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# Natality Report by Racial and Ethnic Population Groups, Kansas, 2016

## 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

## Introduction

The purpose of this report is to present statistics for 2016 for Kansas resident live births by maternal population group based on race/Hispanic origin. Birth outcome indicators include maternal age, education level, marital status, adequacy of prenatal care, primary pay source, WIC service utilization, gestational age and weight of infant at birth. These indicators are examined among population groups by normal birth outcomes and by a summary measure of poor birth outcomes.

Report tables may be used as source information in the determination of disparate outcomes. Information may also be used for program planning purposes.

## Methods

Data in this report are based on Kansas resident birth records provided to the Bureau of Epidemiology and Public Health Informatics Office of Vital Statistics by hospitals and health care providers in Kansas and from vital statistics programs in other states. The records are considered 99.99 percent complete. Tables of counts and percentage rates were prepared for selected birth outcomes and maternal characteristics by population groups (see Technical Notes for definitions of selected birth outcomes).

Items for which no response was provided are shown as “not stated” (n.s.) in tables throughout this publication. The “not stated” count has been included in the denominator when calculating percentages for population groups.

Population groups used in this report are White Non-Hispanic, Black Non-Hispanic, Native American Non-

Hispanic, Asian/Pacific Islander (Asian/PI) Non-Hispanic, Multi-race/Other Non-Hispanic and Hispanic any race. Non-Hispanic is referred to as NH in the tables below.

A poor birth outcome is defined as one or more of the following indicators: Low birth weight (less than 2500 grams), prematurity (less than 37 weeks gestation), congenital anomalies and abnormal conditions of the newborn (see Technical Notes for detailed definitions and the list of abnormal conditions of the newborn).

## Results

Twenty-one tables containing counts and percentage rates were prepared.

Table 1. Number and Percent of Births by Level of Mother’s Education by Population Group, Kansas, 2016

Table 2. Number and Percent of Births by Primary Payor by Population Group, Kansas, 2016

Table 3. Number and Percent of Births by Health Preparedness Region by Population Group, Kansas, 2016

Table 4. Number and Percent of Births by Mother’s Marital Status by Population Group, Kansas, 2016

Table 5. Number and Percent of Births by Adequacy of Prenatal Care by Population Group, Kansas, 2016

Table 6. Number and Percent of Births by Number of Weeks Gestation by Population Group, Kansas, 2016

Table 7. Number and Percent of Births by WIC Participation by Population Group, Kansas, 2016

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Table 20. Number and Percent of Births with Poor Birth Outcomes by Mother's Age by Population Group, Kansas, 2016

Table 21. Number and Percent of Births with Poor Birth Outcomes by Infant's Birth Weight in Grams by Population Group, Kansas, 2016

Table 22. Number and Percent of Births with Poor Birth Outcomes by Weeks Gestation by Population Group, Kansas, 2016

## **Limitations**

In instances where the Hispanic origin of an individual was unknown, the person was assigned to a population group solely on the basis of race and was considered non-Hispanic. For non-Hispanic individuals when more than one race was selected, i.e., Black and White, the event was reported in the Multi Race non-Hispanic population group. Persons reported as Multi Race non-Hispanic are not reported as part of the other single race population groups.

KDHE publishes on Kansas resident births and deaths. In the event that a Kansas resident birth occurs out of state and the birth state is not using the latest revision of the birth certificate, missing data may result. This may be more common in births to residents of Kansas border counties.

Table 1. Number and Percent of Births by Level of Mother's Education by Population Group, Kansas, 2016

Education of Mother	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.*		TOTAL	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
8th Grade or Less	261	1.0	36	1.4	2	1.2	41	3.4	61	5.8	738	11.7	0	0.0	1,139	3.0
9-12 Grade, No Diploma	1,621	6.1	328	13.2	22	12.9	64	5.2	118	11.2	1,476	23.4	0	0.0	3,629	9.5
H.S. or GED	5,230	19.5	891	35.7	35	20.6	183	15.0	273	25.9	2,006	31.8	3	14.3	8,621	22.7
Some College, No Degree	5,800	21.7	723	29.0	57	33.5	132	10.8	273	25.9	1,163	18.5	2	9.5	8,150	21.4
Associate Degree	2,876	10.7	191	7.7	20	11.8	81	6.6	81	7.7	354	5.6	1	4.8	3,604	9.5
Bachelor's Degree	7,425	27.7	209	8.4	24	14.1	353	28.9	160	15.2	372	5.9	4	19.0	8,547	22.5
Master's Degree	2,774	10.4	92	3.7	9	5.3	269	22.0	60	5.7	123	2.0	0	0.0	3,327	8.7
Doctorate	753	2.8	17	0.7	0	0.0	92	7.5	26	2.5	29	0.5	2	9.5	919	2.4
n.s.*	46	0.2	7	0.3	1	0.6	6	0.5	4	0.4	39	0.6	9	42.9	112	0.3
Total	26,786	100	2,494	100	170	100	1,221	100	1,056	100	6,300	100	21	100	38,048	100

\*n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,

Bureau of Epidemiology and Public Health Informatics

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Table 2. Number and Percent of Births by Primary Payor by Population Group, Kansas, 2016

Payor	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.*		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Medicaid	7,093	26.5	1,506	60.4	80	47.1	212	17.4	468	44.3	2,556	40.6	6	28.6	11,921	31.3
Private Insurance	17,220	64.3	667	26.7	64	37.6	858	70.3	414	39.2	1,906	30.3	9	42.9	21,138	55.6
Self-pay	803	3.0	94	3.8	4	2.4	74	6.1	71	6.7	1,442	22.9	2	9.5	2,490	6.5
Indian Health Service	4	0.0	0	0.0	13	7.6	0	0.0	3	0.3	2	0.0	0	0.0	22	0.1
Tricare	1,317	4.9	197	7.9	5	2.9	67	5.5	77	7.3	223	3.5	2	9.5	1,888	5.0
Other gov	159	0.6	12	0.5	3	1.8	4	0.3	11	1.0	66	1.0	0	0.0	255	0.7
Other	118	0.4	13	0.5	0	0.0	1	0.1	7	0.7	39	0.6	0	0.0	178	0.5
n.s.*	72	0.3	5	0.2	1	0.6	5	0.4	5	0.5	66	1.0	2	9.5	156	0.4
Total	26,786	100	2,494	100	170	100	1,221	100	1,056	100	6,300	100	21	100	38,048	100

