998	8.4	10.3	6.9	8.7	10.7	7.2
1999	8.5	10.2	7.2	8.8	10.7	7.3
2000	8.5	10.3	7.2	8.7	10.5	7.3
2001	8.5	10.3	7.1	8.5	10.3	7.2
2002	8.4	10.1	7.2	8.5	10.1	7.2
2003	8.2	9.7	7.0	8.3	9.9	7.1
2004	7.9	9.2	6.8	8.0	9.6	6.8
2005	8.0	9.5	6.9	8.0	9.5	6.8
2006	7.9	9.3	6.8	7.8	9.2	6.6
2007	7.8	9.3	6.6	7.6	9.1	6.4
2008	7.8	9.4	6.6	7.6	9.0	6.4
2009	7.6	9.1	6.4	7.4	8.9	6.3
2010	7.6	9.1	6.4	7.5	8.9	6.3
2011	7.7	9.0	6.6	7.4	8.7	6.3
2012	7.6	8.9	6.5	7.3	n.a.	n.a.
2013	7.6	8.8	6.5	n.a.	n.a.	n.a.

* Rate per 1,000 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 54
Deaths by County of Residence
by Age-Group and Average Age at Death
Kansas, 2013

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	25,347	248	59	65	265	402	576	1,574	2,994	4,064	6,059	9,040	1	74.4
Allen	199	0	0	0	0	4	6	14	25	33	42	75	0	75.6
Anderson	93	2	0	1	0	0	4	3	14	6	30	33	0	74.8
Atchison	170	1	0	1	0	2	1	13	12	27	52	61	0	76.8
Barber	61	0	0	0	2	2	3	4	5	12	13	20	0	72.2
Barton	261	1	0	0	3	5	6	19	35	48	65	79	0	73.6
Bourbon	196	0	1	1	4	2	2	12	22	34	62	56	0	74.4
Brown	136	1	1	0	0	1	5	5	10	26	32	55	0	76.8
Butler	634	6	1	1	8	6	17	37	79	96	164	219	0	74.1
Chase	34	0	0	0	0	1	1	2	6	8	6	10	0	72.6
Chautauqua	60	0	0	0	0	0	1	3	6	12	20	18	0	77.8
Cherokee	247	0	0	1	2	2	3	19	44	48	65	63	0	72.8
Cheyenne	31	0	0	0	0	0	1	2	2	4	6	16	0	80.2
Clark	29	0	0	0	0	0	0	1	2	4	8	14	0	80.6
Clay	115	1	1	0	1	2	2	3	9	19	21	56	0	77.8
Cloud	121	0	0	1	1	2	3	4	11	13	35	51	0	78.3
Coffey	109	0	0	0	1	2	0	4	22	18	24	38	0	75.3
Comanche	34	0	0	0	0	1	0	0	5	6	9	13	0	77.3
Cowley	440	4	2	1	5	5	16	23	58	68	122	136	0	73.5
Crawford	383	3	1	0	1	4	7	28	45	78	79	137	0	74.8
Decatur	39	0	0	0	0	0	0	2	5	4	11	17	0	79.7
Dickinson	224	2	1	1	2	3	4	11	22	32	60	86	0	75.9
Doniphan	77	0	0	0	0	1	0	5	11	13	14	33	0	76.4
Douglas	650	5	2	1	8	11	14	46	64	117	133	249	0	74.9
Edwards	30	0	0	0	0	1	0	2	1	5	6	15	0	79.0
Elk	45	1	0	0	0	0	0	3	5	7	13	16	0	76.7
Ellis	246	1	1	0	6	2	4	10	26	33	51	112	0	76.8
Ellsworth	89	0	0	0	3	0	2	1	7	12	20	44	0	80.0
Finney	217	6	1	0	1	7	5	12	30	36	54	65	0	71.5
Ford	244	5	1	1	8	2	8	18	29	35	58	79	0	71.2
Franklin	256	1	2	0	0	6	4	16	26	47	73	81	0	75.1
Geary	199	6	1	1	9	6	8	16	24	43	48	37	0	65.9
Gove	50	0	0	0	2	0	0	3	5	6	12	22	0	76.8
Graham	20	0	0	0	0	0	0	1	1	2	5	11	0	83.0
Grant	40	0	0	0	0	2	0	2	8	9	11	8	0	72.4
Gray	44	2	0	0	0	0	2	2	4	12	8	14	0	72.1
Greeley	16	0	0	1	1	2	0	1	1	2	2	6	0	66.8
Greenwood	97	1	0	0	0	1	2	10	8	16	23	36	0	75.0
Hamilton	26	0	0	0	0	1	0	2	3	4	7	9	0	74.6
Harper	76	2	0	0	1	1	0	2	5	15	19	31	0	76.7
Harvey	399	4	1	0	0	2	6	20	39	62	101	164	0	77.4
Haskell	31	0	0	0	0	1	0	1	3	5	11	10	0	77.7
Hodgeman	20	0	0	0	0	0	0	1	5	2	6	6	0	76.7
Jackson	125	0	0	1	1	2	1	7	17	17	33	46	0	76.2
Jefferson	169	2	0	0	1	4	4	5	21	35	51	46	0	74.4
Jewell	43	0	0	0	0	0	1	3	5	6	12	16	0	79.2
Johnson	3,714	34	9	11	46	49	90	184	366	508	833	1,583	1	76.2
Kearny	50	0	0	0	0	1	1	3	4	7	13	21	0	77.7
Kingman	99	0	0	1	1	0	1	6	12	12	21	45	0	77.8
Kiowa	30	0	0	0	0	0	1	0	3	8	8	10	0	77.1
Labette	260	2	1	2	5	3	8	23	38	40	49	89	0	72.0
Lane	17	0	0	0	1	0	0	0	0	3	2	11	0	81.5
Leavenworth	564	5	2	3	8	9	11	41	84	101	137	163	0	72.3
Lincoln	31	0	0	0	1	0	0	1	4	3	5	17	0	80.0
Linn	114	0	0	0	4	2	4	9	15	21	24	35	0	72.3
Logan	41	0	0	0	0	0	0	3	3	6	11	18	0	78.9

Table 54
Deaths by County of Residence
by Age-Group and Average Age at Death
Kansas, 2013

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	295	3	0	0	3	4	7	23	45	43	73	94	0	73.4
McPherson	380	1	1	0	3	1	8	17	28	52	94	175	0	79.0
Marion	166	0	0	1	1	2	3	7	17	26	36	73	0	78.6
Marshall	121	0	0	0	0	1	0	5	7	20	36	52	0	80.6
Meade	55	0	0	0	1	1	0	0	6	3	17	27	0	80.6
Miami	253	0	0	2	3	2	4	22	29	32	67	92	0	75.3
Mitchell	96	0	0	0	0	3	2	6	10	20	25	30	0	75.0
Montgomery	400	0	1	1	4	5	7	22	57	75	87	141	0	74.8
Morris	68	0	0	0	1	0	0	4	9	4	16	34	0	79.8
Morton	42	0	0	0	2	1	1	4	5	4	12	13	0	72.2
Nemaha	134	2	1	1	2	0	1	5	8	14	38	62	0	78.1
Neosho	197	1	0	2	0	3	3	14	15	28	59	72	0	76.4
Ness	48	1	0	1	0	1	1	4	2	8	13	17	0	74.3
Norton	61	2	1	0	0	1	3	2	3	13	13	23	0	73.2
Osage	189	2	0	0	0	3	6	8	22	45	42	61	0	74.7
Osborne	65	1	0	0	1	1	0	3	5	10	16	28	0	77.7
Ottawa	70	0	0	0	0	0	4	7	5	15	20	19	0	73.6
Pawnee	72	0	0	0	0	1	1	7	13	11	12	27	0	74.2
Phillips	74	1	0	0	3	0	5	4	3	11	17	30	0	74.3
Pottawatomie	176	2	0	1	0	4	2	12	15	30	47	63	0	75.6
Pratt	135	1	2	0	2	3	5	3	20	18	34	47	0	73.8
Rawlins	50	0	0	0	1	1	0	3	3	5	10	27	0	80.4
Reno	772	14	2	3	3	8	10	41	67	128	191	305	0	76.0
Republic	88	1	0	1	0	2	1	4	10	10	22	37	0	76.5
Rice	129	0	0	0	2	2	5	5	18	12	35	50	0	75.7
Riley	313	7	1	1	2	11	5	19	30	52	69	116	0	73.4
Rooks	62	0	0	0	0	1	0	2	3	8	24	24	0	81.0
Rush	45	0	0	0	1	0	0	3	1	9	11	20	0	78.9
Russell	84	0	0	0	0	1	0	1	7	11	26	38	0	81.0
Saline	544	7	0	3	3	9	11	25	73	99	135	179	0	74.0
Scott	47	0	0	0	0	0	2	2	4	10	15	14	0	77.9
Sedgwick	4,111	62	11	14	46	90	110	304	573	657	958	1,286	0	72.0
Seward	121	3	0	0	4	1	5	11	19	13	30	35	0	69.5
Shawnee	1,714	15	4	1	12	22	40	115	211	293	409	592	0	74.3
Sheridan	23	1	0	0	2	0	1	1	0	2	7	9	0	72.3
Sherman	88	0	1	0	2	2	2	5	10	12	25	29	0	74.3
Smith	68	0	0	0	1	1	1	5	6	3	18	33	0	79.0
Stafford	54	0	0	0	1	2	0	2	2	10	19	18	0	77.5
Stanton	12	0	0	0	0	0	1	1	0	0	4	6	0	77.8
Stevens	45	0	1	0	0	0	0	3	3	6	14	18	0	78.2
Sumner	257	2	0	0	1	2	3	26	37	43	67	76	0	73.5
Thomas	81	0	0	0	0	3	0	4	10	8	17	39	0	78.1
Trego	40	0	0	0	0	0	0	1	5	9	13	12	0	77.6
Wabaunsee	73	0	0	0	0	0	1	0	8	19	15	30	0	78.9
Wallace	19	0	0	0	0	0	2	1	2	1	5	8	0	76.5
Washington	73	1	1	0	3	1	0	1	6	17	18	25	0	74.0
Wichita	29	0	0	0	0	0	1	1	2	2	7	16	0	82.6
Wilson	131	2	0	0	1	4	4	6	20	24	29	41	0	72.3
Woodson	65	0	0	0	2	1	0	7	9	11	11	24	0	73.5
Wyandotte	1,367	18	3	3	15	41	49	128	215	262	281	352	0	69.7
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Peer Group														
Frontier	1,504	5	1	2	19	21	21	83	131	213	399	609	0	77.3
Rural	2,880	18	8	6	29	38	60	125	310	448	705	1,133	0	76.4
Densely -Settled Rural	4,690	38	9	12	49	62	102	302	571	753	1,190	1,602	0	74.5
Semi-Urban	4,153	48	10	12	33	59	79	246	469	712	1,014	1,471	0	74.6
Urban	12,120	139	31	33	135	222	314	818	1,513	1,938	2,751	4,225	1	73.5

Table 55
Deaths by County of Residence
by Population Group
Kansas, 2013

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	25,347	22,639	1,264	194	200	290	709	51
Allen	199	190	1	1	0	4	3	0
Anderson	93	90	0	0	0	2	1	0
Atchison	170	158	7	3	0	2	0	0
Barber	61	60	0	0	0	1	0	0
Barton	261	249	1	2	0	5	4	0
Bourbon	196	192	2	0	0	1	1	0
Brown	136	125	2	7	0	2	0	0
Butler	634	593	6	4	1	18	11	1
Chase	34	31	1	0	0	2	0	0
Chautauqua	60	57	1	2	0	0	0	0
Cherokee	247	239	1	2	2	3	0	0
Cheyenne	31	31	0	0	0	0	0	0
Clark	29	27	0	0	0	0	2	0
Clay	115	115	0	0	0	0	0	0
Cloud	121	120	0	0	1	0	0	0
Coffey	109	107	0	0	0	1	1	0
Comanche	34	33	0	0	0	1	0	0
Cowley	440	386	13	17	6	4	14	0
Crawford	383	375	4	0	1	1	1	1
Decatur	39	39	0	0	0	0	0	0
Dickinson	224	222	2	0	0	0	0	0
Doniphan	77	72	1	2	0	0	2	0
Douglas	650	593	25	7	9	8	8	0
Edwards	30	29	0	0	0	1	0	0
Elk	45	45	0	0	0	0	0	0
Ellis	246	237	2	0	1	1	3	2
Ellsworth	89	86	0	0	0	0	3	0
Finney	217	161	1	0	3	2	49	1
Ford	244	203	5	1	2	2	30	1
Franklin	256	249	1	1	1	2	2	0
Geary	199	146	27	1	12	7	5	1
Gove	50	50	0	0	0	0	0	0
Graham	20	18	2	0	0	0	0	0
Grant	40	28	0	0	0	0	12	0
Gray	44	42	0	1	0	0	1	0
Greeley	16	15	0	0	0	0	1	0
Greenwood	97	94	0	1	0	0	2	0
Hamilton	26	25	0	0	0	0	1	0
Harper	76	74	0	0	0	1	1	0
Harvey	399	381	4	0	1	1	12	0
Haskell	31	28	0	0	0	0	2	1
Hodgeman	20	20	0	0	0	0	0	0
Jackson	125	108	5	9	0	3	0	0
Jefferson	169	166	1	1	0	1	0	0
Jewell	43	41	0	1	0	0	1	0
Johnson	3,714	3,425	106	11	43	46	75	8
Kearny	50	46	0	0	0	0	4	0
Kingman	99	98	0	1	0	0	0	0
Kiowa	30	30	0	0	0	0	0	0
Labette	260	239	13	1	1	2	3	1
Lane	17	17	0	0	0	0	0	0
Leavenworth	564	502	38	2	5	7	9	1
Lincoln	31	31	0	0	0	0	0	0
Linn	114	113	0	1	0	0	0	0
Logan	41	40	0	1	0	0	0	0

Table 55
Deaths by County of Residence
by Population Group
Kansas, 2013

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	295	273	4	1	3	4	10	0
McPherson	380	369	1	1	1	2	5	1
Marion	166	160	0	1	1	3	1	0
Marshall	121	120	0	0	0	0	1	0
Meade	55	50	0	1	0	1	3	0
Miami	253	247	5	0	0	0	1	0
Mitchell	96	92	1	0	0	2	1	0
Montgomery	400	356	28	5	0	2	9	0
Morris	68	66	0	0	0	0	2	0
Morton	42	38	0	0	0	1	3	0
Nemaha	134	133	0	1	0	0	0	0
Neosho	197	189	0	2	1	1	3	1
Ness	48	46	0	0	0	1	1	0
Norton	61	58	0	0	0	1	0	2
Osage	189	184	0	2	0	1	1	1
Osborne	65	65	0	0	0	0	0	0
Ottawa	70	67	0	0	0	1	2	0
Pawnee	72	66	1	2	0	0	2	1
Phillips	74	74	0	0	0	0	0	0
Pottawatomie	176	175	0	0	0	0	1	0
Pratt	135	126	1	1	0	1	6	0
Rawlins	50	49	0	1	0	0	0	0
Reno	772	719	8	4	2	21	18	0
Republic	88	85	0	2	0	0	1	0
Rice	129	125	1	0	0	1	1	1
Riley	313	287	12	1	5	4	4	0
Rooks	62	61	0	0	0	0	1	0
Rush	45	45	0	0	0	0	0	0
Russell	84	82	1	0	0	0	0	1
Saline	544	497	14	3	6	6	16	2
Scott	47	45	1	1	0	0	0	0
Sedgwick	4,111	3,384	392	53	61	64	148	9
Seward	121	88	6	0	1	1	24	1
Shawnee	1,714	1,476	139	16	7	9	65	2
Sheridan	23	21	0	0	0	0	2	0
Sherman	88	82	1	1	0	2	1	1
Smith	68	68	0	0	0	0	0	0
Stafford	54	51	0	0	0	0	3	0
Stanton	12	11	0	0	0	0	1	0
Stevens	45	41	2	1	0	0	1	0
Sumner	257	243	4	1	1	3	5	0
Thomas	81	77	0	1	1	0	1	1
Trego	40	40	0	0	0	0	0	0
Wabaunsee	73	69	0	0	1	1	2	0
Wallace	19	18	0	0	0	0	0	1
Washington	73	71	1	0	0	1	0	0
Wichita	29	26	1	0	0	0	2	0
Wilson	131	124	0	1	0	5	1	0
Woodson	65	64	0	1	0	0	0	0
Wyandotte	1,367	845	368	10	20	20	96	8
n.s.	0	0	0	0	0	0	0	0
Peer Group								
Frontier	1,504	1,450	6	8	0	10	28	2
Rural	2,880	2,771	11	22	4	22	43	7
Densely -Settled Rural	4,690	4,343	70	46	22	42	158	9
Semi-Urban	4,153	3,850	109	19	29	62	79	5
Urban	12,120	10,225	1,068	99	145	154	401	28

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

Table 56
Deaths by Population Group and Sex, by Age-Group and Average Age at Death
Kansas, 2013

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	25,347	248	59	65	265	402	576	1,574	2,994	4,064	6,059	9,040	1	74.4
Male	12,469	138	38	29	199	273	340	943	1,861	2,241	3,080	3,326	1	71.0
Female	12,878	110	21	36	66	129	236	631	1,133	1,823	2,979	5,714	0	77.7
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
White Non-Hispanic	22,639	137	38	40	189	277	454	1,292	2,538	3,586	5,532	8,555	1	75.8
Male	11,023	80	24	19	140	184	263	775	1,580	1,969	2,829	3,159	1	72.5
Female	11,616	57	14	21	49	93	191	517	958	1,617	2,703	5,396	0	78.9
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Black Non-Hispanic	1,264	39	5	8	32	53	55	137	241	233	234	227	0	64.1
Male.	650	22	2	4	27	35	33	78	144	125	108	72	0	60.4
Female	614	17	3	4	5	18	22	59	97	108	126	155	0	68.1
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Native American Non-Hispanic	194	1	0	1	3	4	7	24	33	42	49	30	0	67.8
Male	106	1	0	1	3	3	4	13	21	24	26	10	0	64.4
Female	88	0	0	0	0	1	3	11	12	18	23	20	0	71.9
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Asian/Pacific Non-Hispanic	200	4	1	6	5	10	9	14	29	36	42	44	0	65.5
Male.	88	0	1	0	3	7	7	9	12	18	13	18	0	63.9
Female	112	4	0	6	2	3	2	5	17	18	29	26	0	66.7
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Other Non-Hispanic*	290	19	5	3	5	14	11	25	44	57	54	53	0	62.0
Male	150	10	4	2	4	10	5	13	28	37	23	14	0	57.5
Female	140	9	1	1	1	4	6	12	16	20	31	39	0	66.8
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Hispanic Any Race	709	44	10	7	30	42	37	77	97	103	137	125	0	59.5
Male	421	22	7	3	22	33	27	51	68	62	76	50	0	56.8
Female	288	22	3	4	8	9	10	26	29	41	61	75	0	63.5
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	n/a
Not Stated	51	4	0	0	1	2	3	5	12	7	11	6	0	n/a
Male	31	3	0	0	0	1	1	4	8	6	5	3	0	n/a
Female	20	1	0	0	1	1	2	1	4	1	6	3	0	n/a
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 57
Ten Leading Causes of Death by Sex, Population Group of Decedent
Kansas, 2013

Population Group	Total	Causes of Death										
		Malignant Neoplasms	Heart Disease	Chronic Lower Respiratory Diseases	Unintentional Injuries	Cerebro-vascular Disease	Alzheimer's Disease	Pneumonia and Influenza	Diabetes Mellitus	Nephritis, Nephrotic Syndrome, Nephrosis	Suicide	All Other Causes
Total	25,347	5,350	5,331	1,664	1,398	1,306	740	709	649	598	426	7,176
White Non-Hispanic	22,639	4,778	4,844	1,540	1,201	1,167	697	653	549	509	378	6,323
Black Non-Hispanic	1,264	270	241	70	64	49	21	25	57	43	19	405
Native American Non-Hispanic	194	39	42	24	9	12	2	4	3	6	3	50
Asian/Pacific Non-Hispanic	200	47	37	5	16	18	3	5	2	6	8	53
Other Non-Hispanic*	290	65	52	11	24	21	4	6	11	9	6	81
Hispanic Any Race	709	144	109	13	75	34	12	15	27	25	12	243
Not Stated	51	7	6	1	9	5	1	1	0	0	0	21
Male	12,469	2,817	2,787	803	848	523	211	316	324	261	346	3,233
White Non-Hispanic	11,023	2,521	2,499	742	708	457	196	284	264	228	303	2,821
Black Non-Hispanic	650	139	131	35	44	24	10	13	33	15	17	189
Native American Non-Hispanic	106	20	32	9	5	6	1	2	2	1	3	25
Asian/Pacific Non-Hispanic	88	21	15	2	10	8	0	4	0	1	8	19
Other Non-Hispanic*	150	28	36	6	15	8	2	3	7	3	5	37
Hispanic Any Race	421	86	70	8	61	18	2	9	18	13	10	126
Not Stated	31	2	4	1	5	2	0	1	0	0	0	16
Female	12,878	2,533	2,544	861	550	783	529	393	325	337	80	3,943
White Non-Hispanic	11,616	2,257	2,345	798	493	710	501	369	285	281	75	3,502
Black Non-Hispanic	614	131	110	35	20	25	11	12	24	28	2	216
Native American Non-Hispanic	88	19	10	15	4	6	1	2	1	5	0	25
Asian/Pacific Non-Hispanic	112	26	22	3	6	10	3	1	2	5	0	34
Other Non-Hispanic*	140	37	16	5	9	13	2	3	4	6	1	44
Hispanic Any Race	288	58	39	5	14	16	10	6	9	12	2	117
Not Stated	20	5	2	0	4	3	1	0	0	0	0	5
Not Stated	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 58
Selected Causes of Death by Age-Group
and Average Age at Death
Kansas, 2013

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	25,347	248	59	65	265	402	576	1,574	2,994	4,064	6,059	9,040	1	74.4
Selected Causes	19,356	79	38	55	228	327	461	1,260	2,424	3,299	4,673	6,512	0	n.a.
Tuberculosis	6	0	0	0	0	0	0	1	0	1	1	3	0	77.0
HIV/AIDS	28	0	0	0	1	1	3	13	7	3	0	0	0	50.0
Malignant Neoplasms	5,350	0	3	9	11	32	80	389	1,000	1,382	1,420	1,024	0	71.8
Diabetes mellitus	649	0	0	0	6	4	20	47	102	143	158	169	0	72.7
Alzheimer's Disease	740	0	0	0	0	0	0	0	14	38	210	478	0	86.4
Prim. Hypertension/Hypertensive Renal Dis. And Sec. Hypertension	219	0	0	0	0	0	3	7	18	31	61	99	0	80.7
Heart Disease	5,331	5	2	3	6	28	76	295	550	754	1,268	2,344	0	78.7
Cerebrovascular Disease	1,306	1	1	1	1	1	15	47	94	166	324	655	0	80.9
Atherosclerosis	422	0	0	0	0	0	0	2	14	30	104	272	0	85.6
Pneumonia and Influenza	709	3	2	3	0	2	10	21	59	69	140	400	0	81.4
Chronic Lower Respiratory Diseases	1,664	0	0	2	0	3	7	49	186	401	538	478	0	76.7
Peptic Ulcer	32	0	0	0	0	0	2	3	1	2	11	13	0	77.3
Chronic Liver Disease and Cirrhosis	249	0	0	0	0	6	13	76	78	42	24	10	0	59.7
Nephritis, Nephrotic Syndrome and Nephrosis	598	0	0	0	3	4	4	16	54	81	174	262	0	79.9
Congenital Anomalies	109	59	8	3	3	4	4	12	9	5	2	0	0	18.7
Unintentional Injuries	1,398	8	17	25	118	142	140	169	153	120	207	299	0	58.5
Suicide	426	0	0	4	56	63	67	94	76	29	31	6	0	46.7
Homicide	120	3	5	5	23	37	17	19	9	2	0	0	0	32.4

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

Table 59
Ten Leading Causes of Death by Sex,
Number, Rate and Average Age at Death
Kansas, 2013

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	25,347	12,469	12,878	0	875.9	864.7	886.9	74.4	71.0	77.7
Malignant Neoplasms	5,350	2,817	2,533	0	184.9	195.4	174.4	71.8	71.4	72.3
Heart Disease	5,331	2,787	2,544	0	184.2	193.3	175.2	78.7	75.5	82.2
Chronic Lower Respiratory Diseases	1,664	803	861	0	57.5	55.7	59.3	76.7	75.9	77.4
Unintentional Injuries	1,398	848	550	0	48.3	58.8	37.9	58.5	54.4	64.7
Cerebrovascular Disease	1,306	523	783	0	45.1	36.3	53.9	80.9	77.3	83.2
Alzheimer's Disease	740	211	529	0	25.6	14.6	36.4	86.4	84.2	87.2
Pneumonia and Influenza	709	316	393	0	24.5	21.9	27.1	81.4	79.2	83.2
Diabetes mellitus	649	324	325	0	22.4	22.5	22.4	72.7	69.3	76.1
Nephritis, Nephrotic Syndrome and Nephrosis	598	261	337	0	20.7	18.1	23.2	79.9	78.5	80.9
Suicide	426	346	80	0	14.7	24.0	5.5	46.7	46.7	47.0

*Rate per 100,000 population
† The ICD-10 codes associated with each category are listed in Appendix 4.
Note: Rates are based US Census Bureau population estimates for 2013.

