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# Natality Report by Racial and Ethnic Population Groups, Kansas, 2011

## 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 2011 on 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 and gestational age 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 Non-Hispanic 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.

A poor birth outcome was 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 tables containing counts and percentage rates were prepared.

Table 1. Number and percent of births by population group and education level of mother, Kansas, 2011

Table 2. Number and percent of births by population group and primary payor, Kansas, 2011

Table 3. Number and percent of births by population group and health preparedness region, Kansas, 2011

Table 4. Number and percent of births by population group and mother's marital status, Kansas, 2011

Table 5. Number and percent of births by population group and adequacy of prenatal care, Kansas, 2011

Table 6. Number and percent of births by population group and use of WIC services, Kansas, 2011

Table 7. Mother's weight gain in pregnancy by prepregnancy BMI category by population group, Kansas, 2011

Table 8. Number and percent of births by population group and number of weeks gestation, Kansas, 2011

Table 9. Number and percent of births by population group and presence of medical risks to the mother during pregnancy, Kansas, 2011

Table 10. Number and percent of births by population group and trimester prenatal care began, Kansas, 2011

Table 11. Number and percent of births by population group and gestational status, Kansas, 2011

Table 12. Number and percent of births by population group and county of residence, Kansas, 2011

Table 13. Number and percent of births by population group with and without poor outcomes, Kansas, 2011

Table 14. Number and percent of births with poor outcomes by population group and level of education attained, Kansas, 2011

Table 15. Number and percent of births with poor outcomes by population group and primary payor, Kansas, 2011

Table 16. Number and percent of births with poor outcomes by population group and health preparedness region, Kansas, 2011

Table 17. Number and percent of births with poor outcomes by population group and mother's marital status, Kansas, 2011

Table 18. Number and percent of births with poor outcomes by population group and adequacy of prenatal care, Kansas, 2011

Table 19. Number and percent of births with poor outcomes by population group and use of WIC services, Kansas, 2011

Table 20. Number and percent of births with poor outcomes by population group and age of mother, Kansas, 2011

## 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 Population Group and Education Level of Mother, Kansas, 2011

Education of Mother	WHITE NH		BLACK NH		AMERICAN INDIAN-ALASKA NATIVE NH		ASIAN-PI NH		MULTI RACE-OTHER NH		HISPANIC		n.s.		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
8th Grade or Less	284	1.0%	49	1.8%	2	0.9%	45	4.0%	46	5.3%	880	14.0%	1	4.5%	1,307	3.3%
9-12 Grade, No Diploma	2,332	8.2%	453	16.7%	37	16.2%	69	6.1%	139	16.1%	1,856	29.5%	2	9.1%	4,888	12.3%
H.S. or GED	6,042	21.3%	995	36.7%	76	33.2%	207	18.3%	234	27.1%	1,790	28.4%	0	0.0%	9,344	23.6%
Some College, No Degree	6,573	23.2%	763	28.2%	71	31.0%	181	16.0%	223	25.9%	969	15.4%	5	22.7%	8,785	22.2%
Associate Degree	2,672	9.4%	177	6.5%	20	8.7%	51	4.5%	48	5.6%	261	4.1%	1	4.5%	3,230	8.2%
Bachelor's Degree	7,400	26.1%	173	6.4%	17	7.4%	294	26.0%	112	13.0%	353	5.6%	5	22.7%	8,354	21.1%
Master's Degree	2,398	8.4%	67	2.5%	5	2.2%	210	18.6%	42	4.9%	85	1.4%	0	0.0%	2,807	7.1%
Doctorate	610	2.1%	15	0.6%	1	0.4%	65	5.7%	13	1.5%	28	0.4%	0	0.0%	732	1.8%
n.s.	71	0.3%	16	0.6%	0	0.0%	10	0.9%	5	0.6%	71	1.1%	8	36.4%	181	0.5%
Total	28,382	100%	2,708	100%	229	100%	1,132	100%	862	100%	6,293	100%	22	100%	39,628	100%

Residence data

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

Created: August 1, 2013

Table 2. Number and Percent of Births by Population Group and Primary Payor, Kansas, 2011