\*n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,

Bureau of Epidemiology and Public Health Informatics

Created August 15, 2017

Table 3. Number and Percent of Births by Health Preparedness Region by Population Group, Kansas, 2016

Preparedness Region	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.*		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Central Kansas Region	1,183	4.4	28	1.1	2	1.2	20	1.6	30	2.8	264	4.2	1	4.8	1,528	4.0
East Central Coalition	1,004	3.7	10	0.4	3	1.8	10	0.8	36	3.4	158	2.5	1	4.8	1,222	3.2
Ellis County	310	1.2	4	0.2	0	0.0	12	1.0	6	0.6	23	0.4	2	9.5	357	0.9
KC Metro Region	8,622	32.2	1,038	41.6	41	24.1	672	55.0	413	39.1	1,869	29.7	5	23.8	12,660	33.3
South-Central Metro Region	6,894	25.7	836	33.5	31	18.2	316	25.9	223	21.1	1,594	25.3	4	19.0	9,898	26.0
Lower 8 of SE Kansas	1,484	5.5	49	2.0	21	12.4	12	1.0	68	6.4	133	2.1	2	9.5	1,769	4.6
North Central Kansas	917	3.4	2	0.1	2	1.2	1	0.1	18	1.7	45	0.7	0	0.0	985	2.6
Northwest Bioterror	396	1.5	1	0.0	0	0.0	2	0.2	9	0.9	36	0.6	1	4.8	445	1.2
Northeast Corner	2,334	8.7	229	9.2	55	32.4	35	2.9	114	10.8	432	6.9	2	9.5	3,201	8.4
Rush County	39	0.1	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	40	0.1
South Central Coalition	354	1.3	6	0.2	1	0.6	0	0.0	0	0.0	41	0.7	0	0.0	402	1.1
South East Kansas Multi-County	442	1.7	9	0.4	0	0.0	3	0.2	11	1.0	15	0.2	0	0.0	480	1.3
Southwest Kansas Health Initiative	209	0.8	10	0.4	4	2.4	7	0.6	9	0.9	436	6.9	1	4.8	676	1.8
Southwest Surveillance	361	1.3	23	0.9	0	0.0	4	0.3	5	0.5	494	7.8	1	4.8	888	2.3
West Central Public Health	226	0.8	1	0.0	0	0.0	3	0.2	1	0.1	34	0.5	0	0.0	265	0.7
Western Pyramid	383	1.4	26	1.0	1	0.6	24	2.0	4	0.4	453	7.2	0	0.0	891	2.3
Wildcat Region	1,626	6.1	222	8.9	9	5.3	100	8.2	109	10.3	270	4.3	1	4.8	2,337	6.1
n.s.*	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0	0	0.0	4	0.0
<b>Total</b>	<b>26,786</b>	<b>100</b>	<b>2,494</b>	<b>100</b>	<b>170</b>	<b>100</b>	<b>1,221</b>	<b>100</b>	<b>1056</b>	<b>100</b>	<b>6,300</b>	<b>100</b>	<b>21</b>	<b>100</b>	<b>38,048</b>	<b>100</b>

\*n.s. = not stated

Residence data

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

Created August 15, 2017

Table 4. Number and Percent of Births by Mother's Marital Status by Population Group, Kansas, 2016

Status	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.*		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Married	18,823	70.3	767	30.8	75	44.1	1,065	87.2	600	56.8	2,989	47.4	12	57.1	24,331	63.9
Not Married	7,958	29.7	1,726	69.2	95	55.9	155	12.7	456	43.2	3,308	52.5	6	28.6	13,704	36.0
Unknown	5	0.0	1	0.0	0	0.0	1	0.1	0	0.0	3	0.0	3	14.3	13	0.0
Total	26,786	100	2,494	100	170	100	1,221	100	1,056	100	6,300	100	21	100	38,048	100

\*n.s. = not stated

Residence data

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

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Table 5. Number and Percent of Births by Adequacy of Prenatal Care by Population Group, Kansas, 2016

Level of Prenatal Care	White NH		Black NH		American Indian-Alaska Native NH		Asian-PI NH		Multi Race-Other NH		Hispanic-Any Race		n.s.*		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Adequate Plus	8,569	32.0	619	24.8	59	34.7	391	32.0	294	27.8	1,488	23.6	5	23.8	11,425	30.0
Adequate	14,816	55.3	1,206	48.4	72	42.4	647	53.0	511	48.4	2,937	46.6	10	47.6	20,199	53.1
Intermediate	1,120	4.2	225	9.0	9	5.3	43	3.5	108	10.2	681	10.8	1	4.8	2,187	5.7
Inadequate	2,199	8.2	429	17.2	30	17.6	138	11.3	137	13.0	1,178	18.7	4	19.0	4,115	10.8
n.s.*	82	0.3	15	0.6	0	0.0	2	0.2	6	0.6	16	0.3	1	4.8	122	0.3
Total	26,786	100	2,494	100	170	100	1,221	100	1,056	100	6,300	100	21	100	38,048	100

\*n.s. = not stated

Residence data

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

Created August 15, 2017

Table 6. Number and Percent of Births by Number of Weeks Gestation by Population Group, Kansas, 2016

Weeks Gestation	White NH		Black NH		American Indian-Alaska Native NH		Asian-PI NH		Multi Race-Other NH		Hispanic-Any Race		n.s.*		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Under 20	6	0.0	2	0.1	0	0.0	0	0.0	1	0.1	2	0.0	0	0.0	11	0.0
20-22	18	0.1	11	0.4	0	0.0	1	0.1	0	0.0	5	0.1	0	0.0	35	0.1
23-27	110	0.4	29	1.2	1	0.6	3	0.2	3	0.3	35	0.6	0	0.0	181	0.5
28-31	181	0.7	38	1.5	2	1.2	7	0.6	7	0.7	44	0.7	1	4.8	280	0.7
32-35	1,147	4.3	143	5.7	8	4.7	45	3.7	45	4.3	215	3.4	2	9.5	1,605	4.2
36	920	3.4	113	4.5	7	4.1	51	4.2	39	3.7	215	3.4	0	0.0	1,345	3.5
37-38	2,331	8.7	278	11.1	22	12.9	114	9.3	88	8.3	561	8.9	1	4.8	3,395	8.9
39	14,605	54.5	1,278	51.2	100	58.8	713	58.4	595	56.3	3,517	55.8	14	66.7	20,822	54.7
40-41	7,348	27.4	594	23.8	30	17.6	286	23.4	273	25.9	1,685	26.7	2	9.5	10,218	26.9
42 and over	112	0.4	8	0.3	0	0.0	1	0.1	4	0.4	16	0.3	0	0.0	141	0.4
n.s.*	8	0.0	0	0.0	0	0.0	0	0.0	1	0.1	5	0.1	1	4.8	15	0.0
Total	26,786	100	2,494	100	170	100	1,221	100	1,056	100	6,300	100	21	100	38,048	100

