



Adolescent and Teenage
Pregnancy Report
Kansas, 2010

Research
Summary

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Our Vision – Healthy Kansans Living in Safe and Sustainable Environments

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

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Executive Summary

Maintaining and improving family health is an essential component of the state's public health mission. Teen pregnancy accounts for a sizable burden on society. According to the Centers for Disease Control and Prevention (CDC) it is a "winnable battle." The Kansas Department of Health and Environment (KDHE) annually prepares this report to provide data to support assessment and evaluation of teen pregnancies in Kansas. KDHE has a number of programs directed at reducing teen pregnancy. The U.S. Department of Health and Human Services set a number of Healthy People 2020 targets for reducing pregnancy among females aged 10-19.

Pregnancy rates for Kansas resident females 10-19 dropped by 13.8 percent from 2009 to 2010. Rates among females aged 15-17 and 18-19 also dropped. The number of pregnancies among females aged 10-14 increased slightly (56 in 2009 to 59 in 2010), resulting in an unchanged pregnancy rate.

Kansas pregnancy rates among females 15-17 years of age, (22.4 per 1,000) compares favorably with the Healthy People 2020 national target of 36.2 pregnancies per 1,000 age group specific female population. The state pregnancy rate for females aged 18-19 (77.6 per 1,000 age group specific population) also compares favorably with the Healthy People 2020 national target of 105.9 pregnancies per 1,000 age group specific female population.

While Kansas has exceeded the national targets for teen pregnancy, the state's birth rate for females aged 15-19 remains higher than the national rate. The gap between the Kansas and U.S. rates is narrowing. In 2010, the Kansas rate was 39.0 births per 1,000 age group specific female population compared to the preliminary U.S. rate of 37.9.

Inequities continue to exist among population groups in Kansas. For example, pregnancy rates for Black non-Hispanic and Hispanic teens aged 10-17 are three times higher than the rate for White non-Hispanics of the same age group.

Introduction

Maintaining and improving family health is an essential component of the public health mission of KDHE. Facilitating healthy pregnancies and positive birth outcomes pays dividends to Kansas society in the form of reduced maternal and infant mortality and fit children capable of learning and growing into productive individuals.

It is in this role the department, through the Division of Health's Bureau of Epidemiology and Public Health Informatics (BEPHI), provides this report so progress in reducing adolescent and teen pregnancy can be monitored. The report, first produced in 1995, informs policy makers, local health departments, program managers, and the public on teen pregnancy outcomes and trends over the past 20 years. Statistics contained herein enable evaluation of progress on this public health issue and identification of emerging concerns.

Adolescent and teenage pregnancy accounts for more than \$9 billion per year in costs to U.S. taxpayers for increased health care and foster care, increased incarceration rates among children of teen parents, lower educational attainment, and income among teen mothers.[1] Pregnancy and birth represent significant contributors to high school dropout rates among girls. About 50 percent of teen mothers receive a high school diploma by age 22 compared to 90 percent of women who had not given birth during adolescence. [2] The children of teenage mothers are more likely to have lower school achievement and drop out of high school, have more health problems, be incarcerated at some time during adolescence, give birth as a teenager, and face unemployment as a young adult. [3] These effects remain for teenage mothers and their children even after adjusting for factors that can increase a teenager's risk of pregnancy, such as growing up in poverty, having parents with low levels of education, growing up in a single-parent family, and having low attachment to and performance in school. [4]

The U.S. Centers for Disease Control and Prevention has declared teen pregnancy as one of its ten winnable battles in public health. [5] The nation's Healthy People 2020 objective is to reduce pregnancies among adolescent females aged 15-17 to 36.2 pregnancies per 1,000 population and females aged 18-19 to 105.9. [6]

KDHE operates the Teen Pregnancy and the Kansas Abstinence Education Programs. The Teen Pregnancy Program provides comprehensive case management services to pregnant and/or parenting adolescents in Kansas communities. The Abstinence Education Program provides support for age-appropriate education and media services for youth and their families including: a) website (<http://gonnawait.org>), b) social media development and use, c) curricula development and implementation, and d) educational programs in school & community settings.[7] KDHE through its Bureau of Family Health has set a goal to "reduce teenage pregnancy and resulting health, educational, economic and social consequences for mother and child." [8]

Methods

The BEPHI Office of Vital Statistics receives reports of births that occur in Kansas. Reporting of Kansas vital events to 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. Births to Kansas residents that occurred in other states are received via Interstate Jurisdictional Exchange. All statistics reported are based on births to women who were Kansas residents.

KDHE collects birth certificate information consistent with the 2003 U.S. Standard Certificate. Data collected since 2005 are based on the standard certificate as modified for use in Kansas. BEPHI uses an 18 month reporting period when creating an analytical file. Thus all births that occur in a given year – reporting during that year or the first six months of the year following – are included in the analytical file. Data used in this report are for 2010 births. The analytical file is considered 99.99 percent complete.

All birth records undergo a two-step quality improvement process. First, Office of Vital Statistics staff manually review paper certificates for missing or illogical information.

The Vital Statistics Data Analysis section performs computerized checks of the data – on an ongoing basis and once prior to closing the analytical file. Corrections or imputation occurs to geographic information, sex of the child, and mother’s age. See the technical notes for the *2010 Kansas Annual Summary of Vital Statistics* for more information. [9]

Statistical tabulations were created using SAS software 9.2. Some of the tables contained in this report are also included in the *Kansas Annual Summary of Vital Statistics 2010*. This is done to enhance the utility of this report to readers. In this report the reader will see a number of different combinations of age-groups, i.e., 10-14, 15-17, 18-19, and 10-19, used in the tabulations. This is done to provide the diverse audience of legislators, policy makers, media, program administrators, and the public who closely monitor pregnancy issues with a data summary that meets their needs. Findings tested for statistical significance will be so noted in the Results and Discussion section.

For purposes of this report adolescents and teens refer to persons who range in age from 10 to 19. Pregnancies are defined as stillbirths, abortions, and live births. Readers will be able to review both the frequency of adolescent and teen pregnancies as well as the population-based rate. Using the population-based rates, comparisons among counties or with the state are possible. Multi-year rates are prepared for those instances where low counts may inordinately influence a single-year rate. All rates use the female population estimates for the age group represented in the numerator.

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 rates and percentages.

Teen pregnancies and births in most Kansas counties are relatively low frequency events. In such instances small numerical changes may have a large impact on annual rates. The use of multi-year rates attempts to mitigate the effect of small frequencies. This report uses significance testing to determine whether a county’s multi-year teen pregnancy rate is better or worse than the state’s rate for the same time period.

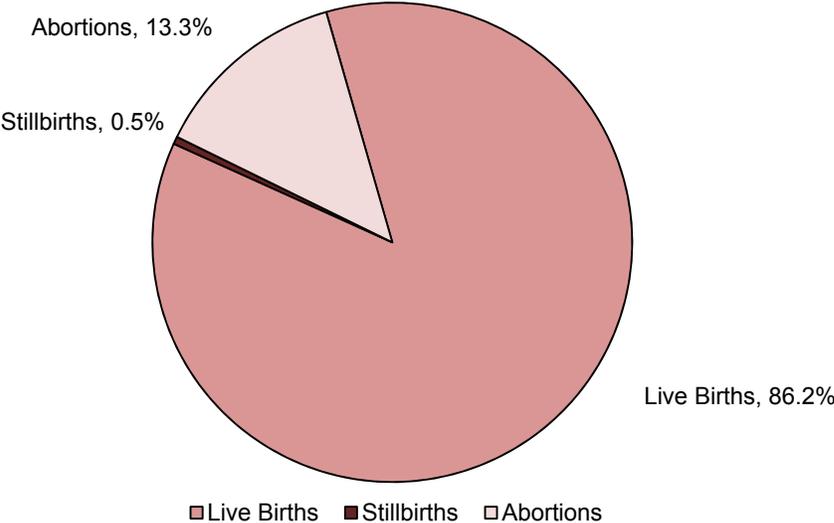
The Adequacy of Prenatal Care Utilization (APNCU) Index (or Kotelchuck Index) attempts to characterize prenatal care (PNC) utilization based on two independent and distinctive dimensions: adequacy of initiation of PNC and adequacy of received services once care has begun. The APNCU – through the categories of inadequate, intermediate, adequate, and adequate plus – characterizes the adequacy of pregnancy-related health services provided to a woman between conception and delivery. The index does not assess the quality of prenatal care delivered. [10]

Results and Discussion

Only selected findings are discussed in this section. Additional detailed tables and figures are provided to support evaluation by county or other characteristics.

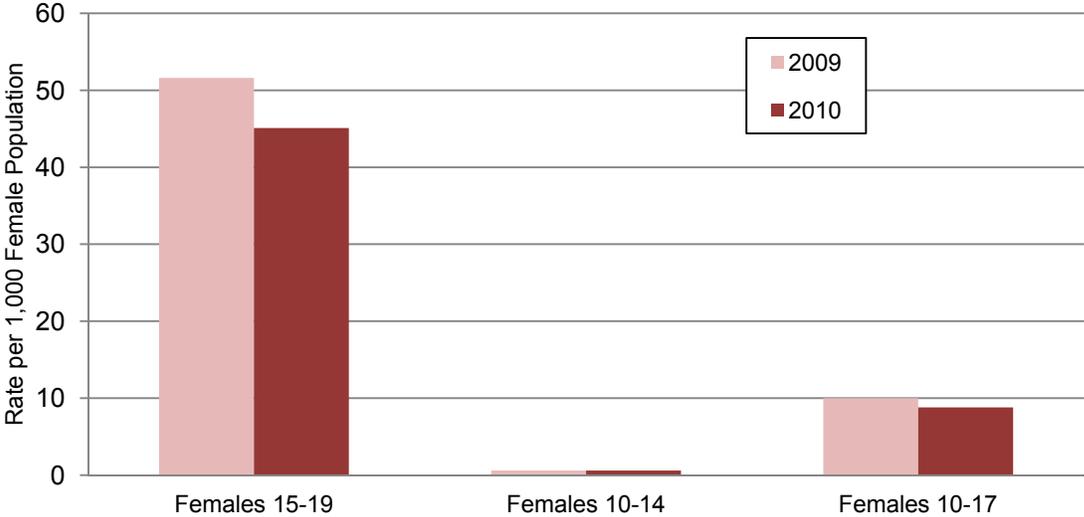
Females aged 10 to 19 accounted for 10.0 percent (4,501) of the 44,830 pregnancies in 2010. Of those pregnancies, 86.2 percent resulted in a live birth (3,879), 13.3 percent in abortion (599), and the remainder in stillbirths (23) (Figure A, Table 1).

Figure A. Pregnancies, Females Aged 10-19 Years, by Outcomes , Kansas, 2010



The pregnancy rate for females aged 10-19 was 23.1 per 1,000 age group specific female population in 2010, down 13.8 percent from 2009 (26.8) (Table 2).

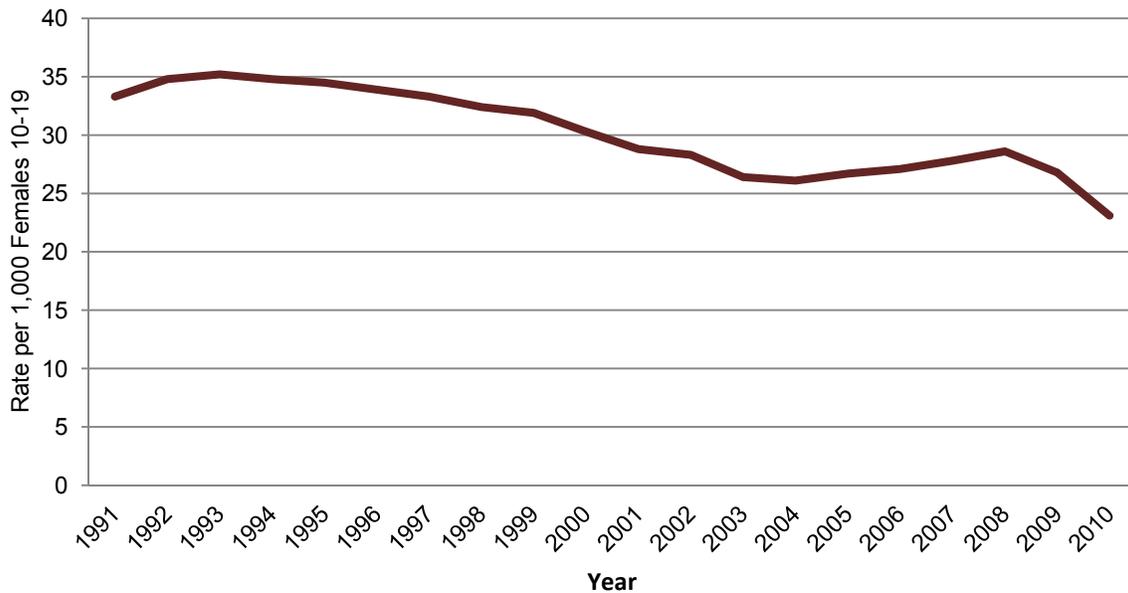
Figure B. Pregnancy Rates for Selected Female Age Groups, Kansas, 2009-2010



The pregnancy rate for teens 10-17 dropped 12.0 percent to 8.8 per 1,000 age group specific female population in 2010 from 10.0 in 2009. The 2010 rate for teens 15-19, 45.1 per 1,000, dropped 12.6 percent from the 2009 rate of 51.6. The rate for teens 10-14 in 2010 was 0.6 per 1,000, unchanged from the 2009 rate of 0.6 (Figure B, Table 2).

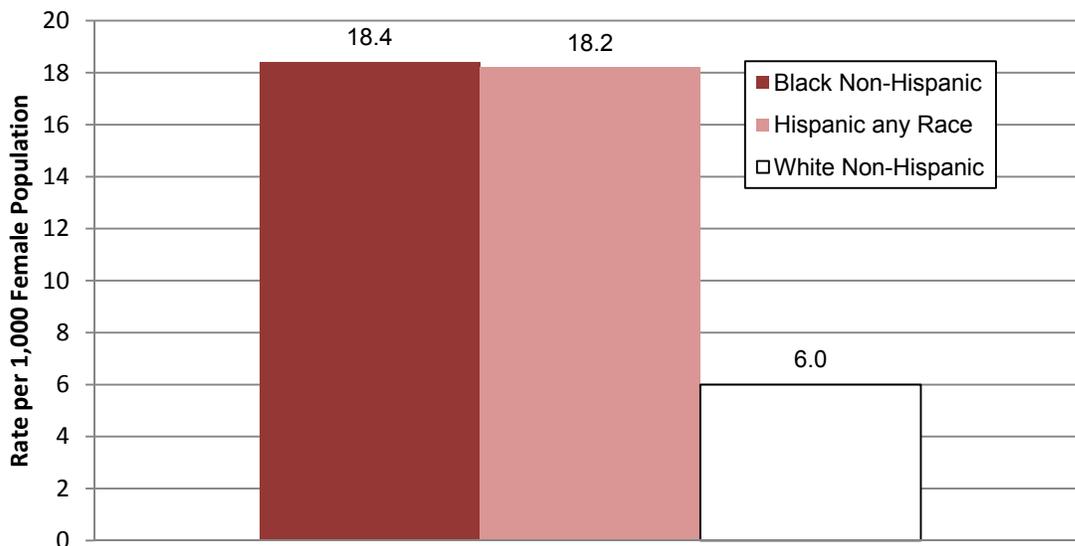
Trends

Figure C. Pregnancy Rates, Females Aged 10-19 Years, Kansas, 1991-2010



The number and single year rate of teenage pregnancies (10-19) decreased in 2010, continuing the decline that began in 2009 after a series of increases in the 2004-2008 period. The longer term trend is also downward. Teenage pregnancy rates (aged 10-19) dropped 30.6 percent overall during the past two decades (1991-2010) (Figure C).

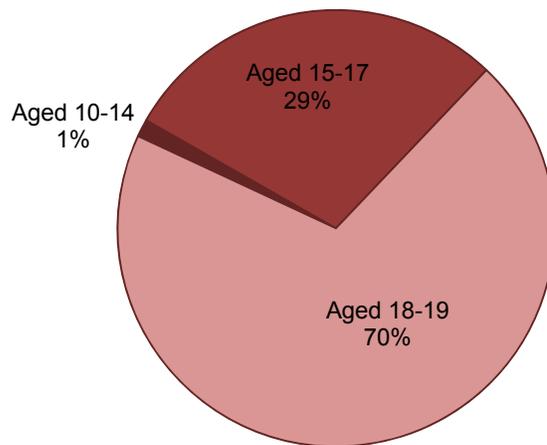
Figure D. Pregnancy Rates, Females Aged 10-17 Years by Population Group, Kansas, 2010



Pregnancy rates for Black non-Hispanic (18.4) and Hispanic (18.2) teens in the 10-17 age-group were roughly three times that for White non-Hispanic teens (6.0) in 2010 (Figure D, Table 3). Pregnancy rates for all three population groups have declined by more than fifty percent from their peaks for the 1991-2010 period (1992 for Black non-Hispanics and 1994 for White non-Hispanics and Hispanics).

Of pregnant teens and adolescents seven of 10 were aged 18-19 (Figure E). Just one percent was aged 10-14 and 29 percent aged 15-17.

Figure E. Pregnancies by Female Age Group, Kansas, 2010



The Kansas teenage pregnancy rates for females 15-19 years of age decreased 34.6 percent between 1991 and 2010. Teen pregnancy rates for females aged 10-17 decreased 38.9 percent during this same time period (Table 2, Figure 1).

Geographic Detail

Five year county pregnancy rates for females aged 15-19 were compared to the state rate and tested for significant difference (non-overlapping confidence intervals between the two rates). Rates for 12 counties were statistically higher than the state rate, and 24 counties were statistically lower than the state rates. Rates for 54 counties were not statistically different from the state rate. Rates for 15 counties were too unstable for comparison (Figure 2).

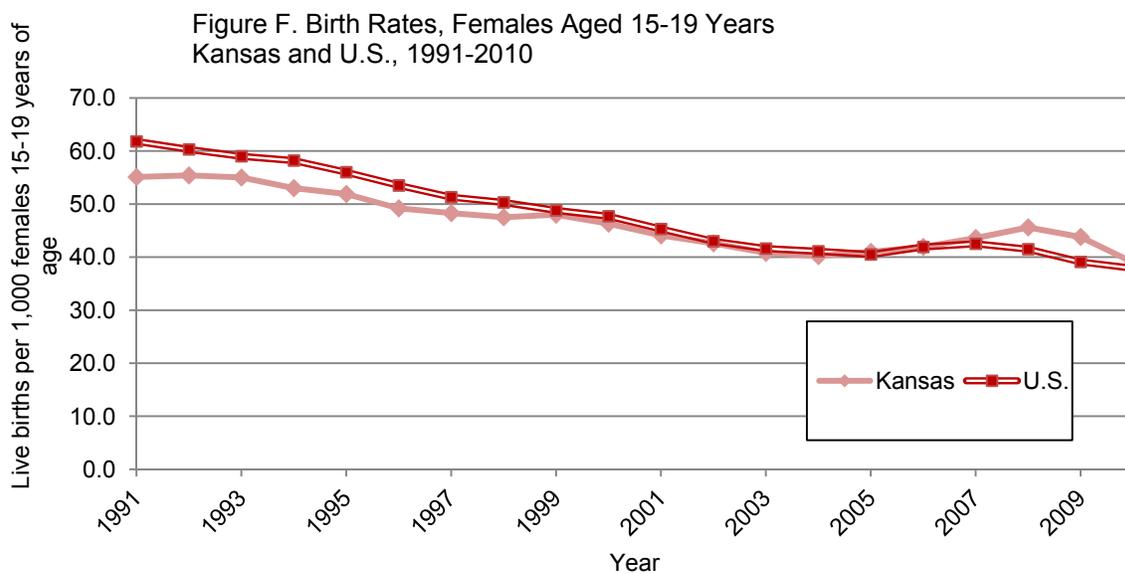
Five year pregnancy rates for females aged 15-19 ranged from a low of 7.3 per 1,000 per age group specific female population in Gove County to a high of 102.1 per 1,000 age group specific female population in Wyandotte County (Table 4). These rates compare to the state rate of 51.4 per 1,000. Gove county's teen births were too few for the rate to be considered stable while the Wyandotte county rate was statistically higher than the state rate.