Payor	WHITE NH		BLACK NH		AMERICAN INDIAN-ALASKA NATIVE NH		ASIAN-PI NH		MULTI RACE-OTHER NH		HISPANIC		n.s.	Total		
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Medicaid	8,370	29.5%	1,833	67.7%	123	53.7%	192	17.0%	393	45.6%	2,423	38.5%	5	22.7%	13,339	33.7%
Private/employer Ins	16,815	59.2%	530	19.6%	65	28.4%	767	67.8%	290	33.6%	1,535	24.4%	3	13.6%	20,005	50.5%
Self-pay	952	3.4%	104	3.8%	5	2.2%	79	7.0%	46	5.3%	1,637	26.0%	7	31.8%	2,830	7.1%
Indian Health Service	3	0.0%	2	0.1%	16	7.0%	0	0.0%	4	0.5%	3	0.0%	0	0.0%	28	0.1%
Champus/Tricare	1,592	5.6%	161	5.9%	11	4.8%	47	4.2%	68	7.9%	220	3.5%	1	4.5%	2,100	5.3%
Other gov	127	0.4%	10	0.4%	1	0.4%	8	0.7%	7	0.8%	79	1.3%	0	0.0%	232	0.6%
Other	439	1.5%	60	2.2%	6	2.6%	34	3.0%	48	5.6%	294	4.7%	1	4.5%	882	2.2%
Unknown	84	0.3%	8	0.3%	2	0.9%	5	0.4%	6	0.7%	102	1.6%	5	22.7%	212	0.5%
<b>Total</b>	<b>28,382</b>	<b>100%</b>	<b>2,708</b>	<b>100%</b>	<b>229</b>	<b>100%</b>	<b>1,132</b>	<b>100%</b>	<b>862</b>	<b>100%</b>	<b>6,293</b>	<b>100%</b>	<b>22</b>	<b>100%</b>	<b>39,628</b>	<b>100%</b>

Residence data

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

Created: August 1, 2013

Table 3. Number and Percent of Births by Population Group and Health Preparedness Region, Kansas, 2011

Preparedness Region	WHITE NH		BLACK NH		AMERICAN INDIAN-ALASKA NATIVE NH		ASIAN-PI NH		MULTI RACE-OTHER NH		HISPANIC		n.s.		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Central Kansas Region	1,375	4.8%	31	1.1%	11	4.8%	20	1.8%	43	5.0%	241	3.8%	0	0.0%	1,721	4.3%
East Central Coalition	1,015	3.6%	17	0.6%	8	3.5%	17	1.5%	26	3.0%	136	2.2%	1	4.5%	1,220	3.1%
Ellis County	358	1.3%	4	0.1%	1	0.4%	4	0.4%	4	0.5%	37	0.6%	0	0.0%	408	1.0%
KC Mmetro Region	9,035	31.8%	1,108	40.9%	42	18.3%	563	49.7%	296	34.3%	1,703	27.1%	4	18.2%	12,751	32.2%
Lower 8 of SE Kansas	1,594	5.6%	58	2.1%	28	12.2%	19	1.7%	42	4.9%	104	1.7%	0	0.0%	1,845	4.7%
North Central Kansas	893	3.1%	3	0.1%	5	2.2%	8	0.7%	17	2.0%	41	0.7%	0	0.0%	967	2.4%
Northeast Corner	2,567	9.0%	263	9.7%	60	26.2%	34	3.0%	116	13.5%	439	7.0%	8	36.4%	3,487	8.8%
Northwest Bioterror	326	1.1%	1	0.0%	1	0.4%	5	0.4%	5	0.6%	27	0.4%	1	4.5%	366	0.9%
Rush County	25	0.1%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.0%	0	0.0%	26	0.1%
South Central Coalition	408	1.4%	3	0.1%	1	0.4%	3	0.3%	4	0.5%	47	0.7%	1	4.5%	467	1.2%
South East Kansas Multi-County	464	1.6%	12	0.4%	3	1.3%	1	0.1%	5	0.6%	11	0.2%	1	4.5%	497	1.3%
South-Central Metro Region	7,307	25.7%	949	35.0%	51	22.3%	328	29.0%	196	22.7%	1,739	27.6%	2	9.1%	10,572	26.7%
Southwest Kansas Health Initiative	237	0.8%	9	0.3%	3	1.3%	7	0.6%	2	0.2%	471	7.5%	1	4.5%	730	1.8%
Southwest Surveillance	395	1.4%	9	0.3%	3	1.3%	6	0.5%	10	1.2%	531	8.4%	0	0.0%	954	2.4%
West Central Public Health	206	0.7%	0	0.0%	0	0.0%	0	0.0%	1	0.1%	22	0.3%	0	0.0%	229	0.6%
Western Pyramid	446	1.6%	16	0.6%	1	0.4%	30	2.7%	8	0.9%	483	7.7%	0	0.0%	984	2.5%
Wildcat Region	1,731	6.1%	225	8.3%	11	4.8%	87	7.7%	86	10.0%	260	4.1%	3	13.6%	2,403	6.1%
Unknown	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.1%	0	0.0%	0	0.0%	1	0.0%
<b>Total</b>	<b>28,382</b>	<b>100%</b>	<b>2,708</b>	<b>100%</b>	<b>229</b>	<b>100%</b>	<b>1,132</b>	<b>100%</b>	<b>862</b>	<b>100%</b>	<b>6,293</b>	<b>100%</b>	<b>22</b>	<b>100%</b>	<b>39,628</b>	<b>100%</b>