Table 60
Death Rates, Age-Adjusted Death Rates and 95% Confidence Intervals
for Selected Leading Causes of Death
Kansas, 2012-2013

Cause of Death§	2012					2013				
	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	25,084	869.2	759.0	749.5	768.5	25,347	875.9	755.6	746.1	765.1
Malignant Neoplasms	5,406	187.3	167.5	163.0	172.0	5,350	184.9	162.2	157.8	166.6
Heart Disease	5,314	184.1	156.5	152.2	160.8	5,331	184.2	155.1	150.9	159.4
Chronic Lower Respiratory Diseases	1,680	58.2	51.6	49.1	54.1	1,664	57.5	50.0	47.6	52.4
Unintentional Injuries	1,304	45.2	42.9	40.5	45.3	1,398	48.3	45.5	43.1	47.9
Cerebrovascular Disease	1,331	46.1	39.0	36.9	41.1	1,306	45.1	37.6	35.5	39.7
Alzheimer's Disease	788	27.3	22.5	20.9	24.1	740	25.6	20.8	19.3	22.3
Pneumonia and Influenza	621	21.5	17.9	16.5	19.3	709	24.5	20.0	18.5	21.5
Diabetes mellitus	633	21.9	19.4	17.9	20.9	649	22.4	19.6	18.1	21.1
Nephritis, Nephrotic Syndrome and Nephrosis	599	20.8	17.7	16.3	19.1	598	20.7	17.5	16.1	18.9
Suicide	505	17.5	17.6	16.0	19.2	426	14.7	14.7	13.3	16.1
Atherosclerosis	459	15.9	13.1	11.9	14.3	422	14.6	11.7	10.6	12.8
Chronic Liver Disease and Cirrhosis	245	8.5	7.7	6.7	8.7	249	8.6	7.8	6.8	8.8
Prim. Hypertension/Hypertensive Renal Disease and Sec. Hypertension	159	5.5	4.5	3.8	5.2	219	7.6	6.4	5.5	7.3
Homicide	110	3.8	4.1	3.3	4.9	120	4.1	4.3	3.5	5.1
Certain Conditions Originating in the Perinatal Period	123	4.3	4.3	3.5	5.1	115	4.0	4.0	3.3	4.7
Congenital Anomalies	88	3.0	3.0	2.4	3.6	109	3.8	3.7	3.0	4.4

* 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.

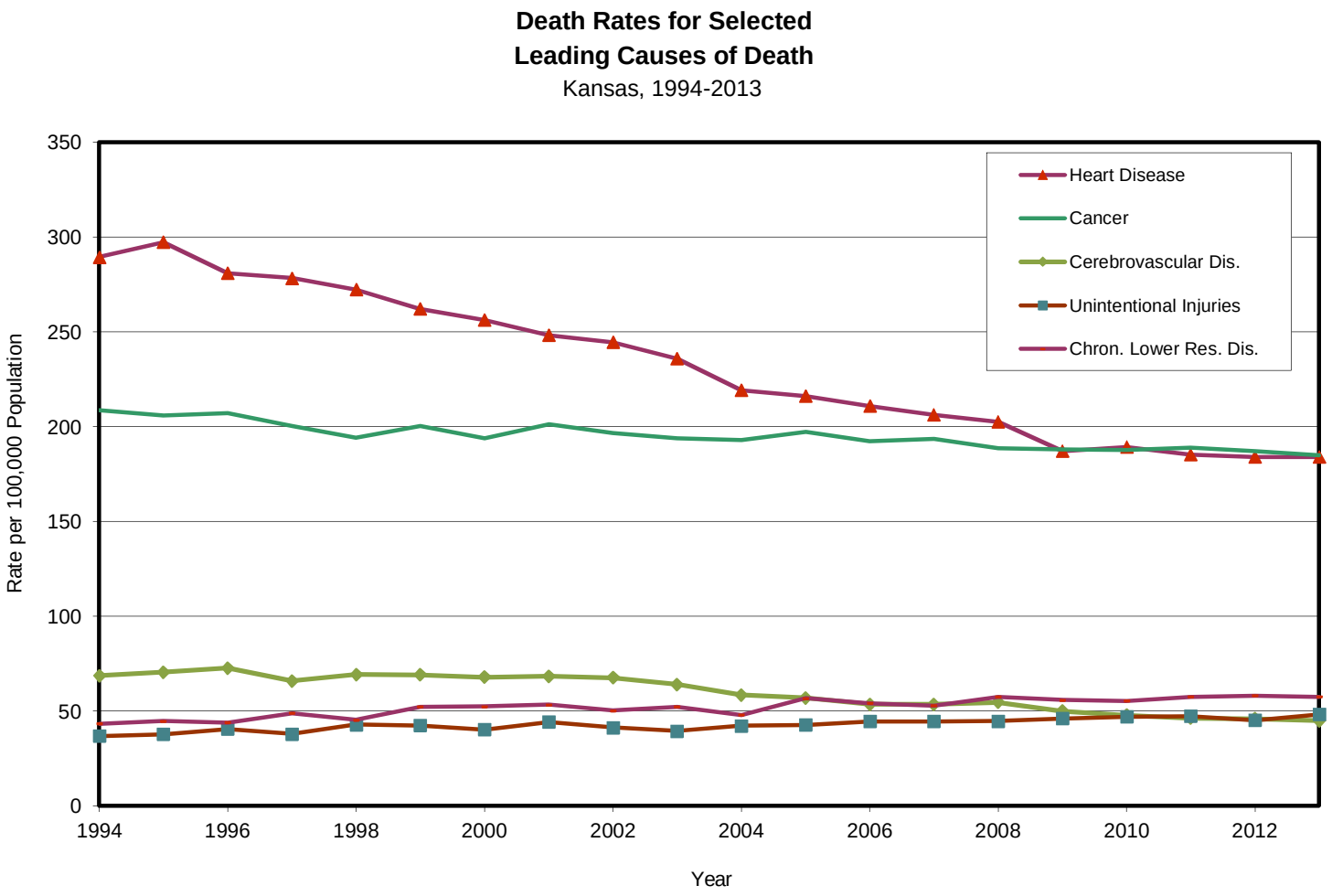

Death Rates for Selected
Leading Causes of Death
Kansas, 1994-2013
Heart Disease
Cancer
Cerebrovascular Dis.
Unintentional Injuries
Chron. Lower Res. Dis.
Rate per 100,000 Population
350
300
250
200
150
100
50
0
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
Year

Figure 31

Leading Causes of Death by Age-Group

Kansas, 2013

ALL AGES

CAUSE	NUMBER
CANCER	5,350
HEART DISEASE	5,331
CHRON. LOWER RESP. DIS.	1,664
UNINTENTIONAL INJURIES	1,398
CEREBROVASC. DIS.	1,306
OTHER CAUSES	10,298
TOTAL	25,347

UNDER 1 YEAR

CAUSE	NUMBER
CONGENITAL ANOMALIES	59
LENGTH GEST./FETAL GROWTH	53
SIDS	34
MATERNAL FACTORS & COMPL.	17
UNINTENTIONAL INJURIES	8
HEMORRHAGIC & HEMATOLOG. DIS.	8
OTHER CAUSES	69
TOTAL	248

1-4 YEARS

CAUSE	NUMBER
UNINTENTIONAL INJURIES	17
CONGENITAL ANOMALIES	8
HOMICIDE	5
CANCER	3
HEART DISEASE	2
PNEUMONIA & INFLUENZA	2
OTHER CAUSES	22
TOTAL	59

5-14 YEARS

CAUSE	NUMBER
UNINTENTIONAL INJURIES	25
CANCER	9
HOMICIDE	5
SUICIDE	4
CONGENITAL ANOMALIES	3
OTHER CAUSES	19
TOTAL	65

15-24 YEARS

CAUSE	NUMBER
UNINTENTIONAL INJURIES	118
SUICIDE	56
HOMICIDE	23
CANCER	11
HEART DISEASE	6
DIABETES MELLITUS	6
OTHER CAUSES	45
TOTAL	265

25-44 YEARS

CAUSE	NUMBER
UNINTENTIONAL INJURIES	282
SUICIDE	130
CANCER	112
HEART DISEASE	104
HOMICIDE	54
OTHER CAUSES	296
TOTAL	978

45-64 YEARS

CAUSE	NUMBER
CANCER	1,389
HEART DISEASE	845
UNINTENTIONAL INJURIES	322
CHRON. LOWER RESP. DIS.	235
SUICIDE	170
OTHER CAUSES	1,607
TOTAL	4,568

65-84 YEARS

CAUSE	NUMBER
CANCER	2,802
HEART DISEASE	2,022
CHRON. LOWER RESP. DIS.	939
CEREBROVASC. DIS.	490
UNINTENTIONAL INJURIES	327
OTHER CAUSES	3,539
TOTAL	10,119

85 YEARS AND OVER

CAUSE	NUMBER
HEART DISEASE	2,344
CANCER	1,024
CEREBROVASC. DIS.	655
ALZHEIMER'S DISEASE	478
CHRON. LOWER RESP. DIS.	478
OTHER CAUSES	4,061
TOTAL	9,040

Figure 32

Table 61
Heart Disease Deaths by Component and Sex of Decedent, by Age-Group of Decedent
Kansas, 2013

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	5,331	5	2	3	6	28	76	295	550	754	1,268	2,344	0
Male	2,787	2	1	0	2	16	55	209	389	470	703	940	0
Female	2,544	3	1	3	4	12	21	86	161	284	565	1,404	0
Acute Rheumatic Fever and Chronic Rheumatic Heart Disease	37	0	0	0	0	0	0	1	6	9	10	11	0
Male	15	0	0	0	0	0	0	0	3	2	5	5	0
Female	22	0	0	0	0	0	0	1	3	7	5	6	0
Hypertensive Heart Disease with or without Renal Disease	126	0	0	0	0	2	2	10	20	13	21	58	0
Male	55	0	0	0	0	0	2	8	13	5	11	16	0
Female	71	0	0	0	0	2	0	2	7	8	10	42	0
Ischemic Heart Disease	2,969	0	0	0	0	8	40	194	371	485	744	1,127	0
Male	1,756	0	0	0	0	5	31	153	286	320	449	512	0
Female	1,213	0	0	0	0	3	9	41	85	165	295	615	0
Pulmonary Heart Disease and Diseases of Pulmonary Circulation	163	2	1	1	5	6	1	17	17	31	37	45	0
Male	65	0	0	0	1	2	1	4	8	14	15	20	0
Female	98	2	1	1	4	4	0	13	9	17	22	25	0
Other Forms of Heart Disease	2,036	3	1	2	1	12	33	73	136	216	456	1,103	0
Male	896	2	1	0	1	9	21	44	79	129	223	387	0
Female	1,140	1	0	2	0	3	12	29	57	87	233	716	0

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

Table 62
Malignant Neoplasm Deaths
by Site of Lesion and Sex of Decedent, by Age-Group of Decedent
Kansas, 2013

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)	5,350	0	3	9	11	32	80	389	1,000	1,382	1,420	1,024
Male	2,817	0	1	2	7	18	32	194	569	759	769	466
Female	2,533	0	2	7	4	14	48	195	431	623	651	558
Lip, Oral Cavity and Pharynx	68	0	0	0	0	1	1	4	23	17	15	7
Male	41	0	0	0	0	1	1	3	13	12	6	5
Female	27	0	0	0	0	0	0	1	10	5	9	2
Digestive Organs	1,369	0	0	0	3	8	21	111	275	346	348	257
Male	774	0	0	0	1	4	14	67	197	199	201	91
Female	595	0	0	0	2	4	7	44	78	147	147	166
Respiratory and Intrathoracic Organs	1,474	0	0	0	0	2	9	102	287	446	437	191
Male	818	0	0	0	0	2	1	58	163	251	248	95
Female	656	0	0	0	0	0	8	44	124	195	189	96
Bone and Articular Cartilage	15	0	0	1	0	2	0	1	3	2	1	5
Male	6	0	0	1	0	0	0	1	1	1	1	1
Female	9	0	0	0	0	2	0	0	2	1	0	4
Skin	148	0	0	0	0	2	5	14	27	30	38	32
Male	106	0	0	0	0	1	3	10	21	23	31	17
Female	42	0	0	0	0	1	2	4	6	7	7	15
Mesothelial and Soft Tissue	81	0	0	0	0	3	2	3	24	21	19	9
Male	44	0	0	0	0	2	1	0	14	10	12	5
Female	37	0	0	0	0	1	1	3	10	11	7	4
Breast	336	0	0	0	0	1	11	47	74	63	63	77
Male	3	0	0	0	0	0	0	0	2	0	1	0
Female	333	0	0	0	0	1	11	47	72	63	62	77
Genital Organs	495	0	0	0	0	2	10	28	69	114	128	144
Male	253	0	0	0	0	1	0	6	21	52	75	98
Female	242	0	0	0	0	1	10	22	48	62	53	46
Urinary Tract	259	0	0	0	0	0	3	17	36	75	78	50
Male	186	0	0	0	0	0	2	11	31	54	53	35
Female	73	0	0	0	0	0	1	6	5	21	25	15
Eye and Adnexa	4	0	0	0	0	0	1	1	0	0	1	1
Male	3	0	0	0	0	0	1	1	0	0	1	0
Female	1	0	0	0	0	0	0	0	0	0	0	1
Meninges, Brain and Other Parts of Central Nervous System	169	0	2	7	3	5	9	20	42	44	22	15
Male	81	0	1	1	2	3	5	15	24	19	4	7
Female	88	0	1	6	1	2	4	5	18	25	18	8
Thyroid and Other Endocrine Glands	19	0	0	1	0	0	0	1	2	4	7	4
Male	6	0	0	0	0	0	0	1	0	2	3	0
Female	13	0	0	1	0	0	0	0	2	2	4	4
Other and Unspecified Sites	352	0	0	0	1	1	3	20	64	86	80	97
Male	172	0	0	0	1	1	0	10	40	50	32	38
Female	180	0	0	0	0	0	3	10	24	36	48	59
Leukemia	228	0	1	0	4	2	5	11	26	52	79	48
Male	141	0	0	0	3	2	4	5	11	37	48	31
Female	87	0	1	0	1	0	1	6	15	15	31	17
Other Lymphoid, Hematopoietic and Related Tissue	333	0	0	0	0	3	0	9	48	82	104	87
Male	183	0	0	0	0	1	0	6	31	49	53	43
Female	150	0	0	0	0	2	0	3	17	33	51	44

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

Table 63
Cerebrovascular Disease Deaths by Age-Group and Sex of Decedent
Kansas, 2013

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	1,306	1	1	1	1	1	15	47	94	166	324	655
Male	523	1	1	1	1	1	10	27	54	76	144	207
Female	783	0	0	0	0	0	5	20	40	90	180	448
Subarachnoid Hemorrhage	47	0	0	0	0	0	4	6	14	5	11	7
Male	19	0	0	0	0	0	2	4	5	1	7	0
Female	28	0	0	0	0	0	2	2	9	4	4	7
Intracerebral and Other Intercranial Hemorrhage	237	1	1	0	0	0	8	18	27	35	68	79
Male	115	1	1	0	0	0	6	10	18	15	33	31
Female	122	0	0	0	0	0	2	8	9	20	35	48
Cerebral Infarction	50	0	0	0	0	0	2	4	9	10	10	15
Male	31	0	0	0	0	0	1	3	8	6	7	6
Female	19	0	0	0	0	0	1	1	1	4	3	9
Stroke, Not Specified as Hemorrhage or Infarction	762	0	0	0	1	1	1	19	36	94	188	422
Male	286	0	0	0	1	1	1	10	21	44	77	131
Female	476	0	0	0	0	0	0	9	15	50	111	291
Other Cerebrovascular Diseases	210	0	0	1	0	0	0	0	8	22	47	132
Male	72	0	0	1	0	0	0	0	2	10	20	39
Female	138	0	0	0	0	0	0	0	6	12	27	93

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

Table 64
Unintentional Injury Deaths by Age-Group and Sex of Decedent
Kansas, 2013

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	1,398	8	17	25	118	142	140	169	153	120	207	299
Male	848	7	12	13	85	107	85	112	111	76	120	120
Female	550	1	5	12	33	35	55	57	42	44	87	179
Motor-Vehicle	368	0	4	12	71	67	42	43	36	32	36	25
Male	259	0	3	7	50	51	29	32	26	25	21	15
Female	109	0	1	5	21	16	13	11	10	7	15	10
Traffic	*347*	*0*	*4*	*9*	*65*	*64*	*42*	*41*	*35*	*30*	*35*	*22*
Male	*245*	*0*	*3*	*6*	*47*	*48*	*29*	*30*	*25*	*23*	*20*	*14*
Female	*102*	*0*	*1*	*3*	*18*	*16*	*13*	*11*	*10*	*7*	*15*	*8*
Non-Traffic	*21*	*0*	*0*	*3*	*6*	*3*	*0*	*2*	*1*	*2*	*1*	*3*
Male	*14*	*0*	*0*	*1*	*3*	*3*	*0*	*2*	*1*	*2*	*1*	*1*
Female	*7*	*0*	*0*	*2*	*3*	*0*	*0*	*0*	*0*	*0*	*0*	*2*
Water Transport	4	0	1	1	0	0	0	2	0	0	0	0
Male	4	0	1	1	0	0	0	2	0	0	0	0
Female	0	0	0	0	0	0	0	0	0	0	0	0
Air and Space Transport	6	0	0	0	0	1	1	1	0	3	0	0
Male	6	0	0	0	0	1	1	1	0	3	0	0
Female	0	0	0	0	0	0	0	0	0	0	0	0
Falls	397	0	0	0	2	2	4	8	27	40	118	196
Male	198	0	0	0	1	2	4	4	21	20	69	77
Female	199	0	0	0	1	0	0	4	6	20	49	119
Inanimate Mechanical Forces	30	0	1	4	2	4	0	6	4	3	2	4
Male	27	0	1	2	2	4	0	6	4	3	1	4
Female	3	0	0	2	0	0	0	0	0	0	1	0
Drowning and Submersion	49	0	3	4	9	7	10	7	4	2	1	2
Male	40	0	1	3	9	7	8	5	3	2	1	1
Female	9	0	2	1	0	0	2	2	1	0	0	1
Other Accidental Threats to Breathing	67	8	3	0	0	2	4	4	9	6	16	15
Male	36	7	2	0	0	1	2	2	6	5	5	6
Female	31	1	1	0	0	1	2	2	3	1	11	9

Table 64
Unintentional Injury Deaths by Age-Group and Sex of Decedent
Kansas, 2013

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	4	0	0	1	0	2	1	0	0	0	0	0
Male	3	0	0	0	0	2	1	0	0	0	0	0
Female	1	0	0	1	0	0	0	0	0	0	0	0
Smoke, Fire and Flames	28	0	5	2	1	1	0	3	4	4	5	3
Male	19	0	4	0	0	1	0	3	3	3	3	2
Female	9	0	1	2	1	0	0	0	1	1	2	1
Forces of Nature	11	0	0	0	1	0	1	1	2	0	4	2
Male	9	0	0	0	0	0	1	1	2	0	4	1
Female	2	0	0	0	1	0	0	0	0	0	0	1
Poisonings	299	0	0	0	26	52	74	80	49	10	4	4
Male	178	0	0	0	20	36	36	42	37	2	4	1
Female	121	0	0	0	6	16	38	38	12	8	0	3
Other Unintentional Injuries	94	0	0	1	6	4	3	9	7	14	12	38
Male	49	0	0	0	3	2	3	9	6	10	8	8
Female	45	0	0	1	3	2	0	0	1	4	4	30
Complications of Medical and Surgical Care	41	0	0	0	0	0	0	5	11	6	9	10
Male	20	0	0	0	0	0	0	5	3	3	4	5
Female	21	0	0	0	0	0	0	0	8	3	5	5

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

Table 65
Selected External Cause of Deaths
by Injury Matrix Groups and Intent,
Kansas, 2013*