In 2010, densely-settled rural counties had the highest pregnancy rates for 10-19 year old females (26.8), followed by semi-urban (23.1) and urban (22.5) counties (Table 1).

The five-year (2006-2010) teen pregnancy rate for Kansas resident females 10-19 years of age was 26.6 per 1,000 age group specific female population. The lowest five-year rate in the state was in Gove County with 3.3 pregnancies per 1,000 females 10-19 years of age. The highest rate was in Wyandotte County with 51.5 pregnancies per 1,000 females 10-19 years of age (Table 5).

Birth Rates

In 2010 the birth rate for Kansas mothers aged 15-19 (39.0 per 1,000 age-group specific female population) dropped by 11.0 percent from 2009 (43.8 per 1,000 age-group specific female population). During the 20-year period from 1991 to 2010 birth rates to Kansas mothers aged 15-19 has decreased by 29.2 percent (Figure F). For 14 years (1991 – 2004) the Kansas rate was lower than the U.S rate for births to teens aged 15-19. Beginning in 2005 the U.S. rate has dropped faster than the Kansas rate. The Kansas rate in 2010 is 3.0 percent higher than the U.S. rate.



Adequacy of Prenatal Care

Among all Kansas resident 2010 births for which APNCU could be calculated, 14.2 percent of the women of all ages received inadequate care. Twenty four percent (24.0) of teens aged 18-19 years received inadequate care. APNCU could not be calculated for 131 out of the 2,737 teens in this age group due to insufficient data. The rate for teens aged 15-17 years was 30.8 percent with APNCU not calculated for 71 of the 1,106 teen births in this group. The rate for teens aged 10-14 years was 33.3 percent. APNCU could not be calculated for three of the 36 births in this group.

Inadequate care levels were slightly higher in 2010 for teens aged 10-17 for whom the primary pay source for delivery was private insurance or TRICARE (29.0%) than for teens aged 10-17 with Medicaid and other pay sources that covered delivery (31.5%)

(Figure 3a). The disparity was greater when inadequate or intermediate care are combined (Figure 3b). Fewer mothers under the age of 18 had inadequate or intermediate level prenatal care when private insurance or TRICARE was the payor (31.8%) than when Medicaid or some other agency was the payor (38.5%).

Conclusions

Pregnancy continues to decline among Kansas females aged 10-19. Declines were seen in two age groups (15-17, 18-19) with a slight increase in the 10-14 age group. The number of teen pregnancies for females aged 10-14 increased from 56 in 2009 to 59 in 2010 leaving the rate essentially unchanged (Table 1).

The Kansas rate for pregnancies among females aged 15-17 (22.4 per 1,000 age group specific population) compares favorably with the Healthy People 2020 national target: 36.2 pregnancies per 1,000 population. The state pregnancy rate for females aged 18-19 (77.6 per 1,000 age group specific population) also compares favorably with the Healthy People 2020 national target: 105.9 pregnancies per 1,000 population.

Compared to the national birth rate for females aged 10-19, Kansas is not falling as quickly. Preliminary 2010 figures released by the National Center for Health Statistics show the U.S. teen birth rate to be 37.9 per age group specific female population [11]. The Kansas rate for females aged 10-19 for 2010 was 39.0 per 1,000 age group specific female population.

Women aged 10-14 and 15-17 have over twice the level of inadequate prenatal care than the all ages population of the state in 2010. Pregnant women who receive inadequate care are at increased risk of bearing infants who have low birth weight, are stillborn, or died within the first year of life. [12] Inadequate prenatal care is strongly associated with preterm birth among adolescents. [13]

Limitations

This report's findings are subject to at least one limitation. An important concern is the issue of receiving vital events from other states within the KDHE reporting deadline. Vital statistics are gathered on an occurrence basis but are traditionally reported on a residence basis. For complete residence statistics, reports must be received from other states for events occurring to Kansas residents. These events are reported for a full calendar year. Because of delays or other late reporting some vital event reports have not been received by KDHE by the cutoff date of June 30 of the year following the event year. Past evaluations indicate that over 99 percent of all vital events to Kansas residents are received before the cutoff date.

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Detailed Tables and Figures

**Table 1. Pregnancies*, Females Aged 10-19 Years, by Component
By County of Residence and by Peer Group, Kansas, 2010**

County of Residence	Live Births		Stillbirths		Abortions		Total Pregnancies		Teenage† Pregnancy Rate		Teenage† Preg. Rate
	Age-Group		Age-Group		Age-Group		Age-Group		Age-Group		Age-Group
	10-14	15-19	10-14	15-19	10-14	15-19	10-14	15-19	10-14	15-19	10-19
Allen	0	23	0	0	0	2	0	25	0.0	48.4	27.4
Anderson	0	14	0	0	0	0	0	14	0.0	58.1	27.4
Atchison	0	27	0	0	0	3	0	30	0.0	37.0	21.9
Barber	1	6	0	0	0	1	1	7	7.2	46.1	27.6
Barton	0	45	0	1	0	5	0	51	0.0	51.6	26.8
Bourbon	0	27	0	0	0	0	0	27	0.0	50.0	25.7
Brown	1	15	0	0	0	3	1	18	3.2	57.1	30.3
Butler	0	73	0	1	0	12	0	86	0.0	34.2	16.9
Chase	0	3	0	0	0	0	0	3	0.0	41.7	18.8
Chautauqua	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Cherokee	1	39	0	0	0	0	1	39	1.3	57.2	27.4
Cheyenne	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Clark	0	1	0	0	0	0	0	1	0.0	15.6	7.1
Clay	2	11	0	0	0	3	2	14	7.8	54.1	31.1
Cloud	0	19	0	0	0	2	0	21	0.0	57.1	32.7
Coffey	0	6	0	0	0	1	0	7	0.0	26.2	12.0
Comanche	0	2	0	0	0	0	0	2	0.0	40.8	16.1
Cowley	2	73	0	0	0	1	2	74	1.6	54.6	29.3
Crawford	0	47	0	0	0	5	0	52	0.0	33.0	19.0
Decatur	0	1	0	0	0	0	0	1	0.0	18.2	7.4
Dickinson	0	23	0	0	0	4	0	27	0.0	41.5	21.0
Doniphan	0	7	0	0	0	0	0	7	0.0	20.1	11.7
Douglas	0	70	0	0	1	32	1	102	0.4	18.8	12.6
Edwards	1	4	0	0	0	0	1	4	9.3	40.8	24.3
Elk	0	2	0	0	0	1	0	3	0.0	37.5	19.5
Ellis	1	38	0	0	0	5	1	43	1.4	38.2	23.6
Ellsworth	0	2	0	0	0	1	0	3	0.0	20.8	10.1
Finney	1	114	0	1	0	4	1	119	0.6	78.4	38.4
Ford	1	88	0	1	0	5	1	94	0.8	74.8	37.2
Franklin	1	35	0	0	0	8	1	43	1.1	46.8	24.5
Geary	0	81	0	1	1	13	1	95	0.9	81.0	41.4
Gove	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Graham	0	4	0	0	0	0	0	4	0.0	61.5	28.4
Grant	0	23	0	1	0	0	0	24	0.0	90.6	41.2
Gray	0	2	0	0	0	0	0	2	0.0	8.4	3.9
Greeley	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Greenwood	0	10	0	0	0	1	0	11	0.0	63.2	27.8
Hamilton	0	7	0	0	0	0	0	7	0.0	79.5	40.0
Harper	0	7	0	0	0	1	0	8	0.0	46.8	21.7
Harvey	0	47	0	0	0	3	0	50	0.0	40.4	20.3
Haskell	0	8	0	0	0	0	0	8	0.0	45.5	21.6
Hodgeman	0	1	0	0	0	0	0	1	0.0	15.9	7.2
Jackson	0	19	0	0	0	3	0	22	0.0	53.1	24.6
Jefferson	0	9	0	0	0	1	0	10	0.0	15.7	7.6
Jewell	0	1	0	0	0	0	0	1	0.0	14.5	6.8
Johnson	1	265	0	2	4	129	5	396	0.3	23.9	11.1
Kearny	1	8	0	1	0	0	1	9	6.3	64.7	33.4
Kingman	0	8	0	0	0	0	0	8	0.0	31.0	14.5
Kiowa	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Labette	0	57	0	0	0	5	0	62	0.0	81.9	43.8
Lane	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Leavenworth	1	63	0	1	3	15	4	79	1.6	33.1	16.9
Lincoln	0	2	0	0	0	1	0	3	0.0	34.1	15.7
Linn	0	11	0	0	0	1	0	12	0.0	44.6	19.9
Logan	0	1	0	0	0	0	0	1	0.0	11.9	6.0

**Table 1. Pregnancies*, Females Aged 10-19 Years, by Component
By County of Residence and by Peer Group, Kansas, 2010**

County of Residence	Live Births		Stillbirths		Abortions		Total Pregnancies		Teenage† Pregnancy Rate		Teenage† Preg. Rate
	Age-Group		Age-Group		Age-Group		Age-Group		Age-Group		Age-Group
	10-14	15-19	10-14	15-19	10-14	15-19	10-14	15-19	10-14	15-19	10-19
Lyon	1	57	0	0	1	12	2	69	2.0	47.9	29.2
Mcperson	1	22	0	0	0	0	1	22	1.0	23.9	12.1
Marion	0	11	0	0	0	3	0	14	0.0	33.3	17.2
Marshall	0	8	0	0	0	0	0	8	0.0	28.0	13.3
Meade	0	5	0	0	0	0	0	5	0.0	29.2	13.6
Miami	1	30	0	0	0	7	1	37	0.8	33.7	15.9
Mitchell	0	3	0	0	0	0	0	3	0.0	17.1	8.0
Montgomery	0	64	0	0	1	7	1	71	1.0	56.4	31.7
Morris	0	8	0	0	0	1	0	9	0.0	55.6	27.0
Morton	0	7	0	0	0	0	0	7	0.0	61.4	27.6
Nemaha	0	5	0	0	0	1	0	6	0.0	19.4	8.7
Neosho	0	32	0	0	0	3	0	35	0.0	60.4	30.8
Ness	0	4	0	0	0	0	0	4	0.0	49.4	23.5
Norton	0	2	0	0	0	0	0	2	0.0	13.2	6.8
Osage	0	17	0	0	0	2	0	19	0.0	35.8	16.8
Osborne	0	5	0	0	0	0	0	5	0.0	43.9	21.6
Ottawa	0	7	0	0	0	1	0	8	0.0	45.2	20.1
Pawnee	0	6	0	0	0	1	0	7	0.0	40.5	17.8
Phillips	0	3	0	0	0	0	0	3	0.0	18.0	8.2
Pottawatomie	0	15	0	1	0	0	0	16	0.0	21.5	9.9
Pratt	0	9	0	0	0	1	0	10	0.0	27.1	15.2
Rawlins	0	2	0	0	0	0	0	2	0.0	32.3	15.5
Reno	0	87	0	1	0	7	0	95	0.0	44.1	22.5
Republic	0	4	0	1	0	0	0	5	0.0	40.7	19.4
Rice	0	11	0	0	1	2	1	13	3.2	33.5	19.9
Riley	1	57	0	0	1	27	2	84	1.4	23.3	17.0
Rooks	0	5	0	0	0	0	0	5	0.0	30.1	15.0
Rush	0	4	0	0	0	2	0	6	0.0	70.6	37.0
Russell	0	10	0	0	0	1	0	11	0.0	57.3	28.6
Saline	0	104	0	2	0	13	0	119	0.0	67.0	32.8
Scott	0	5	0	0	0	0	0	5	0.0	35.5	16.2
Sedgwick	4	904	0	0	5	85	9	989	0.5	57.1	28.4
Seward	1	70	0	0	0	1	1	71	1.1	78.6	40.4
Shawnee	4	273	0	3	1	46	5	322	0.9	56.8	28.3
Sheridan	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Sherman	0	14	0	0	0	0	0	14	0.0	89.7	41.1
Smith	0	2	0	0	0	0	0	2	0.0	17.9	9.3
Stafford	0	9	0	0	0	0	0	9	0.0	63.4	31.8
Stanton	0	5	0	0	0	0	0	5	0.0	63.3	29.2
Stevens	0	11	0	0	0	0	0	11	0.0	52.9	26.1
Sumner	0	39	0	1	0	4	0	44	0.0	56.9	26.4
Thomas	0	8	0	0	0	0	0	8	0.0	20.2	12.3
Trego	0	2	0	0	0	0	0	2	0.0	19.8	10.6
Wabaunsee	0	1	0	1	0	2	0	4	0.0	19.1	8.8
Wallace	0	1	0	0	0	0	0	1	0.0	16.7	9.5
Washington	0	1	0	0	0	0	0	1	0.0	6.4	2.9
Wichita	0	4	0	0	0	0	0	4	0.0	66.7	29.2
Wilson	1	19	0	0	0	1	1	20	3.2	70.4	35.3
Woodson	0	7	0	0	0	2	0	9	0.0	123.3	52.3
Wyandotte	7	415	0	3	2	67	9	485	1.6	89.7	44.8
Unknown	0	0	0	0	2	6	2	6	n/a	n/a	n/a
Kansas	36	3,843	0	23	23	576	59	4,442	0.6	45.1	23.1
Peer Group											
Frontier	3	122	0	1	0	6	3	129	0.8	38.4	18.9
Rural	4	272	0	3	1	28	5	317	0.6	37.2	20.2
Densely-Settled Rural	9	834	0	5	1	60	10	885	0.6	53.6	26.8
Semi-Urban	3	625	0	5	3	102	6	732	0.4	42.3	23.1
Urban	17	1,990	0	9	16	374	33	2,373	0.6	45.0	22.5

n/a = Not applicable

*Pregnancies include the sum of live births, stillbirths and abortions.

†Rates per 1,000 female age-group population.

2010 female age-group population numbers are actual counts from the US Census 2000, dated 4/1/2010.

Table 2
Pregnancies by Number and Rate*
Females Aged 10-19 Years
Kansas, 1991-2010

Year	Teen (10-19) Pregnancies	Age-Group				Teen (10-19) Pregnancy Rate	Pregnancy Rate					
		10-14	15-17	18-19	10-17		15-19	10-14	15-17	18-19	10-17	15-19
1991	5,743	98	1,904	3,741	2,002	5,645	33.3	1.1	39.0	113.6	14.4	69.0
1992	6,165	111	2,110	3,944	2,221	6,054	34.8	1.2	41.4	121.1	15.4	72.6
1993	6,405	133	2,219	4,053	2,352	6,272	35.2	1.4	42.4	120.5	15.9	73.3
1994	6,500	124	2,302	4,074	2,426	6,376	34.8	1.3	42.4	117.6	15.9	71.9
1995	6,552	153	2,332	4,067	2,485	6,399	34.5	1.6	41.3	113.4	16.1	69.5
1996	6,498	133	2,276	4,089	2,409	6,365	33.9	1.4	38.9	110.4	15.6	67.0
1997	6,469	123	2,260	4,086	2,383	6,346	33.3	1.3	37.4	107.6	15.3	64.7
1998	6,444	108	2,087	4,249	2,195	6,336	32.4	1.1	34.1	106.3	13.8	62.0
1999	6,402	103	1,979	4,320	2,082	6,299	31.9	1.1	32.4	105.0	13.1	60.7
2000	6,090	94	1,819	4,177	1,913	5,996	30.3	0.9	30.1	101.4	12.0	58.7
2001	5,818	79	1,819	3,920	1,898	5,739	28.8	0.8	30.2	96.0	11.9	56.0
2002	5,586	86	1,684	3,816	1,770	5,500	28.3	0.9	28.3	92.9	11.3	54.7
2003	5,174	73	1,559	3,542	1,632	5,101	26.4	0.8	26.6	86.8	10.5	51.3
2004	5,026	71	1,492	3,463	1,563	4,955	26.1	0.8	25.8	85.1	10.3	50.3
2005	5,044	69	1,483	3,492	1,552	4,975	26.7	0.8	25.7	87.1	10.4	50.8
2006	5,192	85	1,507	3,600	1,592	5,107	27.1	0.9	25.5	93.1	10.4	52.2
2007	5,268	70	1,573	3,625	1,643	5,198	27.8	0.8	26.8	93.1	10.9	53.2
2008	5,371	66	1,552	3,753	1,618	5,305	28.6	0.7	27.1	95.7	10.9	55.0
2009	5,036	56	1,417	3,563	1,473	4,980	26.8	0.6	25.2	88.5	10.0	51.6
2010	4,501	59	1,298	3,144	1,357	4,442	23.1	0.6	22.4	77.6	8.8	45.1

*Rate per 1,000 female age-group population; 2010 rates use actual 2010 Census populations.

Pregnancies include the sum of live births, stillbirths and abortions.

Residence data

Table 3
Pregnancies Females Aged 10-17 Years, by Number and Rate*
For Selected Population Groups
Kansas, 1991-2010

Year	Number of Pregnancies			Pregnancy Rate			Birth Rate		
	White	Black	Hispanic	White	Black	Hispanic	White	Black	Hispanic
	Non-Hispanic	Non-Hispanic		Non-Hispanic	Non-Hispanic		Non-Hispanic	Non-Hispanic	
1991	1,391	357	209	11.7	36.6	29.1	8.3	31.9	22.0
1992	1,466	422	283	11.9	41.2	36.3	8.2	36.1	22.2
1993	1,557	429	287	12.3	41.1	34.0	8.4	35.7	22.4
1994	1,629	403	344	12.7	37.8	38.1	8.6	32.9	24.0
1995	n/a†	n/a†	n/a†	n/a†	n/a†	n/a†	8.6	32.7	25.6
1996	1,642	376	325	12.5	34.7	31.6	8.1	27.6	28.1
1997	1,575	406	327	11.9	36.6	29.4	8.1	28.0	26.5
1998	1,462	319	325	11.1	28.2	27.5	7.4	22.1	23.6
1999	1,314	337	352	10.0	29.2	28.0	6.9	22.7	25.5
2000	1,184	293	385	9.3	24.9	29.1	6.5	19.6	25.4
2001	1,202	269	364	9.5	22.4	26.2	6.5	17.3	24.1
2002	1,078	267	364	8.7	21.8	24.9	5.9	16.2	23.6
2003	944	277	358	7.7	22.4	23.6	5.4	15.9	21.4
2004	901	248	351	7.5	20.7	22.9	5.7	15.7	20.7
2005	836	249	380	7.2	20.9	24.0	5.2	15.4	21.2
2006	866	236	408	7.3	19.5	23.6	5.2	14.0	20.9
2007	840	205	504	7.3	16.6	28.5	5.4	13.6	25.7
2008	842	239	460	7.4	19.6	25.4	5.6	15.2	23.3
2009	776	175	437	6.9	14.3	23.3	5.3	10.6	21.8
2010	661	185	416	6.0	18.4	18.2	4.9	14.2	17.1

Pregnancies include the sum of live births, stillbirths and abortions.

* Rate per 1,000 female age-group population; 2010 rates use actual 2010 Census populations.

† Six months of abortion data from 1995 lack race and ethnicity information, making it impossible to determine number of pregnancies and pregnancy rates by population group.