Residence data

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

Created: August 1, 2013

Table 4. Number and Percent of Births by Population Group and Mother's Marital Status, Kansas, 2011

Status	WHITE NH		BLACK NH		AMERICAN INDIAN-ALASKA NATIVE NH		ASIAN-PI NH		MULTI RACE-OTHER NH		HISPANIC		n.s.		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Married	19,676	69.3%	705	26.0%	90	39.3%	978	86.4%	451	52.3%	2,931	46.6%	11	50.0%	24,842	62.7%
Not Married	8,676	30.6%	2,003	74.0%	139	60.7%	152	13.4%	411	47.7%	3,360	53.4%	8	36.4%	14,749	37.2%
Unknown	30	0.1%	0	0.0%	0	0.0%	2	0.2%	0	0.0%	2	0.0%	3	13.6%	37	0.1%
Total	28,382	100%	2,708	100%	229	100%	1,132	100%	862	100%	6,293	100%	22	100%	39,628	100%

Residence data

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

Created: August 1, 2013

Table 5. Number and Percent of Births by Population Group and Adequacy of Prenatal Care, Kansas, 2011

Level of Prenatal Care	WHITE NH		BLACK NH		AMERICAN INDIAN-ALASKA NATIVE NH		ASIAN-PI NH		MULTI RACE-OTHER NH		HISPANIC		n.s.		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Adequate Plus	9,548	33.6%	713	26.3%	65	28.4%	325	28.7%	245	28.4%	1,313	20.9%	1	4.5%	12,210	30.8%
Adequate	14,163	49.9%	1,053	38.9%	91	39.7%	549	48.5%	333	38.6%	2,490	39.6%	7	31.8%	18,686	47.2%
Intermediate	1,252	4.4%	141	5.2%	18	7.9%	64	5.7%	39	4.5%	502	8.0%	2	9.1%	2,018	5.1%
Inadequate	2,555	9.0%	547	20.2%	45	19.7%	149	13.2%	140	16.2%	1,418	22.5%	5	22.7%	4,859	12.3%
n.s.	864	3.0%	254	9.4%	10	4.4%	45	4.0%	105	12.2%	570	9.1%	7	31.8%	1,855	4.7%
Total	28,382	100%	2,708	100%	229	100%	1,132	100%	862	100%	6,293	100%	22	100%	39,628	100%

Residence data

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

Created: August 1, 2013

Table 6. Number and Percent of Births by Population Group and Use of WIC Services, Kansas, 2011

WIC Use	WHITE NH		BLACK NH		AMERICAN INDIAN-ALASKA NATIVE NH		ASIAN-PI NH		MULTI RACE-OTHER NH		HISPANIC		n.s.		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Yes	8,454	29.8%	1,714	63.3%	129	56.3%	292	25.8%	431	50.0%	4,401	69.9%	8	36.4%	15,429	38.9%
No	19,886	70.1%	985	36.4%	100	43.7%	835	73.8%	430	49.9%	1,887	30.0%	9	40.9%	24,132	60.9%
Unknown	42	0.1%	9	0.3%	0	0.0%	5	0.4%	1	0.1%	5	0.1%	5	22.7%	65	0.2%
Total	28,382	100%	2,708	100%	229	100%	1,132	100%	862	100%	6,293	100%	22	100%	39,628	100%