Cause Group †	Total	Unintentional	Suicide	Homicide	Undetermined	Legal/War
Total	1,957	1,357	426	120	52	2
Cut/Pierce	18	1	7	9	1	0
Drowning	54	49	2	0	3	0
Falls	400	397	2	0	1	0
Fire/flame	38	28	4	5	1	0
Hot Object/Scalding	2	2	0	0	0	0
Firearm	328	3	240	80	3	2
Machinery	11	11	0	0	0	0
Motor Vehicle Traffic	347	347	0	0	0	0
Other Pedal Cyclist	2	2	0	0	0	0
Other Pedestrian	10	10	0	0	0	0
Other Land Transport	20	16	2	1	1	0
Other Transport	10	10	0	0	0	0
Natural/Environmental	12	12	0	0	0	0
Overexertion	0	0	0	0	0	0
Poisoning	392	299	62	2	29	0
Struck By/Against	12	10	0	2	0	0
Suffocation	171	67	96	7	1	0
Other Specified	23	19	3	1	0	0
NEC	12	8	1	2	1	0
Not Specified	95	66	7	11	11	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 66
Selected Chronic Disease Deaths by Component and Sex of Decedent, by Age-Group of Decedent
Kansas, 2013

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	3,833	0	0	2	9	17	49	200	453	730	1,070	1,303
Male	1,818	0	0	2	7	12	30	114	265	379	515	494
Female	2,015	0	0	0	2	5	19	86	188	351	555	809
Diabetes mellitus	649	0	0	0	6	4	20	47	102	143	158	169
Male	324	0	0	0	4	3	15	29	68	74	69	62
Female	325	0	0	0	2	1	5	18	34	69	89	107
Primary Hypertension/Hypertensive Renal Dis. And Secondary Hypertension	219	0	0	0	0	0	3	7	18	31	61	99
Male	81	0	0	0	0	0	2	4	12	11	26	26
Female	138	0	0	0	0	0	1	3	6	20	35	73
Atherosclerosis	422	0	0	0	0	0	0	2	14	30	104	272
Male	161	0	0	0	0	0	0	0	8	15	47	91
Female	261	0	0	0	0	0	0	2	6	15	57	181
Chronic Lower Respiratory Diseases	1,664	0	0	2	0	3	7	49	186	401	538	478
Male	803	0	0	2	0	2	3	21	95	207	269	204
Female	861	0	0	0	0	1	4	28	91	194	269	274
Peptic Ulcer	32	0	0	0	0	0	2	3	1	2	11	13
Male	12	0	0	0	0	0	1	1	1	2	3	4
Female	20	0	0	0	0	0	1	2	0	0	8	9
Chronic Liver Disease and Cirrhosis	249	0	0	0	0	6	13	76	78	42	24	10
Male	176	0	0	0	0	4	8	50	59	35	15	5
Female	73	0	0	0	0	2	5	26	19	7	9	5
Nephritis, Nephrotic Syndrome, and Nephrosis	598	0	0	0	3	4	4	16	54	81	174	262
Male	261	0	0	0	3	3	1	9	22	35	86	102
Female	337	0	0	0	0	1	3	7	32	46	88	160

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

Table 67
Deaths by Occupation of Decedent* by
Selected Causes of Death
Kansas, 2013

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	25,347	5,331	5,350	1,306	1,398	1,664	426	422	249	120	32	219	8,830
Management	2,910	700	676	142	144	178	37	43	22	6	4	15	943
Business and Financial Operations	661	128	181	33	27	48	12	13	12	0	1	1	205
Computer and Mathematical	164	34	45	6	13	9	10	1	3	0	0	0	43
Architecture and Engineering	470	98	118	24	24	28	9	11	11	0	0	1	146
Life, Physical, and Social Services	149	32	37	6	6	5	5	3	3	0	0	1	51
Community and Social Services	321	68	70	14	10	16	6	6	4	2	0	2	123
Legal	103	26	25	3	3	4	4	1	0	1	0	1	35
Education, Training, and Library	1,104	244	246	59	33	51	7	23	3	2	1	12	423
Arts, Design, Entertainment, Sports, and Media	277	46	83	8	14	15	9	6	2	1	0	2	91
Healthcare Practitioners and Technical	896	183	209	41	45	49	12	16	5	2	0	11	323
Healthcare Support	498	93	97	32	22	41	5	8	6	2	1	2	189
Protective Service	287	53	70	14	11	26	7	1	5	1	0	2	97
Food Preparation and Serving Related	616	120	121	37	42	33	7	5	7	6	0	9	229
Building and Grounds Cleaning and Maintenance	954	219	210	54	48	62	15	12	7	4	0	7	316
Personal Care and Service	424	72	99	23	24	33	5	6	3	1	1	2	155
Sales and Related	1,852	403	396	100	100	131	28	35	16	4	2	19	618
Office and Admin. Support	2,376	456	528	161	106	134	28	61	18	6	6	24	848
Farming, Forestry, and Fishing	88	23	19	5	7	3	5	0	0	0	0	0	26
Construction and Extraction	1,441	306	358	49	112	140	48	12	31	14	1	9	361
Installation, Repair, and Maintenance	800	184	191	36	55	69	20	10	12	5	1	4	213
Production	1,697	373	378	103	74	132	36	28	17	5	2	15	534
Transportation and Material Moving	1,419	315	333	57	84	110	28	22	34	10	2	15	409
Housewives, Students, Children, Volunteers, and None[§]	4,886	970	684	270	291	290	59	90	23	35	9	54	2,111
n.s.	954	185	176	29	103	57	24	9	5	13	1	11	341

*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 68
Deaths by Industry* of Decedent's Occupation by Selected Causes of Death
Kansas, 2013

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	25,347	5,331	5,350	1,306	1,398	1,664	426	422	249	120	32	219	8,830
Agriculture, Forestry, Fishing and Hunting	1,393	371	290	72	72	86	18	7	12	2	0	6	457
Mining	214	49	48	7	15	19	6	1	3	2	1	0	63
Utilities	314	66	77	17	19	25	7	4	6	0	0	1	92
Construction	1,493	309	393	52	106	123	53	16	35	12	1	11	382
Manufacturing	2,783	640	656	154	129	193	43	51	24	8	3	21	861
Wholesale Trade	467	111	111	21	28	30	5	10	10	1	0	8	132
Retail Trade	1,812	398	366	95	91	127	30	46	18	7	4	19	611
Transportation and Warehousing	1,270	291	297	55	72	108	24	25	24	6	1	10	357
Information	529	88	130	30	25	37	11	13	6	1	0	5	183
Finance and Insurance	735	144	185	45	31	44	9	17	4	1	2	3	250
Real Estate, and Rental, and Leasing	213	40	61	9	11	16	4	5	1	1	0	4	61
Professional, Scientific and Technical Services	583	117	134	40	21	28	16	16	7	1	0	1	202
Management of Companies and Enterprises	4	0	3	0	0	1	0	0	0	0	0	0	0
Admin. and Support & Waste Management Services	332	63	79	13	29	27	12	2	6	8	0	2	91
Educational Services	1,793	369	408	104	69	80	29	37	9	10	1	14	663
Health Care and Social Assistance	2,062	402	484	114	93	134	30	30	13	7	4	16	735
Arts, Entertainment, and Recreation	137	32	34	3	9	13	2	1	3	0	0	0	40
Accommodation and Food Services	657	131	130	31	45	52	11	9	9	7	2	9	221
Other Services (except Public Admin.)	1,453	310	295	72	89	89	22	20	13	4	0	9	530
Public Admin. and Active Duty Military	1,454	277	346	72	73	94	26	18	14	3	4	16	511
Housewives, Students, Children, Volunteers and None[§]	4,829	966	680	270	280	289	49	89	23	26	9	54	2,094
n.s.	820	157	143	30	91	49	19	5	9	13	0	10	294

*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.

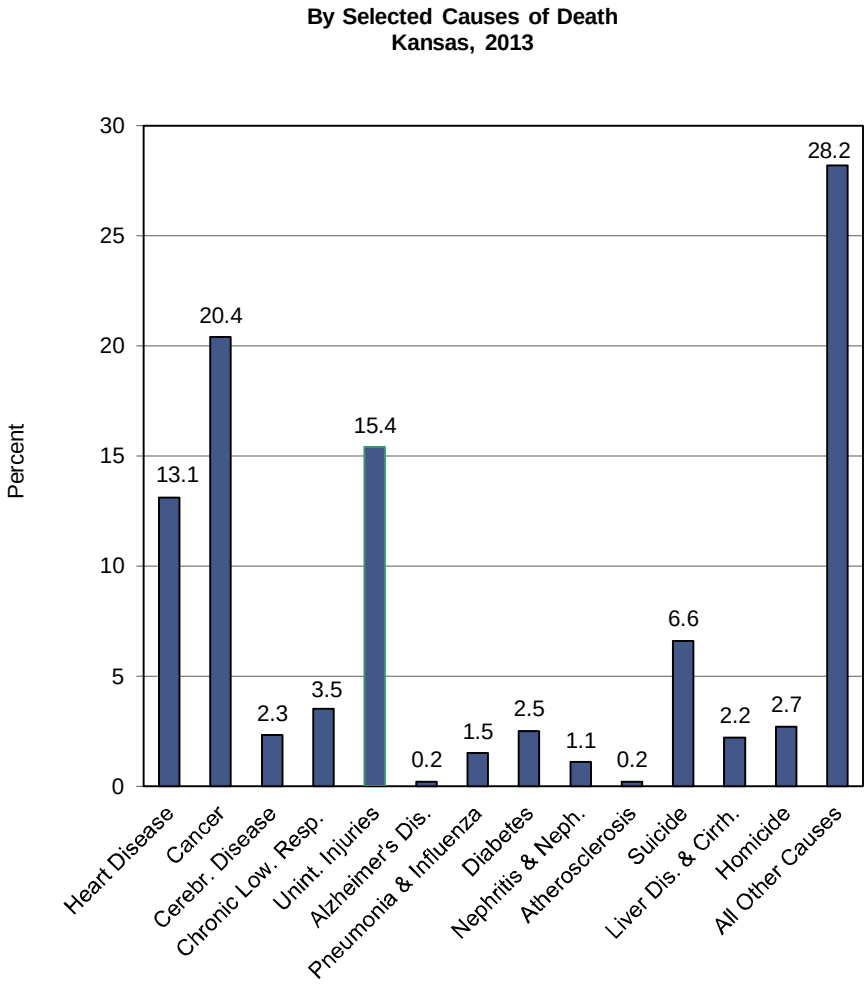
Table 69
Selected Causes of Death and Years of Potential Life Lost (YPLL)
Before Age 75
Kansas, 2013

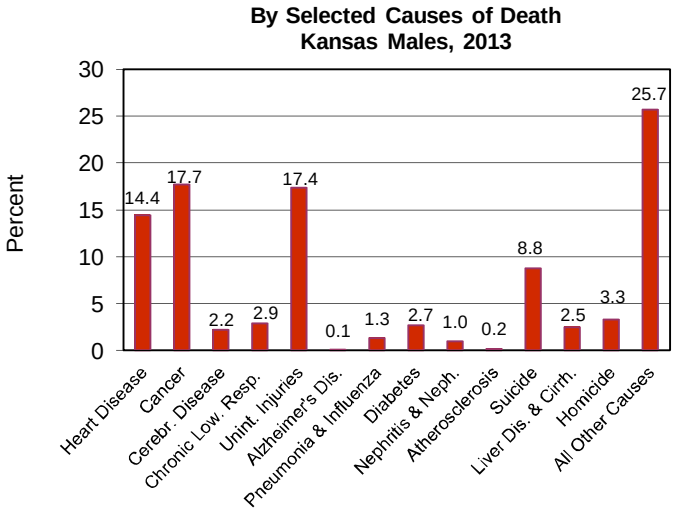
CAUSE OF DEATH *	Number of Deaths	Total Years Life Lost	Percent Years Lost By Cause	Rate† Years Lost By Cause
Total Deaths	25,346	186,120	100.0	64.3
Cancer	5,350	37,954	20.4	13.1
Heart Disease	5,331	24,451	13.1	8.4
Chronic Lower Respiratory Dis.	1,664	6,590	3.5	2.3
Unintentional Injuries	1,398	28,670	15.4	9.9
Cerebrovascular Disease	1,306	4,234	2.3	1.5
Alzheimer's Disease	740	373	0.2	0.1
Pneumonia and Influenza	708	2,756	1.5	1.0
Diabetes	649	4,743	2.5	1.6
Nephritis and Nephrotic Syndrome	598	2,078	1.1	0.7
Suicide	426	12,279	6.6	4.2
Atherosclerosis	422	377	0.2	0.1
Chronic Liver Disease and Cirrhosis	249	4,049	2.2	1.4
Homicide	120	5,111	2.7	1.8
All Other Causes	6,385	52,455	28.2	18.1
Male Deaths	12,468	113,819	100.0	78.9
Cancer	2,817	20,094	17.7	13.9
Heart Disease	2,787	16,390	14.4	11.4
Chronic Lower Respiratory Dis.	803	3,309	2.9	2.3
Unintentional Injuries	848	19,765	17.4	13.7
Cerebrovascular Disease	523	2,496	2.2	1.7
Diabetes	324	3,042	2.7	2.1
Suicide	346	10,027	8.8	7.0
Pneumonia and Influenza	316	1,456	1.3	1.0
Nephritis and Nephrotic Syndrome	261	1,086	1.0	0.8
Alzheimer's Disease	211	158	0.1	0.1
Chronic Liver Disease and Cirrhosis	176	2,832	2.5	2.0
Atherosclerosis	161	195	0.2	0.1
Homicide	87	3,712	3.3	2.6
All Other Causes	2,808	29,257	25.7	20.3
Female Deaths	12,878	72,301	100.0	49.8
Heart Disease	2,544	8,061	11.1	5.6
Cancer	2,533	17,860	24.7	12.3
Chronic Lower Respiratory Dis.	861	3,281	4.5	2.3
Cerebrovascular Disease	783	1,738	2.4	1.2
Unintentional Injuries	550	8,905	12.3	6.1
Alzheimer's Disease	529	215	0.3	0.1
Pneumonia and Influenza	392	1,300	1.8	0.9
Nephritis and Nephrotic Syndrome	337	992	1.4	0.7
Diabetes	325	1,701	2.4	1.2
Atherosclerosis	261	182	0.3	0.1
Suicide	80	2,252	3.1	1.6
Chronic Liver Disease and Cirrhosis	73	1,217	1.7	0.8
Homicide	33	1,399	1.9	1.0
All Other Causes	3,577	23,198	32.1	16.0

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

†Rate per 1,000 population. One death for which age was unknown is omitted from total.

Percent Years of Potential Life Lost Before Age 75





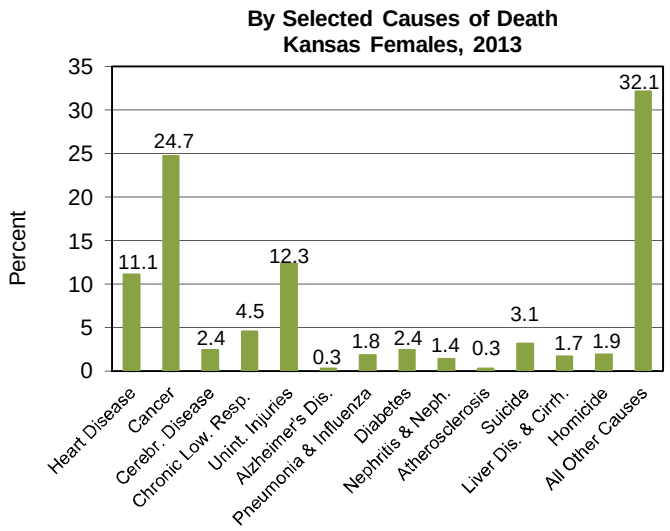


Figure 33

Table 70
Deaths by Number and Percent Related to Tobacco
by County of Residence and by Peer Group*
Kansas, 2013

County of Residence	Did Tobacco Use Contribute to this death? Yes	Probably	No	Unknown	Total Deaths	Yes + Probably as Percent of Known
Kansas	2,192	1,274	11,105	10,776	25,347	23.8
Allen	14	9	81	95	199	22.1
Anderson	3	8	45	37	93	19.6
Atchison	15	10	82	63	170	23.4
Barber	8	0	30	23	61	21.1
Barton	24	14	80	143	261	32.2
Bourbon	24	10	99	63	196	25.6
Brown	10	14	57	55	136	29.6
Butler	33	21	277	303	634	16.3
Chase	3	1	10	20	34	28.6
Chautauqua	6	3	37	14	60	19.6
Cherokee	22	17	86	122	247	31.2
Cheyenne	4	2	13	12	31	31.6
Clark	5	2	14	8	29	33.3
Clay	11	7	53	44	115	25.4
Cloud	11	3	53	54	121	20.9
Coffey	9	9	41	50	109	30.5
Comanche	3	3	16	12	34	27.3
Cowley	47	18	177	198	440	26.9
Crawford	38	28	143	174	383	31.6
Decatur	4	3	21	11	39	25.0
Dickinson	19	10	105	90	224	21.6
Doniphan	7	4	31	35	77	26.2
Douglas	44	42	270	294	650	24.2
Edwards	8	2	5	15	30	66.7
Elk	3	1	19	22	45	17.4
Ellis	19	3	90	134	246	19.6
Ellsworth	8	4	42	35	89	22.2
Finney	18	8	103	88	217	20.2
Ford	17	12	114	101	244	20.3
Franklin	33	20	118	85	256	31.0
Geary	32	10	97	60	199	30.2
Gove	4	2	34	10	50	15.0
Graham	1	2	13	4	20	18.8
Grant	4	2	17	17	40	26.1
Gray	3	0	26	15	44	10.3
Greeley	3	1	8	4	16	33.3
Greenwood	15	7	31	44	97	41.5
Hamilton	6	2	6	12	26	57.1
Harper	3	7	32	34	76	23.8
Harvey	27	18	203	151	399	18.1
Haskell	5	3	12	11	31	40.0
Hodgeman	1	1	10	8	20	16.7
Jackson	10	4	77	34	125	15.4
Jefferson	14	6	68	81	169	22.7
Jewell	5	2	10	26	43	41.2
Johnson	263	167	1,974	1,310	3,714	17.9
Kearny	8	2	32	8	50	23.8
Kingman	9	4	53	33	99	19.7
Kiowa	4	0	14	12	30	22.2
Labette	19	9	89	143	260	23.9
Lane	0	0	13	4	17	0.0
Leavenworth	57	45	187	275	564	35.3
Lincoln	3	1	7	20	31	36.4
Linn	13	1	41	59	114	25.5
Logan	8	2	15	16	41	40.0

Table 70
Deaths by Number and Percent Related to Tobacco
by County of Residence and by Peer Group*
Kansas, 2013

County of Residence	Did Tobacco Use Contribute to this death? Yes	Probably	No	Unknown	Total Deaths	Yes + Probably as Percent of Known
Lyon	38	17	121	119	295	31.3
McPherson	27	10	184	159	380	16.7
Marion	9	12	98	47	166	17.6
Marshall	7	10	45	59	121	27.4
Meade	11	1	31	12	55	27.9
Miami	20	14	147	72	253	18.8
Mitchell	12	1	44	39	96	22.8
Montgomery	48	17	127	208	400	33.9
Morris	11	2	42	13	68	23.6
Morton	3	0	20	19	42	13.0
Nemaha	4	8	66	56	134	15.4
Neosho	30	6	110	51	197	24.7
Ness	2	1	25	20	48	10.7
Norton	13	5	28	15	61	39.1
Osage	24	9	84	72	189	28.2
Osborne	3	3	28	31	65	17.6
Ottawa	8	5	33	24	70	28.3
Pawnee	7	7	22	36	72	38.9
Phillips	6	4	40	24	74	20.0
Pottawatomie	26	7	67	76	176	33.0
Pratt	12	9	72	42	135	22.6
Rawlins	1	5	26	18	50	18.8
Reno	87	30	331	324	772	26.1
Republic	3	3	25	57	88	19.4
Rice	10	10	60	49	129	25.0
Riley	36	10	171	96	313	21.2
Rooks	7	2	30	23	62	23.1
Rush	5	6	18	16	45	37.9
Russell	6	3	28	47	84	24.3
Saline	63	39	201	241	544	33.7
Scott	3	0	10	34	47	23.1
Sedgwick	272	193	1,513	2,133	4,111	23.5
Seward	13	7	44	57	121	31.3
Shawnee	146	96	905	567	1,714	21.1
Sheridan	1	2	10	10	23	23.1
Sherman	13	5	26	44	88	40.9
Smith.	9	6	47	6	68	24.2
Stafford	3	3	22	26	54	21.4
Stanton	0	2	7	3	12	22.2
Stevens	11	2	22	10	45	37.1
Sumner	27	14	98	118	257	29.5
Thomas	12	7	34	28	81	35.8
Trego	3	1	13	23	40	23.5
Wabaunsee	4	5	30	34	73	23.1
Wallace	2	1	6	10	19	33.3
Washington	10	1	36	26	73	23.4
Wichita	0	2	16	11	29	11.1
Wilson	13	8	51	59	131	29.2
Woodson	8	5	27	25	65	32.5
Wyandotte	116	72	483	696	1,367	28.0
n.s.	0	0	0	0	0	n/a
Peer Group						
Frontier	165	79	683	577	1,504	26.3
Rural	258	169	1,285	1,168	2,880	24.9
Densely -Settled Rural	454	204	1,990	2,042	4,690	24.8
Semi-Urban	417	207	1,815	1,714	4,153	25.6
Urban	898	615	5,332	5,275	12,120	22.1

* See Technical Notes for Peer Group definition.