**Figure 1. Pregnancy Rates for Selected Female Age-Groups
Kansas, 1991-2010**

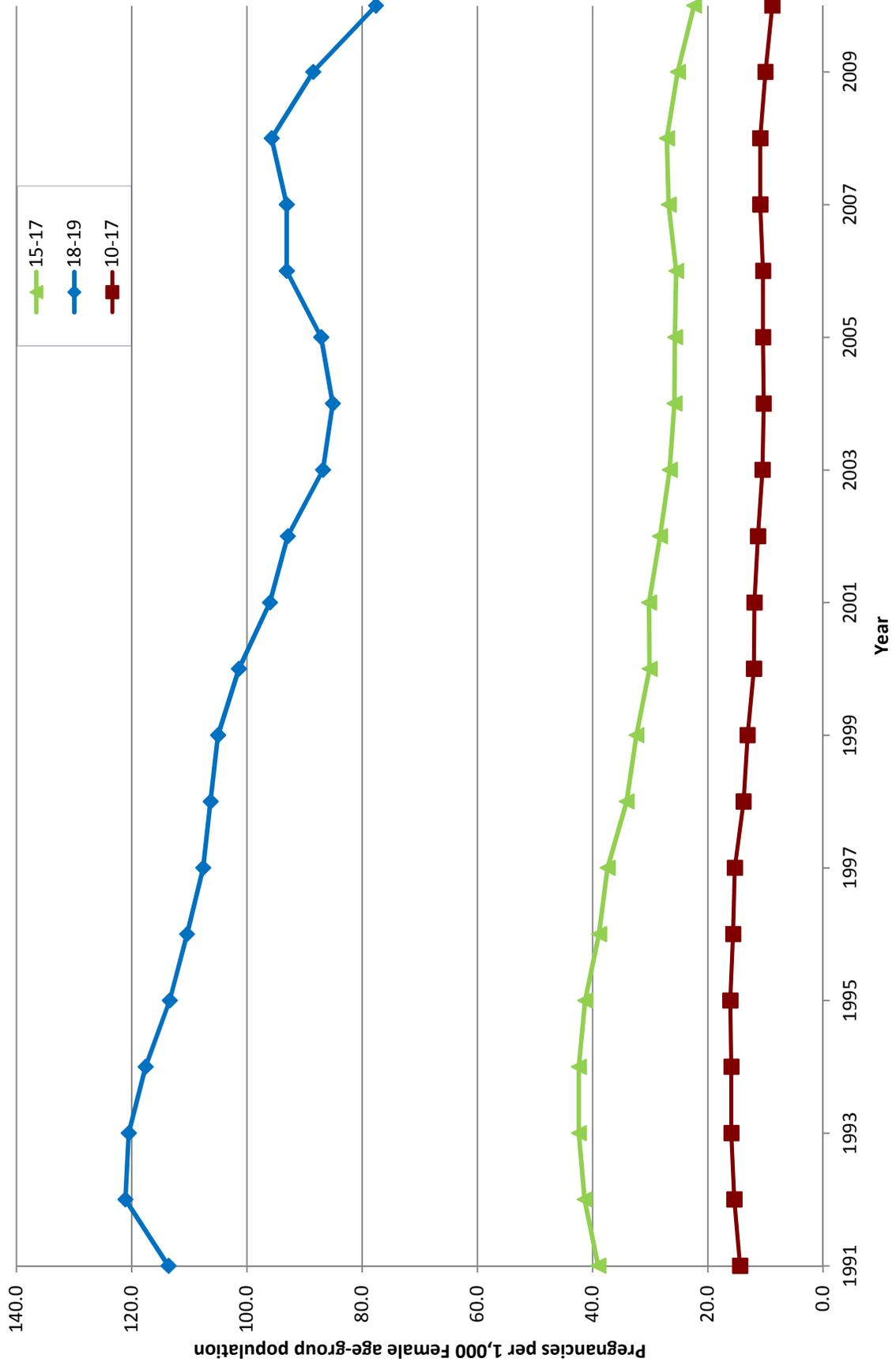
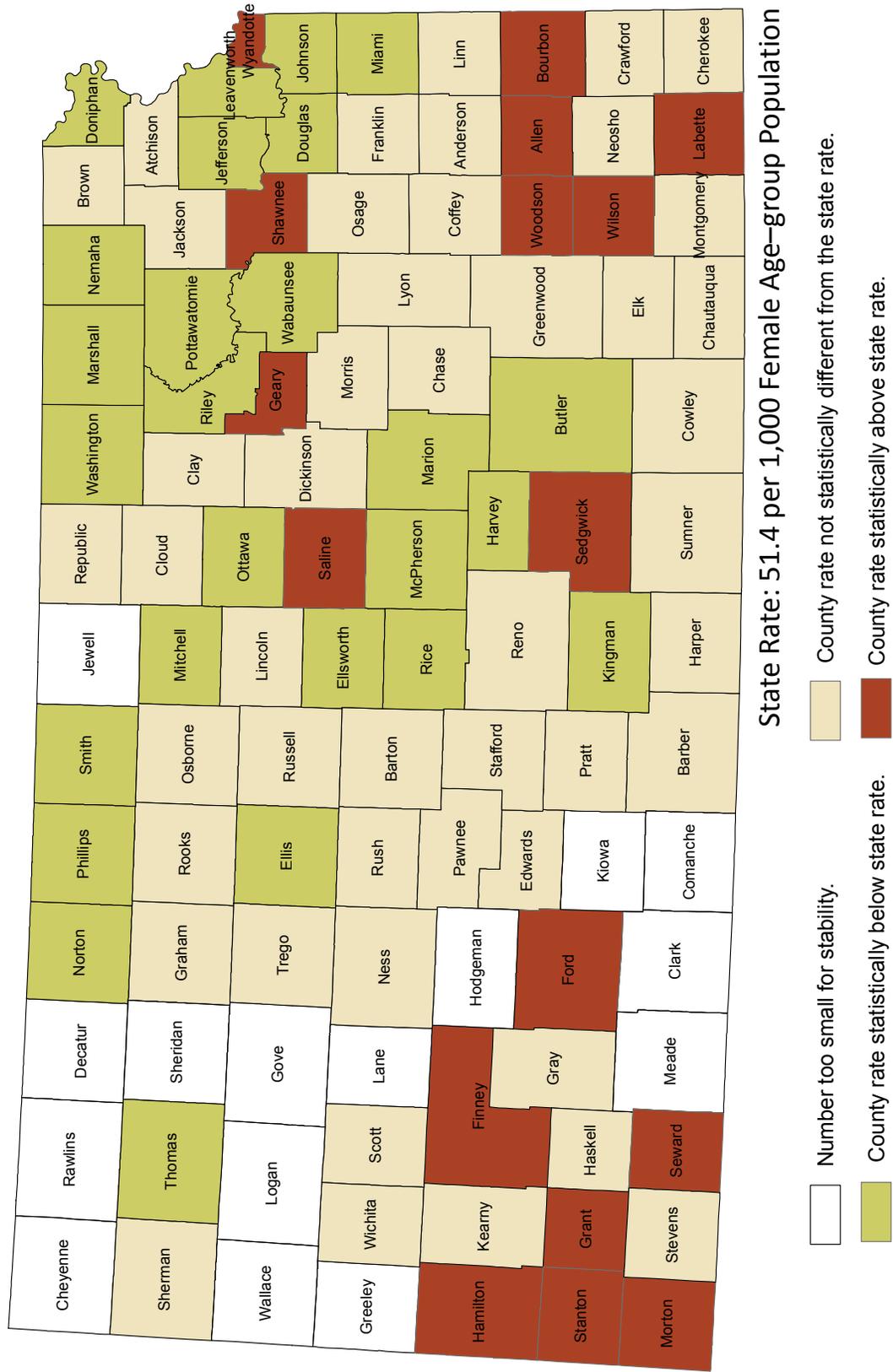


Figure 2. County Pregnancy Rates Relative to State Pregnancy Rate
 Females Aged 15-19 Years, Kansas, 2006-2010



**Table 4. Pregnancy* Rates†, Females Aged 10-14 and 15-19 Years
By County of Residence, Kansas, 2006-2010**

County of Residence	Year										5-year Rate	
	2006		2007		2008		2009		2010			
	Age-Group		Age-Group		Age-Group		Age-Group		Age-Group		Age-Group	
	10-14	15-19	10-14	15-19	10-14	15-19	10-14	15-19	10-14	15-19	10-14	15-19
Allen	0.0	83.0	0.0	58.7	0.0	61.9	0.0	74.3	0.0	48.4	0.0	64.7
Anderson	0.0	52.2	0.0	65.7	0.0	50.2	0.0	50.2	0.0	58.1	0.0	55.3
Atchison	0.0	59.2	0.0	50.4	0.0	42.6	0.0	51.8	0.0	37.0	0.0	47.8
Barber	0.0	37.0	0.0	37.7	0.0	67.6	0.0	71.0	7.2	46.1	1.3	51.1
Barton	0.0	51.6	2.3	60.6	1.2	65.8	0.0	56.8	0.0	51.6	0.7	57.3
Bourbon	0.0	74.7	0.0	95.4	0.0	69.5	0.0	60.0	0.0	50.0	0.0	69.9
Brown	3.1	64.4	0.0	59.2	0.0	83.9	0.0	55.1	3.2	57.1	1.2	63.8
Butler	0.0	38.9	0.0	40.7	0.0	47.0	0.4	40.0	0.0	34.2	0.1	40.1
Chase	0.0	54.3	0.0	48.8	0.0	69.4	0.0	28.2	0.0	41.7	0.0	48.8
Chautauqua	0.0	43.5	0.0	28.2	0.0	71.9	0.0	80.0	0.0	0.0	0.0	46.0
Cherokee	0.0	59.4	0.0	49.7	1.4	65.7	0.0	60.6	1.3	57.2	0.5	58.5
Cheyenne	0.0	51.0	0.0	32.6	0.0	0.0	0.0	13.7	0.0	0.0	0.0	21.6
Clark	0.0	0.0	0.0	43.5	0.0	31.3	0.0	0.0	0.0	15.6	0.0	17.7
Clay	0.0	51.3	0.0	36.9	4.2	38.0	0.0	67.1	7.8	54.1	2.3	49.7
Cloud	3.5	38.9	0.0	48.7	0.0	56.4	0.0	45.2	0.0	57.1	0.7	49.1
Coffey	0.0	47.1	0.0	36.7	0.0	44.2	0.0	37.9	0.0	26.2	0.0	38.2
Comanche	0.0	0.0	0.0	40.0	0.0	19.2	0.0	20.8	0.0	40.8	0.0	24.7
Cowley	0.8	55.8	0.9	52.4	0.9	61.8	0.0	54.0	1.6	54.6	0.9	55.7
Crawford	0.9	48.5	1.8	56.5	0.9	53.7	0.9	54.5	0.0	33.0	0.9	49.0
Decatur	0.0	10.5	0.0	20.8	0.0	0.0	0.0	13.2	0.0	18.2	0.0	12.1
Dickinson	0.0	54.1	1.7	50.2	0.0	40.7	0.0	52.5	0.0	41.5	0.3	47.9
Doniphan	0.0	22.9	0.0	31.6	0.0	35.7	0.0	27.4	0.0	20.1	0.0	27.5
Douglas	0.3	20.9	0.3	26.0	0.3	21.5	0.0	18.6	0.4	18.8	0.3	21.1
Edwards	0.0	65.2	10.8	117.6	0.0	72.2	0.0	29.4	9.3	40.8	4.1	63.3
Elk	0.0	38.8	0.0	73.7	0.0	94.1	12.8	22.2	0.0	37.5	2.6	53.0
Ellis	1.5	32.9	0.0	35.8	0.0	40.6	1.6	28.9	1.4	38.2	0.9	35.2
Ellsworth	0.0	60.1	0.0	29.4	0.0	19.2	0.0	34.5	0.0	20.8	0.0	33.9
Finney	2.7	80.9	1.8	66.1	1.1	85.8	1.8	85.4	0.6	78.4	1.6	79.4
Ford	0.8	82.9	3.2	73.5	1.6	86.9	1.6	100.8	0.8	74.8	1.6	83.6
Franklin	1.1	56.3	1.2	49.0	0.0	62.5	0.0	49.9	1.1	46.8	0.7	52.9
Geary	0.0	114.7	3.4	103.3	0.0	109.4	0.0	108.4	0.9	81.0	0.8	102.0
Gove	0.0	0.0	0.0	11.4	0.0	0.0	0.0	22.7	0.0	0.0	0.0	7.3
Graham	0.0	38.5	0.0	12.0	0.0	28.2	0.0	28.6	0.0	61.5	0.0	32.7
Grant	0.0	60.6	0.0	85.3	0.0	69.6	3.6	99.0	0.0	90.6	0.7	80.9
Gray	0.0	44.0	0.0	55.6	0.0	62.1	0.0	37.9	0.0	8.4	0.0	39.5
Greeley	0.0	0.0	0.0	0.0	0.0	50.0	0.0	105.3	0.0	0.0	0.0	30.9
Greenwood	0.0	38.1	0.0	71.8	0.0	50.0	0.0	21.4	0.0	63.2	0.0	49.0
Hamilton	0.0	97.1	0.0	85.7	0.0	119.6	0.0	93.8	0.0	79.5	0.0	95.0
Harper	0.0	41.7	0.0	64.7	0.0	75.5	0.0	65.6	0.0	46.8	0.0	58.3
Harvey	0.0	37.9	0.9	38.6	0.0	41.0	0.9	42.6	0.0	40.4	0.4	40.1
Haskell	5.5	42.0	0.0	49.3	0.0	56.7	0.0	62.1	0.0	45.5	1.2	51.1
Hodgeman	0.0	35.7	0.0	38.0	0.0	13.7	0.0	27.8	0.0	15.9	0.0	27.0
Jackson	0.0	37.5	0.0	31.3	0.0	55.0	0.0	48.7	0.0	53.1	0.0	44.9
Jefferson	0.0	51.0	0.0	49.8	1.7	40.1	0.0	34.7	0.0	15.7	0.3	38.0
Jewell	0.0	10.0	0.0	31.6	0.0	36.1	0.0	11.9	0.0	14.5	0.0	20.9
Johnson	0.7	30.0	0.2	33.7	0.4	31.9	0.3	27.0	0.3	23.9	0.4	29.3
Kearny	0.0	81.4	0.0	58.4	0.0	87.5	0.0	51.7	6.3	64.7	1.3	68.8
Kingman	0.0	35.6	0.0	36.5	0.0	36.4	0.0	43.6	0.0	31.0	0.0	36.7
Kiowa	0.0	29.4	0.0	19.2	0.0	36.1	0.0	35.3	0.0	0.0	0.0	22.4
Labette	4.1	68.4	0.0	91.4	0.0	71.4	0.0	77.1	0.0	81.9	0.9	78.1
Lane	0.0	0.0	0.0	0.0	0.0	35.7	0.0	17.9	0.0	0.0	0.0	11.2
Leavenworth	1.5	40.8	0.0	45.3	0.4	52.2	0.8	40.7	1.6	33.1	0.8	42.5
Lincoln	8.8	61.0	0.0	39.5	0.0	51.9	0.0	33.7	0.0	34.1	1.9	43.7
Linn	3.3	59.9	0.0	48.4	0.0	48.7	0.0	41.0	0.0	44.6	0.7	48.5
Logan	0.0	18.7	0.0	0.0	0.0	0.0	0.0	40.8	0.0	11.9	0.0	14.3

**Table 4. Pregnancy* Rates†, Females Aged 10-14 and 15-19 Years
By County of Residence, Kansas, 2006-2010**

County of Residence	Year										5-year Rate	
	2006		2007		2008		2009		2010			
	Age-Group		Age-Group		Age-Group		Age-Group		Age-Group		Age-Group	
	10-14	15-19	10-14	15-19	10-14	15-19	10-14	15-19	10-14	15-19	10-14	15-19
Lyon	0.9	50.7	1.8	48.3	0.9	51.4	1.1	32.0	2.0	47.9	1.3	46.1
Mcperson	1.2	37.1	0.0	25.6	1.2	42.9	0.0	27.1	1.0	23.9	0.7	31.4
Marion	0.0	14.4	0.0	25.7	0.0	20.0	0.0	16.1	0.0	33.3	0.0	21.7
Marshall	0.0	31.4	0.0	14.7	4.2	34.4	0.0	23.8	0.0	28.0	0.7	26.3
Meade	0.0	27.8	0.0	42.9	0.0	55.6	0.0	69.9	0.0	29.2	0.0	44.5
Miami	0.0	42.7	0.0	35.1	1.0	35.8	0.9	53.4	0.8	33.7	0.5	40.2
Mitchell	0.0	23.9	0.0	24.6	0.0	29.1	0.0	11.2	0.0	17.1	0.0	21.6
Montgomery	0.0	78.1	1.0	76.1	0.0	73.3	1.0	60.0	1.0	56.4	0.6	68.6
Morris	0.0	30.2	0.0	43.1	0.0	44.3	0.0	36.6	0.0	55.6	0.0	41.5
Morton	7.6	90.1	0.0	79.6	0.0	54.1	7.9	100.8	0.0	61.4	3.2	77.5
Nemaha	0.0	32.0	0.0	17.4	0.0	12.3	0.0	12.1	0.0	19.4	0.0	19.0
Neosho	2.0	56.0	0.0	73.9	0.0	66.2	0.0	48.4	0.0	60.4	0.4	61.0
Ness	13.3	40.0	0.0	57.5	0.0	61.0	0.0	25.3	0.0	49.4	2.5	47.0
Norton	0.0	21.6	0.0	46.2	7.1	23.4	0.0	27.6	0.0	13.2	1.4	25.9
Osage	0.0	49.7	0.0	45.2	1.8	51.6	0.0	41.7	0.0	35.8	0.3	44.9
Osborne	0.0	39.4	0.0	68.4	0.0	59.8	0.0	35.7	0.0	43.9	0.0	49.4
Ottawa	0.0	46.2	0.0	31.3	0.0	28.4	0.0	27.5	0.0	45.2	0.0	35.8
Pawnee	0.0	32.0	0.0	54.8	0.0	45.7	0.0	45.9	0.0	40.5	0.0	43.8
Phillips	0.0	25.9	0.0	17.8	0.0	43.2	0.0	12.5	0.0	18.0	0.0	23.5
Pottawatomie	0.0	29.9	0.0	34.2	1.5	42.3	1.4	34.2	0.0	21.5	0.5	32.3
Pratt	0.0	53.3	0.0	70.3	0.0	75.5	0.0	57.6	0.0	27.1	0.0	55.8
Rawlins	0.0	23.3	13.2	11.8	0.0	12.0	0.0	37.0	0.0	32.3	2.9	22.7
Reno	1.1	51.0	0.0	58.0	0.0	60.7	0.0	65.1	0.0	44.1	0.2	55.4
Republic	0.0	67.5	0.0	42.3	0.0	61.1	0.0	29.4	0.0	40.7	0.0	48.9
Rice	0.0	33.2	0.0	21.7	3.7	26.1	0.0	28.6	3.2	33.5	1.4	28.4
Riley	0.7	30.8	0.7	25.4	0.0	27.7	0.0	27.4	1.4	23.3	0.6	26.9
Rooks	0.0	35.5	0.0	62.9	0.0	51.9	0.0	42.3	0.0	30.1	0.0	44.0
Rush	0.0	49.5	0.0	20.4	0.0	44.0	0.0	23.8	0.0	70.6	0.0	41.4
Russell	0.0	35.7	0.0	33.0	0.0	80.5	0.0	82.0	0.0	57.3	0.0	57.2
Saline	1.7	76.2	1.1	68.6	0.6	86.2	0.6	69.2	0.0	67.0	0.8	73.3
Scott	0.0	40.8	0.0	83.9	0.0	29.9	0.0	51.3	0.0	35.5	0.0	48.5
Sedgwick	0.9	68.2	0.8	68.8	0.9	68.5	1.1	71.2	0.5	57.1	0.8	66.6
Seward	3.2	97.5	2.2	102.1	1.1	118.2	0.0	113.4	1.1	78.6	1.5	101.6
Shawnee	0.5	64.6	1.6	71.9	1.3	60.9	0.5	66.8	0.9	56.8	1.0	64.1
Sheridan	0.0	0.0	0.0	57.5	0.0	41.7	0.0	41.7	0.0	0.0	0.0	28.9
Sherman	0.0	44.1	0.0	58.8	0.0	58.8	0.0	33.7	0.0	89.7	0.0	56.0
Smith	0.0	29.4	0.0	25.2	0.0	55.6	0.0	26.5	0.0	17.9	0.0	30.6
Stafford	0.0	49.2	0.0	53.3	0.0	46.4	0.0	34.0	0.0	63.4	0.0	49.2
Stanton	0.0	36.1	0.0	144.6	0.0	156.6	0.0	70.6	0.0	63.3	0.0	94.4
Stevens	5.1	33.2	0.0	71.8	0.0	70.7	5.4	55.0	0.0	52.9	2.1	56.1
Sumner	0.0	43.8	0.0	32.8	0.0	56.5	0.0	40.9	0.0	56.9	0.0	45.8
Thomas	0.0	37.9	0.0	24.0	0.0	44.9	0.0	39.5	0.0	20.2	0.0	33.2
Trego	0.0	41.1	0.0	39.5	0.0	40.0	0.0	46.0	0.0	19.8	0.0	36.4
Wabaunsee	0.0	24.3	0.0	34.1	0.0	38.6	0.0	47.4	0.0	19.1	0.0	32.8
Wallace	0.0	18.9	0.0	0.0	0.0	20.4	0.0	0.0	0.0	16.7	0.0	10.8
Washington	0.0	5.1	0.0	31.9	0.0	28.2	0.0	30.9	0.0	6.4	0.0	20.4
Wichita	0.0	112.9	0.0	81.1	0.0	25.6	0.0	63.3	0.0	66.7	0.0	68.0
Wilson	0.0	87.2	0.0	75.7	3.6	59.9	0.0	69.0	3.2	70.4	1.3	72.5
Woodson	11.8	71.4	0.0	90.9	0.0	68.5	0.0	66.7	0.0	123.3	2.3	83.5
Wyandotte	2.8	108.7	2.7	100.2	2.4	106.4	1.7	105.5	1.6	89.7	2.3	102.1
Kansas	0.9	52.2	0.8	53.2	0.7	55.0	0.6	51.6	0.6	45.1	0.7	51.4

* Pregnancies include the sum of live births, stillbirths and abortions.