\*n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,

Bureau of Epidemiology and Public Health Informatics

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Table 7. Number and Percent of Births by WIC Participation by Population Group, Kansas, 2016

WIC Use	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.*		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Yes	6,202	23.2	1,302	52.2	80	47.1	225	18.4	474	44.9	3,673	58.3	6	28.6	11,962	31.4
No	20,540	76.7	1,184	47.5	90	52.9	996	81.6	581	55.0	2,620	41.6	12	57.1	26,023	68.4
n.s.*	44	0.2	8	0.3	0	0.0	0	0.0	1	0.1	7	0.1	3	14.3	63	0.2
Total	26,786	100	2,494	100	170	100	1,221	100	1,056	100	6,300	100	21	100	38,048	100

\*n.s. = not stated

Residence data

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

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*Table 8. Number and Percent of Singleton Births by Mother's Weight Gain Recommendation Based on Prepregnancy BMI\* by Population Group, Kansas, 2016*

Weight Gain*	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.†		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Less than recommended	4,657	18.0	557	23.3	34	20.7	312	26.3	247	23.9	1,565	25.4	6	30.0	7,378	20.0
Recommended	8,064	31.1	701	29.3	37	22.6	478	40.2	312	30.1	1,981	32.1	4	20.0	11,577	31.4
More than recommended	13,027	50.2	1,117	46.8	91	55.5	391	32.9	463	44.7	2,562	41.5	8	40.0	17,659	47.9
n.s.†	189	0.7	14	0.6	2	1.2	7	0.6	13	1.3	61	1.0	2	10.0	288	0.8
<b>Total</b>	<b>25,937</b>	<b>100</b>	<b>2,389</b>	<b>100</b>	<b>164</b>	<b>100</b>	<b>1,188</b>	<b>100</b>	<b>1,035</b>	<b>100</b>	<b>6,169</b>	<b>100</b>	<b>20</b>	<b>100</b>	<b>36,902</b>	<b>100</b>

\*See Technical Notes for definition of weight gain based on BMI.

†n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,

Bureau of Epidemiology and Public Health Informatics

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Table 9. Number and Percent of Births by Age-group of Mother by Population Group, Kansas, 2016

Mother's Age Group	White NH		Black NH		American Indian-Alaska Native NH		Asian-PI NH		Multi Race-Other NH		Hispanic-Any Race		n.s.*		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
10-14	9	0.0	5	0.2	0	0.0	0	0.0	3	0.3	5	0.1	0	0.0	22	0.1
15-17	257	1.0	70	2.8	1	0.6	4	0.3	15	1.4	204	3.2	0	0.0	551	1.4
18-19	909	3.4	149	6.0	12	7.1	13	1.1	66	6.3	425	6.7	1	4.8	1,575	4.1
20-24	5,514	20.6	797	32.0	38	22.4	114	9.3	337	31.9	1,892	30.0	4	19.0	8,696	22.9
25-29	8,628	32.2	773	31.0	56	32.9	391	32.0	308	29.2	1,653	26.2	3	14.3	11,812	31.0
30-34	8,053	30.1	440	17.6	49	28.8	452	37.0	206	19.5	1,283	20.4	4	19.0	10,487	27.6
35-39	2,948	11.0	215	8.6	11	6.5	201	16.5	98	9.3	670	10.6	6	28.6	4,149	10.9
40-44	445	1.7	44	1.8	3	1.8	44	3.6	22	2.1	162	2.6	1	4.8	721	1.9
45 and above	22	0.1	1	0.0	0	0.0	2	0.2	1	0.1	6	0.1	0	0.0	32	0.1
n.s.*	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	9.5	3	0.0
Total	26,786	100	2,494	100	170	100	1,221	100	1,056	100	6,300	100	21	100	38,048	100

\*n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,

Bureau of Epidemiology and Public Health Informatics

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Table 10. Number and Percent of Births by Trimester Prenatal Care Began by Population Group, Kansas, 2016

Prenatal Care Began	White NH		Black NH		American Indian-Alaska Native NH		Asian/PI NH		Multi Race-Other NH		Hispanic-Any Race		n.s.*		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
First Trimester	22,561	84.2	1,805	72.4	118	69.4	973	79.7	786	74.4	4,388	69.7	12	57.1	30,643	80.5
Second Trimester	3,357	12.5	515	20.6	42	24.7	191	15.6	215	20.4	1,425	22.6	5	23.8	5,750	15.1
Third Trimester	615	2.3	104	4.2	5	2.9	43	3.5	44	4.2	379	6.0	2	9.5	1,192	3.1
No Prenatal Care	171	0.6	46	1.8	4	2.4	11	0.9	3	0.3	91	1.4	1	4.8	327	0.9
n.s.*	82	0.3	24	1.0	1	0.6	3	0.2	8	0.8	17	0.3	1	4.8	136	0.4
Total	26,786	100	2,494	100	170	100	1,221	100	1,056	100	6,300	100	21	100	38,048	100

\*n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,

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Table 11. Number and Percent of Births by County of Residence by Population Group, Kansas, 2016