Table 71
Deaths from 39 Selected Causes by Number and Percent and Sex of Decedent
Related to Tobacco
Kansas, 2013

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	25,347	2,192	1,274	23.8	11,105	14,571	10,776
Male	12,469	1,273	804	30.0	4,856	6,933	5,536
Female	12,878	919	470	18.2	6,249	7,638	5,240
Tuberculosis	6	1	1	50.0	2	4	2
Male	4	1	1	66.7	1	3	1
Female	2	0	0	0.0	1	1	1
Syphilis	0	0	0		0	0	0
Male	0	0	0		0	0	0
Female	0	0	0		0	0	0
HIV/AIDS	28	3	1	20.0	16	20	8
Male	21	2	0	14.3	12	14	7
Female	7	1	1	33.3	4	6	1
Cancer of Stomach	84	7	6	23.6	42	55	29
Male	51	7	3	31.3	22	32	19
Female	33	0	3	13.0	20	23	10
Cancer of Colon, Rectum & Anus	511	12	14	9.7	243	269	242
Male	265	8	9	13.3	111	128	137
Female	246	4	5	6.4	132	141	105
Cancer of Pancreas	362	6	5	6.0	173	184	178
Male	175	4	2	7.1	79	85	90
Female	187	2	3	5.1	94	99	88
Cancer of Trachea, Bronchus & Lung	1,438	554	233	86.2	126	913	525
Male	790	312	132	89.0	55	499	291
Female	648	242	101	82.9	71	414	234
Cancer of Breast	336	8	3	5.9	175	186	150
Male	3	0	0	0.0	3	3	0
Female	333	8	3	6.0	172	183	150
Cancer of Cervix, Corpus & Ovary	219	3	0	2.1	138	141	78
Male	0	0	0		0	0	0
Female	219	3	0	2.1	138	141	78
Cancer of Prostate	246	7	5	7.6	146	158	88
Male	246	7	5	7.6	146	158	88
Female	0	0	0		0	0	0

Table 71
Deaths from 39 Selected Causes by Number and Percent and Sex of Decedent
Related to Tobacco
Kansas, 2013

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	259	19	25	32.8	90	134	125
Male	186	15	23	38.4	61	99	87
Female	73	4	2	17.1	29	35	38
Non-Hodgkin's Lymphoma	199	2	9	9.5	105	116	83
Male	105	1	4	8.3	55	60	45
Female	94	1	5	10.7	50	56	38
Leukemia	228	4	1	3.9	124	129	99
Male	141	4	1	6.6	71	76	65
Female	87	0	0	0.0	53	53	34
Other Malignant Neoplasms	1,468	77	95	20.5	665	837	631
Male	855	56	68	26.4	345	469	386
Female	613	21	27	13.0	320	368	245
Diabetes mellitus	649	49	45	25.2	279	373	276
Male	324	30	30	34.1	116	176	148
Female	325	19	15	17.3	163	197	128
Alzheimer's Disease	740	7	10	3.5	465	482	258
Male	211	4	6	7.8	119	129	82
Female	529	3	4	2.0	346	353	176
Hypertensive Heart Disease	126	10	4	23.0	47	61	65
Male	55	6	2	30.8	18	26	29
Female	71	4	2	17.1	29	35	36
Ischemic Heart Disease	2,969	314	225	35.7	971	1,510	1,459
Male	1,756	205	178	45.6	457	840	916
Female	1,213	109	47	23.3	514	670	543
Other Heart Disease	2,236	87	88	14.9	999	1,174	1,062
Male	976	49	67	24.6	355	471	505
Female	1,260	38	21	8.4	644	703	557
Prim. Hypertension/ Hypertensive Renal Dis. & Sec. Hypertension	219	13	8	16.2	109	130	89
Male	81	8	6	34.1	27	41	40
Female	138	5	2	7.9	82	89	49

Table 71
Deaths from 39 Selected Causes by Number and Percent and Sex of Decedent
Related to Tobacco
Kansas, 2013

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	1,306	40	42	11.8	612	694	612
Male	523	23	22	16.8	223	268	255
Female	783	17	20	8.7	389	426	357
Atherosclerosis	422	6	3	2.4	360	369	53
Male	161	5	2	5.2	127	134	27
Female	261	1	1	0.9	233	235	26
Other Disease of Circulatory System	175	25	13	40.0	57	95	80
Male	94	17	9	53.1	23	49	45
Female	81	8	4	26.1	34	46	35
Pneumonia & Influenza	709	20	16	10.3	312	348	361
Male	316	14	11	18.2	112	137	179
Female	393	6	5	5.2	200	211	182
Chronic Lower Respiratory Disease	1,664	688	212	83.1	183	1,083	581
Male	803	361	109	87.2	69	539	264
Female	861	327	103	79.0	114	544	317
Peptic Ulcer	32	3	2	25.0	15	20	12
Male	12	1	1	28.6	5	7	5
Female	20	2	1	23.1	10	13	7
Chonic Liver Disease & Cirrhosis	249	9	15	16.3	123	147	102
Male.	176	6	11	16.3	87	104	72
Female	73	3	4	16.3	36	43	30
Nephritis, Nephrotic Syndrome & Nephrosis	598	16	12	9.4	269	297	301
Male	261	7	8	12.8	102	117	144
Female	337	9	4	7.2	167	180	157
Pregnancy, Childbirth, & the Puerperium	12	0	0	0.0	9	9	3
Male	0	0	0		0	0	0
Female	12	0	0	0.0	9	9	3
Certain Conditons Originating In the Perinatal Period	115	1	1	2.3	84	86	29
Male	65	1	1	3.8	50	52	13
Female	50	0	0	0.0	34	34	16

Table 71
Deaths from 39 Selected Causes by Number and Percent and Sex of Decedent
Related to Tobacco
Kansas, 2013

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	109	4	0	4.7	82	86	23
Male	54	2	0	4.7	41	43	11
Female	55	2	0	4.7	41	43	12
Sudden Infant Death Syndrome	34	1	0	3.6	27	28	6
Male	19	0	0	0.0	14	14	5
Female	15	1	0	7.1	13	14	1
Symptoms and Abnormal Findings	540	6	1	3.3	208	215	325
Male	244	3	1	5.3	72	76	168
Female	296	3	0	2.2	136	139	157
All Other Diseases	5,061	154	152	10.7	2,560	2,866	2,195
Male	2,184	89	82	14.6	997	1,168	1,016
Female	2,877	65	70	8.0	1,563	1,698	1,179
Motor Vehicle Accidents	368	0	0	0.0	281	281	87
Male	259	0	0	0.0	198	198	61
Female	109	0	0	0.0	83	83	26
All Other Accidents and Adverse Effects	1,030	31	24	9.3	537	592	438
Male	589	23	9	9.4	309	341	248
Female	441	8	15	9.2	228	251	190
Suicide	426	1	2	0.9	337	340	86
Male	346	1	0	0.4	278	279	67
Female	80	0	2	3.3	59	61	19
Homicide	120	2	0	1.9	104	106	14
Male	87	1	0	1.3	77	78	9
Female	33	1	0	3.6	27	28	5
All Other External Causes	54	2	1	9.1	30	33	21
Male	31	0	1	5.0	19	20	11
Female	23	2	0	15.4	11	13	10

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

Table 72
Deaths from 39 Selected Causes
by Age-Group and Sex of Decedent
Kansas, 2013

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	25,347	248	59	65	265	402	576	1,574	2,994	4,064	6,059	9,040	1
Male	12,469	138	38	29	199	273	340	943	1,861	2,241	3,080	3,326	1
Female	12,878	110	21	36	66	129	236	631	1,133	1,823	2,979	5,714	0
Tuberculosis	6	0	0	0	0	0	0	1	0	1	1	3	0
Male	4	0	0	0	0	0	0	1	0	1	0	2	0
Female	2	0	0	0	0	0	0	0	0	0	1	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	28	0	0	0	1	1	3	13	7	3	0	0	0
Male	21	0	0	0	1	0	2	11	5	2	0	0	0
Female	7	0	0	0	0	1	1	2	2	1	0	0	0
Cancer of Stomach	84	0	0	0	2	0	3	5	21	17	20	16	0
Male	51	0	0	0	1	0	2	3	11	15	12	7	0
Female	33	0	0	0	1	0	1	2	10	2	8	9	0
Cancer of Colon, Rectum & Anus	511	0	0	0	1	4	11	51	93	119	116	116	0
Male	265	0	0	0	0	1	7	27	63	59	68	40	0
Female	246	0	0	0	1	3	4	24	30	60	48	76	0
Cancer of Pancreas	362	0	0	0	0	2	2	26	56	103	101	72	0
Male	175	0	0	0	0	2	0	17	33	52	50	21	0
Female	187	0	0	0	0	0	2	9	23	51	51	51	0
Cancer of Trachea, Bronchus & Lung	1,438	0	0	0	0	2	8	99	277	437	426	189	0
Male	790	0	0	0	0	2	1	55	156	242	241	93	0
Female	648	0	0	0	0	0	7	44	121	195	185	96	0
Cancer of Breast	336	0	0	0	0	1	11	47	74	63	63	77	0
Male	3	0	0	0	0	0	0	0	2	0	1	0	0
Female	333	0	0	0	0	1	11	47	72	63	62	77	0
Cancer of Cervix, Corpus & Ovary	219	0	0	0	0	1	10	21	44	58	44	41	0
Male	0	0	0	0	0	0	0	0	0	0	0	0	0
Female	219	0	0	0	0	1	10	21	44	58	44	41	0
Cancer of Prostate	246	0	0	0	0	0	0	5	20	52	73	96	0
Male	246	0	0	0	0	0	0	5	20	52	73	96	0
Female	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 72
Deaths from 39 Selected Causes
by Age-Group and Sex of Decedent
Kansas, 2013

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	259	0	0	0	0	0	3	17	36	75	78	50	0
Male	186	0	0	0	0	0	2	11	31	54	53	35	0
Female	73	0	0	0	0	0	1	6	5	21	25	15	0
Non-Hodgkin's Lymphoma	199	0	0	0	0	2	0	6	35	47	57	52	0
Male	105	0	0	0	0	1	0	4	23	29	25	23	0
Female	94	0	0	0	0	1	0	2	12	18	32	29	0
Leukemia	228	0	1	0	4	2	5	11	26	52	79	48	0
Male	141	0	0	0	3	2	4	5	11	37	48	31	0
Female	87	0	1	0	1	0	1	6	15	15	31	17	0
Other Malignant Neoplasms	1,468	0	2	9	4	18	27	101	318	359	363	267	0
Male	855	0	1	2	3	10	16	67	219	219	198	120	0
Female	613	0	1	7	1	8	11	34	99	140	165	147	0
Diabetes mellitus	649	0	0	0	6	4	20	47	102	143	158	169	0
Male	324	0	0	0	4	3	15	29	68	74	69	62	0
Female	325	0	0	0	2	1	5	18	34	69	89	107	0
Alzheimer's Disease	740	0	0	0	0	0	0	0	14	38	210	478	0
Male	211	0	0	0	0	0	0	0	7	14	74	116	0
Female	529	0	0	0	0	0	0	0	7	24	136	362	0
Hypertensive Heart Disease	126	0	0	0	0	2	2	10	20	13	21	58	0
Male	55	0	0	0	0	0	2	8	13	5	11	16	0
Female	71	0	0	0	0	2	0	2	7	8	10	42	0
Ischemic Heart Disease	2,969	0	0	0	0	8	40	194	371	485	744	1,127	0
Male	1,756	0	0	0	0	5	31	153	286	320	449	512	0
Female	1,213	0	0	0	0	3	9	41	85	165	295	615	0
Other Heart Disease	2,236	5	2	3	6	18	34	91	159	256	503	1,159	0
Male	976	2	1	0	2	11	22	48	90	145	243	412	0
Female	1,260	3	1	3	4	7	12	43	69	111	260	747	0
Prim. Hypertension/ Hypertensive Renal Dis. & Sec. Hypertension	219	0	0	0	0	0	3	7	18	31	61	99	0
Male	81	0	0	0	0	0	2	4	12	11	26	26	0
Female	138	0	0	0	0	0	1	3	6	20	35	73	0

Table 72
Deaths from 39 Selected Causes
by Age-Group and Sex of Decedent
Kansas, 2013

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	1,306	1	1	1	1	1	15	47	94	166	324	655	0
Male	523	1	1	1	1	1	10	27	54	76	144	207	0
Female	783	0	0	0	0	0	5	20	40	90	180	448	0
Atherosclerosis	422	0	0	0	0	0	0	2	14	30	104	272	0
Male	161	0	0	0	0	0	0	0	8	15	47	91	0
Female	261	0	0	0	0	0	0	2	6	15	57	181	0
Other Disease of Circulatory System	175	0	0	0	2	1	2	12	9	40	45	64	0
Male	94	0	0	0	2	0	1	6	4	24	32	25	0
Female	81	0	0	0	0	1	1	6	5	16	13	39	0
Pneumonia & Influenza	709	3	2	3	0	2	10	21	59	69	140	400	0
Male	316	3	1	1	0	0	2	10	38	40	71	150	0
Female	393	0	1	2	0	2	8	11	21	29	69	250	0
Chronic Lower Respiratory Disease	1,664	0	0	2	0	3	7	49	186	401	538	478	0
Male	803	0	0	2	0	2	3	21	95	207	269	204	0
Female	861	0	0	0	0	1	4	28	91	194	269	274	0
Peptic Ulcer	32	0	0	0	0	0	2	3	1	2	11	13	0
Male	12	0	0	0	0	0	1	1	1	2	3	4	0
Female	20	0	0	0	0	0	1	2	0	0	8	9	0
Chonic Liver Disease & Cirrhosis	249	0	0	0	0	6	13	76	78	42	24	10	0
Male	176	0	0	0	0	4	8	50	59	35	15	5	0
Female	73	0	0	0	0	2	5	26	19	7	9	5	0
Nephritis, Nephrotic Syndrome & Nephrosis	598	0	0	0	3	4	4	16	54	81	174	262	0
Male	261	0	0	0	3	3	1	9	22	35	86	102	0
Female	337	0	0	0	0	1	3	7	32	46	88	160	0
Pregnancy, Childbirth, & the Puerperium	12	0	0	0	2	5	5	0	0	0	0	0	0
Male	0	0	0	0	0	0	0	0	0	0	0	0	0
Female	12	0	0	0	2	5	5	0	0	0	0	0	0
Certain Conditons Originating In the Perinatal Period	115	111	1	0	0	0	1	0	0	0	1	0	1
Male	65	62	1	0	0	0	0	0	0	0	1	0	1
Female	50	49	0	0	0	0	1	0	0	0	0	0	0

Table 72
Deaths from 39 Selected Causes
by Age-Group and Sex of Decedent
Kansas, 2013

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	109	59	8	3	3	4	4	12	9	5	2	0	0
Male	54	25	5	2	2	2	1	8	6	3	0	0	0
Female	55	34	3	1	1	2	3	4	3	2	2	0	0
Sudden Infant Death Syndrome	34	34	0	0	0	0	0	0	0	0	0	0	0
Male	19	19	0	0	0	0	0	0	0	0	0	0	0
Female	15	15	0	0	0	0	0	0	0	0	0	0	0
Symptoms and Abnormal Findings	540	11	6	1	5	14	12	36	60	52	94	249	0
Male	244	7	5	1	5	9	6	26	37	30	43	75	0
Female	296	4	1	0	0	5	6	10	23	22	51	174	0
All Other Diseases	5,061	11	12	9	24	44	86	256	494	667	1,244	2,214	0
Male	2,184	8	7	2	14	22	48	131	312	335	580	725	0
Female	2,877	3	5	7	10	22	38	125	182	332	664	1,489	0
Motor Vehicle Accidents	368	0	4	12	71	67	42	43	36	32	36	25	0
Male	259	0	3	7	50	51	29	32	26	25	21	15	0
Female	109	0	1	5	21	16	13	11	10	7	15	10	0
All Other Accidents and Adverse Effects	1,030	8	13	13	47	75	98	126	117	88	171	274	0
Male	589	7	9	6	35	56	56	80	85	51	99	105	0
Female	441	1	4	7	12	19	42	46	32	37	72	169	0
Suicide	426	0	0	4	56	63	67	94	76	29	31	6	0
Male	346	0	0	3	49	52	53	75	56	24	28	6	0
Female	80	0	0	1	7	11	14	19	20	5	3	0	0
Homicide	120	3	5	5	23	37	17	19	9	2	0	0	0
Male	87	3	2	2	20	29	10	13	6	2	0	0	0
Female	33	0	3	3	3	8	7	6	3	0	0	0	0
All Other External Causes	54	2	2	0	4	11	9	10	7	6	2	1	0
Male	31	1	2	0	4	5	5	6	2	6	0	0	0
Female	23	1	0	0	0	6	4	4	5	0	2	1	0

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

Table 73
Selected Causes of Death by County of Residence and Peer Group
Kansas, 2013

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	25,347	6	609	5,350	1,369	1,474	336	495	259
Allen	199	0	3	44	9	15	1	4	4
Anderson	93	0	2	24	8	5	2	2	2
Atchison	170	0	5	41	10	8	1	1	4
Barber	61	0	2	12	3	4	0	1	1
Barton	261	0	10	56	16	17	4	3	2
Bourbon	196	0	6	38	9	9	1	4	1
Brown	136	0	0	21	5	10	1	2	1
Butler	634	0	14	116	27	34	10	11	1
Chase	34	0	1	9	3	1	2	1	0
Chautauqua	60	0	1	16	4	5	1	0	2
Cherokee	247	0	5	54	15	12	4	7	1
Cheyenne	31	0	0	3	0	1	1	0	0
Clark	29	0	2	2	1	1	0	0	0
Clay	115	0	0	23	5	4	1	2	2
Cloud	121	0	4	26	4	7	4	4	0
Coffey	109	0	1	22	4	8	2	3	1
Comanche	34	0	0	9	2	1	0	0	0
Cowley	440	0	13	86	19	29	5	4	4
Crawford	383	0	8	68	18	21	6	2	2
Decatur	39	0	1	11	3	2	0	2	1
Dickinson	224	0	7	50	13	13	1	3	4
Doniphan	77	1	1	15	2	7	1	0	1
Douglas	650	0	19	152	35	42	12	17	5
Edwards	30	0	1	9	3	2	1	0	0
Elk	45	0	1	12	5	3	1	1	0
Ellis	246	0	4	54	16	5	3	6	2
Ellsworth	89	0	1	22	9	8	1	2	1
Finney	217	0	4	43	10	12	5	6	1
Ford	244	0	8	45	13	9	3	5	4
Franklin	256	0	7	52	14	16	1	2	4
Geary	199	0	2	45	12	12	4	1	1
Gove	50	0	1	7	0	2	0	1	1
Graham	20	0	1	3	0	0	0	0	0
Grant	40	0	1	11	2	2	2	0	2
Gray	44	0	0	5	0	2	1	1	0
Greeley	16	0	1	2	0	2	0	0	0
Greenwood	97	0	0	23	6	12	3	0	0
Hamilton	26	0	1	6	3	3	0	0	0
Harper	76	0	3	16	4	6	2	1	1
Harvey	399	0	8	87	20	20	4	7	5
Haskell	31	0	0	9	4	2	0	0	1
Hodgeman	20	0	0	7	2	2	1	0	0
Jackson	125	0	8	27	2	9	2	3	2
Jefferson	169	0	5	42	15	10	2	4	0
Jewell	43	0	1	11	2	4	1	0	2
Johnson	3,714	2	80	838	234	208	48	86	36
Kearny	50	0	0	12	2	6	0	1	1
Kingman	99	0	1	11	1	1	1	2	2
Kiowa	30	0	1	5	2	1	0	1	0
Labette	260	0	4	57	12	13	3	7	5
Lane	17	0	0	2	2	0	0	0	0
Leavenworth	564	0	13	122	22	32	17	11	6
Lincoln	31	0	1	7	1	2	0	1	0
Linn	114	0	1	28	7	7	2	1	5
Logan	41	0	0	6	2	2	0	0	0

Table 73
Selected Causes of Death by County of Residence and Peer Group
Kansas, 2013

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	295	0	9	83	17	24	5	6	3
McPherson	380	0	7	74	28	14	6	6	5
Marion	166	0	2	31	12	5	3	5	1
Marshall	121	0	2	21	7	6	2	1	0
Meade	55	0	0	7	3	0	1	2	0
Miami	253	0	7	44	12	9	5	6	1
Mitchell	96	0	1	23	4	3	2	5	1
Montgomery	400	0	9	86	15	29	6	8	4
Morris	68	0	1	15	2	7	1	0	1
Morton	42	0	0	6	0	2	1	1	1
Nemaha	134	0	2	31	13	6	4	1	2
Neosho	197	0	6	51	9	19	2	6	1
Ness	48	0	1	9	1	3	1	1	1
Norton	61	0	1	5	1	3	0	0	0
Osage	189	0	2	41	8	17	2	3	3
Osborne	65	0	1	12	4	2	1	0	0
Ottawa	70	0	2	15	2	3	1	3	2
Pawnee	72	0	0	19	4	2	2	1	2
Phillips	74	1	0	15	3	6	0	1	1
Pottawatomie	176	0	4	40	8	13	2	3	7
Pratt	135	0	3	25	5	7	4	0	2
Rawlins	50	0	1	10	2	2	1	1	1
Reno	772	0	20	132	32	38	2	18	8
Republic	88	0	1	18	4	4	1	2	1
Rice	129	0	2	19	6	7	0	2	0
Riley	313	0	6	69	18	30	2	5	3
Rooks	62	0	2	13	5	2	0	3	0
Rush	45	0	2	5	0	1	0	2	0
Russell	84	0	1	20	4	7	1	1	1
Saline	544	0	21	141	28	47	7	16	13
Scott	47	0	1	7	0	2	0	0	1
Sedgwick	4,111	1	136	840	224	238	48	77	28
Seward	121	0	5	27	10	2	2	0	3
Shawnee	1,714	0	38	366	91	103	22	42	22
Sheridan	23	0	0	4	2	1	0	0	0
Sherman	88	0	1	15	3	4	0	2	1
Smith	68	0	2	14	2	6	0	3	0
Stafford	54	0	1	7	2	1	1	2	0
Stanton	12	0	0	0	0	0	0	0	0
Stevens	45	0	0	14	2	6	0	0	0
Sumner	257	0	4	49	14	15	4	3	1
Thomas	81	0	1	11	4	1	1	3	0
Trego	40	0	2	9	2	1	1	1	2
Wabaunsee	73	0	3	15	3	4	0	2	1
Wallace	19	0	1	5	4	0	1	0	0
Washington	73	0	1	16	5	5	0	0	1
Wichita	29	0	0	6	1	1	1	0	0
Wilson	131	0	2	28	10	6	2	1	2
Woodson	65	0	2	17	3	3	1	1	1
Wyandotte	1,367	1	29	296	88	86	19	26	10
n.s.	0	0	0	0	0	0	0	0	0
Peer Group									
Frontier	1,504	0	30	296	77	82	20	27	14
Rural	2,880	1	42	583	147	155	44	49	38
Densely -Settled Rural	4,690	1	120	1,017	255	272	59	84	58
Semi-Urban	4,153	0	102	840	196	256	47	76	42
Urban	12,120	4	315	2,614	694	709	166	259	107

Table 73
Selected Causes of Death by County of Residence and Peer Group
Kansas, 2013