† Rates per 1,000 female age-group population.

2006-2009 female age-group population estimates were compiled by the U.S. Census Bureau as of 7/1 of each year; 2010 population values were actual 2000 Census counts dated 4/1/10.

Source: Bureau of Epidemiology and Public Health Informatics
Kansas Department of Health and Environment

**Table 5. Pregnancy* Rates†, Females Aged 10-19 Years,
By County of Residence, Kansas, 2006-2010**

County of Residence	2006	2007	2008	2009	2010	5-year Rate
Allen	44.8	32.1	32.9	38.0	27.4	34.9
Anderson	25.9	34.4	25.7	24.4	27.4	27.6
Atchison	31.5	27.2	22.9	28.1	21.9	26.3
Barber	19.7	18.8	35.0	36.5	27.6	27.1
Barton	28.0	34.3	36.3	30.2	26.8	31.1
Bourbon	36.9	49.8	36.4	30.6	25.7	35.8
Brown	35.1	30.1	41.3	27.9	30.3	32.9
Butler	20.2	21.4	24.6	20.3	16.9	20.6
Chase	27.9	27.4	36.5	13.4	18.8	24.6
Chautauqua	22.6	15.2	41.3	42.9	0.0	24.8
Cherokee	30.0	26.1	34.2	28.5	27.4	29.2
Cheyenne	28.2	20.1	0.0	6.6	0.0	11.9
Clark	0.0	21.6	15.2	0.0	7.1	8.7
Clay	26.3	19.3	22.0	33.8	31.1	26.7
Cloud	24.4	29.6	34.3	26.6	32.7	29.5
Coffey	21.9	17.2	19.6	17.7	12.0	17.6
Comanche	0.0	20.2	9.3	8.8	16.1	11.0
Cowley	30.1	29.5	35.3	30.2	29.3	30.9
Crawford	28.2	33.0	30.7	32.2	19.0	28.5
Decatur	5.2	11.7	0.0	6.8	7.4	6.2
Dickinson	28.2	26.5	20.4	26.0	21.0	24.5
Doniphan	13.2	18.1	20.0	15.3	11.7	15.7
Douglas	13.8	17.1	14.3	12.8	12.6	14.1
Edwards	30.5	61.8	38.7	15.3	24.3	33.4
Elk	21.2	40.9	49.1	17.9	19.5	29.6
Ellis	21.3	22.2	24.9	19.3	23.6	22.2
Ellsworth	31.5	15.1	9.8	17.8	10.1	17.3
Finney	39.2	33.7	43.1	42.1	38.4	39.4
Ford	40.7	37.7	43.5	49.8	37.2	41.7
Franklin	29.3	26.3	33.0	26.7	24.5	27.9
Geary	54.8	51.4	50.0	57.8	41.4	50.4
Gove	0.0	5.3	0.0	10.9	0.0	3.3
Graham	19.0	6.5	14.6	14.5	28.4	16.5
Grant	30.4	44.0	35.3	52.3	41.2	40.6
Gray	19.0	25.3	27.2	17.7	3.9	17.8
Greeley	0.0	0.0	21.5	48.2	0.0	13.8
Greenwood	19.7	37.5	25.4	9.9	27.8	24.0
Hamilton	52.4	47.1	62.1	52.0	40.0	50.7
Harper	21.1	30.8	35.9	31.7	21.7	28.1
Harvey	20.0	20.7	21.5	22.7	20.3	21.0
Haskell	21.5	23.4	29.0	30.8	21.6	25.1
Hodgeman	19.7	20.7	7.0	13.6	7.2	13.8
Jackson	18.5	15.6	26.4	23.5	24.6	21.7
Jefferson	24.9	24.9	20.7	17.6	7.6	19.0
Jewell	4.8	16.1	17.6	6.1	6.8	10.3
Johnson	14.7	16.1	15.2	12.9	11.1	14.0
Kearny	40.8	30.5	46.7	27.2	33.4	35.7
Kingman	18.0	18.9	18.4	22.3	14.5	18.4
Kiowa	16.2	11.0	20.8	19.4	0.0	12.7
Labette	36.8	48.5	36.9	38.7	43.8	40.9
Lane	0.0	0.0	17.9	9.0	0.0	5.3
Leavenworth	20.7	22.4	26.0	20.0	16.9	21.2
Lincoln	30.6	16.9	23.3	15.1	15.7	20.3
Linn	30.7	24.9	23.6	19.9	19.9	23.7
Logan	10.6	0.0	0.0	22.9	6.0	8.0

**Table 5. Pregnancy* Rates†, Females Aged 10-19 Years,
By County of Residence, Kansas, 2006-2010**

County of Residence	2006	2007	2008	2009	2010	5-year Rate
Lyon	29.5	28.7	30.2	20.0	29.2	27.6
Mcperson	21.5	14.4	23.8	14.6	12.1	17.2
Marion	8.0	14.1	11.0	8.5	17.2	11.7
Marshall	16.7	8.3	21.5	12.7	13.3	14.4
Meade	12.0	17.9	24.7	29.1	13.6	19.4
Miami	20.5	17.2	17.8	25.9	15.9	19.5
Mitchell	14.6	15.4	18.5	6.6	8.0	12.8
Montgomery	40.3	40.8	38.6	31.7	31.7	36.6
Morris	15.7	23.7	24.3	17.9	27.0	21.6
Morton	45.3	38.6	27.0	52.8	27.6	38.4
Nemaha	16.0	8.3	5.8	5.7	8.7	9.0
Neosho	31.0	40.0	35.4	25.4	30.8	32.5
Ness	26.7	31.3	32.9	11.9	23.5	25.0
Norton	10.3	21.8	14.9	13.6	6.8	13.4
Osage	24.6	22.7	26.8	21.0	16.8	22.4
Osborne	19.5	34.3	31.4	17.9	21.6	24.8
Ottawa	23.6	16.3	14.1	12.3	20.1	17.3
Pawnee	17.2	30.1	24.3	23.7	17.8	22.6
Phillips	14.1	9.1	22.9	6.4	8.2	12.0
Pottawatomie	15.2	17.5	22.2	17.7	9.9	16.3
Pratt	27.8	36.7	41.3	32.2	15.2	30.3
Rawlins	11.9	12.4	6.9	20.7	15.5	13.4
Reno	26.7	29.7	30.7	31.9	22.5	28.2
Republic	38.6	24.3	34.6	15.3	19.4	26.5
Rice	20.9	14.1	18.3	18.1	19.9	18.3
Riley	22.3	18.2	19.3	20.0	17.0	19.4
Rooks	15.3	29.8	23.6	20.1	15.0	20.5
Rush	26.6	10.9	23.3	12.3	37.0	21.9
Russell	18.1	16.1	40.6	40.7	28.6	28.5
Saline	37.4	34.0	40.8	33.1	32.8	35.6
Scott	19.4	42.9	15.0	25.5	16.2	23.7
Sedgwick	33.1	33.9	34.1	35.3	28.4	32.9
Seward	49.5	51.9	59.3	53.0	40.4	50.8
Shawnee	32.3	36.1	30.7	32.8	28.3	32.0
Sheridan	0.0	33.6	21.9	21.7	0.0	15.0
Sherman	24.7	34.5	32.8	17.9	41.1	30.1
Smith	15.9	13.2	28.2	14.2	9.3	16.1
Stafford	27.0	29.3	25.5	17.9	31.8	26.4
Stanton	17.3	76.9	85.5	38.7	29.2	48.3
Stevens	19.7	36.8	36.6	31.2	26.1	29.8
Sumner	22.0	16.9	29.3	20.1	26.4	22.9
Thomas	21.9	14.0	26.5	24.7	12.3	19.9
Trego	18.4	18.2	20.0	24.2	10.6	18.0
Wabaunsee	11.8	16.9	20.2	23.5	8.8	16.1
Wallace	9.2	0.0	10.6	0.0	9.5	5.9
Washington	2.7	16.7	14.3	15.0	2.9	10.3
Wichita	44.9	35.7	12.7	34.2	29.2	31.4
Wilson	43.6	39.0	33.5	35.7	35.3	37.5
Woodson	43.7	46.5	32.3	31.1	52.3	41.5
Wyandotte	54.0	51.4	54.5	52.9	44.8	51.5
Kansas	27.1	27.8	28.6	26.8	23.1	26.6

*Pregnancies include the sum of live births, stillbirths and abortions.

†Rate per 1,000 female age-group population.

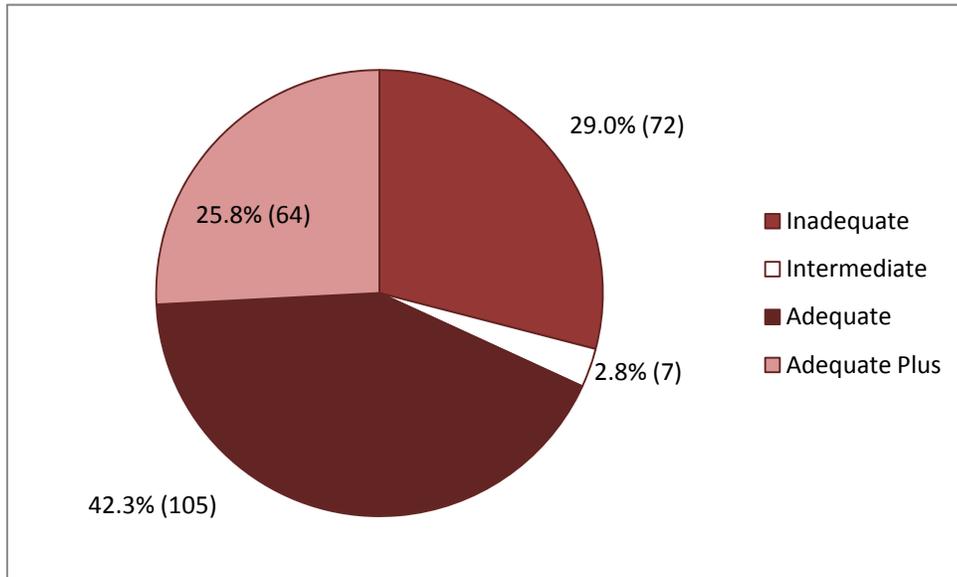
2006-2009 female age-group population estimates were compiled by the U.S. Census Bureau as of 7/1 of each year.

2010 population taken from US Census counts as of 4/1/2010.

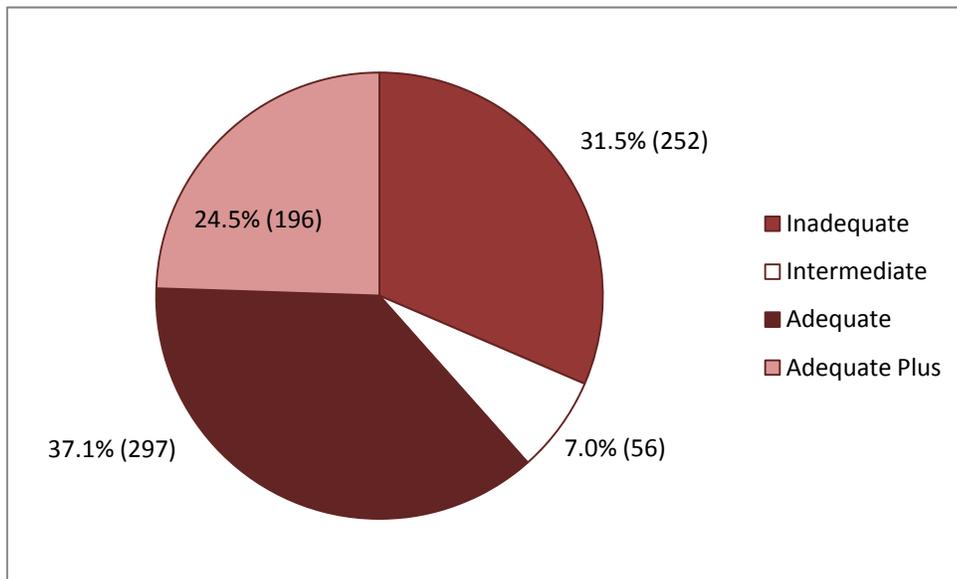
Source: Bureau of Epidemiology and Public Health Informatics
Kansas Department of Health and Environment

**Figure 3. Adequacy of Prenatal Care for Selected Payors
Live Births to Females Aged 10-17 Years, Kansas, 2010**

**a. Private Insurance or TRICARE
(N=258, 10 N.S.)**



**b. Other Payor (Medicaid, other Government)
(N=860, 59 N.S.)**



Note: Of 1,142 live births to Kansas mothers aged 10-17, 24 were excluded because payor was unknown; of the 1,118 remaining, 69 had insufficient data to calculate the Adequacy of Prenatal Care Index.

Table 6
Pregnancies, Females Aged 15-17 Years, by Number and Rate*
For Selected Population Groups
Kansas, 1991-2010

Year	Number of Pregnancies			Pregnancy Rate			Birth Rate		
	White	Black	Hispanic	White	Black	Hispanic	White	Black	Hispanic
	Non-Hispanic	Non-Hispanic		Non-Hispanic	Non-Hispanic		Non-Hispanic	Non-Hispanic	
1991	1,349	318	195	32.3	96.0	80.3	23.1	83.6	60.5
1992	1,410	387	269	32.5	110.5	100.3	22.7	97.7	61.9
1993	1,493	393	263	33.6	109.3	90.9	23.1	95.7	61.9
1994	1,568	373	312	34.1	98.7	100.3	23.4	86.0	64.9
1995	n/a†	n/a†	n/a†	n/a†	n/a†	n/a†	22.8	81.2	68.3
1996	1,570	345	303	32.1	84.9	80.2	21.1	68.9	71.4
1997	1,511	377	303	30.0	90.5	74.3	20.7	70.1	67.4
1998	1,399	295	306	27.6	71.0	69.9	18.8	56.1	61.0
1999	1,264	309	336	25.1	74.3	73.9	17.7	58.9	68.0
2000	1,138	271	361	23.0	64.6	75.0	16.3	50.5	66.1
2001	1,160	246	350	23.6	58.2	70.3	16.4	45.6	65.5
2002	1,043	239	346	21.7	54.7	67.9	14.8	42.3	64.2
2003	913	256	342	19.3	58.5	65.9	13.7	41.6	60.5
2004	868	227	338	18.7	52.2	64.5	14.1	40.5	58.8
2005	806	234	360	17.5	52.2	65.7	12.7	38.8	58.2
2006	832	216	378	17.8	46.6	63.0	12.9	33.2	56.6
2007	820	189	475	17.9	39.6	76.2	13.5	32.4	69.8
2008	815	224	443	18.4	47.6	69.8	14.1	37.2	64.7
2009	757	160	416	17.5	34.2	64.3	13.5	26.5	60.4
2010	644	175	394	15.3	45.1	50.1	12.6	35.6	47.7

Pregnancies include the sum of live births, stillbirths and abortions.

* Rate per 1,000 female age-group population; 2010 rates use actual 2010 Census populations.

† Six months of abortion data from 1995 lack race and ethnicity information, making it impossible to determine number of pregnancies and pregnancy rates by population group.