County	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.*		TOTAL	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Allen	125	0.5	2	0.1	0	0.0	0	0.0	5	0.5	5	0.1	0	0.0	137	0.4
Anderson	109	0.4	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0	0	0.0	111	0.3
Atchison	182	0.7	10	0.4	2	1.2	0	0.0	6	0.6	3	0.0	0	0.0	203	0.5
Barber	49	0.2	1	0.0	0	0.0	0	0.0	0	0.0	6	0.1	0	0.0	56	0.1
Barton	235	0.9	5	0.2	1	0.6	0	0.0	7	0.7	83	1.3	0	0.0	331	0.9
Bourbon	174	0.6	7	0.3	0	0.0	3	0.2	6	0.6	4	0.1	0	0.0	194	0.5
Brown	85	0.3	0	0.0	16	9.4	0	0.0	5	0.5	6	0.1	0	0.0	112	0.3
Butler	680	2.5	9	0.4	5	2.9	11	0.9	10	0.9	42	0.7	0	0.0	757	2.0
Chase	29	0.1	0	0.0	0	0.0	0	0.0	1	0.1	2	0.0	0	0.0	32	0.1
Chautauqua	23	0.1	0	0.0	1	0.6	0	0.0	2	0.2	2	0.0	0	0.0	28	0.1
Cherokee	187	0.7	3	0.1	5	2.9	0	0.0	11	1.0	11	0.2	0	0.0	217	0.6
Cheyenne	34	0.1	0	0.0	0	0.0	0	0.0	0	0.0	5	0.1	0	0.0	39	0.1
Clark	19	0.1	0	0.0	0	0.0	1	0.1	0	0.0	4	0.1	0	0.0	24	0.1
Clay	109	0.4	1	0.0	0	0.0	0	0.0	3	0.3	4	0.1	0	0.0	117	0.3
Cloud	84	0.3	1	0.0	0	0.0	0	0.0	1	0.1	5	0.1	0	0.0	91	0.2
Coffey	92	0.3	1	0.0	0	0.0	0	0.0	0	0.0	2	0.0	0	0.0	95	0.2
Comanche	10	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0	0	0.0	13	0.0
Cowley	293	1.1	10	0.4	3	1.8	12	1.0	11	1.0	68	1.1	0	0.0	397	1.0
Crawford	394	1.5	14	0.6	2	1.2	6	0.5	11	1.0	52	0.8	1	4.8	480	1.3
Decatur	28	0.1	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0	0	0.0	31	0.1
Dickinson	205	0.8	0	0.0	1	0.6	1	0.1	5	0.5	13	0.2	0	0.0	225	0.6
Doniphan	70	0.3	0	0.0	1	0.6	0	0.0	2	0.2	1	0.0	0	0.0	74	0.2
Douglas	915	3.4	41	1.6	27	15.9	65	5.3	40	3.8	88	1.4	1	4.8	1,177	3.1
Edwards	25	0.1	0	0.0	0	0.0	0	0.0	0	0.0	6	0.1	0	0.0	31	0.1
Elk	28	0.1	0	0.0	2	1.2	0	0.0	1	0.1	4	0.1	0	0.0	35	0.1
Ellis	310	1.2	4	0.2	0	0.0	12	1.0	6	0.6	23	0.4	2	9.5	357	0.9
Ellsworth	62	0.2	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	63	0.2
Finney	229	0.9	24	1.0	0	0.0	23	1.9	3	0.3	376	6.0	0	0.0	655	1.7
Ford	186	0.7	21	0.8	0	0.0	3	0.2	2	0.2	434	6.9	0	0.0	646	1.7
Franklin	274	1.0	3	0.1	1	0.6	1	0.1	5	0.5	14	0.2	0	0.0	298	0.8

Table 11. Number and Percent of Births by County of Residence by Population Group, Kansas, 2016

County	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.*	TOTAL		
Geary	587	2.2	133	5.3	6	3.5	24	2.0	53	5.0	163	2.6	1	4.8	967	2.5
Gove	33	0.1	0	0.0	0	0.0	1	0.1	0	0.0	6	0.1	0	0.0	40	0.1
Graham	17	0.1	0	0.0	0	0.0	1	0.1	2	0.2	0	0.0	0	0.0	20	0.1
Grant	51	0.2	0	0.0	1	0.6	0	0.0	1	0.1	69	1.1	1	4.8	123	0.3
Gray	71	0.3	0	0.0	0	0.0	0	0.0	0	0.0	15	0.2	0	0.0	86	0.2
Greeley	12	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0	0	0.0	15	0.0
Greenwood	61	0.2	0	0.0	0	0.0	1	0.1	2	0.2	3	0.0	0	0.0	67	0.2
Hamilton	15	0.1	0	0.0	0	0.0	0	0.0	1	0.1	21	0.3	0	0.0	37	0.1
Harper	55	0.2	2	0.1	1	0.6	0	0.0	0	0.0	7	0.1	0	0.0	65	0.2
Harvey	311	1.2	5	0.2	0	0.0	5	0.4	7	0.7	51	0.8	0	0.0	379	1.0
Haskell	32	0.1	0	0.0	0	0.0	0	0.0	1	0.1	21	0.3	1	4.8	55	0.1
Hodgeman	21	0.1	0	0.0	0	0.0	0	0.0	1	0.1	1	0.0	0	0.0	23	0.1
Jackson	128	0.5	2	0.1	20	11.8	0	0.0	5	0.5	14	0.2	0	0.0	169	0.4
Jefferson	192	0.7	1	0.0	0	0.0	0	0.0	5	0.5	4	0.1	0	0.0	202	0.5
Jewell	35	0.1	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	36	0.1
Johnson	5,589	20.9	381	15.3	5	2.9	460	37.7	190	18.0	721	11.4	4	19.0	7,350	19.3
Kearny	29	0.1	1	0.0	0	0.0	1	0.1	0	0.0	30	0.5	0	0.0	61	0.2
Kingman	72	0.3	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0	0	0.0	74	0.2
Kiowa	36	0.1	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	37	0.1
Labette	244	0.9	15	0.6	7	4.1	0	0.0	13	1.2	14	0.2	0	0.0	293	0.8
Lane	12	0.0	0	0.0	1	0.6	0	0.0	0	0.0	3	0.0	0	0.0	16	0.0
Leavenworth	809	3.0	78	3.1	4	2.4	23	1.9	33	3.1	52	0.8	0	0.0	999	2.6
Lincoln	34	0.1	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0	0	0.0	37	0.1
Linn	93	0.3	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0	0	0.0	95	0.2
Logan	51	0.2	0	0.0	0	0.0	1	0.1	0	0.0	2	0.0	0	0.0	54	0.1
Lyon	262	1.0	6	0.2	1	0.6	8	0.7	19	1.8	121	1.9	0	0.0	417	1.1
McPherson	279	1.0	3	0.1	0	0.0	4	0.3	5	0.5	17	0.3	0	0.0	308	0.8
Marion	109	0.4	0	0.0	0	0.0	0	0.0	3	0.3	6	0.1	0	0.0	118	0.3
Marshall	105	0.4	1	0.0	1	0.6	2	0.2	2	0.2	1	0.0	0	0.0	112	0.3
Meade	32	0.1	2	0.1	0	0.0	0	0.0	1	0.1	19	0.3	0	0.0	54	0.1
Miami	316	1.2	5	0.2	1	0.6	4	0.3	4	0.4	15	0.2	0	0.0	345	0.9

Table 11. Number and Percent of Births by County of Residence by Population Group, Kansas, 2016