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	228	1,189	649	740	7,453	5,331	37	126	2,969	2,199
Allen	1	10	5	8	62	48	1	1	26	20
Anderson	0	5	1	1	29	21	0	1	9	11
Atchison	5	12	7	4	53	33	0	1	15	17
Barber	0	3	3	1	20	15	1	0	9	5
Barton	0	14	7	7	71	57	0	3	34	20
Bourbon	4	10	5	5	48	36	0	0	24	12
Brown	0	2	5	6	43	28	0	0	20	8
Butler	4	29	12	10	197	149	0	4	85	60
Chase	0	2	0	2	10	8	0	0	4	4
Chautauqua	1	3	1	7	17	13	0	0	7	6
Cherokee	1	14	6	10	83	62	1	1	43	17
Cheyenne	1	0	1	0	12	10	0	0	5	5
Clark	0	0	0	1	13	11	0	0	5	6
Clay	2	7	4	8	25	17	0	0	7	10
Cloud	4	3	2	9	27	24	0	1	14	9
Coffey	0	4	3	6	35	27	0	0	18	9
Comanche	1	5	1	3	8	8	0	0	8	0
Cowley	6	19	19	17	138	112	0	1	76	35
Crawford	2	17	14	26	124	100	0	1	57	42
Decatur	1	2	1	0	7	5	0	0	0	5
Dickinson	1	15	6	5	75	54	1	1	40	12
Doniphan	0	4	1	2	30	18	0	0	14	4
Douglas	5	36	22	22	152	118	1	2	62	53
Edwards	1	2	2	0	10	8	0	0	6	2
Elk	0	2	0	1	19	14	0	0	10	4
Ellis	6	16	3	12	71	55	1	0	38	16
Ellsworth	0	1	2	0	35	25	0	2	15	8
Finney	2	7	6	10	56	43	0	0	24	19
Ford	1	10	10	8	69	54	0	1	37	16
Franklin	2	13	10	5	76	51	0	0	28	23
Geary	2	13	9	4	61	49	1	1	37	10
Gove	0	3	4	3	16	8	0	1	7	0
Graham	0	3	1	0	6	5	0	0	4	1
Grant	1	2	1	2	12	9	0	0	6	3
Gray	0	1	2	1	16	11	0	0	6	5
Greeley	0	0	0	0	3	2	0	0	2	0
Greenwood	2	0	1	2	33	26	0	0	14	12
Hamilton	0	0	0	0	8	8	0	0	4	4
Harper	1	1	7	0	13	9	0	0	3	6
Harvey	6	25	9	18	112	77	0	1	46	30
Haskell	0	2	3	0	11	8	0	0	5	3
Hodgeman	0	2	0	1	6	6	0	0	4	2
Jackson	1	8	3	1	34	23	0	0	12	11
Jefferson	3	8	1	8	56	46	0	0	29	17
Jewell	0	2	0	0	14	8	0	0	6	2
Johnson	39	187	54	112	1,201	655	9	14	324	308
Kearny	0	2	2	2	11	8	0	0	5	3
Kingman	1	3	2	6	33	26	0	2	15	9
Kiowa	0	1	1	1	8	4	1	0	1	2
Labette	3	14	7	7	67	54	0	4	21	29
Lane	0	0	1	1	4	2	0	0	1	1
Leavenworth	5	29	14	33	162	123	0	2	78	43
Lincoln	1	2	1	2	9	9	1	0	7	1
Linn	1	5	3	2	33	27	0	0	19	8
Logan	1	1	1	1	13	10	0	1	4	5

Table 73
Selected Causes of Death by County of Residence and Peer Group
Kansas, 2013

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	1	27	6	8	75	54	0	0	24	30
McPherson	2	13	7	20	98	59	1	0	28	30
Marion	0	5	3	13	44	31	0	0	15	16
Marshall	1	4	0	4	49	38	0	0	22	16
Meade	0	1	5	2	13	12	0	2	7	3
Miami	4	7	2	8	91	72	1	2	56	13
Mitchell	1	7	2	1	30	24	0	1	14	9
Montgomery	5	19	13	11	122	91	2	5	53	31
Morris	2	2	2	8	20	12	0	0	9	3
Morton	1	0	1	0	10	8	0	0	4	4
Nemaha	0	5	6	4	45	31	0	0	15	16
Neosho	3	11	3	6	59	45	0	3	22	20
Ness	0	2	1	1	13	11	0	0	7	4
Norton	0	1	3	0	28	25	0	0	3	22
Osage	3	5	3	5	69	35	2	1	15	17
Osborne	1	4	1	1	21	16	0	0	11	5
Ottawa	2	2	2	4	22	16	0	1	5	10
Pawnee	1	7	1	8	25	19	0	0	12	7
Phillips	0	4	0	2	25	17	0	0	6	11
Pottawatomie	1	6	5	3	45	31	2	0	19	10
Pratt	1	6	6	2	44	34	0	1	17	16
Rawlins	0	3	1	1	18	17	0	0	6	11
Reno	5	29	17	28	202	147	2	4	83	58
Republic	0	6	2	2	28	18	0	0	10	8
Rice	0	4	3	4	49	37	0	1	21	15
Riley	1	10	8	9	73	54	0	5	29	20
Rooks	0	3	3	1	20	15	0	0	10	5
Rush	1	1	2	1	12	10	0	1	3	6
Russell	0	6	2	1	25	18	0	0	12	6
Saline	7	23	10	20	142	91	0	1	55	35
Scott	0	4	0	0	17	14	1	0	10	3
Sedgwick	35	190	116	60	1,136	869	1	28	464	376
Seward	1	9	4	0	38	31	0	0	22	9
Shawnee	8	78	45	46	488	374	3	10	180	181
Sheridan	0	1	0	1	8	8	0	0	3	5
Sherman	1	4	4	9	20	14	1	3	4	6
Smith	0	3	0	2	21	16	0	1	6	9
Stafford	0	1	5	0	15	7	0	0	5	2
Stanton	0	0	0	1	5	3	0	0	3	0
Stevens	3	3	2	0	12	11	0	1	5	5
Sumner	4	8	14	3	72	55	0	3	42	10
Thomas	0	2	1	2	28	23	1	0	11	11
Trego	0	2	0	0	10	7	0	0	5	2
Wabaunsee	2	3	2	1	19	17	0	0	10	7
Wallace	0	0	0	0	9	6	0	0	5	1
Washington	2	3	0	3	19	15	1	0	9	5
Wichita	0	3	1	1	11	8	0	1	3	4
Wilson	2	5	8	1	39	32	0	0	21	11
Woodson	2	6	1	1	18	12	0	0	6	6
Wyandotte	7	60	40	28	394	284	1	5	162	116
n.s.	0	0	0	0	0	0	0	0	0	0
Peer Group										
Frontier	13	63	45	49	453	346	4	10	195	137
Rural	29	121	81	102	898	676	3	11	370	292
Densely -Settled Rural	49	240	128	149	1,369	1,005	9	20	605	371
Semi-Urban	38	185	104	139	1,200	881	6	24	529	322
Urban	99	580	291	301	3,533	2,423	15	61	1,270	1,077

Table 73
Selected Causes of Death by County of Residence and Peer Group
Kansas, 2013

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	219	1,306	422	175	708	1,664	32	249	598
Allen	1	6	5	2	10	10	0	0	7
Anderson	1	6	1	0	7	8	0	2	0
Atchison	1	15	1	3	3	8	0	0	2
Barber	1	4	0	0	2	2	0	1	1
Barton	4	7	3	0	11	20	1	1	8
Bourbon	1	6	1	4	13	13	0	3	11
Brown	0	12	0	3	13	13	0	0	2
Butler	0	39	6	3	30	47	2	3	21
Chase	0	1	0	1	0	3	0	0	1
Chautauqua	0	2	0	2	0	4	0	0	4
Cherokee	4	17	0	0	4	20	0	2	7
Cheyenne	0	2	0	0	1	0	0	0	0
Clark	1	1	0	0	1	2	0	0	1
Clay	0	7	1	0	2	13	1	3	1
Cloud	0	2	0	1	4	7	0	0	8
Coffey	0	6	1	1	0	12	0	1	1
Comanche	0	0	0	0	2	0	0	0	0
Cowley	3	20	0	3	15	28	0	5	7
Crawford	1	15	1	7	9	32	1	6	8
Decatur	0	1	0	1	2	3	0	0	2
Dickinson	1	20	0	0	12	8	0	0	2
Doniphan	1	9	0	2	4	7	1	2	0
Douglas	8	19	4	3	16	41	0	10	8
Edwards	1	1	0	0	2	1	0	0	0
Elk	1	1	0	3	1	1	0	0	0
Ellis	2	8	3	3	4	14	0	3	2
Ellsworth	1	9	0	0	3	4	0	1	3
Finney	1	10	1	1	5	13	0	2	5
Ford	2	13	0	0	4	12	0	5	8
Franklin	1	18	4	2	4	30	0	3	13
Geary	2	9	0	1	2	12	1	2	3
Gove	0	6	0	2	1	3	0	1	1
Graham	0	1	0	0	0	1	0	0	1
Grant	0	3	0	0	2	3	0	0	1
Gray	0	4	0	1	1	5	0	0	0
Greeley	0	0	0	1	1	2	0	0	0
Greenwood	0	6	0	1	2	5	0	0	4
Hamilton	0	0	0	0	0	2	1	0	2
Harper	2	1	0	1	4	3	0	0	0
Harvey	9	24	1	1	11	12	0	3	9
Haskell	0	3	0	0	2	3	0	0	0
Hodgeman	0	0	0	0	1	1	0	0	0
Jackson	1	8	0	2	3	4	0	3	5
Jefferson	1	7	0	2	6	13	0	1	5
Jewell	2	4	0	0	0	5	0	0	0
Johnson	22	187	316	21	73	185	4	30	91
Kearny	0	3	0	0	0	3	1	0	1
Kingman	2	5	0	0	1	8	0	1	1
Kiowa	1	3	0	0	0	2	0	0	2
Labette	3	10	0	0	5	23	0	4	9
Lane	0	2	0	0	0	2	0	0	0
Leavenworth	6	26	5	2	7	36	1	10	14
Lincoln	0	0	0	0	0	4	0	0	2
Linn	1	4	0	1	2	8	0	1	4
Logan	1	2	0	0	0	9	0	1	1

Table 73
Selected Causes of Death by County of Residence and Peer Group
Kansas, 2013

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	2	15	0	4	7	21	1	7	3
McPherson	7	27	0	5	12	23	0	1	9
Marion	1	8	3	1	5	10	1	0	2
Marshall	1	10	0	0	4	10	0	0	1
Meade	0	0	1	0	2	11	0	0	1
Miami	1	16	2	0	6	15	0	0	8
Mitchell	1	4	1	0	5	3	0	2	2
Montgomery	4	22	2	3	8	25	0	1	9
Morris	4	4	0	0	3	2	0	1	1
Morton	0	1	0	1	4	5	1	1	1
Nemaha	0	9	0	5	3	8	0	0	4
Neosho	1	12	0	1	6	12	0	0	6
Ness	0	1	0	1	1	3	1	1	1
Norton	0	3	0	0	1	3	0	0	0
Osage	2	30	0	2	3	15	0	5	1
Osborne	0	5	0	0	4	4	0	1	1
Ottawa	0	5	0	1	3	3	0	0	1
Pawnee	0	6	0	0	0	3	0	0	1
Phillips	2	4	0	2	3	4	0	0	0
Pottawatomie	0	14	0	0	6	18	1	2	4
Pratt	1	9	0	0	7	10	0	1	4
Rawlins	0	1	0	0	2	3	0	0	2
Reno	10	37	1	7	30	64	0	8	23
Republic	0	9	0	1	8	4	0	0	4
Rice	1	9	1	1	7	9	0	2	5
Riley	1	16	1	1	15	15	0	5	6
Rooks	0	1	3	1	5	4	0	0	0
Rush	2	0	0	0	0	2	1	1	3
Russell	1	6	0	0	3	7	0	1	3
Saline	6	34	7	4	13	38	4	2	12
Scott	1	2	0	0	1	8	0	0	2
Sedgwick	26	199	14	28	129	266	3	37	105
Seward	2	3	1	1	3	4	0	2	5
Shawnee	17	86	1	10	44	135	1	24	30
Sheridan	0	0	0	0	0	0	0	0	0
Sherman	3	2	0	1	4	5	2	0	1
Smith	2	3	0	0	6	2	0	1	0
Stafford	1	6	1	0	1	6	0	0	2
Stanton	0	1	0	1	0	1	0	0	0
Stevens	1	0	0	0	0	5	0	1	0
Sumner	3	11	3	0	5	17	0	3	11
Thomas	0	4	0	1	7	9	0	1	0
Trego	0	1	1	1	2	7	0	0	1
Wabaunsee	0	2	0	0	3	1	0	1	2
Wallace	0	2	1	0	0	0	0	0	0
Washington	0	3	0	1	0	9	0	1	0
Wichita	2	1	0	0	1	1	0	1	1
Wilson	0	5	1	1	2	9	0	6	3
Woodson	0	5	1	0	2	4	0	2	1
Wyandotte	23	57	22	8	14	91	2	17	27
n.s.	0	0	0	0	0	0	0	0	0
Peer Group									
Frontier	18	65	7	17	48	109	7	9	37
Rural	21	169	10	22	108	208	2	28	57
Densely -Settled Rural	43	268	18	35	141	303	4	51	117
Semi-Urban	35	230	25	29	128	290	8	33	112
Urban	102	574	362	72	283	754	11	128	275

Table 73
Selected Causes of Death by County of Residence and Peer Group
Kansas, 2013

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	Suicide	Homicide	All Other Causes
Kansas	12	109	115	574	368	1,030	426	120	4,535
Allen	0	0	0	4	2	8	3	0	33
Anderson	1	1	1	0	1	1	0	0	14
Atchison	0	0	0	1	2	8	3	0	33
Barber	0	0	0	0	0	3	5	0	9
Barton	0	1	0	3	4	11	9	1	40
Bourbon	0	0	0	4	5	5	5	2	33
Brown	0	1	1	1	2	5	0	1	22
Butler	2	2	2	15	12	28	12	2	107
Chase	0	0	0	2	0	1	0	1	4
Chautauqua	0	0	0	1	1	4	1	0	3
Cherokee	0	0	0	5	4	8	3	0	36
Cheyenne	0	0	0	5	0	2	1	1	5
Clark	0	0	0	0	1	1	0	0	5
Clay	0	0	0	3	0	6	4	0	22
Cloud	0	0	0	6	2	4	1	1	20
Coffey	0	0	0	1	3	4	0	0	20
Comanche	1	0	0	2	0	3	0	0	5
Cowley	1	3	1	11	9	15	6	1	65
Crawford	0	1	1	4	6	13	3	2	57
Decatur	0	0	0	1	1	2	0	0	8
Dickinson	1	0	1	1	3	10	3	1	39
Doniphan	0	0	0	1	0	1	1	0	10
Douglas	0	5	2	8	8	37	15	3	130
Edwards	0	0	0	1	0	2	0	0	2
Elk	0	1	0	0	0	1	1	0	7
Ellis	0	2	1	1	10	12	3	0	50
Ellsworth	0	0	0	3	1	5	0	0	9
Finney	0	3	1	6	5	12	2	0	44
Ford	0	2	3	3	8	8	5	1	45
Franklin	0	1	1	1	1	10	2	2	38
Geary	0	1	3	3	2	12	3	4	30
Gove	0	0	0	1	2	1	3	0	6
Graham	0	0	0	0	0	1	0	0	6
Grant	0	0	0	1	0	2	0	0	4
Gray	0	0	1	0	1	5	2	0	5
Greeley	0	0	0	0	3	2	0	0	2
Greenwood	0	0	0	1	2	1	1	3	19
Hamilton	0	0	0	0	0	2	1	0	3
Harper	0	0	2	2	0	3	0	0	23
Harvey	0	1	1	9	2	21	2	0	94
Haskell	0	0	0	0	0	0	0	0	3
Hodgeman	0	0	0	1	1	1	0	0	1
Jackson	0	0	0	0	2	7	2	1	25
Jefferson	0	0	0	4	2	5	2	0	19
Jewell	0	0	0	2	0	0	1	0	9
Johnson	3	21	22	50	41	119	79	14	695
Kearny	0	0	0	0	1	1	0	0	16
Kingman	0	1	0	4	0	5	2	0	23
Kiowa	0	0	0	2	1	1	1	0	5
Labette	0	1	1	5	3	7	2	4	54
Lane	0	0	0	0	1	2	0	0	4
Leavenworth	0	1	4	19	8	23	14	4	79
Lincoln	0	0	0	0	1	0	0	0	4
Linn	0	1	0	4	4	2	5	0	16
Logan	0	0	0	2	0	3	0	0	4

Table 73
Selected Causes of Death by County of Residence and Peer Group
Kansas, 2013

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	Suicide	Homicide	All Other Causes
Lyon	0	2	0	9	3	13	4	1	43
McPherson	0	0	1	8	9	25	2	0	84
Marion	0	1	0	3	3	7	4	0	37
Marshall	0	0	0	0	1	4	1	0	24
Meade	0	0	0	1	2	3	0	0	8
Miami	0	0	0	8	4	9	3	0	48
Mitchell	0	0	0	1	1	1	1	0	23
Montgomery	0	1	0	5	5	15	8	2	80
Morris	0	0	0	2	1	3	0	0	9
Morton	0	1	0	0	1	4	1	0	6
Nemaha	0	1	1	1	1	7	2	0	18
Neosho	0	1	0	8	0	6	1	0	32
Ness	0	0	0	1	1	4	1	0	9
Norton	0	1	1	1	0	3	1	0	13
Osage	0	1	0	2	1	3	4	0	34
Osborne	0	0	1	0	1	2	3	0	12
Ottawa	0	0	0	3	2	1	0	0	12
Pawnee	0	1	0	2	1	2	0	0	9
Phillips	0	1	0	0	3	0	1	0	19
Pottawatomie	0	0	1	5	0	8	5	0	29
Pratt	0	0	1	0	1	6	3	1	21
Rawlins	0	0	0	0	1	2	2	0	7
Reno	0	5	7	40	9	34	9	2	142
Republic	0	0	1	2	2	2	0	0	14
Rice	0	0	0	1	6	4	2	0	16
Riley	0	3	3	7	13	13	9	3	56
Rooks	0	0	0	1	2	1	2	0	8
Rush	0	0	0	0	2	2	0	0	12
Russell	0	0	1	3	0	3	2	0	12
Saline	0	3	2	5	5	24	8	3	91
Scott	0	0	0	0	0	1	2	0	8
Sedgwick	0	22	31	93	53	217	70	20	776
Seward	0	1	2	3	4	2	4	1	16
Shawnee	2	5	6	30	18	53	31	10	342
Sheridan	0	0	1	0	3	0	0	0	6
Sherman	0	0	0	8	1	3	1	0	14
Smith	0	0	0	1	1	3	0	0	15
Stafford	0	0	0	1	1	2	0	0	13
Stanton	0	0	0	0	0	4	0	0	1
Stevens	0	0	0	0	1	2	1	0	7
Sumner	0	4	1	10	4	12	5	0	43
Thomas	0	0	0	3	2	5	0	1	10
Trego	0	0	0	0	1	3	1	0	4
Wabaunsee	0	0	0	5	3	3	0	0	15
Wallace	0	0	0	0	0	1	1	0	2
Washington	0	0	0	1	5	4	2	0	12
Wichita	0	0	0	2	1	0	0	0	3
Wilson	0	0	1	2	1	9	2	1	17
Woodson	0	0	0	1	2	4	1	0	9
Wyandotte	1	5	4	91	18	35	18	26	230
n.s.	0	0	0	0	0	0	0	0	0
Peer Group									
Frontier	1	2	2	36	33	68	27	5	247
Rural	1	9	11	56	50	113	39	5	486
Densely -Settled Rural	2	21	13	94	80	186	74	13	807
Semi-Urban	2	18	20	97	59	179	59	20	743
Urban	6	59	69	291	146	484	227	77	2,252

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MARRIAGES & MARRIAGE DISSOLUTIONS

Table 74
Marriages by County of Marriage and by Peer Group*
by Number and Rate†
Kansas, 2009-2013

County of Marriage	Year 2009 Number	2009 Rate	2010 Number	2010 Rate	2011 Number	2011 Rate	2012 Number	2012 Rate	2013 Number	2013 Rate	5-Year Rate
Kansas	18,268	6.5	18,150	6.4	17,897	6.2	18,154	6.3	17,328	6.0	6.3
Allen	56	4.2	68	5.1	60	4.5	57	4.3	67	5.1	4.6
Anderson	41	5.2	33	4.1	56	6.9	53	6.7	36	4.6	5.5
Atchison	100	6.1	100	5.9	88	5.2	120	7.1	96	5.7	6.0
Barber	39	8.5	39	8.0	41	8.4	29	6.0	30	6.1	7.4
Barton	212	7.7	216	7.8	202	7.3	183	6.6	168	6.1	7.1
Bourbon	128	8.6	88	5.8	94	6.3	98	6.6	88	5.9	6.6
Brown	67	6.7	81	8.1	67	6.7	53	5.4	66	6.6	6.7
Butler	401	6.3	397	6.0	394	6.0	421	6.4	415	6.3	6.2
Chase	22	7.9	24	8.6	29	10.3	32	11.6	23	8.5	9.4
Chautauqua	25	6.7	28	7.6	23	6.4	25	7.0	28	7.9	7.1
Cherokee	98	4.7	114	5.3	85	4.0	75	3.5	104	5.0	4.5
Cheyenne	11	4.1	9	3.3	19	7.0	12	4.5	18	6.7	5.1
Clark	10	4.8	16	7.2	13	6.1	8	3.7	12	5.5	5.5
Clay	56	6.4	67	7.9	90	10.5	59	6.9	53	6.3	7.6
Cloud	55	5.9	55	5.8	59	6.3	57	6.1	45	4.8	5.8
Coffey	57	6.8	51	5.9	48	5.6	40	4.7	61	7.3	6.0
Comanche	15	8.0	13	6.9	11	5.8	17	8.9	12	6.1	7.1
Cowley	244	7.3	219	6.0	257	7.1	241	6.6	232	6.4	6.7
Crawford	198	5.1	199	5.1	180	4.6	174	4.4	182	4.6	4.8
Decatur	21	7.4	17	5.7	18	6.2	18	6.3	20	6.8	6.5
Dickinson	135	7.1	147	7.4	164	8.3	134	6.8	123	6.3	7.2
Doniphan	63	8.3	44	5.5	54	6.8	46	5.8	44	5.6	6.4
Douglas	750	6.4	773	7.0	750	6.7	795	7.0	728	6.4	6.7
Edwards	16	5.2	21	6.9	19	6.3	13	4.4	17	5.8	5.7
Elk	19	6.3	12	4.2	17	6.0	13	4.8	12	4.5	5.2
Ellis	225	8.1	204	7.2	194	6.7	199	6.8	216	7.4	7.3
Ellsworth	44	7.1	34	5.2	38	5.9	53	8.2	42	6.6	6.6
Finney	256	6.1	232	6.3	250	6.7	276	7.4	229	6.2	6.5
Ford	268	8.0	252	7.4	258	7.5	284	8.2	253	7.3	7.7
Franklin	180	6.8	158	6.1	163	6.3	153	5.9	136	5.3	6.1
Geary	646	20.3	687	20.0	548	15.5	685	18.0	603	16.1	17.9
Gove	16	6.5	10	3.7	11	4.1	13	4.8	15	5.4	4.9
Graham	15	6.2	20	7.7	17	6.4	17	6.6	12	4.6	6.3
Grant	55	7.5	59	7.5	47	5.9	47	5.9	58	7.3	6.8
Gray	28	4.7	33	5.5	32	5.2	56	9.3	32	5.3	6.0
Greeley	4	3.2	3	2.4	8	6.4	8	6.2	6	4.7	4.6
Greenwood	39	5.9	38	5.7	46	6.9	39	6.0	56	8.7	6.6
Hamilton	18	6.9	14	5.2	17	6.4	9	3.4	17	6.5	5.7
Harper	50	8.8	36	6.0	37	6.2	35	5.9	26	4.4	6.2
Harvey	238	6.9	240	6.9	228	6.5	237	6.8	212	6.1	6.7
Haskell	16	4.0	30	7.0	29	6.8	30	7.0	20	4.8	6.0
Hodgeman	12	6.3	14	7.3	11	5.6	9	4.6	3	1.5	5.1
Jackson	84	6.3	81	6.0	78	5.8	75	5.6	77	5.8	5.9
Jefferson	107	5.9	120	6.3	99	5.2	108	5.7	110	5.8	5.8
Jewell	15	4.9	17	5.5	22	7.1	13	4.3	18	5.9	5.5
Johnson	2,572	4.7	2,456	4.5	2,456	4.4	2,490	4.4	2,430	4.3	4.5
Kearny	15	3.6	26	6.5	23	5.8	20	5.0	23	5.9	5.3
Kingman	42	5.5	43	5.5	41	5.2	41	5.2	41	5.2	5.3
Kiowa	14	6.0	9	3.5	9	3.5	16	6.4	15	5.9	5.1
Labette	118	5.4	97	4.5	116	5.4	125	5.9	115	5.5	5.3
Lane	11	6.3	13	7.4	5	2.9	9	5.3	7	4.1	5.2
Leavenworth	440	5.8	399	5.2	445	5.8	424	5.5	455	5.8	5.6
Lincoln	20	6.4	15	4.6	19	5.9	14	4.4	13	4.1	5.1
Linn	36	3.9	46	4.8	47	4.9	55	5.8	39	4.1	4.7
Logan	24	9.4	26	9.4	28	10.1	20	7.2	25	8.9	9.0