**Figure 4. Three Year Rolling Average
Pregnancy Rates for Selected Population Groups
Females Aged 15-17 Years, Kansas, 1996-2010**

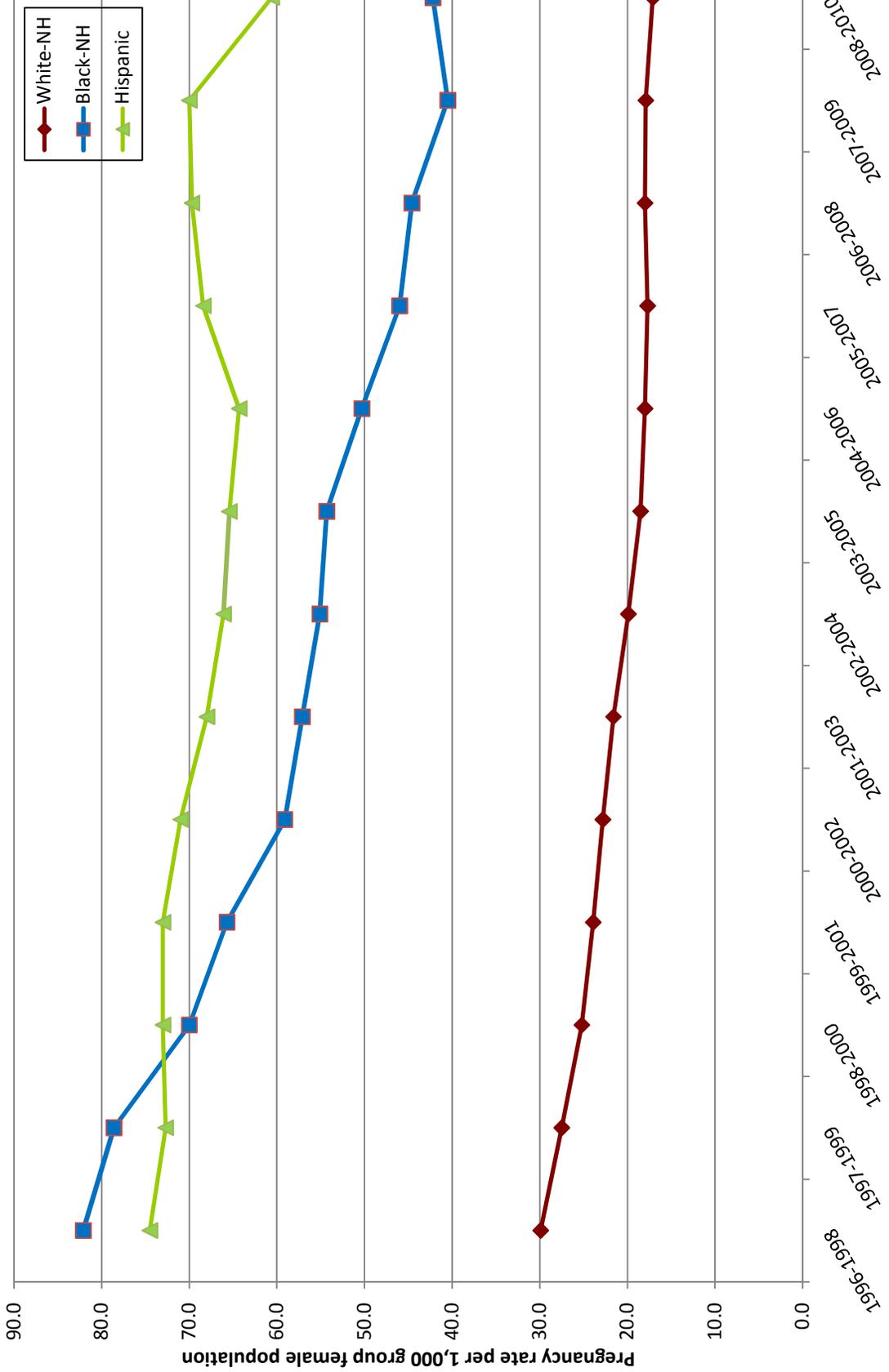


Table 7
Pregnancies, Females Aged 18-19 Years, by Number and Rate*
For Selected Population Groups
Kansas, 1991-2010

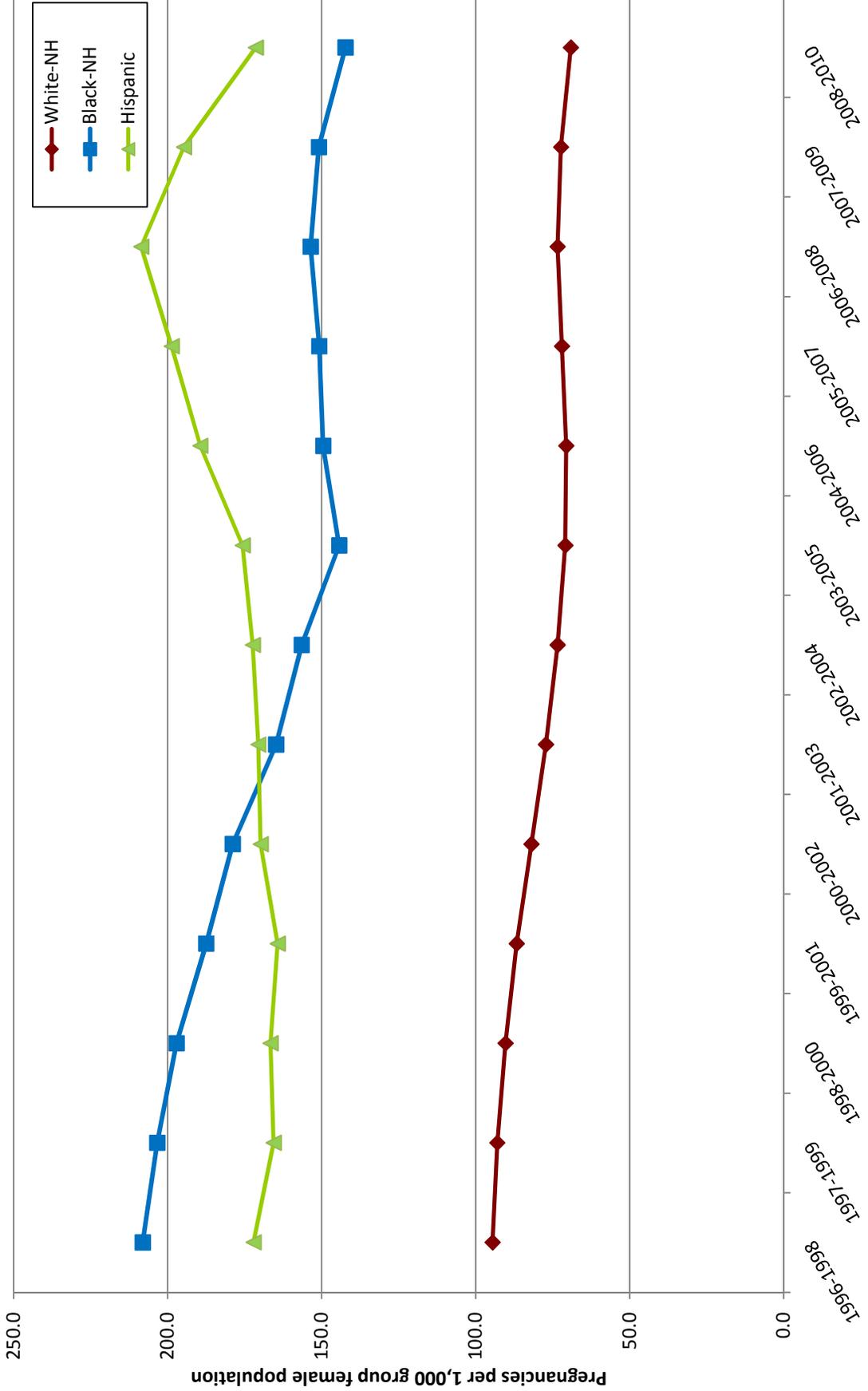
Year	Number of Pregnancies			Pregnancy Rate			Birth Rate		
	White	Black	Hispanic	White	Black	Hispanic	White	Black	Hispanic
	Non-Hispanic	Non-Hispanic	Non-Hispanic	Non-Hispanic	Non-Hispanic	Non-Hispanic	Non-Hispanic	Non-Hispanic	Non-Hispanic
1991	2,780	547	314	99.9	237.5	180.3	81.8	205.0	142.4
1992	2,926	534	403	107.0	231.9	225.3	84.5	205.8	134.2
1993	3,000	496	426	106.1	215.7	218.9	82.4	186.6	140.8
1994	3,003	479	499	103.5	204.6	230.7	78.7	174.7	144.2
1995	n/a†	n/a†	n/a†	n/a†	n/a†	n/a†	76.8	167.5	126.7
1996	2,986	546	442	97.1	215.0	172.4	72.4	163.8	144.3
1997	2,972	536	460	94.7	206.3	168.9	70.9	161.7	139.5
1998	3,020	572	532	92.0	203.6	174.7	70.2	156.9	146.8
1999	3,098	569	543	92.3	200.7	160.7	72.2	156.6	144.5
2000	2,896	529	599	86.7	187.1	171.0	68.9	143.2	145.3
2001	2,711	473	557	81.2	174.2	166.9	63.9	130.7	147.7
2002	2,609	483	581	77.8	175.3	171.5	61.1	128.4	152.3
2003	2,407	408	609	72.5	145.4	173.2	58.4	112.2	156.7
2004	2,308	419	612	69.8	149.3	172.4	55.4	116.9	153.3
2005	2,282	389	647	70.4	138.2	181.3	57.7	110.1	162.3
2006	2,234	457	748	71.8	160.8	215.1	58.0	127.7	188.4
2007	2,293	453	711	73.7	153.1	199.9	60.6	116.6	178.6
2008	2,330	457	767	74.6	147.6	210.8	61.8	117.2	189.1
2009	2,170	467	744	68.6	152.0	176.5	58.9	126.0	158.9
2010	1,895	357	720	63.9	125.8	139.6	56.0	103.3	126.4

Pregnancies include the sum of live births, stillbirths and abortions.

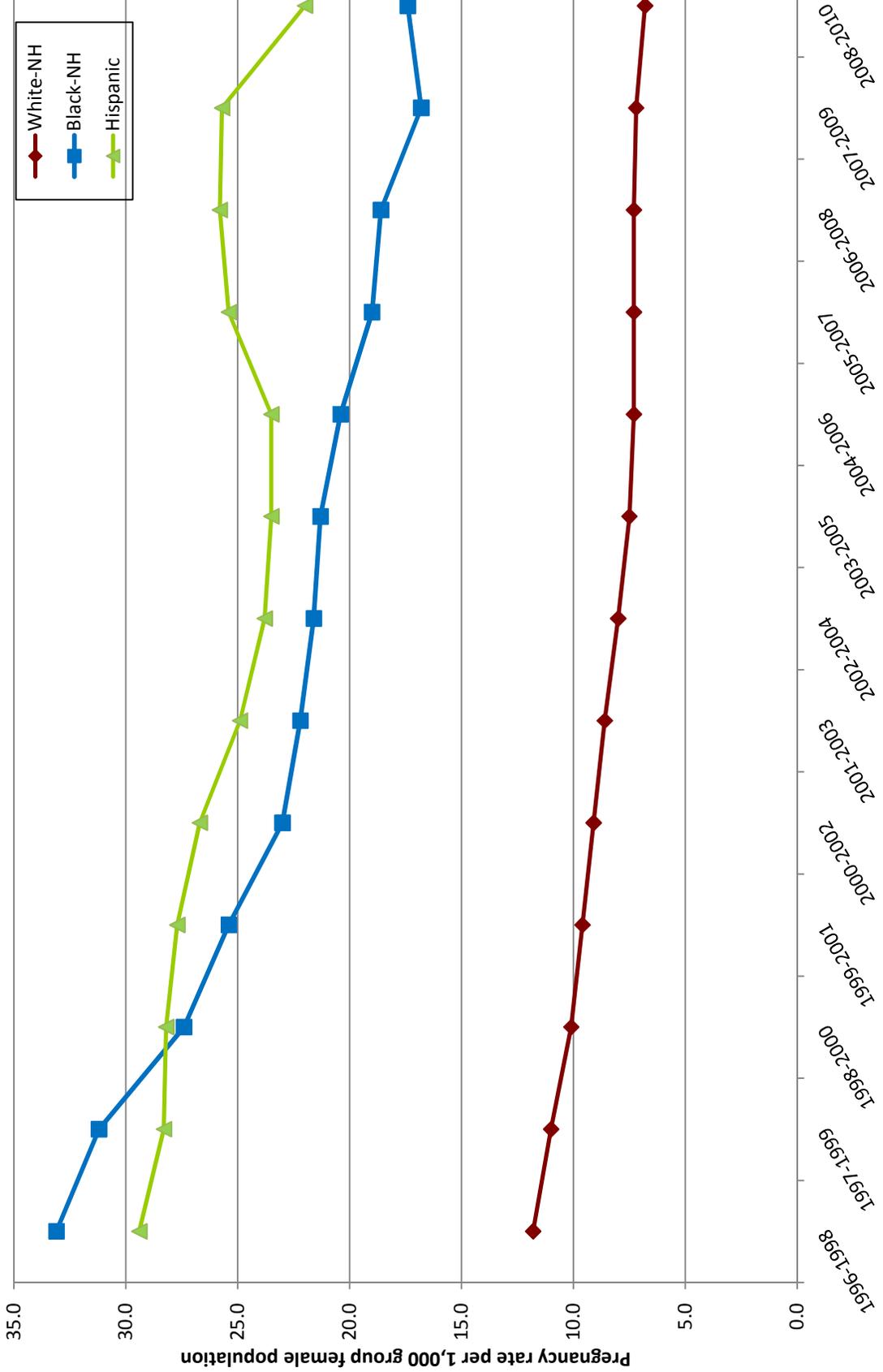
* Rate per 1,000 female age-group population; 2010 rates use actual 2010 Census populations.

† Six months of abortion data from 1995 lack race and ethnicity information, making it impossible to determine number of pregnancies and pregnancy rates by population group.

**Figure 5. Three Year Rolling Average
Pregnancy Rates for Selected Population Groups
Females Aged 18-19 Years, Kansas, 1996-2010**



**Figure 6. Three Year Rolling Average
Pregnancy Rates for Selected Population Groups
Females Aged 10-17 Years, Kansas, 1996-2010**



**Table 8. Pregnancies*, Females Aged 10-17 Years
By County of Residence and Peer Group, by Component, Kansas, 2010**

County of Residence	Live Births	Stillbirths	Abortions	Total Pregnancies	Pregnancy Rate†	Birth Rate†
Allen	7	0	1	8	11.9	10.4
Anderson	1	0	0	1	2.3	2.3
Atchison	6	0	0	6	6.4	6.4
Barber	3	0	0	3	12.1	12.1
Barton	11	1	1	13	8.8	7.4
Bourbon	10	0	0	10	12.1	12.1
Brown	5	0	1	6	11.3	9.5
Butler	20	0	7	27	6.5	4.8
Chase	1	0	0	1	7.1	7.1
Chautauqua	0	0	0	0	0.0	0.0
Cherokee	10	0	0	10	8.3	8.3
Cheyenne	0	0	0	0	0.0	0.0
Clark	1	0	0	1	7.9	7.9
Clay	5	0	3	8	18.4	11.5
Cloud	7	0	1	8	17.3	15.2
Coffey	2	0	0	2	4.0	4.0
Comanche	0	0	0	0	0.0	0.0
Cowley	24	0	0	24	12.2	12.2
Crawford	8	0	2	10	5.4	4.3
Decatur	0	0	0	0	0.0	0.0
Dickinson	4	0	3	7	6.5	3.7
Doniphan	3	0	0	3	7.4	7.4
Douglas	17	0	6	23	5.2	3.8
Edwards	2	0	0	2	11.1	11.1
Elk	0	0	1	1	7.3	0.0
Ellis	9	0	0	9	7.7	7.7
Ellsworth	0	0	0	0	0.0	0.0
Finney	38	0	2	40	15.9	15.1
Ford	24	1	1	26	12.7	11.7
Franklin	8	0	2	10	7.1	5.7
Geary	18	1	4	23	13.0	10.2
Gove	0	0	0	0	0.0	0.0
Graham	0	0	0	0	0.0	0.0
Grant	9	0	0	9	18.6	18.6
Gray	0	0	0	0	0.0	0.0
Greeley	0	0	0	0	0.0	0.0
Greenwood	3	0	0	3	8.9	8.9
Hamilton	2	0	0	2	14.5	14.5
Harper	3	0	1	4	12.5	9.4
Harvey	12	0	1	13	6.6	6.1
Haskell	2	0	0	2	6.3	6.3
Hodgeman	0	0	0	0	0.0	0.0
Jackson	2	0	0	2	2.6	2.6
Jefferson	2	0	1	3	2.7	1.8
Jewell	0	0	0	0	0.0	0.0
Johnson	68	0	41	109	3.5	2.2
Kearny	3	0	0	3	12.1	12.1
Kingman	2	0	0	2	4.1	4.1
Kiowa	0	0	0	0	0.0	0.0
Labette	15	0	1	16	14.5	13.6
Lane	0	0	0	0	0.0	0.0
Leavenworth	20	0	9	29	7.1	4.9
Lincoln	0	0	1	1	6.0	0.0
Linn	5	0	0	5	9.9	9.9
Logan	1	0	0	1	7.2	7.2

**Table 8. Pregnancies*, Females Aged 10-17 Years
By County of Residence and Peer Group, by Component, Kansas, 2010**

County of Residence	Live Births	Stillbirths	Abortions	Total Pregnancies	Pregnancy Rate†	Birth Rate†
Lyon	15	0	6	21	12.8	9.1
Mcperson	3	0	0	3	2.0	2.0
Marion	1	0	1	2	3.1	1.6
Marshall	2	0	0	2	3.9	3.9
Meade	2	0	0	2	6.1	6.1
Miami	7	0	4	11	5.4	3.4
Mitchell	0	0	0	0	0.0	0.0
Montgomery	16	0	3	19	11.3	9.5
Morris	1	0	1	2	7.3	3.6
Morton	2	0	0	2	9.5	9.5
Nemaha	0	0	0	0	0.0	0.0
Neosho	7	0	1	8	9.0	7.8
Ness	0	0	0	0	0.0	0.0
Norton	0	0	0	0	0.0	0.0
Osage	3	0	0	3	3.1	3.1
Osborne	1	0	0	1	4.9	4.9
Ottawa	2	0	0	2	5.6	5.6
Pawnee	1	0	1	2	5.9	2.9
Phillips	0	0	0	0	0.0	0.0
Pottawatomie	5	0	0	5	3.7	3.7
Pratt	4	0	0	4	8.3	8.3
Rawlins	0	0	0	0	0.0	0.0
Reno	26	0	3	29	8.8	7.9
Republic	2	1	0	3	13.2	8.8
Rice	4	0	1	5	9.7	7.8
Riley	9	0	6	15	6.7	4.0
Rooks	1	0	0	1	3.7	3.7
Rush	1	0	1	2	15.2	7.6
Russell	5	0	0	5	14.7	14.7
Saline	27	1	5	33	11.3	9.3
Scott	3	0	0	3	11.3	11.3
Sedgwick	290	0	32	322	11.3	10.2
Seward	26	0	0	26	18.7	18.7
Shawnee	85	1	14	100	10.7	9.1
Sheridan	0	0	0	0	0.0	0.0
Sherman	4	0	0	4	14.4	14.4
Smith	2	0	0	2	11.1	11.1
Stafford	5	0	0	5	20.8	20.8
Stanton	3	0	0	3	21.1	21.1
Stevens	3	0	0	3	8.4	8.4
Sumner	14	0	3	17	12.0	9.8
Thomas	0	0	0	0	0.0	0.0
Trego	0	0	0	0	0.0	0.0
Wabaunsee	0	1	2	3	7.8	0.0
Wallace	0	0	0	0	0.0	0.0
Washington	0	0	0	0	0.0	0.0
Wichita	2	0	0	2	16.1	16.1
Wilson	6	0	1	7	13.6	11.6
Woodson	1	0	1	2	14.0	7.0
Wyandotte	158	2	27	187	20.9	17.6
Unknown	0	0	3	3	n/a	n/a
Kansas	1,142	9	206	1,357	8.8	7.4
Peer Group						
Frontier	39	0	3	42	7.1	6.6
Rural	79	2	14	95	6.8	6.0
Densely-Settled Rural	235	2	20	257	10.2	9.0
Semi-Urban	151	2	37	190	8.2	6.5
Urban	638	3	129	770	8.9	7.4

n/a = Not applicable

*Pregnancies include the sum of live births, stillbirths and abortions.

†Rate per 1,000 female age-group population.

2010 female age-group populations were actual US Census 2000 counts as of 4/1/2010.