Residence data

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

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Table 7. Mother's Weight Gain in Pregnancy by Prepregnancy BMI Category\* by Population Group, Kansas, 2011

Weight Gain*	WHITE NH		BLACK NH		AMERICAN INDIAN-ALASKA NATIVE NH		ASIAN-PI NH		MULTI RACE-OTHER NH		HISPANIC		n.s.		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Less than recommended	5,053	17.8%	589	21.8%	41	17.9%	303	26.8%	202	23.4%	1,482	23.5%	4	18.2%	7,674	19.4%
Recommended	8,474	29.9%	704	26.0%	65	28.4%	447	39.5%	255	29.6%	1,905	30.3%	4	18.2%	11,854	29.9%
More than recommended	13,592	47.9%	1,265	46.7%	102	44.5%	344	30.4%	370	42.9%	2,626	41.7%	5	22.7%	18,304	46.2%
Unknown	1,263	4.5%	150	5.5%	21	9.2%	38	3.4%	35	4.1%	280	4.4%	9	40.9%	1,796	4.5%
Total	28,382	100%	2,708	100%	229	100%	1,132	100%	862	100%	6,293	100%	22	100%	39,628	100%

Residence data

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

Created: August 1, 2013

\*See Technical Notes and Definitions

Table 8. Number and Percent of Births by Population Group and Number of Weeks Gestation, Kansas, 2011

Weeks Gestation	WHITE NH		BLACK NH		AMERICAN INDIAN-ALASKA NATIVE NH		ASIAN-PI NH		MULTI RACE-OTHER NH		HISPANIC		n.s		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
UNDER 20	8	0.0%	13	0.5%	0	0.0%	0	0.0%	1	0.1%	2	0.0%	0	0.0%	24	0.1%
20-22	24	0.1%	9	0.3%	0	0.0%	1	0.1%	2	0.2%	8	0.1%	2	9.1%	46	0.1%
23-27	111	0.4%	32	1.2%	2	0.9%	2	0.2%	5	0.6%	30	0.5%	0	0.0%	182	0.5%
28-31	226	0.8%	35	1.3%	2	0.9%	8	0.7%	10	1.2%	45	0.7%	0	0.0%	326	0.8%
32-35	1,096	3.9%	161	5.9%	13	5.7%	32	2.8%	31	3.6%	244	3.9%	0	0.0%	1,577	4.0%
36	1,032	3.6%	114	4.2%	9	3.9%	43	3.8%	42	4.9%	203	3.2%	0	0.0%	1,443	3.6%
37-41	25,770	90.8%	2,334	86.2%	203	88.6%	1,045	92.3%	769	89.2%	5,727	91.0%	14	63.6%	35,862	90.5%
42 & OVER	97	0.3%	5	0.2%	0	0.0%	1	0.1%	2	0.2%	27	0.4%	1	4.5%	133	0.3%
n.s.	18	0.1%	5	0.2%	0	0.0%	0	0.0%	0	0.0%	7	0.1%	5	22.7%	35	0.1%
Total	28,382	100%	2,708	100%	229	100%	1,132	100%	862	100%	6,293	100%	22	100%	39,628	100%

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 Population Group and Presence of Medical Risks to the Mother During Pregnancy, Kansas, 2011