Table 74
Marriages by County of Marriage and by Peer Group*
by Number and Rate†
Kansas, 2009-2013

County of Marriage	Year 2009 Number	2009 Rate	2010 Number	2010 Rate	2011 Number	2011 Rate	2012 Number	2012 Rate	2013 Number	2013 Rate	5-Year Rate
Lyon	204	6.1	237	7.0	207	6.1	220	6.5	190	5.7	6.3
McPherson	210	7.3	171	5.9	191	6.5	174	5.9	175	5.9	6.3
Marion	63	5.3	66	5.2	59	4.7	67	5.4	67	5.5	5.2
Marshall	62	6.1	77	7.6	71	7.1	76	7.6	71	7.1	7.1
Meade	28	6.4	26	5.7	30	6.6	30	6.8	21	4.8	6.1
Miami	227	7.3	235	7.2	246	7.5	217	6.7	227	6.9	7.1
Mitchell	47	7.4	49	7.7	42	6.7	33	5.2	42	6.6	6.7
Montgomery	278	8.1	219	6.2	247	7.1	234	6.8	189	5.5	6.7
Morris	41	6.8	30	5.1	42	7.1	38	6.5	34	5.9	6.3
Morton	28	9.2	25	7.7	27	8.4	17	5.4	17	5.4	7.2
Nemaha	74	7.4	77	7.6	55	5.4	79	7.8	61	6.0	6.8
Neosho	95	5.9	111	6.7	117	7.1	83	5.1	99	6.0	6.2
Ness	21	7.4	11	3.5	16	5.1	17	5.5	14	4.6	5.2
Norton	18	3.4	33	5.8	40	7.1	29	5.2	36	6.4	5.6
Osage	67	4.2	85	5.2	73	4.5	92	5.7	78	4.8	4.9
Osborne	28	7.3	20	5.2	29	7.5	19	5.0	18	4.7	5.9
Ottawa	32	5.4	38	6.2	32	5.2	30	4.9	25	4.1	5.2
Pawnee	54	8.7	45	6.5	33	4.7	24	3.5	29	4.2	5.4
Phillips	33	6.3	35	6.2	27	4.9	30	5.4	28	5.1	5.6
Pottawatomie	85	4.3	101	4.7	91	4.2	107	4.8	91	4.0	4.4
Pratt	70	7.5	77	8.0	65	6.7	66	6.8	55	5.6	6.9
Rawlins	12	4.9	13	5.2	21	8.4	19	7.4	18	7.0	6.6
Reno	421	6.6	434	6.7	488	7.6	402	6.2	416	6.5	6.7
Republic	22	4.6	24	4.8	22	4.5	26	5.4	28	5.8	5.0
Rice	52	5.2	35	3.5	42	4.2	38	3.8	38	3.8	4.1
Riley	680	9.5	664	9.3	647	8.9	751	9.9	740	9.8	9.5
Rooks	27	5.4	28	5.4	29	5.6	26	5.0	32	6.2	5.5
Rush	12	3.8	13	3.9	23	7.1	15	4.7	8	2.5	4.4
Russell	44	6.7	35	5.0	58	8.3	47	6.8	35	5.0	6.4
Saline	375	6.9	398	7.2	392	7.0	340	6.1	333	6.0	6.6
Scott	27	5.9	42	8.5	24	4.9	42	8.5	29	5.8	6.7
Sedgwick	3,488	7.1	3,393	6.8	3,311	6.6	3,372	6.7	3,176	6.3	6.7
Seward	167	7.3	182	7.9	156	6.7	183	7.8	193	8.3	7.6
Shawnee	1,132	6.4	1,178	6.6	1,092	6.1	1,117	6.2	1,037	5.8	6.2
Sheridan	14	5.7	12	4.7	13	5.1	16	6.3	6	2.4	4.8
Sherman	47	8.0	44	7.3	30	5.0	46	7.5	42	6.9	6.9
Smith	18	4.8	31	8.0	18	4.7	14	3.7	22	5.9	5.4
Stafford	28	6.4	25	5.6	22	5.0	19	4.4	22	5.0	5.3
Stanton	14	6.6	16	7.2	8	3.6	18	8.3	15	6.8	6.5
Stevens	33	6.4	43	7.5	39	6.9	42	7.3	35	6.0	6.8
Sumner	187	8.0	192	8.0	163	6.9	176	7.4	168	7.1	7.5
Thomas	39	5.3	49	6.2	50	6.3	60	7.6	51	6.4	6.4
Trego	23	7.9	13	4.3	23	7.8	15	5.0	15	5.0	6.0
Wabaunsee	43	6.3	47	6.7	41	5.8	35	5.0	35	5.0	5.7
Wallace	10	7.1	11	7.4	9	5.9	11	7.3	18	11.5	7.9
Washington	32	5.6	40	6.9	42	7.2	38	6.6	43	7.6	6.8
Wichita	17	8.1	8	3.6	14	6.2	8	3.5	12	5.5	5.3
Wilson	68	7.2	59	6.3	46	4.9	43	4.7	58	6.4	5.9
Woodson	17	5.2	23	7.0	17	5.2	19	5.8	21	6.5	5.9
Wyandotte	1,007	6.5	1,087	6.9	1,157	7.3	1,199	7.5	1,130	7.0	7.1
n.s.	0	n/a	0	n/a	0	n/a	2	n/a	1	n/a	n/a
Peer Group											
Frontier	542	6.4	680	6.0	718	6.3	644	5.7	662	5.9	6.0
Rural	1,668	6.2	1,492	6.3	1,438	6.1	1,441	6.1	1,340	5.7	6.1
Densely -Settled Rural	2,821	6.6	3,061	6.4	2,997	6.3	3,056	6.4	2,916	6.1	6.4
Semi-Urban	4,288	7.7	3,631	7.9	3,533	7.6	3,614	7.7	3,453	7.4	7.7
Urban	8,949	6.0	9,286	5.9	9,211	5.8	9,397	5.9	8,956	5.6	5.9

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

Table 75
Marriage Dissolutions by County of Action and by Peer Group*
by Number and Rate†
Kansas, 2009-2013

County of Action	Year										5-Year Rate
	2009		2010		2011		2012		2013		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
Kansas	10,333	3.7	10,579	3.7	10,445	3.6	9,782	3.4	9,085	3.1	3.5
Allen	43	3.3	32	2.4	28	2.1	25	1.9	30	2.3	2.4
Anderson	28	3.6	41	5.1	33	4.1	31	3.9	25	3.2	4.0
Atchison	59	3.6	42	2.5	47	2.8	44	2.6	56	3.3	3.0
Barber.	17	3.7	20	4.1	17	3.5	16	3.3	18	3.6	3.6
Barton	91	3.3	84	3.0	70	2.5	37	1.3	60	2.2	2.5
Bourbon	84	5.6	66	4.3	67	4.5	52	3.5	60	4.0	4.4
Brown	25	2.5	16	1.6	18	1.8	25	2.5	22	2.2	2.1
Butler	169	2.6	155	2.4	197	3.0	161	2.4	143	2.2	2.5
Chase	8	2.9	5	1.8	2	0.7	3	1.1	3	1.1	1.5
Chautauqua	11	2.9	17	4.6	19	5.3	15	4.2	9	2.5	3.9
Cherokee	70	3.3	83	3.8	90	4.2	77	3.6	68	3.2	3.7
Cheyenne	14	5.2	12	4.4	11	4.0	4	1.5	10	3.7	3.8
Clark	3	1.4	3	1.4	7	3.3	7	3.2	5	2.3	2.3
Clay	17	2.0	18	2.1	21	2.4	17	2.0	25	3.0	2.3
Cloud	38	4.1	23	2.4	46	4.9	38	4.0	32	3.4	3.8
Coffey	104	12.3	124	14.4	84	9.8	82	9.6	85	10.1	11.3
Comanche	17	9.1	3	1.6	4	2.1	4	2.1	4	2.0	3.4
Cowley	131	3.9	150	4.1	155	4.3	151	4.2	160	4.4	4.2
Crawford	145	3.7	154	3.9	135	3.4	131	3.3	109	2.8	3.4
Decatur	12	4.2	12	4.1	11	3.8	7	2.4	5	1.7	3.2
Dickinson	84	4.4	96	4.9	66	3.3	69	3.5	79	4.0	4.0
Doniphan	28	3.7	31	3.9	21	2.6	18	2.3	16	2.0	2.9
Douglas	282	2.4	291	2.6	270	2.4	247	2.2	235	2.1	2.3
Edwards	9	2.9	11	3.6	7	2.3	17	5.7	14	4.8	3.9
Elk	5	1.7	6	2.1	12	4.3	6	2.2	6	2.3	2.5
Ellis	94	3.4	89	3.1	93	3.2	78	2.7	66	2.3	2.9
Ellsworth	38	6.1	47	7.2	46	7.1	41	6.3	33	5.2	6.4
Finney	122	2.9	108	2.9	107	2.9	92	2.5	78	2.1	2.7
Ford	109	3.2	131	3.9	116	3.4	112	3.2	128	3.7	3.5
Franklin	160	6.1	143	5.5	144	5.6	124	4.8	114	4.4	5.3
Geary	365	11.5	384	11.2	379	10.7	380	10.0	367	9.8	10.6
Gove	5	2.0	7	2.6	7	2.6	4	1.5	4	1.4	2.0
Graham	8	3.3	12	4.6	13	4.9	11	4.3	8	3.1	4.0
Grant	18	2.4	17	2.2	23	2.9	11	1.4	20	2.5	2.3
Gray	23	3.8	19	3.2	16	2.6	12	2.0	14	2.3	2.8
Greeley	0	0.0	2	1.6	3	2.4	0	0.0	5	3.9	1.6
Greenwood	26	3.9	24	3.6	15	2.3	14	2.2	6	0.9	2.6
Hamilton	2	0.8	4	1.5	11	4.1	10	3.8	9	3.4	2.7
Harper	14	2.5	17	2.8	24	4.0	22	3.7	14	2.4	3.1
Harvey	100	2.9	93	2.7	105	3.0	100	2.9	90	2.6	2.8
Haskell	7	1.7	10	2.3	6	1.4	6	1.4	4	1.0	1.6
Hodgeman	4	2.1	12	6.3	5	2.5	6	3.1	8	4.1	3.6
Jackson	41	3.1	33	2.5	32	2.4	29	2.2	26	1.9	2.4
Jefferson	41	2.3	65	3.4	56	3.0	39	2.1	38	2.0	2.5
Jewell	9	2.9	8	2.6	10	3.2	18	5.9	20	6.6	4.2
Johnson	1,406	2.6	1,620	3.0	1,799	3.3	1,603	2.9	1,317	2.3	2.8
Kearny	3	0.7	13	3.3	7	1.8	10	2.5	11	2.8	2.2
Kingman	27	3.6	29	3.7	30	3.8	31	3.9	35	4.5	3.9
Kiowa	5	2.2	7	2.7	5	2.0	7	2.8	1	0.4	2.0
Labette	96	4.4	95	4.4	83	3.9	52	2.4	52	2.5	3.5
Lane	9	5.2	8	4.6	7	4.0	5	2.9	7	4.1	4.2
Leavenworth	298	4.0	321	4.2	313	4.1	299	3.8	277	3.5	3.9
Lincoln	6	1.9	11	3.4	9	2.8	9	2.8	11	3.5	2.9
Linn	29	3.1	36	3.7	27	2.8	22	2.3	37	3.9	3.2
Logan	12	4.7	8	2.9	8	2.9	8	2.9	17	6.1	3.9

Table 75
Marriage Dissolutions by County of Action and by Peer Group*
by Number and Rate†
Kansas, 2009-2013

County of Action	Year 2009 Number	2009 Rate	2010 Number	2010 Rate	2011 Number	2011 Rate	2012 Number	2012 Rate	2013 Number	2013 Rate	5-Year Rate
Lyon	103	3.1	76	2.3	108	3.2	71	2.1	53	1.6	2.4
McPherson	86	3.0	90	3.1	99	3.4	85	2.9	84	2.8	3.0
Marion	36	3.0	29	2.3	28	2.2	37	3.0	21	1.7	2.4
Marshall	35	3.5	28	2.8	25	2.5	32	3.2	26	2.6	2.9
Meade	10	2.3	11	2.4	13	2.9	14	3.2	10	2.3	2.6
Miami	129	4.2	143	4.4	126	3.9	113	3.5	107	3.3	3.8
Mitchell	24	3.8	25	3.9	11	1.7	28	4.4	21	3.3	3.4
Montgomery	140	4.1	132	3.7	149	4.3	161	4.7	146	4.3	4.2
Morris	17	2.8	15	2.5	7	1.2	18	3.1	14	2.4	2.4
Morton	9	3.0	14	4.3	7	2.2	5	1.6	10	3.2	2.9
Nemaha	24	2.4	37	3.6	32	3.2	33	3.3	20	2.0	2.9
Neosho	75	4.7	67	4.1	54	3.3	59	3.6	41	2.5	3.6
Ness	10	3.5	6	1.9	11	3.5	12	3.9	7	2.3	3.0
Norton	30	5.6	27	4.8	32	5.7	25	4.5	31	5.5	5.2
Osage	86	5.3	92	5.6	77	4.7	70	4.3	62	3.8	4.8
Osborne	6	1.6	14	3.6	12	3.1	10	2.6	9	2.4	2.7
Ottawa	10	1.7	14	2.3	13	2.1	19	3.1	15	2.5	2.3
Pawnee	33	5.3	41	5.9	31	4.4	34	4.9	27	3.9	4.9
Phillips	26	4.9	21	3.7	13	2.3	18	3.3	17	3.1	3.5
Pottawatomie	57	2.9	58	2.7	54	2.5	66	3.0	64	2.8	2.8
Pratt	42	4.5	31	3.2	42	4.3	34	3.5	37	3.7	3.9
Rawlins	8	3.3	1	0.4	4	1.6	10	3.9	7	2.7	2.4
Reno	329	5.2	331	5.1	278	4.3	230	3.6	231	3.6	4.4
Republic	19	4.0	13	2.6	19	3.9	10	2.1	17	3.5	3.2
Rice	34	3.4	33	3.3	20	2.0	15	1.5	17	1.7	2.4
Riley	220	3.1	245	3.4	279	3.8	278	3.7	309	4.1	3.6
Rooks	20	4.0	13	2.5	16	3.1	18	3.4	11	2.1	3.0
Rush	8	2.5	12	3.6	8	2.5	8	2.5	9	2.8	2.8
Russell	26	3.9	28	4.0	26	3.7	17	2.4	24	3.5	3.5
Saline	232	4.3	254	4.6	253	4.5	202	3.6	246	4.4	4.3
Scot	22	4.8	18	3.6	17	3.5	21	4.3	14	2.8	3.8
Sedgwick	2,706	5.5	2,508	5.0	2,483	5.0	2,361	4.7	2,222	4.4	4.9
Seward	64	2.8	84	3.7	89	3.8	78	3.3	97	4.1	3.5
Shawnee	531	3.0	605	3.4	538	3.0	544	3.0	417	2.3	3.0
Sheridan	7	2.9	12	4.7	4	1.6	6	2.4	1	0.4	2.4
Sherman	30	5.1	42	7.0	17	2.8	22	3.6	20	3.3	4.3
Smith	6	1.6	12	3.1	16	4.2	8	2.1	5	1.3	2.5
Stafford	7	1.6	7	1.6	10	2.3	11	2.5	9	2.1	2.0
Stanton	6	2.8	12	5.4	8	3.6	6	2.8	6	2.7	3.5
Stevens	12	2.3	28	4.9	22	3.9	19	3.3	19	3.3	3.6
Sumner	95	4.0	89	3.7	61	2.6	80	3.4	71	3.0	3.3
Thomas	33	4.5	43	5.4	30	3.8	30	3.8	31	3.9	4.3
Trego	8	2.7	9	3.0	4	1.4	9	3.0	9	3.0	2.6
Wabaunsee	16	2.3	20	2.8	28	4.0	9	1.3	19	2.7	2.6
Wallace	2	1.4	6	4.0	3	2.0	4	2.6	2	1.3	2.3
Washington	16	2.8	10	1.7	22	3.8	15	2.6	13	2.3	2.6
Wichita	4	1.9	5	2.2	6	2.6	6	2.7	7	3.2	2.5
Wilson	34	3.6	32	3.4	40	4.3	48	5.3	31	3.4	4.0
Woodson	8	2.5	8	2.4	10	3.0	11	3.4	8	2.5	2.8
Wyandotte	271	1.7	260	1.7	253	1.6	323	2.0	295	1.8	1.8
n.s.	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	n/a
Peer Group											
Frontier	232	2.7	381	3.3	329	2.9	330	2.9	303	2.7	2.9
Rural	1,000	3.7	898	3.8	842	3.5	811	3.4	768	3.3	3.5
Densely -Settled Rural	1,515	3.6	1,661	3.5	1,573	3.3	1,384	2.9	1,389	2.9	3.2
Semi-Urban	2,390	4.3	2,034	4.4	2,045	4.4	1,880	4.0	1,862	4.0	4.2
Urban	5,196	3.5	5,605	3.6	5,656	3.6	5,377	3.4	4,763	3.0	3.4