**Table 9. Pregnancies*, Females Aged 10-17 Years
By County of Residence, Kansas, 2006-2010**

County of Residence	2006	2007	2008	2009	2010	Teenage Pregnancies 2006-2010
Allen	7	8	9	7	8	39
Anderson	1	8	4	5	1	19
Atchison	9	11	8	7	6	41
Barber	2	1	2	3	3	11
Barton	23	13	16	18	13	83
Bourbon	15	10	6	9	10	50
Brown	4	1	8	4	6	23
Butler	25	35	39	28	27	154
Chase	4	1	1	0	1	7
Chautauqua	3	0	3	1	0	7
Cherokee	12	8	13	14	10	57
Cheyenne	0	2	0	0	0	2
Clark	0	0	0	0	1	1
Clay	2	2	2	3	8	17
Cloud	8	2	3	4	8	25
Coffey	2	4	2	3	2	13
Comanche	0	0	0	0	0	0
Cowley	23	19	27	28	24	121
Crawford	15	21	27	15	10	88
Decatur	1	1	0	0	0	2
Dickinson	10	9	6	11	7	43
Doniphan	3	2	3	3	3	14
Douglas	30	26	25	20	23	124
Edwards	2	3	1	1	2	9
Elk	0	1	3	1	1	6
Ellis	10	12	14	10	9	55
Ellsworth	1	1	2	0	0	4
Finney	55	49	64	44	40	252
Ford	36	40	37	31	26	170
Franklin	21	14	16	9	10	70
Geary	20	23	21	21	23	108
Gove	0	0	0	1	0	1
Graham	1	0	0	0	0	1
Grant	5	11	8	10	9	43
Gray	5	1	6	1	0	13
Greeley	0	0	0	1	0	1
Greenwood	3	6	5	1	3	18
Hamilton	5	3	4	5	2	19
Harper	2	3	6	2	4	17
Harvey	16	15	13	16	13	73
Haskell	3	1	0	4	2	10
Hodgeman	2	1	1	1	0	5
Jackson	2	4	7	7	2	22
Jefferson	10	13	7	5	3	38
Jewell	1	1	0	0	0	2
Johnson	143	170	167	135	109	724
Kearny	4	5	5	3	3	20
Kingman	3	2	3	4	2	14
Kiowa	1	0	2	1	0	4
Labette	25	18	13	15	16	87
Lane	0	0	1	1	0	2
Leavenworth	42	31	32	28	29	162
Lincoln	1	2	2	2	1	8
Linn	6	5	2	3	5	21
Logan	1	0	0	2	1	4

**Table 9. Pregnancies*, Females Aged 10-17 Years
By County of Residence, Kansas, 2006-2010**

County of Residence	2006	2007	2008	2009	2010	Teenage Pregnancies 2006-2010
Lyon	20	20	26	15	21	102
Mcperson	12	8	11	10	3	44
Marion	2	1	5	1	2	11
Marshall	2	2	7	0	2	13
Meade	1	3	2	5	2	13
Miami	8	14	11	18	11	62
Mitchell	2	0	2	0	0	4
Montgomery	31	28	20	15	19	113
Morris	1	3	1	3	2	10
Morton	4	5	3	7	2	21
Nemaha	2	2	0	1	0	5
Neosho	9	11	8	7	8	43
Ness	2	2	2	0	0	6
Norton	1	0	2	1	0	4
Osage	6	10	9	5	3	33
Osborne	3	3	1	0	1	8
Ottawa	1	0	1	0	2	4
Pawnee	2	1	2	4	2	11
Phillips	2	0	3	1	0	6
Pottawatomie	7	6	8	9	5	35
Pratt	6	9	7	4	4	30
Rawlins	0	1	0	1	0	2
Reno	27	27	26	33	29	142
Republic	0	3	1	1	3	8
Rice	6	3	4	9	5	27
Riley	18	14	19	23	15	89
Rooks	1	2	3	1	1	8
Rush	0	0	0	0	2	2
Russell	3	3	6	4	5	21
Saline	41	36	45	34	33	189
Scott	3	5	1	1	3	13
Sedgwick	349	376	330	370	322	1,747
Seward	36	36	34	29	26	161
Shawnee	114	140	112	89	100	555
Sheridan	0	1	2	0	0	3
Sherman	3	1	5	0	4	13
Smith	0	1	2	1	2	6
Stafford	2	4	2	1	5	14
Stanton	1	6	3	1	3	14
Stevens	2	6	2	5	3	18
Sumner	20	5	10	9	17	61
Thomas	4	3	3	9	0	19
Trego	0	1	0	1	0	2
Wabaunsee	1	3	0	3	3	10
Wallace	0	0	0	0	0	0
Washington	1	2	1	1	0	5
Wichita	3	0	2	2	2	9
Wilson	10	7	8	4	7	36
Woodson	2	3	2	0	2	9
Wyandotte	196	206	217	187	187	993
Unknown	0	1	1	0	3	5
Kansas	1,592	1,643	1,618	1,473	1,357	7,683

*Pregnancies include the sum of live births, stillbirths and abortions.

Source: Bureau of Epidemiology and Public Health Informatics
Kansas Department of Health and Environment

**Table 10. Pregnancy* Rates†, Females Aged 10-17 Years
By County of Residence, Kansas, 2006-2010**

County of Residence	2006	2007	2008	2009	2010	5-year Rate
Allen	10.6	12.6	14.4	10.9	11.9	12.1
Anderson	2.2	18.3	9.6	11.3	2.3	8.7
Atchison	9.3	11.4	8.6	7.3	6.4	8.6
Barber	6.8	3.8	8.5	12.4	12.1	8.6
Barton	15.0	8.8	11.1	12.4	8.8	11.3
Bourbon	18.2	12.5	7.6	11.4	12.1	12.4
Brown	7.0	1.8	15.0	7.4	11.3	8.4
Butler	6.6	9.5	10.8	7.2	6.5	8.1
Chase	26.5	8.8	9.3	0.0	7.1	11.0
Chautauqua	13.7	0.0	15.7	5.4	0.0	7.1
Cherokee	9.7	6.7	10.8	11.7	8.3	9.4
Cheyenne	0.0	16.5	0.0	0.0	0.0	3.2
Clark	0.0	0.0	0.0	0.0	7.9	1.7
Clay	4.4	4.6	4.8	6.6	18.4	7.7
Cloud	16.8	4.5	6.8	9.0	17.3	11.0
Coffey	4.2	8.9	4.6	6.3	4.0	5.6
Comanche	0.0	0.0	0.0	0.0	0.0	0.0
Cowley	11.3	9.8	14.3	14.5	12.2	12.4
Crawford	8.7	12.0	15.4	8.6	5.4	10.0
Decatur	6.0	6.9	0.0	0.0	0.0	2.9
Dickinson	9.5	9.0	6.2	10.5	6.5	8.3
Doniphan	7.0	4.5	7.0	7.2	7.4	6.6
Douglas	6.3	5.5	5.4	4.6	5.2	5.4
Edwards	12.3	20.0	6.8	5.9	11.1	11.1
Elk	0.0	7.0	22.6	7.4	7.3	8.5
Ellis	8.9	11.0	13.1	9.7	7.7	10.0
Ellsworth	3.4	3.6	7.9	0.0	0.0	2.9
Finney	19.2	17.8	21.4	16.3	15.9	18.3
Ford	17.1	19.5	18.1	15.8	12.7	16.7
Franklin	14.2	9.8	11.5	6.4	7.1	9.8
Geary	14.4	16.9	11.8	15.7	13.0	14.2
Gove	0.0	0.0	0.0	6.5	0.0	1.3
Graham	7.5	0.0	0.0	0.0	0.0	1.6
Grant	10.1	23.3	17.4	21.6	18.6	18.1
Gray	13.9	2.9	17.0	2.6	0.0	6.9
Greeley	0.0	0.0	0.0	13.3	0.0	2.6
Greenwood	8.8	18.3	15.2	3.0	8.9	10.8
Hamilton	29.2	18.9	29.2	37.0	14.5	25.7
Harper	6.2	9.9	21.3	6.5	12.5	11.1
Harvey	8.7	8.3	7.3	8.3	6.6	7.8
Haskell	11.0	4.0	0.0	14.8	6.3	7.5
Hodgeman	16.0	8.2	8.3	8.8	0.0	8.4
Jackson	2.5	5.2	9.4	8.5	2.6	5.7
Jefferson	9.5	12.9	7.1	5.0	2.7	7.4
Jewell	5.7	6.5	0.0	0.0	0.0	2.7
Johnson	4.9	5.8	5.7	4.6	3.5	4.9
Kearny	13.9	20.5	19.8	11.5	12.1	15.5
Kingman	6.3	4.6	7.4	8.8	4.1	6.2
Kiowa	7.1	0.0	17.7	8.6	0.0	6.3
Labette	20.2	15.3	11.3	12.6	14.5	14.9
Lane	0.0	0.0	11.0	10.6	0.0	4.1
Leavenworth	9.7	7.3	7.7	6.7	7.1	7.7
Lincoln	5.9	13.3	13.0	11.6	6.0	9.8
Linn	11.9	10.3	4.2	6.0	9.9	8.5
Logan	6.8	0.0	0.0	15.0	7.2	5.9

**Table 10. Pregnancy* Rates†, Females Aged 10-17 Years
By County of Residence, Kansas, 2006-2010**

County of Residence	2006	2007	2008	2009	2010	5-year Rate
Lyon	11.0	11.2	15.0	9.5	12.8	11.9
Mcperson	8.0	5.6	7.9	6.8	2.0	6.0
Marion	2.9	1.5	7.9	1.6	3.1	3.4
Marshall	3.6	4.2	15.9	0.0	3.9	5.2
Meade	3.6	10.5	7.2	16.8	6.1	8.9
Miami	4.5	7.9	6.4	9.7	5.4	6.8
Mitchell	5.3	0.0	5.9	0.0	0.0	2.3
Montgomery	17.3	16.3	11.8	8.9	11.3	13.2
Morris	3.1	9.6	3.4	9.3	7.3	6.5
Morton	20.3	26.5	16.1	34.7	9.5	21.3
Nemaha	3.2	3.4	0.0	1.7	0.0	1.7
Neosho	10.6	13.2	9.8	8.5	9.0	10.2
Ness	15.6	15.4	16.3	0.0	0.0	9.0
Norton	3.9	0.0	8.8	4.0	0.0	3.3
Osage	5.9	10.2	9.5	4.9	3.1	6.7
Osborne	13.7	15.3	5.5	0.0	4.9	8.1
Ottawa	3.1	0.0	3.4	0.0	5.6	2.5
Pawnee	6.3	3.3	6.7	12.7	5.9	7.0
Phillips	7.0	0.0	12.7	3.8	0.0	4.4
Pottawatomie	5.8	5.1	7.0	7.5	3.7	5.7
Pratt	12.6	19.4	15.8	8.4	8.3	12.8
Rawlins	0.0	7.1	0.0	8.7	0.0	3.2
Reno	8.7	8.8	8.5	10.6	8.8	9.1
Republic	0.0	15.6	5.4	4.8	13.2	7.7
Rice	11.5	6.1	8.4	17.5	9.7	10.7
Riley	8.2	5.7	7.6	10.3	6.7	7.6
Rooks	3.6	7.6	11.6	3.9	3.7	6.0
Rush	0.0	0.0	0.0	0.0	15.2	2.8
Russell	9.2	9.7	20.9	13.4	14.7	13.4
Saline	14.0	12.6	16.1	12.2	11.3	13.2
Scott	11.5	21.3	4.4	3.8	11.3	10.4
Sedgwick	12.5	13.5	11.9	13.7	11.3	12.6
Seward	24.5	25.0	24.1	21.3	18.7	22.8
Shawnee	12.6	15.6	12.6	10.2	10.7	12.3
Sheridan	0.0	8.5	18.0	0.0	0.0	5.0
Sherman	10.3	3.9	19.5	0.0	14.4	9.8
Smith	0.0	5.3	11.6	6.0	11.1	6.5
Stafford	7.4	15.9	8.8	4.7	20.8	11.6
Stanton	6.3	44.1	23.8	7.9	21.1	20.3
Stevens	6.1	19.8	6.8	16.1	8.4	11.3
Sumner	13.0	3.5	7.1	6.2	12.0	8.4
Thomas	9.3	7.0	7.1	21.5	0.0	8.9
Trego	0.0	6.8	0.0	7.1	0.0	2.8
Wabaunsee	2.9	8.5	0.0	8.4	7.8	5.6
Wallace	0.0	0.0	0.0	0.0	0.0	0.0
Washington	3.3	7.1	3.6	3.6	0.0	3.5
Wichita	21.1	0.0	14.2	16.5	16.1	13.3
Wilson	18.6	13.5	15.9	8.0	13.6	13.9
Woodson	13.3	21.1	16.1	0.0	14.0	13.0
Wyandotte	21.1	22.7	24.6	22.5	20.9	22.3
Kansas	10.4	10.9	10.9	10.0	8.8	10.2

*Pregnancies include the sum of live births, stillbirths and abortions.

†Rate per 1,000 female age-group population.

2006-2009 female age-group population estimates were compiled by the U.S. Census Bureau as of 7/1 of each year.

2010 populations are actual counts from the US 2010 Census, as of 4/1/10.

Source: Bureau of Epidemiology and Public Health Informatics

Kansas Department of Health and Environment

**Table 11. Pregnancies*, Females Aged 15-17 Years
By County of Residence and Peer Group, by Component, Kansas, 2010**

County of Residence	Live Births	Stillbirths	Abortions	Total Pregnancies	Pregnancy Rate†	Birth Rate†
Allen	7	0	1	8	29.2	25.5
Anderson	1	0	0	1	6.3	6.3
Atchison	6	0	0	6	15.9	15.9
Barber	2	0	0	2	18.2	18.2
Barton	11	1	1	13	22.9	19.4
Bourbon	10	0	0	10	31.9	31.9
Brown	4	0	1	5	23.0	18.4
Butler	20	0	7	27	17.3	12.8
Chase	1	0	0	1	18.9	18.9
Chautauqua	0	0	0	0	0.0	0.0
Cherokee	9	0	0	9	21.2	21.2
Cheyenne	0	0	0	0	0.0	0.0
Clark	1	0	0	1	20.0	20.0
Clay	3	0	3	6	33.5	16.8
Cloud	7	0	1	8	42.6	37.2
Coffey	2	0	0	2	11.0	11.0
Comanche	0	0	0	0	0.0	0.0
Cowley	22	0	0	22	30.6	30.6
Crawford	8	0	2	10	14.8	11.9
Decatur	0	0	0	0	0.0	0.0
Dickinson	4	0	3	7	15.6	8.9
Doniphan	3	0	0	3	19.2	19.2
Douglas	17	0	5	22	13.0	10.0
Edwards	1	0	0	1	13.9	13.9
Elk	0	0	1	1	15.9	0.0
Ellis	8	0	0	8	18.3	18.3
Ellsworth	0	0	0	0	0.0	0.0
Finney	37	0	2	39	42.8	40.6
Ford	23	1	1	25	33.6	30.9
Franklin	7	0	2	9	16.8	13.0
Geary	18	1	3	22	35.4	28.9
Gove	0	0	0	0	0.0	0.0
Graham	0	0	0	0	0.0	0.0
Grant	9	0	0	9	54.2	54.2
Gray	0	0	0	0	0.0	0.0
Greeley	0	0	0	0	0.0	0.0
Greenwood	3	0	0	3	26.1	26.1
Hamilton	2	0	0	2	39.2	39.2
Harper	3	0	1	4	32.8	24.6
Harvey	12	0	1	13	17.3	16.0
Haskell	2	0	0	2	16.5	16.5
Hodgeman	0	0	0	0	0.0	0.0
Jackson	2	0	0	2	7.2	7.2
Jefferson	2	0	1	3	6.7	4.5
Jewell	0	0	0	0	0.0	0.0
Johnson	67	0	37	104	9.1	5.9
Keamy	2	0	0	2	22.7	22.7
Kingman	2	0	0	2	10.5	10.5
Kiowa	0	0	0	0	0.0	0.0
Labette	15	0	1	16	36.0	33.8
Lane	0	0	0	0	0.0	0.0
Leavenworth	19	0	6	25	16.2	12.3
Lincoln	0	0	1	1	15.4	0.0
Linn	5	0	0	5	29.2	29.2
Logan	1	0	0	1	18.2	18.2

**Table 11. Pregnancies*, Females Aged 15-17 Years
By County of Residence and Peer Group, by Component, Kansas, 2010**

County of Residence	Live Births	Stillbirths	Abortions	Total Pregnancies	Pregnancy Rate†	Birth Rate†
Lyon	14	0	5	19	29.4	21.6
Mcperson	2	0	0	2	3.7	3.7
Marion	1	0	1	2	8.0	4.0
Marshall	2	0	0	2	10.4	10.4
Meade	2	0	0	2	15.0	15.0
Miami	6	0	4	10	13.6	8.2
Mitchell	0	0	0	0	0.0	0.0
Montgomery	16	0	2	18	26.9	24.0
Morris	1	0	1	2	19.4	9.7
Morton	2	0	0	2	28.2	28.2
Nemaha	0	0	0	0	0.0	0.0
Neosho	7	0	1	8	23.7	20.8
Ness	0	0	0	0	0.0	0.0
Norton	0	0	0	0	0.0	0.0
Osage	3	0	0	3	8.4	8.4
Osborne	1	0	0	1	11.6	11.6
Ottawa	2	0	0	2	14.9	14.9
Pawnee	1	0	1	2	16.9	8.5
Phillips	0	0	0	0	0.0	0.0
Pottawatomie	5	0	0	5	10.3	10.3
Pratt	4	0	0	4	20.8	20.8
Rawlins	0	0	0	0	0.0	0.0
Reno	26	0	3	29	23.5	21.1
Republic	2	1	0	3	32.6	21.7
Rice	4	0	0	4	20.1	20.1
Riley	8	0	5	13	16.4	10.1
Rooks	1	0	0	1	9.7	9.7
Rush	1	0	1	2	36.4	18.2
Russell	5	0	0	5	34.0	34.0
Saline	27	1	5	33	31.0	25.4
Scott	3	0	0	3	30.6	30.6
Sedgwick	286	0	27	313	29.3	26.8
Seward	25	0	0	25	48.8	48.8
Shawnee	81	1	13	95	27.2	23.2
Sheridan	0	0	0	0	0.0	0.0
Sherman	4	0	0	4	43.0	43.0
Smith	2	0	0	2	26.0	26.0
Stafford	5	0	0	5	50.5	50.5
Stanton	3	0	0	3	60.0	60.0
Stevens	3	0	0	3	20.8	20.8
Sumner	14	0	3	17	32.1	26.4
Thomas	0	0	0	0	0.0	0.0
Trego	0	0	0	0	0.0	0.0
Wabaunsee	0	1	2	3	21.9	0.0
Wallace	0	0	0	0	0.0	0.0
Washington	0	0	0	0	0.0	0.0
Wichita	2	0	0	2	42.6	42.6
Wilson	5	0	1	6	29.3	24.4
Woodson	1	0	1	2	45.5	22.7
Wyandotte	151	2	25	178	53.3	45.2
Unknown	0	0	1	1	n/a	n/a
Kansas	1,106	9	183	1,298	22.4	19.1
Peer Group						
Frontier	36	0	3	39	16.8	15.5
Rural	75	2	13	90	17.8	14.8
Densely-Settled Rural	226	2	19	247	25.2	23.1
Semi-Urban	148	2	34	184	21.3	17.1
Urban	621	3	113	737	22.9	19.3

n/a = Not applicable

*Pregnancies include the sum of live births, stillbirths and abortions.

†Rate per 1,000 female age-group population.