County	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.*	TOTAL		
Mitchell	81	0.3	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0	0	0.0	84	0.2
Montgomery	307	1.1	15	0.6	4	2.4	2	0.2	24	2.3	32	0.5	1	4.8	385	1.0
Morris	57	0.2	0	0.0	0	0.0	0	0.0	2	0.2	4	0.1	0	0.0	63	0.2
Morton	16	0.1	0	0.0	0	0.0	0	0.0	0	0.0	9	0.1	0	0.0	25	0.1
Nemaha	131	0.5	1	0.0	0	0.0	2	0.2	1	0.1	5	0.1	0	0.0	140	0.4
Neosho	193	0.7	2	0.1	0	0.0	4	0.3	5	0.5	13	0.2	0	0.0	217	0.6
Ness	28	0.1	0	0.0	0	0.0	0	0.0	0	0.0	9	0.1	0	0.0	37	0.1
Norton	62	0.2	0	0.0	0	0.0	0	0.0	1	0.1	2	0.0	1	4.8	66	0.2
Osage	166	0.6	0	0.0	1	0.6	0	0.0	6	0.6	9	0.1	1	4.8	183	0.5
Osborne	38	0.1	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0	0	0.0	40	0.1
Ottawa	57	0.2	0	0.0	0	0.0	0	0.0	2	0.2	2	0.0	0	0.0	61	0.2
Pawnee	57	0.2	0	0.0	1	0.6	0	0.0	2	0.2	4	0.1	0	0.0	64	0.2
Phillips	59	0.2	1	0.0	0	0.0	0	0.0	2	0.2	6	0.1	0	0.0	68	0.2
Pottawatomie	350	1.3	1	0.0	0	0.0	5	0.4	11	1.0	27	0.4	0	0.0	394	1.0
Pratt	107	0.4	2	0.1	0	0.0	0	0.0	0	0.0	17	0.3	0	0.0	126	0.3
Rawlins	31	0.1	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0	0	0.0	34	0.1
Reno	552	2.1	13	0.5	5	2.9	5	0.4	24	2.3	84	1.3	0	0.0	683	1.8
Republic	43	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	43	0.1
Rice	84	0.3	0	0.0	0	0.0	0	0.0	2	0.2	24	0.4	0	0.0	110	0.3
Riley	689	2.6	88	3.5	3	1.8	71	5.8	45	4.3	80	1.3	0	0.0	976	2.6
Rooks	63	0.2	0	0.0	0	0.0	0	0.0	3	0.3	2	0.0	0	0.0	68	0.2
Rush	39	0.1	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	40	0.1
Russell	73	0.3	0	0.0	1	0.6	0	0.0	4	0.4	3	0.0	0	0.0	81	0.2
Saline	484	1.8	20	0.8	0	0.0	15	1.2	14	1.3	128	2.0	1	4.8	662	1.7
Scott	49	0.2	1	0.0	0	0.0	0	0.0	0	0.0	13	0.2	0	0.0	63	0.2
Sedgwick	4,709	17.6	797	32.0	18	10.6	282	23.1	167	15.8	1,332	21.1	4	19.0	7,309	19.2
Seward	87	0.3	10	0.4	2	1.2	6	0.5	7	0.7	317	5.0	0	0.0	429	1.1
Shawnee	1,441	5.4	214	8.6	15	8.8	31	2.5	88	8.3	398	6.3	2	9.5	2,189	5.8
Sheridan	28	0.1	0	0.0	0	0.0	0	0.0	0	0.0	5	0.1	0	0.0	33	0.1
Sherman	60	0.2	1	0.0	0	0.0	1	0.1	0	0.0	11	0.2	0	0.0	73	0.2
Smith	39	0.1	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	40	0.1

Table 11. Number and Percent of Births by County of Residence by Population Group, Kansas, 2016

County	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.*	TOTAL		
Stafford	44	0.2	0	0.0	0	0.0	1	0.1	0	0.0	8	0.1	0	0.0	53	0.1
Stanton	17	0.1	0	0.0	0	0.0	0	0.0	0	0.0	8	0.1	0	0.0	25	0.1
Stevens	38	0.1	0	0.0	1	0.6	1	0.1	1	0.1	33	0.5	0	0.0	74	0.2
Sumner	240	0.9	2	0.1	0	0.0	1	0.1	1	0.1	11	0.2	0	0.0	255	0.7
Thomas	102	0.4	0	0.0	0	0.0	1	0.1	1	0.1	15	0.2	0	0.0	119	0.3
Trego	26	0.1	0	0.0	0	0.0	0	0.0	1	0.1	1	0.0	0	0.0	28	0.1
Wabaunsee	63	0.2	0	0.0	0	0.0	0	0.0	1	0.1	3	0.0	0	0.0	67	0.2
Wallace	23	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	23	0.1
Washington	57	0.2	0	0.0	0	0.0	0	0.0	3	0.3	7	0.1	0	0.0	67	0.2
Wichita	14	0.1	0	0.0	0	0.0	0	0.0	0	0.0	7	0.1	0	0.0	21	0.1
Wilson	108	0.4	0	0.0	0	0.0	0	0.0	1	0.1	5	0.1	0	0.0	114	0.3
Woodson	34	0.1	0	0.0	0	0.0	0	0.0	0	0.0	4	0.1	0	0.0	38	0.1
Wyandotte	900	3.4	533	21.4	4	2.4	120	9.8	146	13.8	991	15.7	0	0.0	2,694	7.1
n.s.*	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0	0	0.0	4	0.0
Total	26,786	100	2,494	100	170	100	1,221	100	1,056	100	6,300	100	21	100	38,048	100

\*n.s. = not stated

Residence data

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

Created August 15, 2017

Table 12. Number and Percent of Births by Presence of Medical Risks to the Mother During Pregnancy by Population Group  
Kansas, 2016