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

Marriage Rates
By County of Occurrence

Kansas, 2013

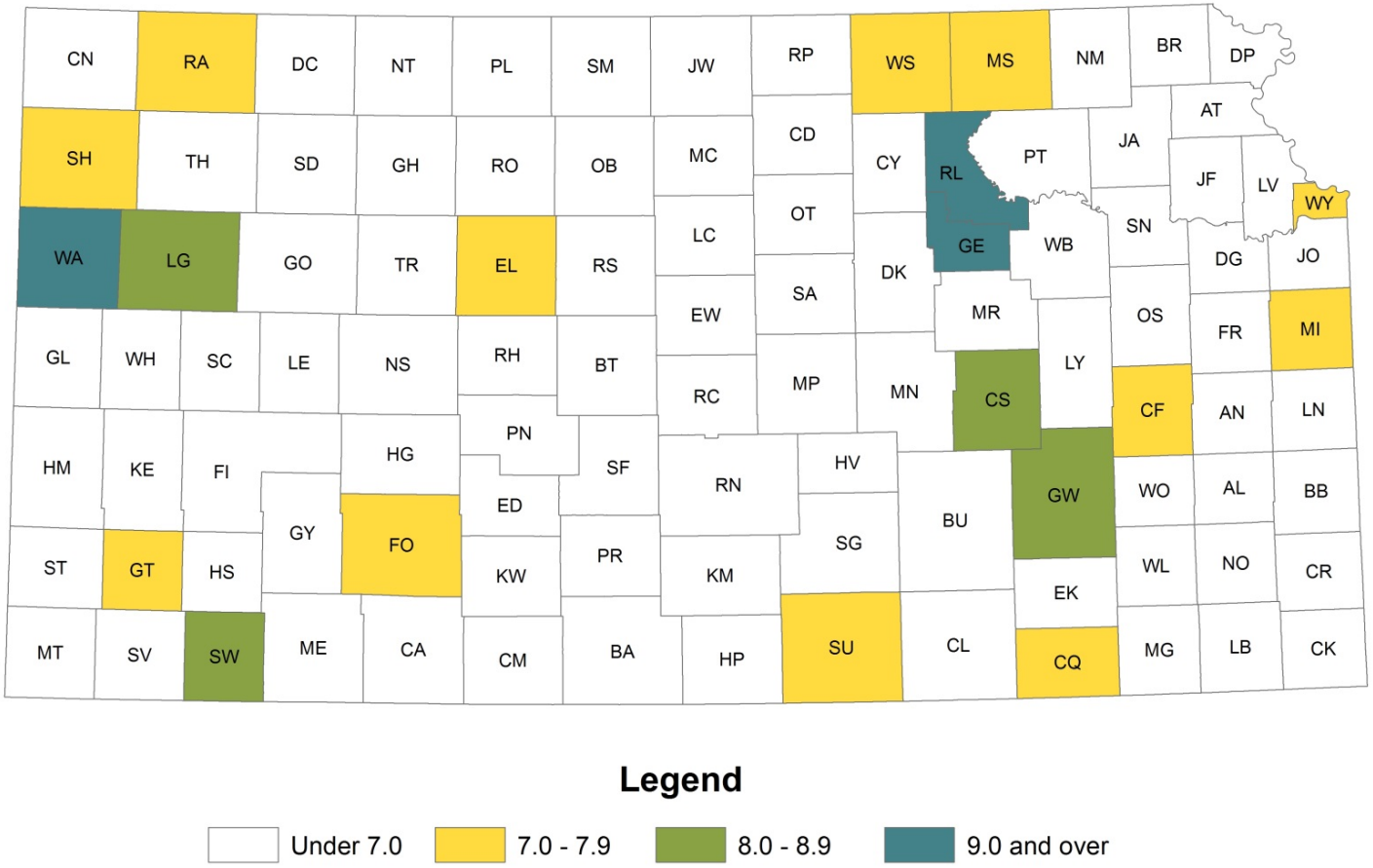


Figure 34

Marriage Dissolution Rates
By County of Occurrence

Kansas, 2013

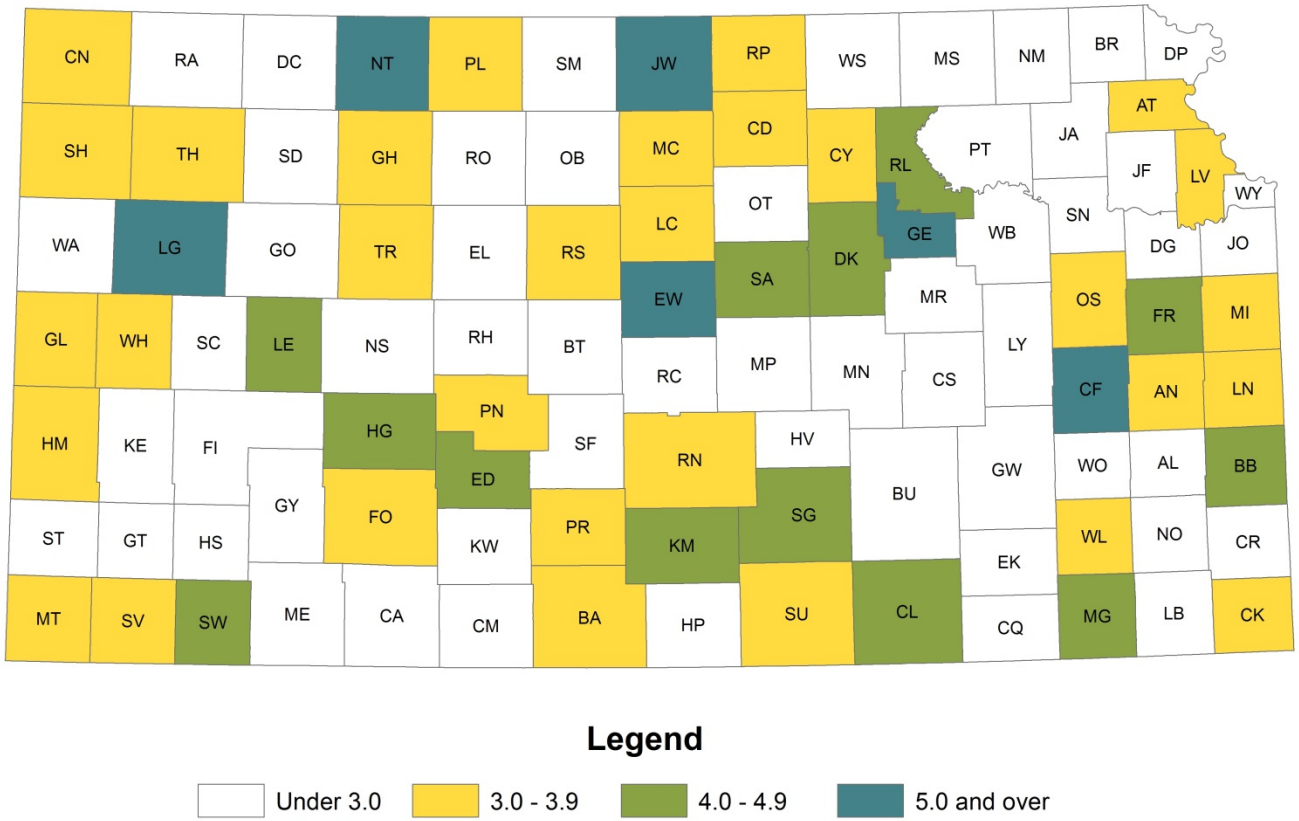


Figure 35

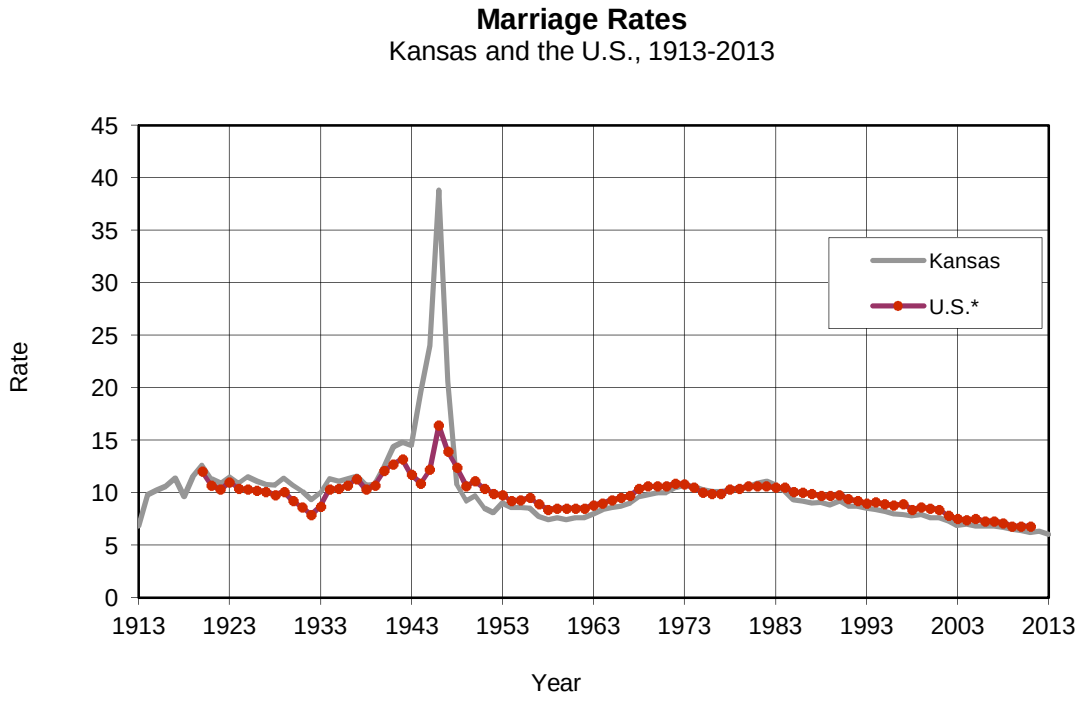


Figure 36

*1913-1919 not available, 1991-2011 Rates Provisional, 2012 and 2013 Rates not yet available.
Rate per 1,000 Population

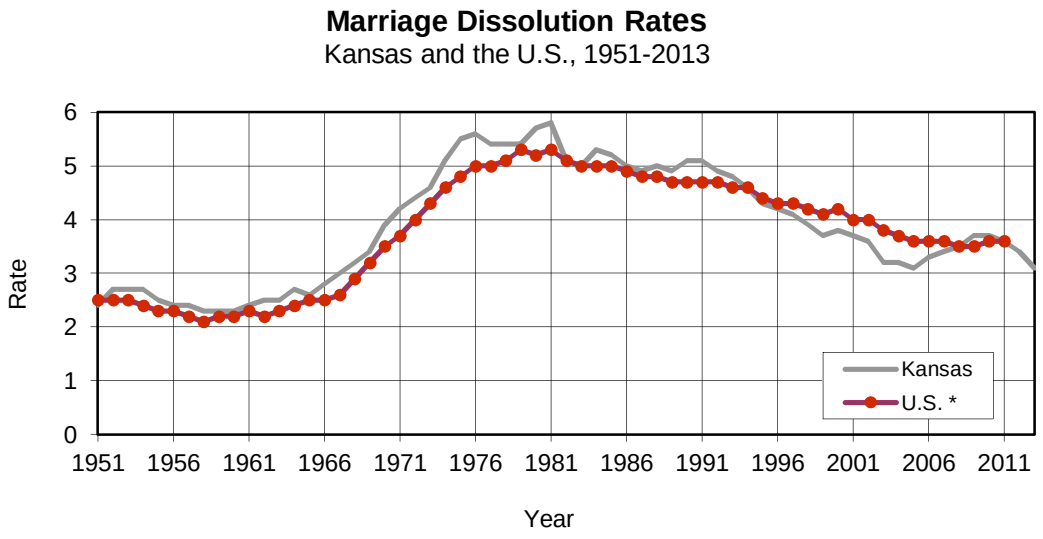


Figure 37

*1991-2011 Rates Provisional, 2012 and 2013 Rates not yet available.
US rates from 2000 forward based on fewer than 50 states.
Rate per 1,000 Population

Table 76
Marriages by Population Group of Groom by Population Group of Bride
Kansas, 2012

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	17,328	13,038	765	117	474	389	2,504	41
White Non-Hispanic	12,850	11,657	83	84	187	203	625	11
Black Non-Hispanic	1,095	314	628	5	15	50	83	0
Native American Non-Hispanic	103	74	0	15	0	3	11	0
Asian/Pacific Non-Hispanic	335	74	5	1	237	9	8	1
Other Non-Hispanic*	349	202	14	1	16	70	46	0
Hispanic Any Race	2,541	697	32	11	18	52	1,725	6
n.s.	55	20	3	0	1	2	6	23

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

Table 77
Marriage Dissolutions by Population Group of Husband by Population Group of Wife
Kansas, 2013

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	9,085	7,056	498	56	179	83	775	438
White Non-Hispanic	6,824	6,367	54	38	71	39	201	54
Black Non-Hispanic	691	211	418	2	8	18	22	12
Native American Non-Hispanic	52	37	2	8	1	1	3	0
Asian/Pacific Non-Hispanic	143	41	2	1	91	0	6	2
Other Non-Hispanic*	76	41	5	3	0	18	4	5
Hispanic Any Race	859	289	10	3	7	5	521	24
n.s.	440	70	7	1	1	2	18	341

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

Number of Marriages by Month

Kansas, 2013

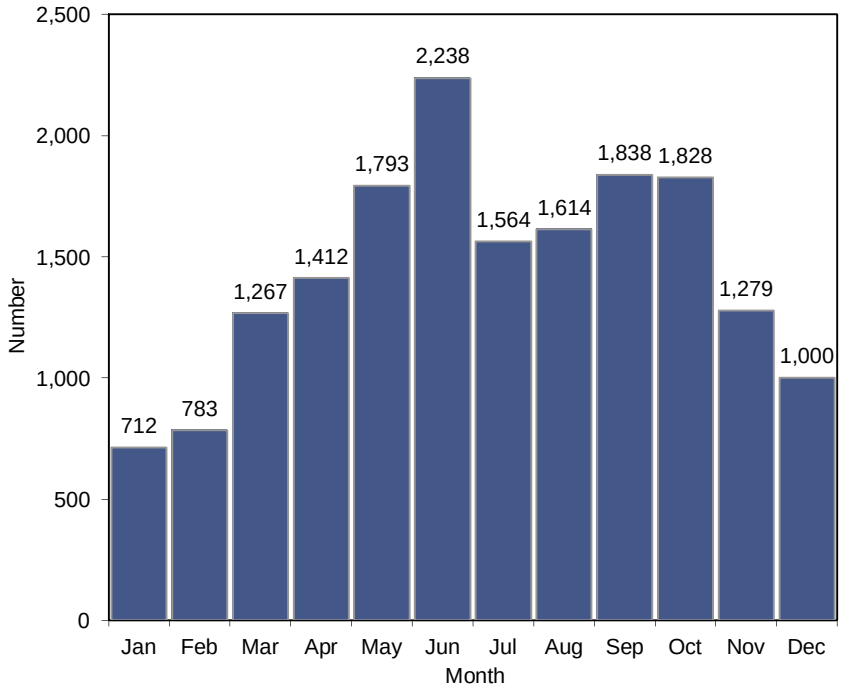


Figure 38

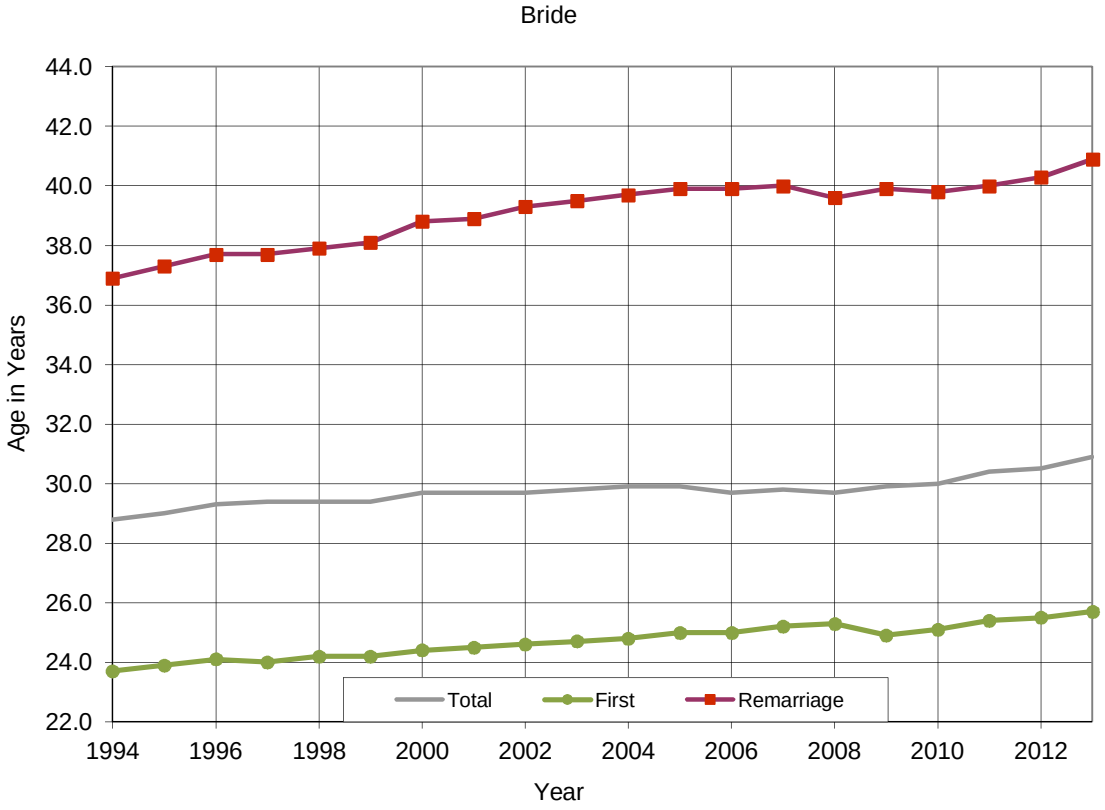
Table 78
Marriages by Premarital Status of Groom
by Premarital Status of Bride
Kansas, 2013

Premarital Status of Groom	Total	Premarital Status of Bride				
		Never Married	Divorced	Annulled	Widowed	n.s.
Total	17,328	11,457	5,252	126	475	18
Never Married	11,626	9,771	1,722	51	70	12
Divorced	5,102	1,564	3,245	56	237	0
Annulled	120	55	48	13	4	0
Widowed	464	59	235	6	164	0
n.s.	16	8	2	0	0	6

Table 79
Marriages by Age-Group of Groom by Age-Group of Bride
Kansas, 2013

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	17,328	970	4,979	4,420	2,386	1,321	986	800	630	360	220	122	63	71	0
15-19	390	276	98	11	4	0	1	0	0	0	0	0	0	0	0
20-24	4,025	588	2,821	505	80	21	7	3	0	0	0	0	0	0	0
25-29	4,512	88	1,624	2,205	455	104	20	12	4	0	0	0	0	0	0
30-34	2,817	14	309	1,198	941	260	68	20	5	1	1	0	0	0	0
35-39	1,658	4	71	330	561	468	159	46	9	8	1	1	0	0	0
40-44	1,095	0	32	117	230	257	300	111	36	11	0	0	0	1	0
45-49	819	0	9	35	72	109	225	256	93	14	5	1	0	0	0
50-54	742	0	9	10	26	68	120	197	229	63	17	3	0	0	0
55-59	533	0	4	5	10	21	54	85	161	135	47	8	1	2	0
60-64	323	0	2	2	5	13	23	44	62	81	67	19	4	1	0
65-69	189	0	0	1	2	0	5	14	19	28	57	46	13	4	0
70-74	104	0	0	0	0	0	3	8	9	11	17	23	24	9	0
75 & Over	121	0	0	1	0	0	1	4	3	8	8	21	21	54	0
n.s.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Average Age at Marriage
Kansas, 1994-2013



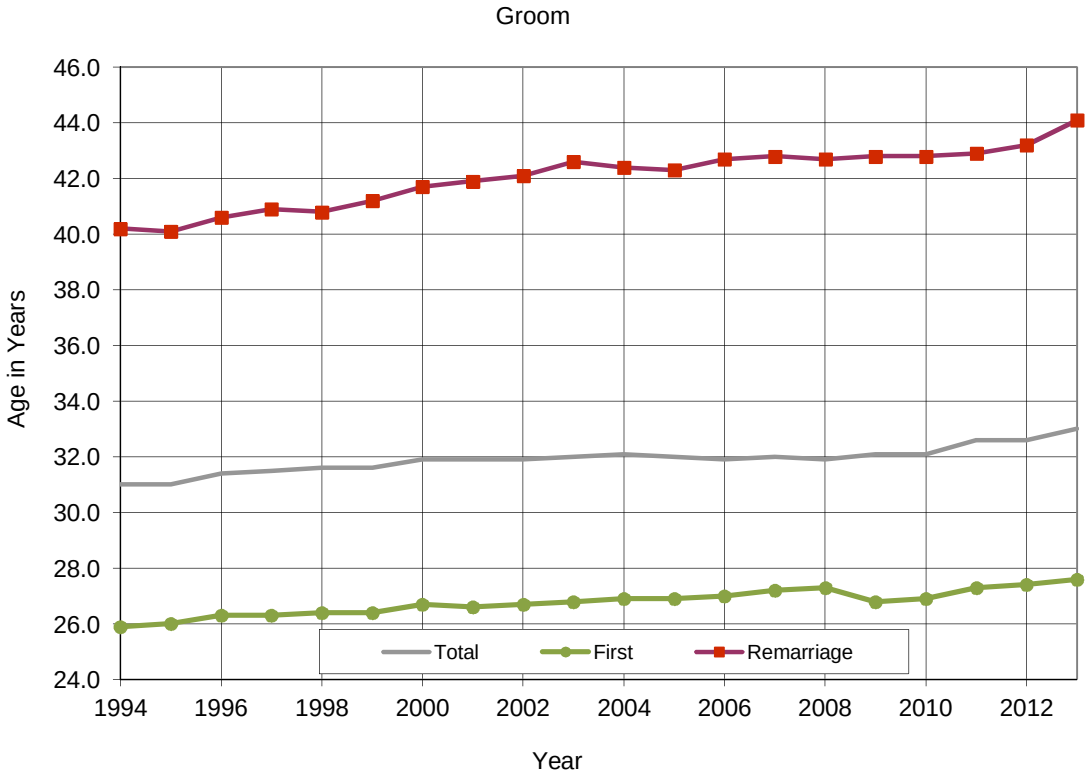


Figure 39

Table 80
Marriage Dissolutions by Age-Group of Husband by Age-Group of Wife
Kansas, 2013

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	9,085	41	859	1,500	1,602	1,312	1,207	885	707	433	209	95	44	34	157
15-19	13	8	4	0	0	0	1	0	0	0	0	0	0	0	0
20-24	555	27	414	85	16	4	1	0	0	1	0	0	0	0	7
25-29	1,257	2	317	724	144	46	8	1	1	0	0	0	0	0	14
30-34	1,553	1	85	472	727	184	52	11	3	2	1	0	1	0	14
35-39	1,343	0	19	140	483	488	152	33	15	2	2	0	0	0	9
40-44	1,196	1	8	38	132	360	469	124	34	12	2	0	0	0	16
45-49	1,041	2	3	15	61	132	339	331	111	25	5	2	1	0	14
50-54	845	0	2	7	12	62	118	233	297	64	26	4	2	0	18
55-59	575	0	0	4	10	20	41	91	155	186	42	15	2	0	9
60-64	293	0	0	0	3	4	5	33	52	95	73	22	3	0	3
65-69	157	0	0	3	1	2	7	10	25	32	42	24	5	1	5
70-74	68	0	0	0	0	1	0	6	5	9	8	20	15	4	0
75 & Over	66	0	0	1	0	1	1	2	1	1	6	7	14	29	3
n.s.	123	0	7	11	13	8	13	10	8	4	2	1	1	0	45

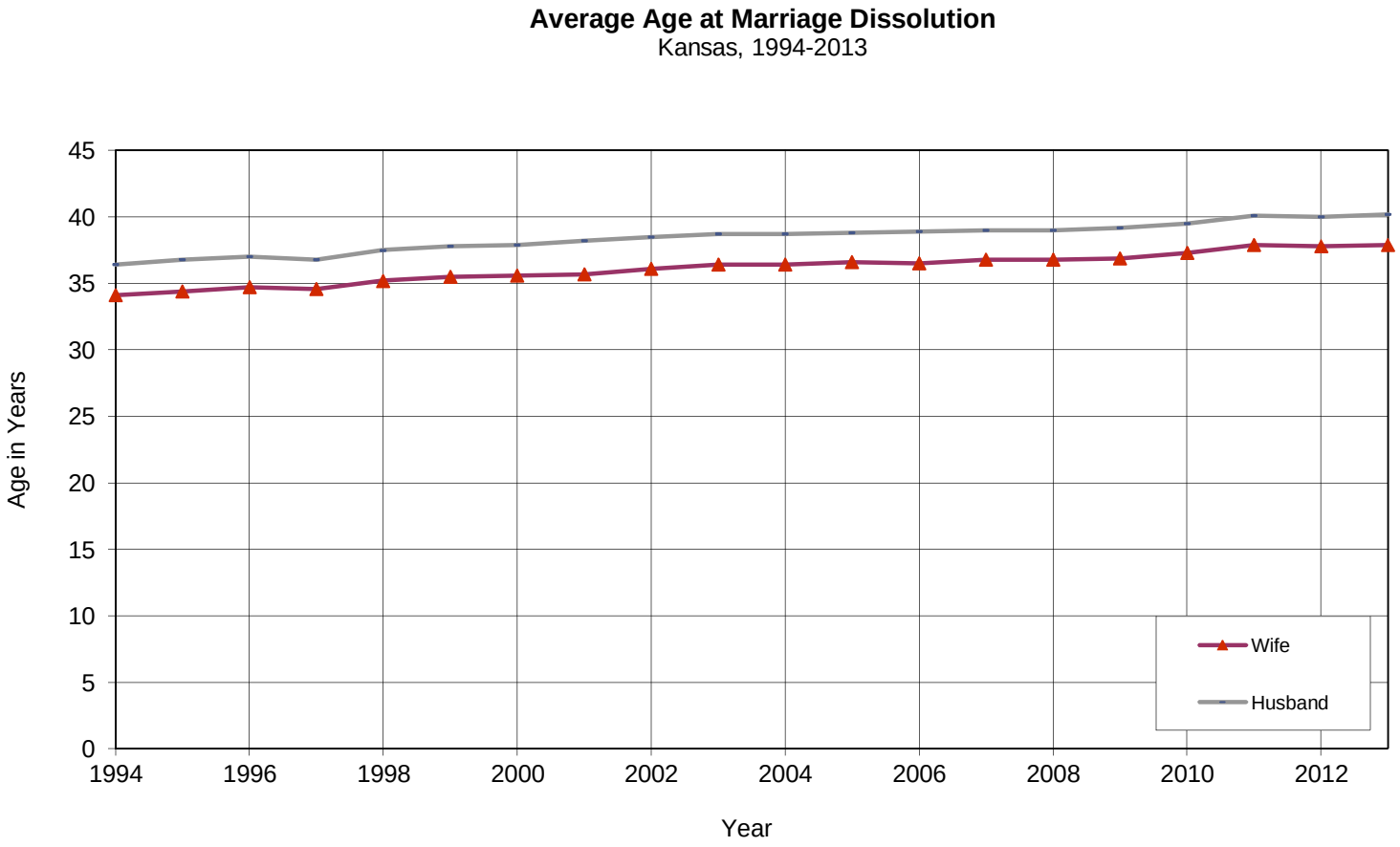

Average Age at Marriage Dissolution
Kansas, 1994-2013
Age in Years
45
40
35
30
25
20
15
10
5
0
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
Year
Wife
Husband