2010 female age-group populations are actual counts from the 2010 U.S. Census Bureau as of 4/1/200

**Table 12. Pregnancies*, Females Aged 15-17 Years
By County of Residence, Kansas, 2006-2010**

County of Residence	2006	2007	2008	2009	2010	Teenage Pregnancies 2006-2010
Allen	7	8	9	7	8	39
Anderson	1	8	4	5	1	19
Atchison	9	11	8	7	6	41
Barber	2	1	2	3	2	10
Barton	23	11	15	18	13	80
Bourbon	15	10	6	9	10	50
Brown	3	1	8	4	5	21
Butler	25	35	39	27	27	153
Chase	4	1	1	0	1	7
Chautauqua	3	0	3	1	0	7
Cherokee	12	8	12	14	9	55
Cheyenne	0	2	0	0	0	2
Clark	0	0	0	0	1	1
Clay	2	2	1	3	6	14
Cloud	7	2	3	4	8	24
Coffey	2	4	2	3	2	13
Comanche	0	0	0	0	0	0
Cowley	22	18	26	28	22	116
Crawford	14	19	26	14	10	83
Decatur	1	1	0	0	0	2
Dickinson	10	8	6	11	7	42
Doniphan	3	2	3	3	3	14
Douglas	29	25	24	20	22	120
Edwards	2	2	1	1	1	7
Elk	0	1	3	0	1	5
Ellis	9	12	14	9	8	52
Ellsworth	1	1	2	0	0	4
Finney	50	46	62	41	39	238
Ford	35	36	35	29	25	160
Franklin	20	13	16	9	9	67
Geary	20	20	21	21	22	104
Gove	0	0	0	1	0	1
Graham	1	0	0	0	0	1
Grant	5	11	8	9	9	42
Gray	5	1	6	1	0	13
Greeley	0	0	0	1	0	1
Greenwood	3	6	5	1	3	18
Hamilton	5	3	4	5	2	19
Harper	2	3	6	2	4	17
Harvey	16	14	13	15	13	71
Haskell	2	1	0	4	2	9
Hodgeman	2	1	1	1	0	5
Jackson	2	4	7	7	2	22
Jefferson	10	13	6	5	3	37
Jewell	1	1	0	0	0	2
Johnson	131	166	160	130	104	691
Kearny	4	5	5	3	2	19
Kingman	3	2	3	4	2	14
Kiowa	1	0	2	1	0	4
Labette	22	18	13	15	16	84
Lane	0	0	1	1	0	2
Leavenworth	38	31	31	26	25	151
Lincoln	0	2	2	2	1	7
Linn	5	5	2	3	5	20
Logan	1	0	0	2	1	4

**Table 12. Pregnancies*, Females Aged 15-17 Years
By County of Residence, Kansas, 2006-2010**

County of Residence	2006	2007	2008	2009	2010	Teenage Pregnancies 2006-2010
Lyon	19	18	25	14	19	95
Mcpherson	11	8	10	10	2	41
Marion	2	1	5	1	2	11
Marshall	2	2	6	0	2	12
Meade	1	3	2	5	2	13
Miami	8	14	10	17	10	59
Mitchell	2	0	2	0	0	4
Montgomery	31	27	20	14	18	110
Morris	1	3	1	3	2	10
Morton	3	5	3	6	2	19
Nemaha	2	2	0	1	0	5
Neosho	8	11	8	7	8	42
Ness	1	2	2	0	0	5
Norton	1	0	1	1	0	3
Osage	6	10	8	5	3	32
Osborne	3	3	1	0	1	8
Ottawa	1	0	1	0	2	4
Pawnee	2	1	2	4	2	11
Phillips	2	0	3	1	0	6
Pottawatomie	7	6	7	8	5	33
Pratt	6	9	7	4	4	30
Rawlins	0	0	0	1	0	1
Reno	25	27	26	33	29	140
Republic	0	3	1	1	3	8
Rice	6	3	3	9	4	25
Riley	17	13	19	23	13	85
Rooks	1	2	3	1	1	8
Rush	0	0	0	0	2	2
Russell	3	3	6	4	5	21
Saline	38	34	44	33	33	182
Scott	3	5	1	1	3	13
Sedgwick	334	363	314	351	313	1,675
Seward	33	34	33	29	25	154
Shawnee	111	131	105	86	95	528
Sheridan	0	1	2	0	0	3
Sherman	3	1	5	0	4	13
Smith	0	1	2	1	2	6
Stafford	2	4	2	1	5	14
Stanton	1	6	3	1	3	14
Stevens	1	6	2	4	3	16
Sumner	20	5	10	9	17	61
Thomas	4	3	3	9	0	19
Trego	0	1	0	1	0	2
Wabaunsee	1	3	0	3	3	10
Wallace	0	0	0	0	0	0
Washington	1	2	1	1	0	5
Wichita	3	0	2	2	2	9
Wilson	10	7	7	4	6	34
Woodson	1	3	2	0	2	8
Wyandotte	180	191	204	178	178	931
Unknown	0	1	1	0	1	3
Kansas	1,507	1,573	1,552	1,417	1,298	7,347

*Pregnancies include the sum of live births, stillbirths and abortions.

Source: Bureau of Epidemiology and Public Health Informatics
Kansas Department of Health and Environment

**Table 13. Teenage Pregnancy* Rates†, Females Aged 15-17 Years
By County of Residence, Kansas, 2006-2010**

County of Residence	2006	2007	2008	2009	2010	5-year Rate
Allen	27.1	31.4	37.5	27.2	29.2	30.4
Anderson	5.4	42.8	23.8	29.2	6.3	21.9
Atchison	23.9	28.5	22.4	18.7	15.9	21.9
Barber	15.7	9.7	20.8	31.6	18.2	18.8
Barton	37.3	18.3	26.4	32.1	22.9	27.5
Bourbon	49.2	31.6	18.9	27.5	31.9	31.7
Brown	12.3	4.5	39.6	19.2	23.0	19.2
Butler	16.7	23.4	26.9	17.7	17.3	20.3
Chase	62.5	20.0	23.3	0.0	18.9	27.5
Chautauqua	32.6	0.0	34.1	13.0	0.0	16.3
Cherokee	25.2	16.4	25.5	32.3	21.2	24.0
Cheyenne	0.0	31.3	0.0	0.0	0.0	7.1
Clark	0.0	0.0	0.0	0.0	20.0	4.2
Clay	10.4	10.8	5.5	16.8	33.5	15.3
Cloud	36.8	11.1	16.9	21.9	42.6	26.1
Coffey	11.2	23.4	13.4	16.8	11.0	15.1
Comanche	0.0	0.0	0.0	0.0	0.0	0.0
Cowley	28.4	22.8	33.5	34.3	30.6	29.9
Crawford	21.7	28.9	40.1	22.2	14.8	25.5
Decatur	14.5	14.5	0.0	0.0	0.0	6.9
Dickinson	22.6	19.4	15.6	27.4	15.6	20.1
Doniphan	17.3	11.0	18.4	19.4	19.2	16.9
Douglas	16.1	14.2	13.9	11.9	13.0	13.9
Edwards	34.5	35.1	15.9	13.2	13.9	21.5
Elk	0.0	14.9	54.5	0.0	15.9	15.9
Ellis	19.4	28.4	35.6	22.6	18.3	24.6
Ellsworth	8.1	8.9	19.2	0.0	0.0	7.1
Finney	48.2	43.3	52.7	41.6	42.8	46.0
Ford	44.8	46.2	44.4	40.4	33.6	42.0
Franklin	33.6	21.8	27.7	15.5	16.8	23.2
Geary	40.0	41.6	34.3	39.9	35.4	37.9
Gove	0.0	0.0	0.0	17.5	0.0	3.6
Graham	18.5	0.0	0.0	0.0	0.0	4.0
Grant	25.3	55.6	41.2	49.5	54.2	44.8
Gray	41.7	7.9	47.6	6.7	0.0	19.1
Greeley	0.0	0.0	0.0	33.3	0.0	7.2
Greenwood	20.5	43.8	36.5	8.5	26.1	27.6
Hamilton	60.2	41.1	76.9	86.2	39.2	59.9
Harper	14.6	25.9	56.1	17.9	32.8	28.6
Harvey	21.8	19.6	18.7	19.8	17.3	19.4
Haskell	22.0	11.0	0.0	37.4	16.5	17.9
Hodgeman	35.1	17.9	19.6	26.3	0.0	20.7
Jackson	6.2	12.9	24.0	22.2	7.2	14.5
Jefferson	23.9	31.8	15.2	12.3	6.7	17.8
Jewell	14.7	15.9	0.0	0.0	0.0	6.7
Johnson	11.8	15.1	15.0	12.1	9.1	12.6
Kearny	34.5	48.5	44.2	28.6	22.7	36.2
Kingman	14.7	10.9	18.1	21.1	10.5	15.0
Kiowa	17.2	0.0	38.5	21.7	0.0	15.1
Labette	44.0	35.7	27.9	33.0	36.0	35.5
Lane	0.0	0.0	28.6	25.6	0.0	10.6
Leavenworth	22.6	18.5	19.1	16.7	16.2	18.7
Lincoln	0.0	40.8	33.9	31.7	15.4	24.1
Linn	25.0	23.8	10.3	15.6	29.2	20.7
Logan	15.4	0.0	0.0	35.7	18.2	13.5

**Table 13. Teenage Pregnancy* Rates†, Females Aged 15-17 Years
By County of Residence, Kansas, 2006-2010**

County of Residence	2006	2007	2008	2009	2010	5-year Rate
Lyon	27.7	26.1	37.4	22.1	29.4	28.6
Mcpherson	17.2	13.1	18.7	17.8	10.4	14.2
Marion	6.5	3.6	19.2	4.3	3.7	8.3
Marshall	8.3	9.1	29.7	0.0	8.0	11.1
Meade	11.4	33.3	20.2	52.1	15.0	25.7
Miami	11.5	19.5	15.1	24.8	13.6	16.9
Mitchell	10.4	0.0	11.0	0.0	0.0	4.7
Montgomery	43.2	38.0	29.2	20.4	26.9	31.7
Morris	7.1	21.3	7.6	24.2	19.4	15.6
Morton	46.2	72.5	40.0	80.0	28.2	53.5
Nemaha	8.3	9.3	0.0	4.5	0.0	4.4
Neosho	23.5	32.4	24.4	21.9	23.7	25.2
Ness	18.9	35.1	37.7	0.0	0.0	18.3
Norton	9.8	0.0	11.6	10.2	0.0	6.1
Osage	14.5	24.4	20.6	12.5	8.4	16.3
Osborne	33.3	37.5	13.3	0.0	11.6	19.7
Ottawa	7.5	0.0	8.6	0.0	14.9	6.3
Pawnee	15.5	8.0	16.0	30.3	16.9	17.5
Phillips	16.4	0.0	32.6	9.1	0.0	11.0
Pottawatomie	14.2	12.4	15.0	17.2	10.3	13.8
Pratt	32.6	50.3	38.7	20.1	20.8	32.1
Rawlins	0.0	0.0	0.0	19.6	0.0	3.6
Reno	20.8	22.8	22.5	27.9	23.5	23.5
Republic	0.0	34.5	11.8	12.2	32.6	17.5
Rice	27.1	13.3	14.4	42.3	20.1	23.5
Riley	20.2	13.0	20.0	26.9	16.4	19.1
Rooks	10.6	19.0	30.9	10.3	9.7	16.1
Rush	0.0	0.0	0.0	0.0	36.4	6.7
Russell	22.1	25.0	51.7	35.4	34.0	33.2
Saline	33.6	30.7	43.0	33.5	31.0	34.3
Scott	30.3	51.0	10.4	9.6	30.6	26.3
Sedgwick	31.8	34.0	29.5	34.2	29.3	31.7
Seward	62.3	64.3	65.0	61.7	48.8	60.4
Shawnee	31.8	38.3	31.0	26.3	27.2	31.0
Sheridan	0.0	17.9	43.5	0.0	0.0	12.0
Sherman	22.9	9.0	46.3	0.0	43.0	24.6
Smith	0.0	12.5	29.4	14.3	26.0	15.4
Stafford	16.7	35.1	19.0	12.5	50.5	27.0
Stanton	14.7	95.2	52.6	17.9	60.0	47.6
Stevens	7.5	50.8	16.0	32.0	20.8	24.8
Sumner	32.3	8.5	17.4	16.0	32.1	21.2
Thomas	25.0	19.0	18.5	51.1	0.0	22.7
Trego	0.0	17.5	0.0	15.9	0.0	6.6
Wabaunsee	7.6	21.0	0.0	20.8	21.9	14.2
Wallace	0.0	0.0	0.0	0.0	0.0	0.0
Washington	7.6	17.9	9.9	9.3	0.0	8.8
Wichita	62.5	0.0	32.3	37.0	42.6	34.0
Wilson	45.9	31.7	31.3	19.4	29.3	31.7
Woodson	15.4	51.7	47.6	0.0	45.5	31.4
Wyandotte	51.0	53.2	59.5	56.2	53.3	54.6
Kansas	25.5	26.8	27.1	25.2	22.4	25.4

*Pregnancies include the sum of live births, stillbirths and abortions.

†Rate per 1,000 female age-group population

2006-2009 female age-group population estimates were compiled by the U.S. Census Bureau as of 7/1 of each year.

2010 populations are actual counts from the 2010 US Census as of 4/1/10.

Source: Bureau of Epidemiology and Public Health Informatics
Kansas Department of Health and Environment

**Table 14. Pregnancies* by Component, Pregnancy Rate, and Birth Rate
Females Aged 18-19 Years, By County of Residence and by Peer Group, Kansas, 2010**

County of Residence	Live Births		Stillbirths	Abortions	Total Pregnancies	Pregnancy Rate†
	N	Rate†				
Allen	16	65.8	0	1	17	70.0
Anderson	13	158.5	0	0	13	158.5
Atchison	21	48.5	0	3	24	55.4
Barber	4	95.2	0	1	5	119.0
Barton	34	80.6	0	4	38	90.0
Bourbon	17	74.9	0	0	17	74.9
Brown	11	112.2	0	2	13	132.7
Butler	53	55.6	1	5	59	61.8
Chase	2	105.3	0	0	2	105.3
Chautauqua	0	0.0	0	0	0	0.0
Cherokee	30	116.3	0	0	30	116.3
Cheyenne	0	0.0	0	0	0	0.0
Clark	0	0.0	0	0	0	0.0
Clay	8	100.0	0	0	8	100.0
Cloud	12	66.7	0	1	13	72.2
Coffey	4	46.5	0	1	5	58.1
Comanche	2	222.2	0	0	2	222.2
Cowley	51	80.1	0	1	52	81.6
Crawford	39	43.3	0	3	42	46.7
Decatur	1	76.9	0	0	1	76.9
Dickinson	19	93.6	0	1	20	98.5
Doniphan	4	20.8	0	0	4	20.8
Douglas	53	14.1	0	27	80	21.4
Edwards	3	115.4	0	0	3	115.4
Elk	2	117.6	0	0	2	117.6
Ellis	30	43.5	0	5	35	50.8
Ellsworth	2	54.1	0	1	3	81.1
Finney	77	126.9	1	2	80	131.8
Ford	65	126.7	0	4	69	134.5
Franklin	28	73.5	0	6	34	89.2
Geary	63	114.3	0	10	73	132.5
Gove	0	0.0	0	0	0	0.0
Graham	4	235.3	0	0	4	235.3
Grant	14	141.4	1	0	15	151.5
Gray	2	24.7	0	0	2	24.7
Greeley	0	0.0	0	0	0	0.0
Greenwood	7	118.6	0	1	8	135.6
Hamilton	5	135.1	0	0	5	135.1
Harper	4	81.6	0	0	4	81.6
Harvey	35	71.6	0	2	37	75.7
Haskell	6	109.1	0	0	6	109.1
Hodgeman	1	43.5	0	0	1	43.5
Jackson	17	125.9	0	3	20	148.1
Jefferson	7	36.5	0	0	7	36.5
Jewell	1	71.4	0	0	1	71.4
Johnson	198	38.5	2	92	292	56.7
Kearny	6	117.6	1	0	7	137.3
Kingman	6	89.6	0	0	6	89.6
Kiowa	0	0.0	0	0	0	0.0
Labette	42	134.2	0	4	46	147.0
Lane	0	0.0	0	0	0	0.0
Leavenworth	44	52.3	1	9	54	64.1
Lincoln	2	87.0	0	0	2	87.0
Linn	6	61.2	0	1	7	71.4
Logan	0	0.0	0	0	0	0.0

**Table 14. Pregnancies* by Component, Pregnancy Rate, and Birth Rate
Females Aged 18-19 Years, By County of Residence and by Peer Group, Kansas, 2010**

County of Residence	Live Births		Stillbirths	Abortions	Total Pregnancies	Pregnancy Rate†
	N	Rate‡				
Lyon	43	54.3	0	7	50	63.1
Mcperson	20	53.3	0	0	20	53.3
Marion	10	58.8	0	2	12	70.6
Marshall	6	64.5	0	0	6	64.5
Meade	3	78.9	0	0	3	78.9
Miami	24	66.1	0	3	27	74.4
Mitchell	3	51.7	0	0	3	51.7
Montgomery	48	81.4	0	5	53	89.8
Morris	7	118.6	0	0	7	118.6
Morton	5	116.3	0	0	5	116.3
Nemaha	5	67.6	0	1	6	81.1
Neosho	25	103.3	0	2	27	111.6
Ness	4	190.5	0	0	4	190.5
Norton	2	48.8	0	0	2	48.8
Osage	14	80.5	0	2	16	92.0
Osborne	4	142.9	0	0	4	142.9
Ottawa	5	116.3	0	1	6	139.5
Pawnee	5	90.9	0	0	5	90.9
Phillips	3	81.1	0	0	3	81.1
Pottawatomie	10	38.6	1	0	11	42.5
Pratt	5	28.2	0	1	6	33.9
Rawlins	2	111.1	0	0	2	111.1
Reno	61	66.1	1	4	66	71.5
Republic	2	64.5	0	0	2	64.5
Rice	7	37.0	0	2	9	47.6
Riley	49	17.4	0	22	71	25.2
Rooks	4	63.5	0	0	4	63.5
Rush	3	100.0	0	1	4	133.3
Russell	5	111.1	0	1	6	133.3
Saline	77	108.5	1	8	86	121.1
Scott	2	46.5	0	0	2	46.5
Sedgwick	618	93.1	0	58	676	101.8
Seward	45	115.1	0	1	46	117.6
Shawnee	192	88.0	2	33	227	104.0
Sheridan	0	0.0	0	0	0	0.0
Sherman	10	158.7	0	0	10	158.7
Smith	0	0.0	0	0	0	0.0
Stafford	4	93.0	0	0	4	93.0
Stanton	2	69.0	0	0	2	69.0
Stevens	8	125.0	0	0	8	125.0
Sumner	25	102.9	1	1	27	111.1
Thomas	8	37.0	0	0	8	37.0
Trego	2	87.0	0	0	2	87.0
Wabaunsee	1	13.9	0	0	1	13.9
Wallace	1	55.6	0	0	1	55.6
Washington	1	25.6	0	0	1	25.6
Wichita	2	153.8	0	0	2	153.8
Wilson	14	177.2	0	0	14	177.2
Woodson	6	206.9	0	1	7	241.4
Wyandotte	264	127.9	1	42	307	148.7
Unknown	0	n/a	0	5	5	n/a
Kansas	2,737	67.6	14	393	3,144	77.6
Peer Group					0	
Frontier	86	82.3	1	3	90	86.1
Rural	197	69.9	1	15	213	75.6
Densely-Settled Rural	608	82.7	3	41	652	88.7
Semi-Urban	477	55.0	3	68	548	63.2
Urban	1,369	66.4	6	261	1,636	79.3

n/a = Not applicable

*Pregnancies include the sum of live births, stillbirths and abortions.

†Rate per 1,000 female age-group population.