Medical Risk Factors	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.*		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Pre-pregnancy Diabetes	168	1.2	18	1.2	3	2.4	9	1.7	9	1.7	80	3.0	0	0.0	287	1.5
Gestational Diabetes	1,387	10.0	125	8.6	13	10.6	148	28.1	61	11.7	510	19.0	1	9.1	2,245	11.7
Pre-pregnancy Hypertension	352	2.5	59	4.1	2	1.6	10	1.9	16	3.1	61	2.3	0	0.0	500	2.6
Pre-eclampsia	1,952	14.0	169	11.6	13	10.6	37	7.0	54	10.4	283	10.6	1	9.1	2,509	13.1
Eclampsia	66	0.5	14	1.0	0	0.0	3	0.6	4	0.8	6	0.2	1	9.1	94	0.5
Previous Pre-term Birth	760	5.5	110	7.6	9	7.3	26	4.9	23	4.4	162	6.0	1	9.1	1,091	5.7
Previous Poor Pregnancy Outcome	557	4.0	38	2.6	11	8.9	26	4.9	14	2.7	101	3.8	0	0.0	747	3.9
Vaginal Bleeding	261	1.9	29	2.0	3	2.4	13	2.5	5	1.0	49	1.8	0	0.0	360	1.9
Previous C-Section	3,810	27.4	417	28.7	23	18.7	172	32.6	142	27.3	963	35.9	4	36.4	5,531	28.8
Infertility Treatment	508	3.7	9	0.6	0	0.0	26	4.9	7	1.3	27	1.0	2	18.2	579	3.0
Infections Contracted or Treated During Pregnancy†	865	6.2	170	11.7	17	13.8	44	8.3	43	8.3	213	8.0	0	0.0	1,352	7.0
Smoking During Pregnancy	3,186	22.9	288	19.8	28	22.8	13	2.5	142	27.3	220	8.2	1	9.1	3,878	20.2
Alcohol Use During Pregnancy	40	0.3	6	0.4	1	0.8	0	0.0	1	0.2	4	0.1	0	0.0	52	0.3
Total Births	13,912	100	1,452	100	123	100	527	100	521	100	2,679	100	11	100	19,225	100

Note: Numbers and percentages of mothers represent mothers with at least one of the medical risks listed

\*n.s. = not stated

†Infections include: Gonorrhea, Syphilis, Herpes Simplex Virus, Chlamydia, HIV, Hepatitis B & Hepatitis C  
Residence data

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

Created August 15, 2017

Table 13. Number and Percent of Births With and Without Poor Birth Outcomes\* by Population Group, Kansas, 2016

Poor Outcome	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.†		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Yes	4,092	15.3	577	23.1	35	20.6	187	15.3	167	15.8	881	14.0	5	23.8	5,944	15.6
No	22,694	84.7	1,917	76.9	135	79.4	1,034	84.7	889	84.2	5,419	86.0	16	76.2	32,104	84.4
Total	26,786	100	2,494	100	170	100	1,221	100	1,056	100	6,300	100	21	100	38,048	100

\*See Technical Notes for definition of poor birth outcomes

†n.s. = not stated

Residence data

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

Created August 16, 2017

Table 14. Number and Percent of Births with Poor Birth Outcomes\* at Mother's Level of Education by Population Group  
 Kansas, 2016

Education of Mother	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.†		TOTAL	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
8th Grade or Less	33	0.8	7	1.2	0	0.0	6	3.2	9	5.4	97	11.0	0	0.0	152	2.6
9-12 Grade, No Diploma	341	8.3	85	14.7	5	14.3	12	6.4	17	10.2	212	24.1	0	0.0	672	11.3
H.S. or GED	904	22.1	220	38.1	9	25.7	29	15.5	48	28.7	296	33.6	0	0.0	1,506	25.3
Some College, No Degree	931	22.8	165	28.6	13	37.1	19	10.2	43	25.7	157	17.8	1	20.0	1,329	22.4
Associate Degree	401	9.8	43	7.5	1	2.9	17	9.1	13	7.8	45	5.1	0	0.0	520	8.7
Bachelor's Degree	961	23.5	30	5.2	6	17.1	48	25.7	24	14.4	48	5.4	1	20.0	1,118	18.8
Master's Degree	393	9.6	22	3.8	1	2.9	42	22.5	6	3.6	18	2.0	0	0.0	482	8.1
Doctorate	118	2.9	3	0.5	0	0.0	13	7.0	6	3.6	4	0.5	1	20.0	145	2.4
n.s.†	10	0.2	2	0.3	0	0.0	1	0.5	1	0.6	4	0.5	2	40.0	20	0.3
Total	4,092	100	577	100	35	100	187	100	167	100	881	100	5	100	5,944	100

\*See Technical Notes for definition of poor birth outcomes

†n.s. = not stated

Residence data

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

Created August 16, 2017

Table 15. Number and Percent of Births with Poor Birth Outcomes\* by Primary Payor by Population Group, Kansas 2016

Payor	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic- Any Race		n.s.†		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Medicaid	1,310	32.0	377	65.3	18	51.4	43	23.0	74	44.3	380	43.1	1	20.0	2,203	37.1
Private/employer Ins	2,452	59.9	132	22.9	13	37.1	119	63.6	73	43.7	254	28.8	3	60.0	3,046	51.2
Self-pay	107	2.6	21	3.6	0	0.0	15	8.0	8	4.8	192	21.8	1	20.0	344	5.8
Indian Health Service	1	0.0	0	0.0	2	5.7	0	0.0	0	0.0	1	0.1	0	0.0	4	0.1
Tricare	157	3.8	40	6.9	1	2.9	7	3.7	6	3.6	28	3.2	0	0.0	239	4.0
Other gov	26	0.6	1	0.2	0	0.0	1	0.5	4	2.4	10	1.1	0	0.0	42	0.7
Other	20	0.5	3	0.5	0	0.0	0	0.0	2	1.2	10	1.1	0	0.0	35	0.6
n.s.†	19	0.5	3	0.5	1	2.9	2	1.1	0	0.0	6	0.7	0	0.0	31	0.5
<b>Total</b>	<b>4,092</b>	<b>100</b>	<b>577</b>	<b>100</b>	<b>35</b>	<b>100</b>	<b>187</b>	<b>100</b>	<b>167</b>	<b>100</b>	<b>881</b>	<b>100</b>	<b>5</b>	<b>100</b>	<b>5,944</b>	<b>100</b>

\*See Technical Notes for definition of poor birth outcomes

†n.s. = not stated

Residence data

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

Created August 16, 2017

Table 16. Number and Percent of Births with Poor Birth Outcomes\* by Health Preparedness Region by Population Group, Kansas 2016