Figure 40

Table 81
Marriage Dissolutions
by Duration of Marriage in Years
Kansas, 2013

Duration of Marriage	Total	Divorces	Annulments
Total	9,085	8,869	216
Under 1	313	215	98
1	710	652	58
2	755	732	23
3	693	679	14
4	668	664	4
5	554	550	4
6	540	539	1
7	445	443	2
8	418	417	1
9	336	336	0
10	298	297	1
11	310	309	1
12	272	272	0
13	265	264	1
14	223	223	0
15	194	193	1
16	229	227	2
17	166	163	3
18	154	153	1
19	150	150	0
20-24	599	599	0
25-29	347	347	0
30-34	212	212	0
35-39	101	101	0
40 & Over	63	63	0
Not Stated.	70	69	1

Marriage Dissolutions
Percent Distribution by Number of Minor Children
Kansas, 2013

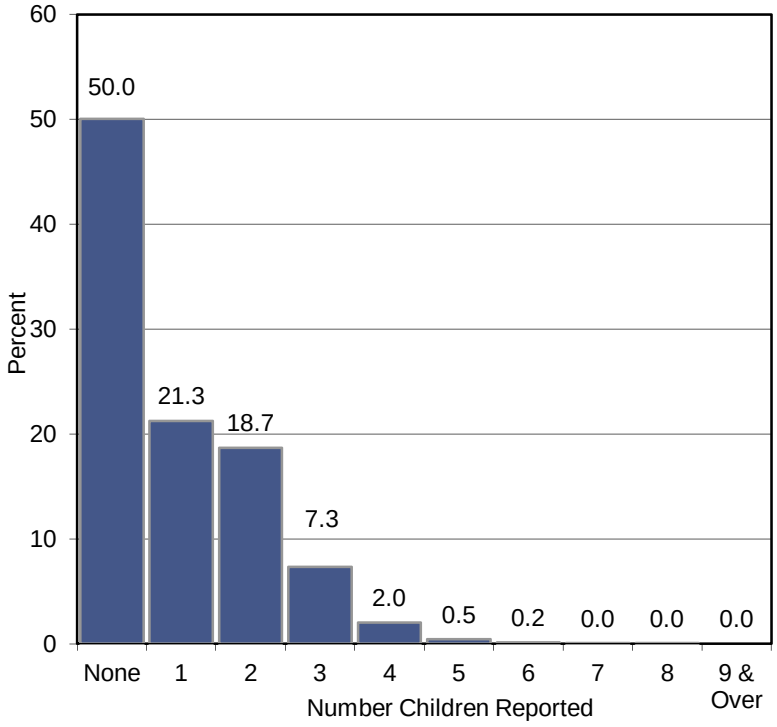


Figure 41

Table 82
Marriage Dissolutions by Number of Minor Children Reported
and Number of Minor Children Affected
Kansas, 2013

Number of Minor Children Reported	Divorces		Annulments		Total Children Affected
	Number	Percent	Number	Percent	Number*
Total	8,869	100	216	100.1	8,423
None	4,328	49.0	198	91.7	0
1	1,913	21.7	9	4.2	1,922
2	1,687	19.1	5	2.3	3,384
3	658	7.5	3	1.4	1,983
4 or More	242	2.7	1	0.5	1,134
Not Stated	41	n/a	0	n/a	0

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

TECHNICAL NOTES

Registration

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.

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 determination of near term birth rates. Figure 28 has been redesigned to better indicate changes in the count of infant deaths by gestational age. Please see Technical Notes in previous reports for information on table and figure changes in past years.

2011 Revisions to Certificates

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

2009 Revisions to Certificates

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

2005 Revisions to Certificates

Beginning with the reporting of 2005 data, Kansas implemented the 2003 revision of the U.S. standard certificates and reports. The new data collection instruments are included at the end of this report. Not all states use the new certificate format. Therefore, some routinely collected birth and death information may not be available for Kansas residents when an event occurs in another state.

While most certificate items are comparable with past years, some items changed considerably when certificates were revised. These changes can affect comparability with previous years statistics. The three areas of greatest impact are noted below.

Prenatal care visits

In previous years, the mother or prenatal care provider reported the month of pregnancy in which the mother began prenatal care. As of 2005, this item was replaced by the exact dates of first and last prenatal visit. Therefore, the month prenatal care began is now calculated from the last normal menses date and the date of first prenatal care visit. Accordingly, prenatal care data in this report (Tables 17 and 18, Figure 17) are not directly comparable to data collected from previous certificates.

Race-Ethnicity

The revised certificates contain significant changes in the way self-reported race and Hispanic origin are collected. The race item was revised to allow the reporting of multiple races and can capture up to 15 categories and eight literal entries. In addition, Hispanic origin is now collected as a separate question from ancestry. These changes were implemented to provide a better picture of the nation's variation in race and ethnicity. The expanded racial and ethnic categories 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 [1]. Under these guidelines, when race and Hispanic origin are collected separately, Hispanic origin is collected first on the certificate.

Population-Group Reporting

Changes to reporting of Hispanic origin and race, combined with concerns over confidentiality and comparisons among race and origin categories, resulted in the development of a population-group approach to reporting statistics by race/ethnicity. This method creates a unique matrix of population groups combining race and Hispanic origin 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.

Table A. Aggregation Grid for Population Groups

Aggre-gation 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 report uses partial or full aggregation of population groups for reporting statistics.

The U.S. Census Bureau (USCB) population estimates, revised in accordance with the new OMB standards, produces population estimates that can be collapsed into seven of the nine population-groups. These estimates are used as the denominator in calculating population–based rates by population group for selected vital events (Figures 3 and 18, Table 48) in this report.

USCB also prepares a set of bridged-race population estimates in collaboration with NCHS. These estimates - in which persons of Hawaiian, or Pacific Islander race or of multiple races were bridged or collapsed into the four categories of White, Black, American Indian/Alaska Native, and Asian - are used as the base for creating population data for specific age groups

needed to calculate teen pregnancy rates (Tables 32 and 34). The un-bridged census annual population estimates do not have the specific age groups needed for teen pregnancy rates.

Quality of Data

The quality of the analyses in the *Annual Summary of Vital Statistics* depends on complete and accurate reporting of vital events. Records are collected on an occurrence basis in every state or jurisdiction, regardless of the residence of the individual. Each jurisdiction provides occurrence information to NCHS. An inter-jurisdictional exchange agreement among all 57 registration states/jurisdictions and Canada ensures that vital events occurring to Kansas residents in other states or Canada are shared with KDHE.

Birth, death, and stillbirth data in the *Kansas Annual Summary of Vital Statistics* are based on the events that occurred to Kansas residents during a given calendar year and reported before a given cutoff date. The Bureau of Epidemiology and Public Health Informatics (BEPHI) uses June 30 of the year after the event year as the cutoff for receipt of out-of-state occurrence Kansas resident birth, death, and stillbirth reports. The NCHS cutoff date is around September 30 of the year after the event year.

The Office of Vital Statistics works to ensure the completeness and accuracy of the certificates filed. Reports received from other states after June 30, 2013, consist of less than one percent of the total reports filed, are considered negligible, and are excluded from this report.

Some states do not process their inter-jurisdictional exchange records until after the BEPHI cutoff. These records are excluded in the event year's Annual Summary. This is a primary reason why counts and rates reported in the Kansas Annual Summary may differ from those eventually reported by NCHS. It's also a factor in why Kansas vital statistics data are not available immediately after a calendar year ends.

BEPHI is committed to reducing the number of excluded records. It monitors receipt of out-of-state occurrence records, and contacts other jurisdictions when NCHS reports out-of-state occurrence births and deaths to Kansas residents.

Incomplete reporting of marriage dissolution impacts statistics. Reporting, however, has been improving. Users of marriage dissolution statistics should take this into account when interpreting the information.

From July, 1970, through June, 1995, state law required only Kansas hospitals to keep and submit to KDHE written records of pregnancies terminated in the hospital. During this reporting period, non-hospital providers reported terminations only on a voluntary basis. Although most abortions were reported, some underreporting may have occurred. In 1995, the Kansas legislature amended K.S.A. 65-445, broadening the reporting requirement to include every medical care facility and every person licensed to practice medicine.

Imputation

Unknown values in vital records result in records being excluded from tabulations. As part of ongoing data quality efforts, BEPHI identifies records with missing or illogical information and works with the Office of Vital Statistics, hospitals, and physicians to obtain information 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. 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 2013 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.

Handling of Unknowns

Items for which no response was provided are shown as "not stated" (N.S.) in tables and graphs throughout this publication. To ensure statistical accuracy, the "not stated" count has been subtracted from the denominator when calculating percentages.

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

State, county, and city population estimates for 2003-2013 were produced by the USCB and certified by the Kansas Division of the Budget. These estimates are on the Division’s website at: http://budget.ks.gov/ecodemo.htm. (Tables 4 and 5, Figure 4)

Population estimates by age-group and sex for 1988-1989, 1991-1999, 2002-2009 and 2011-2013 were obtained from USCB. Actual population counts were used for 1990, 2000, and 2010. Population by age-group and sex was not available from the USCB for 2001 and was estimated by the Kansas Department of Health and Environment based on 2000 USCB numbers (Table 6). These numbers were used in age-specific and age-adjusted calculations (Tables 12, 43, 52, 53, 60, Figures 11, 12 and 30). Population by Population-Group and Population-Group-specific birth and death rates (Tables 7, 8 and Figure 3) for 2010 are based on actual U.S. Census counts that comply with the new race standards and can be obtained on the Internet at: http://www.census.gov/popest/.

Due to rounding and variation in estimation methods within the USCB, some discrepancies may be found in population data (Tables 4 and 6). 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.

Because the USCB reassigns the race of certain categories in their bridged and un-bridged estimates, 2010 totals by population group may be inconsistent with 2009 estimates. This will affect population-based rates wherein the 2010 population, used for the denominator in the rate, will be artificially lower than the prior year’s estimate. The greatest impact will involve rates for the smaller population groups.

Female Population 10-19

Estimates of the Kansas female population for 1988-1999 and 2011-2013 were obtained from the USCB, and actual population counts were used for 1990, 2000 and 2010.

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.

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

Female population estimates for 2002-2009 and 2011-2013 were obtained from the Bridged-race Vintage 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2011, 2012 and 2013 postcensal series by year, age, sex, race, and Hispanic origin, prepared under a collaborative arrangement between NCHS and the U.S. Census Bureau. The population data are at: http://www.cdc.gov/nchs/nvss/bridged_race/data_documentation.htm. (Tables 32, and 34)

Peer Groups

For various demographic studies, it is useful to consider groups of counties with similar characteristics. “Peer Groups” of counties, as used in this summary, 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.)

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.

Population densities are calculated using land area, not total area. Confusion over this definition led to the misclassification of Doniphan County in the 2010 Annual Summary. An errata was issued correcting the tables originally released using incorrect peer groups.

The KDHE Bureau of Epidemiology and Public Health Informatics applies these definitions, updating the groups with every decennial census. 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 [2]. 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

Underlying causes of death in the *2013 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]. 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 more older residents than other counties. To address this, statisticians prepare age-adjusted death rates. The direct method for calculating age-adjusted death rates was used in this report. Age-adjusting is a process by which the age composition of a population is defined as constant so that differences in age composition can be eliminated from the analysis. This is necessary as the risk of dying increases with age. Age-adjusted rates allow for more meaningful comparison of the risk of mortality over time and among groups.

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

Comparing Age-Adjusted Death Rates

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

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

The first step in calculating a confidence interval for an age-adjusted rate is the computation of a standard error (SE), which defines the rate's variability. The SE for an adjusted rate per 100,000 population can be estimated by dividing that rate by the square root of the number of events (n) upon which the rate was based:

$$Rate/\sqrt{n}$$

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

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

Computing confidence limits for pairs of rates varies depending on the number of events on which each rate was created. The formula below was used for calculating confidence intervals that appear in this report. (Table 60)

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.

<u>Rate Reliability</u>

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.

Criteria for the Adequacy of Prenatal Care Utilization (APNCU) INDEX

Adequacy of prenatal care utilization values are based on a method developed by Dr. Milton Kotelchuck [4]:

I. Month prenatal care began (Adequacy of Initiation of Prenatal Care)

Adequate Plus: 1st or 2nd month
Adequate: 3rd or 4th month
Intermediate: 5th or 6th month
Inadequate: 7th month or later or no prenatal care

II. Proportion of the number of visits recommended by the American College of Obstetricians and Gynecologists (ACOG) received from the time prenatal care began until delivery (Adequacy of Received Services)

Adequate Plus: 110% or more
Adequate: 80% - 109%
Intermediate: 50% - 79%
Inadequate: less than 50%

III. Summary Adequacy of Prenatal Care Utilization Index

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

Criteria for Small for Gestational Age (SGA)

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

"Many different things can lead to intrauterine growth restriction (IUGR). An unborn baby may not get enough nutrition because of:

- High altitudes,
- Multiple pregnancies (twins, triplets, etc.),
- Placenta problems,
- Preeclampsia or eclampsia

Congenital or chromosomal abnormalities are often associated with below-normal weight. Infections during pregnancy that affect the developing baby, such as rubella, cytomegalovirus, toxoplasmosis, and syphilis may also affect the weight of the developing baby" [5].

Infants born small for gestational age but constitutionally normal may represent 40% or more of the SGA infants at term [6, 7]. 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. [8]*

Table A. 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 Table A[4] are updated guidelines from the Institute of Medicine of the National Academies dated May 28, 2009. The new guidelines update recommendations the Institute of Medicine made in 1990 and reflect changing U. S. demographics.

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 purposeful interruption of pregnancy with the intention other than to produce a live-born infant or to remove a dead fetus and which does not result in a live birth.
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.
ICD Code:	The cause-identifying number classified in the Tenth Revision of the International Classification of Diseases implemented by NCHS for deaths in 1999.
Infant Death:	The death of a live-born infant which occurs within the first year of life.
Live Birth:	The complete expulsion or extraction of a product of human conception from its mother, irrespective of the duration of pregnancy, that, after such expulsion or extraction, shows any evidence of life such as breathing, heartbeat, pulsation of the umbilical cord, or voluntary muscle movement, whether or not the umbilical cord has been cut or the placenta attached.

DEFINITIONS (cont.)

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.
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.
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.

DEFINITIONS (cont.)

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:	Any complete expulsion or extraction from its mother of a product of human conception, the weight of which is in excess of 350 grams, irrespective of the duration of pregnancy, resulting in other than a live birth, and which is not an induced termination of pregnancy.
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.
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.
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:	neonatal deaths / live births	x 1,000
Out-of-Wedlock Birth Ratio:	out-of-wedlock births / live births	x 100
Perinatal Period III Death Rate:	perinatal period III deaths / live births + stillbirths	x 1,000
Post-Neonatal Death Rate:	post-neonatal deaths / live births	x 1,000
Teenage Pregnancy Rate:	live births, stillbirths, abortions for females in a specific age-group / female population in a specific age-group	x 1,000
Years of Potential Life Lost Rate	years of potential life lost / 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

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

VS233 Rev. 05/01/2010

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

38. MOTHER'S MEDICAL RECORD NO.

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

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

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

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

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

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

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

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

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

42a. MOTHER

42b. FATHER

43. OCCUPATION AND BUSINESS/INDUSTRY

	Occupation	Business/Industry (Do not give name of company.)
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)
- ☐ 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)

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)
- ☐ 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)

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:

CHILD'S NAME _____ MOTHER'S NAME _____

SAMPLE

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)
- ☐ 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

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)
- ☐ 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

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

44a. Now living Number _____ ☐ None

44b. Now dead Number _____ ☐ None

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

45a. Before 20 weeks Number _____ ☐ None

45b. 20 weeks & over Number _____ ☐ None

46. PRENATAL CARE? ☐ Yes ☐ No

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

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

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

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

51. OBSTETRIC ESTIMATE OF GESTATION (Completed Weeks)

44c. DATE OF LAST LIVE BIRTH (Month, Year)

45c. DATE OF LAST OTHER PREGNANCY OUTCOME (Month, Year)

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

INSTRUCTIONS SEE HANDBO

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

Report of Induced Termination of Pregnancy

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) (1)

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 (2)
- ☐ 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 (2)
- ☐ 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 ☐

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

VS 213 Rev. 6/2012

SAMPLE

Complete the following items only if the clinical estimate of gestational age is 22 weeks or more

16a Was fetus viable?

☐ YES ☐ NO

16b Reasons for the determination - describe medical reasons and basis; include medical procedure/diagnosis codes

Complete 17a-c only if 16a is yes

17a Was this abortion necessary to
(Check all that apply)

☐ Prevent patient's death

☐ Prevent substantial and irreversible impairment of a major bodily function

17b Reasons for the determination - describe medical reasons and basis; include medical procedure/diagnosis codes

17c Basis for determination - describe medical reasons and basis; include medical procedure/diagnosis codes

Complete the following items only if a partial birth procedure was performed

18a Was fetus viable?

☐ YES ☐ NO

18b Reasons for the determination - describe medical reasons and basis; include medical procedure/diagnosis codes

Complete 19a-b only if 18a is yes

19a Was this abortion necessary to
(Check all that apply)

☐ Prevent patient's death

☐ Prevent substantial and irreversible physical impairment of a major bodily function

19b Reasons for the determination - describe medical reasons and basis; include medical procedure/diagnosis codes

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		7c. UNDER 1 DAY		8. PLACE OF BIRTH (City and State or Foreign Country)
			Months	Days	Hours	Minutes	

9. WAS DECEDENT EVER IN U.S. ARMED FORCES?	10a. PLACE OF DEATH (Check only one)	
☐ Yes ☐ No ☐ Unknown	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	12. SURVIVING SPOUSE (If wife, give name before first marriage)
☐ Married ☐ Married, but separated ☐ Widowed ☐ Divorced ☐ Never Married ☐ Unknown	

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	18a. PLACE OF DISPOSITION (Name of cemetery, crematory, or other place)	18b. LOCATION-City or Town, and State
☐ Burial ☐ Cremation ☐ Removal from State ☐ Donation ☐ Entombment ☐ Other (Specify) _____		

19. FUNERAL SERVICE LICENSEE & LICENSE NO. (Signature)	20. NAME OF EMBALMER & LICENSE NO.
➢	

21. NAME AND ADDRESS OF FIRM

22. CAUSE OF DEATH – Part I. Enter the chain of events - diseases, injuries, or complications-that directly caused the death. DO NOT enter terminal events such as cardiac arrest, respiratory arrest, or ventricular fibrillation without showing the etiology. DO NOT ABBREVIATE. Enter only one cause on a line. Add additional lines, if necessary.

		Approximate Interval: Onset to Death
IMMEDIATE CAUSE (Final disease or condition resulting in death)	a.	
	DUE TO (OR AS A CONSEQUENCE OF):	
Sequentially list conditions, if any, leading to immediate cause listed on line a. Enter the **UNDERLYING CAUSE** (disease or injury that initiated the events resulting in death) LAST.	b.	
	DUE TO (OR AS A CONSEQUENCE OF):	
	c.	
	DUE TO (OR AS A CONSEQUENCE OF):	
	d.	

PART II. Enter other significant conditions contributing to death, but not resulting in the underlying cause given in Part I.	23a.AUTOPSY	23b.WERE AUTOPSY FINDINGS AVAILABLE TO COMPLETE THE CAUSE OF DEATH?	23c.WAS CORONER CONTACTED?
	☐ Yes ☐ No ☐ Unknown	☐ Yes ☐ No ☐ Unknown ☐ Not Applicable	☐ Yes ☐ No ☐ Unknown

24. DID TOBACCO USE CONTRIBUTE TO DEATH?	25. IF FEMALE	26. MANNER OF DEATH
☐ Yes ☐ Probably ☐ No ☐ Unknown	☐ Not pregnant within past year ☐ Not pregnant, but pregnant 43 days to 1 year before death ☐ Pregnant at time of death ☐ Unknown if pregnant within the last year ☐ Not pregnant, but pregnant within 42 days of death	☐ Natural ☐ Homicide ☐ Accident ☐ Pending Investigation ☐ Suicide ☐ Could not be determined

27a. DATE OF INJURY (Month, Day, Year)	27b. TIME OF INJURY	27c. INJURY AT WORK	27d. DESCRIBE HOW INJURY OCCURRED
	A.M. P.M.	☐ Yes ☐ No	

27e. PLACE OF INJURY-Residence, farm, street, factory, building, etc. (Specify)	27f. LOCATION (Street and Number or Rural Route, City or Town, State, Zip Code)

28a. DATE PRONOUNCED DEAD (Month, Day, Year)	28b. TIME PRONOUNCED DEAD	28c. ACTUAL OR PRESUMED TIME OF DEATH	28d. NAME OF PERSON PRONOUNCING DEATH (If applicable)	28e. LICENSE NO.
	A.M. P.M.	A.M. P.M.		

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.	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)	_____	☐ Other (Specify)	_____
_____	☐ Unknown	_____	☐ 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)	

VS230 Rev.04/07/04

SAMPLE

Errata

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On March 9, 2015 the KDHE Bureau of Epidemiology and Public Health Informatics made corrections to one table in the Annual Summary 2013. The change occurred to Table 16 and involved a transposition of data for counties from Wabaunsee to Wyandotte and the row for n.s. This also affected the subtotals displayed in the Peer Group section of the table.

On April 15, 2015, the KDHE Bureau of Epidemiology and Public Health Informatics made corrections to Table 23 in the Annual Summary 2013. The changes reflected the correction of a logic error in the computer code which had inflated the “Less than Recommended Weight Gain” at the expense of the “N.S.” column. Values for other columns in this table remain unchanged.