‡2010 female age-group population are actual counts from the U.S. 2010 Census as of 4/1/2010

Source: Bureau of Epidemiology and Public Health Informatics

Kansas Department of Health and Environment

**Table 15. Pregnancies*, Females Aged 18-19 Years
By County of Residence, Kansas, 2006-2010**

County of Residence	2006	2007	2008	2009	2010	Teenage Pregnancies 2006-2010
Allen	32	19	18	23	17	109
Anderson	13	10	9	8	13	53
Atchison	31	23	20	29	24	127
Barber	5	5	8	8	5	31
Barton	33	54	53	39	38	217
Bourbon	23	40	30	20	17	130
Brown	20	19	19	15	13	86
Butler	70	63	72	68	59	332
Chase	1	3	4	2	2	12
Chautauqua	3	4	7	9	0	23
Cherokee	34	31	38	27	30	160
Cheyenne	5	1	0	1	0	7
Clark	0	3	2	0	0	5
Clay	12	8	9	16	8	53
Cloud	9	18	20	13	13	73
Coffey	10	5	8	7	5	35
Comanche	0	2	1	1	2	6
Cowley	58	58	63	48	52	279
Crawford	56	63	51	71	42	283
Decatur	0	1	0	1	1	3
Dickinson	26	23	18	22	20	109
Doniphan	5	9	9	6	4	33
Douglas	88	119	95	90	80	472
Edwards	4	8	6	2	3	23
Elk	4	6	5	2	2	19
Ellis	28	27	29	25	35	144
Ellsworth	10	4	1	6	3	24
Finney	79	64	91	95	80	409
Ford	69	54	70	90	69	352
Franklin	32	32	41	38	34	177
Geary	73	64	86	80	73	376
Gove	0	1	0	1	0	2
Graham	2	1	2	2	4	11
Grant	13	14	11	20	15	73
Gray	3	9	5	7	2	26
Greeley	0	0	2	3	0	5
Greenwood	5	9	5	3	8	30
Hamilton	5	6	7	4	5	27
Harper	6	8	6	10	4	34
Harvey	31	33	36	40	37	177
Haskell	4	6	8	6	6	30
Hodgeman	1	2	0	1	1	5
Jackson	15	10	16	16	20	77
Jefferson	21	17	17	16	7	78
Jewell	0	2	3	1	1	7
Johnson	367	390	363	314	292	1,726
Kearny	10	4	9	6	7	36
Kingman	7	8	6	8	6	35
Kiowa	2	2	1	2	0	7
Labette	30	52	39	42	46	209
Lane	0	0	1	0	0	1
Leavenworth	65	84	99	74	54	376
Lincoln	5	1	2	1	2	11
Linn	12	9	11	9	7	48
Logan	1	0	0	2	0	3

**Table 15. Pregnancies*, Females Aged 18-19 Years
By County of Residence, Kansas, 2006-2010**

County of Residence	2006	2007	2008	2009	2010	Teenage Pregnancies 2006-2010
Lyon	58	55	51	33	50	247
Mcpherson	30	19	33	19	20	121
Marion	5	11	4	6	12	38
Marshall	9	3	5	8	6	31
Meade	3	3	6	5	3	20
Miami	35	22	25	40	27	149
Mitchell	5	7	6	3	3	24
Montgomery	59	60	62	51	53	285
Morris	5	6	8	4	7	30
Morton	7	4	3	6	5	25
Nemaha	10	4	4	3	6	27
Neosho	25	32	29	20	27	133
Ness	2	3	3	2	4	14
Norton	2	6	2	3	2	15
Osage	23	16	21	21	16	97
Osborne	2	5	6	4	4	21
Ottawa	8	6	4	5	6	29
Pawnee	5	11	7	5	5	33
Phillips	3	3	4	1	3	14
Pottawatomie	15	19	23	17	11	85
Pratt	11	13	17	16	6	63
Rawlins	2	1	1	2	2	8
Reno	77	88	92	88	66	411
Republic	11	3	7	3	2	26
Rice	11	8	10	6	9	44
Riley	89	79	81	79	71	399
Rooks	4	7	4	5	4	24
Rush	5	2	4	2	4	17
Russell	4	3	8	11	6	32
Saline	88	80	92	80	86	426
Scott	3	7	3	7	2	22
Sedgwick	755	756	809	786	676	3,782
Seward	55	58	72	60	46	291
Shawnee	239	255	221	261	227	1,203
Sheridan	0	4	1	3	0	8
Sherman	6	11	6	6	10	39
Smith	4	2	4	2	0	12
Stafford	7	5	5	4	4	25
Stanton	2	6	10	5	2	25
Stevens	6	8	11	7	8	40
Sumner	21	25	40	26	27	139
Thomas	10	6	14	7	8	45
Trego	3	2	3	3	2	13
Wabaunsee	4	4	8	7	1	24
Wallace	1	0	1	0	1	3
Washington	0	4	4	4	1	13
Wichita	4	6	0	3	2	15
Wilson	18	17	12	18	14	79
Woodson	6	5	3	5	7	26
Wyandotte	405	356	372	350	307	1,790
Unknown	0	1	0	1	5	7
Kansas	3,600	3,625	3,753	3,563	3,144	17,685

*Pregnancies include the sum of live births, stillbirths and abortions.

Source: Bureau of Epidemiology and Public Health Informatics
Kansas Department of Health and Environment

**Table 16. Pregnancy* Rates†, Females Aged 18-19 Years
By County of Residence, Kansas, 2006-2010**

County of Residence	2006	2007	2008	2009	2010	5-year Rate
Allen	150.9	92.7	91.8	156.5	70.0	108.7
Anderson	154.8	114.9	98.9	90.9	158.5	122.7
Atchison	103.7	79.9	66.7	90.3	55.4	77.4
Barber	80.6	89.3	153.8	133.3	119.0	114.0
Barton	70.5	114.2	113.7	88.0	90.0	95.5
Bourbon	112.7	192.3	149.3	128.2	74.9	130.5
Brown	175.4	165.2	158.3	109.5	132.7	147.3
Butler	74.2	69.1	79.2	79.9	61.8	72.6
Chase	35.7	93.8	137.9	76.9	105.3	89.6
Chautauqua	65.2	85.1	137.3	187.5	0.0	103.1
Cherokee	114.1	104.4	131.0	110.7	116.3	115.4
Cheyenne	156.3	35.7	0.0	40.0	0.0	51.9
Clark	0.0	136.4	117.6	0.0	0.0	50.5
Clay	148.1	94.1	109.8	153.8	100.0	122.7
Cloud	40.7	77.9	86.6	67.4	72.2	69.1
Coffey	131.6	67.6	103.9	82.4	58.1	87.9
Comanche	0.0	105.3	55.6	100.0	222.2	83.3
Cowley	88.0	87.9	94.7	81.1	81.6	86.8
Crawford	70.4	79.2	64.9	76.3	46.7	67.3
Decatur	0.0	37.0	0.0	33.3	76.9	24.4
Dickinson	116.6	112.2	87.8	97.3	98.5	102.6
Doniphan	28.4	53.9	52.0	34.5	20.8	37.4
Douglas	23.2	31.6	25.0	21.3	21.4	24.4
Edwards	117.6	285.7	176.5	76.9	115.4	155.4
Elk	125.0	214.3	166.7	62.5	117.6	136.7
Ellis	42.3	40.4	43.6	32.2	50.8	41.6
Ellsworth	169.5	69.0	19.2	109.1	81.1	92.0
Finney	141.6	106.3	149.9	156.8	131.8	137.2
Ford	145.9	121.6	166.7	194.4	134.5	152.2
Franklin	97.6	99.1	122.8	105.0	89.2	102.4
Geary	234.7	192.8	235.6	197.0	132.5	191.3
Gove	0.0	40.0	0.0	32.3	0.0	15.5
Graham	83.3	40.0	76.9	83.3	235.3	94.8
Grant	131.3	147.4	139.2	180.2	151.5	151.1
Gray	48.4	166.7	98.0	114.8	24.7	84.1
Greeley	0.0	0.0	250.0	375.0	0.0	90.9
Greenwood	78.1	125.0	79.4	43.5	135.6	91.7
Hamilton	250.0	187.5	175.0	105.3	135.1	161.7
Harper	109.1	148.1	115.4	140.8	81.6	121.0
Harvey	61.5	65.6	72.1	75.0	75.7	70.0
Haskell	76.9	117.6	170.2	111.1	109.1	115.8
Hodgeman	37.0	87.0	0.0	29.4	43.5	38.8
Jackson	114.5	73.0	127.0	101.9	148.1	112.2
Jefferson	110.5	87.6	94.4	80.4	36.5	81.7
Jewell	0.0	62.5	111.1	37.0	71.4	53.0
Johnson	66.6	70.3	64.0	55.3	56.7	62.7
Kearny	178.6	78.4	191.5	87.0	137.3	131.4
Kingman	90.9	87.9	74.1	94.1	89.6	87.3
Kiowa	45.5	40.8	32.3	51.3	0.0	30.8
Labelle	115.4	198.5	148.9	147.9	147.0	151.3
Lane	0.0	0.0	47.6	0.0	0.0	12.5
Leavenworth	77.2	97.7	114.5	82.3	64.1	87.3
Lincoln	185.2	37.0	111.1	38.5	87.0	90.9
Linn	142.9	113.9	150.7	89.1	71.4	110.3
Logan	23.8	0.0	0.0	47.6	0.0	15.5

**Table 16. Pregnancy* Rates†, Females Aged 18-19 Years
By County of Residence, Kansas, 2006-2010**

County of Residence	2006	2007	2008	2009	2010	5-year Rate
Lyon	69.5	66.8	62.9	39.6	63.1	60.3
Mcpherson	64.5	42.8	70.7	37.4	53.3	53.6
Marion	27.8	57.6	20.9	29.7	70.6	40.7
Marshall	83.3	24.8	42.4	70.2	64.5	56.0
Meade	53.6	60.0	133.3	106.4	78.9	84.7
Miami	111.5	71.4	79.6	104.7	74.4	88.6
Mitchell	49.5	67.3	64.5	31.6	51.7	53.2
Montgomery	135.3	138.6	143.5	128.8	89.8	124.6
Morris	84.7	88.2	111.1	59.7	118.6	92.3
Morton	152.2	90.9	83.3	136.4	116.3	117.4
Nemaha	74.1	31.0	35.7	27.3	81.1	48.2
Neosho	100.4	132.2	125.5	83.7	111.6	110.6
Ness	90.9	100.0	103.4	69.0	190.5	106.9
Norton	54.1	157.9	47.6	63.8	48.8	73.2
Osage	135.3	96.4	121.4	94.6	92.0	107.2
Osborne	54.1	135.1	142.9	108.1	142.9	116.0
Ottawa	129.0	100.0	66.7	82.0	139.5	101.4
Pawnee	55.6	117.0	97.2	78.1	90.9	88.0
Phillips	42.3	39.5	57.1	20.0	81.1	46.1
Pottawatomie	62.0	76.9	94.7	63.7	42.5	67.6
Pratt	81.5	97.0	124.1	108.1	33.9	86.2
Rawlins	100.0	47.6	34.5	66.7	111.1	67.8
Reno	96.4	110.0	117.0	130.4	71.5	103.2
Republic	207.5	54.5	152.2	55.6	64.5	108.8
Rice	37.8	28.3	34.5	19.2	47.6	32.2
Riley	34.2	30.2	30.5	27.5	25.2	29.4
Rooks	85.1	184.2	105.3	111.1	63.5	103.9
Rush	166.7	64.5	117.6	54.1	133.3	104.9
Russell	66.7	48.4	137.9	157.1	133.3	108.5
Saline	168.6	144.4	166.1	123.6	121.1	142.6
Scott	62.5	155.6	78.9	134.6	46.5	97.3
Sedgwick	138.3	135.2	140.2	137.6	101.8	129.6
Seward	147.5	155.9	189.5	190.5	117.6	158.9
Shawnee	124.2	130.8	112.2	135.6	104.0	120.9
Sheridan	0.0	129.0	38.5	103.4	0.0	60.6
Sherman	82.2	118.3	75.9	65.2	158.7	97.5
Smith	95.2	51.3	100.0	46.5	0.0	60.3
Stafford	111.1	90.9	108.7	59.7	93.0	91.2
Stanton	133.3	300.0	384.6	172.4	69.0	210.1
Stevens	76.9	103.9	186.4	93.3	125.0	113.3
Sumner	66.0	76.9	129.4	88.1	111.1	93.3
Thomas	47.8	27.6	64.5	30.6	37.0	41.4
Trego	120.0	105.3	187.5	125.0	87.0	121.5
Wabaunsee	53.3	64.5	135.6	104.5	13.9	71.6
Wallace	76.9	0.0	71.4	0.0	55.6	37.5
Washington	0.0	52.6	52.6	72.7	25.6	41.5
Wichita	285.7	300.0	0.0	120.0	153.8	170.5
Wilson	174.8	177.1	129.0	159.3	177.2	163.2
Woodson	181.8	166.7	96.8	172.4	241.4	171.1
Wyandotte	218.3	190.4	187.6	190.5	148.7	186.3
Kansas	93.1	93.1	95.7	88.5	77.6	89.5

*Pregnancies include the sum of live births, stillbirths and abortions.

†Rate per 1,000 female age-group population.

2006-2009 female age-group population estimates were compiled by the U.S. Census Bureau as of 7/1 of each year.

2010 populations are actual counts from the US 2010 Census as of 4/1/2010.

Source: Bureau of Epidemiology and Public Health Informatics

Kansas Department of Health and Environment

Technical Notes

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. [K.S.A. 65-2401 (4)]
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. [K.S.A. 65-2401 (3)]
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. [K.S.A. 65-2401 (2)]
Residence Data:	Residence data is information compiled according to the usual residence regardless of where the event occurred (including events occurring out-of-state).
Teenage Pregnancy Components:	A live birth, stillbirth, or abortion occurring to a female under 20 years of age.
Teenage Pregnancy Rate:	$\frac{\text{live births, stillbirths, abortions for females in a specific age-group}}{\text{female population in a specific age-group}} \times 1,000$

Rate Reliability

Vital statistics are easily influenced by random variation, and single-year rates can fluctuate from year to year. A multiple-year rate, such as a 5- or 10- year average of single-year rates, would be more accurate in formulating conclusions on vital events. For example, between 2006 and 2010, the teenage pregnancy rate for Kansas varied from 23.1 to 28.6 teenage pregnancies per 1,000 10-19 female population. The 2006-2010 5-year teenage pregnancy rate was 26.2. The 5-year average rate decreases the variability in single-year rate comparisons and is a more reliable indicator of teenage pregnancy rates in Kansas.

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 2010, Comanche County had one of the lowest 10-19 female populations in Kansas at 124 and Sedgwick County had one of the highest at 35,094.

With two teenage pregnancies occurring for Comanche County residents in 2010, the 10-19 teenage pregnancy rate was 16.1; whereas 998 teenage pregnancies occurring for Sedgwick County residents resulted in a teen pregnancy rate of 28.4 per 1,000 10-19 female population. If five more teenage pregnancies had occurred for each county, Comanche County's teenage pregnancy rate would have increased to 56.5, while Sedgwick County's rate would have increased only slightly, to 28.6 teenage pregnancies per 1,000 10-19 female population. Therefore, one must use caution when comparing rates of vital events between counties of significantly different population sizes to avoid misleading conclusions.

Unknowns

County of residence is collected for all vital events that occur in Kansas. However, some states that share vital event data with Kansas may not collect the county of residence (this is the case with several states that collect abortion data), or may not include it in their data export to KDHE Office of Vital Statistics. Events for which the county of residence is not known are included in the state total and in the "Unknown" row in tables that break down pregnancy outcomes by county.

Population

1988-1989, 1991-1999 and 2002-2009 female age-group population estimates and actual population counts for 1990, 2000 and 2010 were obtained from the U.S. Census Bureau on the Internet at: <http://www.census.gov/popest/estimates.php>. The 2001 female age-group population estimates were compiled by the Kansas Department of Health and Environment based on the 2000 Census counts.

2003-2009 female age-group county population estimates were obtained from the Bridged-race Vintage 2003, 2004, 2005, 2006, 2007, 2008 and 2009 postcensal series by year, age, sex, race, and Hispanic origin, prepared under a collaborative arrangement between the National Center for Health Statistics (NCHS) and the U.S. Census Bureau. The population data are at the Centers for Disease Control and Prevention website at: <http://www.cdc.gov/nchs/about/major/dvs/popbridge/popbridge.htm>.

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 their 2000 actual census counts. In order to facilitate a time series comparison, the assignment of counties to their peer group remains unchanged until the next decennial census. They will not necessarily have similar values for any other indicators. 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 definitions originated with the Kansas Department of Health and Environment, Office of Local and Rural Health, and should *not* be confused with the U.S. Census Bureau's (USCB) definitions of urban and rural areas. Sources for calculation of population

densities are population figures from the 2000 U.S. Census and land areas from the 2000 U.S. Census (for years before 2010). For 2010, populations and land areas were taken from the 2010 U.S. Census.

Counties are grouped in population density peer groups as follows:

Frontier	Rural	Stevens	Harvey
Barber	Anderson	Thomas	Leavenworth ⁴
Chase	Brown	Wabaunsee	Lyon ⁵
Cheyenne	Chautauqua ¹	Washington	Miami
Clark	Clay	Wilson	Montgomery
Comanche	Cloud	Woodson	Reno
Decatur	Coffey		Riley
Edwards	Ellsworth	Densely-Settled	Saline
Elk	Grant	Rural	
Gove	Gray	Allen	Urban
Graham	Greenwood ¹	Atchison	Douglas
Greeley	Harper	Barton	Johnson
Hamilton	Haskell	Bourbon	Sedgwick
Hodgeman	Jackson ²	Cherokee	Shawnee
Jewell	Kingman	Cowley	Wyandotte
Kearny	Linn	Dickinson	
Kiowa	Marion	Doniphan ³	
Lane	Marshall	Ellis	
Lincoln	Mitchell	Finney	
Logan	Morris	Ford	
Meade	Nemaha	Jefferson	
Morton	Norton	Labette	
Ness	Ottawa	McPherson	
Osborne	Pawnee	Neosho	
Rawlins	Phillips	Osage	
Rush	Pratt	Pottawatomie	
Sheridan	Republic	Seward	
Smith	Rice	Sumner	
Stanton	Rooks ¹		
Trego	Russell	Semi-Urban	
Wallace	Scott	Butler	
Wichita	Sherman ¹	Crawford	
	Stafford ¹	Franklin	
		Geary	

¹ To Frontier, 2010.

² To Densely-Settled Rural, 2010.

³ To Rural, 2010.

⁴ To Urban, 2010.

⁵ To Densely-Settled Rural, 2010.

Statistical Significance

The following methods have been applied where statistically significant differences have been noted in the document. When Kansas data are evaluated by county, small numbers of events may affect reliability. The relative standard error was used determine if the number of events was large enough to calculate stable rates. Values with a relative standard error of 30 percent or less were considered reliable. This is consistent with standard National Center for Health Statistics (NCHS) practice [1, 2].

Statistical significance was determined using confidence intervals calculated at the 95 percent level. When the number of events was greater than or equal to 100, the normal distribution was used. When the number of events was less than 100 the poison distribution is used. This is a conservative estimation of significance. If confidence intervals don't overlap, the difference between the rates is statistically significant [3].

1. Mathews TJ, MacDorman MF. (2010). Infant mortality statistics from the 2006 period linked birth/infant death data set. National Vital Statistics Reports; vol 58 no 17. Hyattsville, MD: National Center for Health Statistics. 2010.
2. Cohen RA, Martinez, ME. (2009). Consumer-directed health care for persons under 65 years of age with private health insurance: United States, 2007. NCHS data brief, no. 15. Hyattsville, MD: National Center for Health Statistics, pg. 8.
3. Washington State Health Department. (2006). Guidelines for using confidence intervals for public health assessment. [Cited: 16 Dec 2011], Available from <http://www.doh.wa.gov/data/Guidelines/guidelines.htm>