Preparedness Region	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.†		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Central Kansas Region	213	5.2	11	1.9	1	2.9	1	0.5	8	4.8	42	4.8	0	0.0	276	4.6
East Central Coalition	140	3.4	2	0.3	1	2.9	2	1.1	5	3.0	24	2.7	0	0.0	174	2.9
Ellis County	59	1.4	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1	2	40.0	62	1.0
KC Mmetro Region	1,270	31.0	253	43.8	6	17.1	98	52.4	59	35.3	265	30.1	1	20.0	1,952	32.8
KS South-Central Metro Region	1,098	26.8	191	33.1	5	14.3	58	31.0	41	24.6	225	25.5	1	20.0	1,619	27.2
Lower 8 of SE Kansas	239	5.8	14	2.4	8	22.9	3	1.6	3	1.8	19	2.2	1	20.0	287	4.8
North Central Kansas	159	3.9	1	0.2	0	0.0	0	0.0	6	3.6	5	0.6	0	0.0	171	2.9
Northwest Bioterror	66	1.6	0	0.0	0	0.0	0	0.0	1	0.6	5	0.6	0	0.0	72	1.2
Northeast Corner	340	8.3	49	8.5	11	31.4	6	3.2	21	12.6	54	6.1	0	0.0	481	8.1
Rush County	5	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5	0.1
South Central Coalition	49	1.2	0	0.0	0	0.0	0	0.0	0	0.0	3	0.3	0	0.0	52	0.9
South East Kansas Multi-County	71	1.7	2	0.3	0	0.0	1	0.5	1	0.6	1	0.1	0	0.0	76	1.3
Southwest Kansas Health Initiative	35	0.9	4	0.7	1	2.9	1	0.5	1	0.6	55	6.2	0	0.0	97	1.6
Southwest Surrveillance	49	1.2	7	1.2	0	0.0	1	0.5	1	0.6	53	6.0	0	0.0	111	1.9
West Central Public Health	35	0.9	1	0.2	0	0.0	0	0.0	1	0.6	3	0.3	0	0.0	40	0.7
Western Pyramid	71	1.7	5	0.9	0	0.0	6	3.2	0	0.0	89	10.1	0	0.0	171	2.9
Wildcat Region	193	4.7	37	6.4	2	5.7	10	5.3	19	11.4	37	4.2	0	0.0	298	5.0
<b>Total</b>	<b>4,092</b>	<b>100</b>	<b>577</b>	<b>100</b>	<b>35</b>	<b>100</b>	<b>187</b>	<b>100</b>	<b>167</b>	<b>100</b>	<b>881</b>	<b>100</b>	<b>5</b>	<b>100</b>	<b>5,944</b>	<b>100</b>

\*See Technical Notes for definition of poor birth outcomes

†n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,

Bureau of Epidemiology and Public Health Informatics

Created August 16, 2017

Table 17. Number and Percent of Births with Poor Birth Outcomes\* by Mother's Marital Status by Population Group  
 Kansas, 2016

Status	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.†		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Married	2,653	64.8	158	27.4	14	40.0	160	85.6	91	54.5	382	43.4	2	40.0	3,460	58.2
Not Married	1,438	35.1	419	72.6	21	60.0	27	14.4	76	45.5	499	56.6	2	40.0	2,482	41.8
n.s.†	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	20.0	2	0.0
Total	4,092	100	577	100	35	100	187	100	167	100	881	100	5	100	5,944	100

\*See Technical Notes for definition of poor birth outcomes

†n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,

Bureau of Epidemiology and Public Health Informatics

Created August 16, 2017

Table 18. Number and Percent of Births with Poor Birth Outcomes\* by Adequacy of Prenatal Care by Population Group, Kansas, 2016

Level of prenatal care	White NH		Black NH		American Indian-Alaska Native NH		Asian-PI NH		Multi Race-Other NH		Hispanic-Any Race		n.s.†		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Adequate Plus	2,001	48.9	219	38.0	20	57.1	91	48.7	68	40.7	334	37.9	1	20.0	2,734	46.0
Adequate	1,495	36.5	210	36.4	7	20.0	75	40.1	59	35.3	283	32.1	2	40.0	2,131	35.9
Intermediate	190	4.6	44	7.6	2	5.7	3	1.6	19	11.4	75	8.5	0	0.0	333	5.6
Inadequate	382	9.3	98	17.0	6	17.1	18	9.6	19	11.4	184	20.9	1	20.0	708	11.9
n.s.†	24	0.6	6	1.0	0	0.0	0	0.0	2	1.2	5	0.6	1	20.0	38	0.6
Total	4,092	100	577	100	35	100	187	100	167	100	881	100	5	100	5,944	100

\*See Technical Notes for definition of poor birth outcomes

†n.s. = not stated

Residence data

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

Created August 16, 2017

Table 19. Number and Percent of Births with Poor Birth Outcomes\* by WIC Participation by Population Group, Kansas, 2016

WIC Use	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic- Any Race		n.s.†		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Yes	1,124	27.5	313	54.2	13	37.1	35	18.7	77	46.1	506	57.4	1	20.0	2,069	34.8
No	2,958	72.3	262	45.4	22	62.9	152	81.3	90	53.9	375	42.6	3	60.0	3,862	65.0
n.s.†	10	0.2	2	0.3	0	0.0	0	0.0	0	0.0	0	0.0	1	20.0	13	0.2
Total	4,092	100	577	100	35	100	187	100	167	100	881	100	5	100	5,944	100

\*See Technical Notes for definition of poor birth outcomes

†n.s. = not stated

Residence data

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

Created August 16, 2017

Table 20. Number and Percent of Births with Poor Birth Outcomes\* by Mother's Age by Population Group  
 Kansas, 2016

Years	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic- Any Race		n.s.†		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
10-14	2	0.0	1	0.2	0	0.0	0	0.0	0	0.0	3	0.3	0	0.0	6	0.1
15-17	46	1.1	21	3.6	0	0.0	1	0.5	2	1.2	31	3.5	0	0.0	101	1.7
18-19	174	4.3	40	6.9	1	2.9	1	0.5	11	6.6	83	9.4	0	0.0	310	5.2
20-24	870	21.3	169	29.3	11	31.4	18	9.6	50	29.9	249	28.3	2	40.0	1,369	23.0
25-29	1,227	30.0	181	31.4	7	20.0	60	32.1	42	25.1	221	25.1	0	0.0	1,738	29.2
30-34	1,152	28.2	102	17.7	13	37.1	60	32.1	36	21.6	160	18.2	1	20.0	1,524	25.6
35-39	514	12.6	46	8.0	3	8.6	38	20.3	19	11.4	114	12.9	1	20.0	735	12.4
40-44	100	2.4	17	2.9	0	0.0	9	4.8	7	4.2	19	2.2	0	0.0	152	2.6
45 and above	6	0.1	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	7	0.1
n.s.†	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	20.0	2	0.0
Total	4,092	100	577	100	35	100	187	100	167	100	881	100	5	100	5,944	100

\*See Technical Notes for definition of poor birth outcomes

†n.s. = not stated

Residence data

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

Created August 16, 2017

Table 21. Number and Percent of Births with Poor Birth Outcomes\* by Infant's Birth Weight in Grams by Population Group, Kansas, 2016

Birth Weight in Grams	White NH		Black NH		American Indian-Alaska Native NH		Asian-PI NH		Multi Race-Other NH		Hispanic-Any Race		n.s.†		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Under 500	26	0.6	11	1.9	0	0.0	1	0.5	1	0.6	8	0.9	0	0.0	47	0.8
500-999	113	2.8	32	5.5	1	2.9	4	2.1	2	1.2	30	3.4	0	0.0	182	3.1
1000-1499	128	3.1	32	5.5	1	2.9	5	2.7	10	6.0	25	2.8	0	0.0	201	3.4
1500-1999	371	9.1	71	12.3	1	2.9	15	8.0	15	9.0	61	6.9	1	20.0	535	9.0
2000-2499	1,086	26.5	196	34.0	12	34.3	66	35.3	48	28.7	280	31.8	1	20.0	1,689	28.4
2500-2999	953	23.3	109	18.9	8	22.9	46	24.6	40	24.0	207	23.5	1	20.0	1,364	22.9
3000-3499	760	18.6	79	13.7	6	17.1	34	18.2	25	15.0	149	16.9	1	20.0	1,054	17.7
3500-3999	455	11.1	33	5.7	4	11.4	11	5.9	15	9.0	85	9.6	1	20.0	604	10.2
4000-4499	163	4.0	12	2.1	2	5.7	4	2.1	10	6.0	26	3.0	0	0.0	217	3.7
4500-4999	31	0.8	1	0.2	0	0.0	1	0.5	1	0.6	6	0.7	0	0.0	40	0.7
5000 and over	6	0.1	1	0.2	0	0.0	0	0.0	0	0.0	4	0.5	0	0.0	11	0.2
All	4,092	100	577	100	35	100	187	100	167	100	881	100	5	100	5,944	100

\*See Technical Notes for definition of poor birth outcomes

†n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,

Bureau of Epidemiology and Public Health Informatics

Created August 16, 2017

Table 22. Number and Percent of Births with Poor Birth Outcomes\* by Weeks of Gestation by Population Group, Kansas,

Weeks Gestation	White NH		Black NH		American Indian-Alaska Native NH		Asian-PI NH		Multi Race-Other NH		Hispanic-Any Race		n.s.*		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Under 20	6	0.1	2	0.3	0	0.0	0	0.0	1	0.6	2	0.2	0	0.0	11	0.2
20-22	18	0.4	11	1.9	0	0.0	1	0.5	0	0.0	5	0.6	0	0.0	35	0.6
23-27	110	2.7	29	5.0	1	2.9	3	1.6	3	1.8	35	4.0	0	0.0	181	3.0
28-31	181	4.4	38	6.6	2	5.7	7	3.7	7	4.2	44	5.0	1	20.0	280	4.7
32-35	1,147	28.0	143	24.8	8	22.9	45	24.1	45	26.9	215	24.4	2	40.0	1,605	27.0
36	920	22.5	113	19.6	7	20.0	51	27.3	39	23.4	215	24.4	0	0.0	1,345	22.6
37	438	10.7	87	15.1	6	17.1	23	12.3	18	10.8	89	10.1	0	0.0	661	11.1
38-39	917	22.4	110	19.1	8	22.9	46	24.6	31	18.6	190	21.6	2	40.0	1,304	21.9
40-41	349	8.5	42	7.3	3	8.6	11	5.9	20	12.0	84	9.5	0	0.0	509	8.6
42 and over	4	0.1	2	0.3	0	0.0	0	0.0	3	1.8	1	0.1	0	0.0	10	0.2
n.s.*	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	3	0.1
Total	4,092	100	577	100	35	100	187	100	167	100	881	100	5	100	5,944	100

\*See Technical Notes for definition of poor birth outcomes

\*n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,

Bureau of Epidemiology and Public Health Informatics

Created August 16, 2017

## 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). These reports are completed by the combined efforts of physicians, hospital personnel, funeral directors, attorneys, and local courts. All certificates and reports are filed with the Office of Vital Statistics by direct reporting.

### **Data Caveats.**

- The dates used to calculate the month prenatal care began included the first day of the last menses before pregnancy and the date of the first prenatal visit.
- KDHE publishes data on Kansas resident births and deaths. If the birth occurs out of state and the state is not using the latest revision of the birth certificate, missing data may result. This is an important factor in Kansas border counties.
- This report includes non-stated (n.s.) in the denominators (totals) for all calculations that result in percentages. These percentages may differ from those in the Kansas Annual Summary of Vital Statistics, 2016 where n.s. is subtracted from the total (denominator).
- Residence data is information compiled according to the usual residence regardless of where the event occurred (including events occurring out-of-state).

**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
- High blood pressure (pre-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. Infants born small for gestational age but constitutionally normal may represent 40% or more of the SGA infants at term.

## Definitions

### ***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.

### ***Poor birth outcomes***

Refers to infants who have at least one of the following: prematurity, congenital anomaly, low birth weight or an abnormal condition of the newborn.

### ***Prematurity***

Less than 37 weeks gestation.

### ***Congenital Anomalies***

Defects existing at and usually before birth regardless of causation.

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

Weight of a fetus or infant at delivery which is less than 2,500 grams (less than five pounds, 8 ounces).

### ***Abnormal Conditions of the Newborn***

Need for breathing/respiratory assistance, admission to neonatal intensive care, surfactant replacement therapy, need for antibiotics for infection, presence of seizures or neurological dysfunction and birth injuries requiring medical intervention.

### ***Prenatal Care***

Pregnancy-related health care services provided to a woman between conception and delivery.

### ***Trimester***

A three-month period of time. First trimester care, for example, refers to medical care initiated in the first three months of pregnancy.

### ***Weeks Gestation***

The number of weeks between the first day of the last reported normal menses and the delivery of the fetus or infant.

### ***WIC Services***

WIC is a federally funded nutrition program for women, infants, and children. WIC provides healthy foods, education and counseling, breastfeeding support, and referrals for health care at no cost.

### ***Adequacy of prenatal care***

An assessment of adequacy of prenatal care measured by the APNCU index is a composite measure based on gestational age of the newborn, the trimester prenatal care began and the number of prenatal visits made (also known as the Kotelchuck Index).

### ***Body Mass Index (BMI)***

An index for relating a person's weight in pound times 703, and dividing by their height in inches squared.