Medical Risk Factors	WHITE NH		BLACK NH		AMERICAN INDIAN-ALASKA NATIVE NH		ASIAN-PI NH		MULTI RACE-OTHER NH		HISPANIC		n.s.		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Pre-pregnancy Diabetes	170	0.6%	13	0.5%	2	0.9%	7	0.6%	6	0.7%	52	0.8%	0	0.0%	250	0.6%
Gestational Diabetes	1,260	4.4%	88	3.2%	15	6.6%	93	8.2%	53	6.1%	446	7.1%	1	4.5%	1,956	4.9%
Pre-pregnancy Hypertension	355	1.3%	47	1.7%	2	0.9%	3	0.3%	10	1.2%	46	0.7%	0	0.0%	463	1.2%
Pre-eclampsia	1,366	4.8%	154	5.7%	15	6.6%	24	2.1%	32	3.7%	219	3.5%	1	4.5%	1,811	4.6%
Eclampsia	49	0.2%	1	0.0%	0	0.0%	1	0.1%	3	0.3%	12	0.2%	0	0.0%	66	0.2%
Previous Pre-term Birth	867	3.1%	127	4.7%	11	4.8%	15	1.3%	28	3.2%	177	2.8%	0	0.0%	1,225	3.1%
Previous Poor Pregnancy Outcome	493	1.7%	60	2.2%	3	1.3%	10	0.9%	12	1.4%	88	1.4%	0	0.0%	666	1.7%
Vaginal Bleeding	440	1.6%	29	1.1%	1	0.4%	11	1.0%	7	0.8%	65	1.0%	1	4.5%	554	1.4%
Previous C-Section	3,870	13.6%	356	13.1%	38	16.6%	117	10.3%	92	10.7%	822	13.1%	1	4.5%	5,296	13.4%
Alcohol Use During Pregnancy	41	0.1%	15	0.6%	1	0.4%	1	0.1%	1	0.1%	11	0.2%	0	0.0%	70	0.2%
Infections During Pregnancy	998	3.5%	257	9.5%	18	7.9%	38	3.4%	47	5.5%	208	3.3%	0	0.0%	1,566	4.0%
Smoking During Pregnancy	4,648	16.4%	457	16.9%	57	24.9%	35	3.1%	180	20.9%	325	5.2%	2	9.1%	5,704	14.4%
Total Births	28,382	51.3%	2,708	59.2%	229	71.2%	1,132	31.4%	862	54.6%	6,293	39.3%	22	27.3%	39,628	49.5%

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 Population Group and Trimester Prenatal Care Began, Kansas, 2011

Prenatal Care Began	WHITE NH		BLACK NH		AMERICAN INDIAN-ALASKA NATIVE NH		ASIAN-PI		MULTI RACE-OTHER NH		HISPANIC		n.s.		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
First Trimester	22,871	80.6%	1,616	59.7%	155	67.7%	828	73.1%	534	61.9%	3,602	57.2%	12	54.5%	29,618	74.7%
Second Trimester	4,179	14.7%	681	25.1%	48	21.0%	205	18.1%	180	20.9%	1,668	26.5%	1	4.5%	6,962	17.6%
Third Trimester	673	2.4%	138	5.1%	18	7.9%	41	3.6%	38	4.4%	426	6.8%	3	13.6%	1,337	3.4%
No Prenatal Care	154	0.5%	60	2.2%	2	0.9%	18	1.6%	15	1.7%	128	2.0%	2	9.1%	379	1.0%
Unknown	505	1.8%	213	7.9%	6	2.6%	40	3.5%	95	11.0%	469	7.5%	4	18.2%	1,332	3.4%
Total	28,382	100%	2,708	100%	229	100%	1,132	100%	862	100%	6,293	100%	22	100%	39,628	100%

Residence data

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

Created: August 1, 2013

Table 11. Number and Percent of Births by Population Group and Gestational Status, Kansas, 2011

Gestational Status	WHITE NH		BLACK NH		AMERICAN INDIAN-ALASKA NATIVE NH		ASIAN-PI NH		MULTI RACE-OTHER NH		HISPANIC		n.s.		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Very Preterm (Less than 32 weeks)	369	1.3%	89	3.3%	4	1.7%	11	1.0%	18	2.1%	85	1.4%	2	9.1%	578	1.5%
Moderately Preterm (32-33 weeks)	325	1.1%	45	1.7%	3	1.3%	7	0.6%	1	0.1%	85	1.4%	0	0.0%	466	1.2%
Late Preterm (34-36 weeks)	1,803	6.4%	230	8.5%	19	8.3%	68	6.0%	72	8.4%	362	5.8%	0	0.0%	2,554	6.4%
Term (37-41 weeks)	25,770	90.8%	2,334	86.2%	203	88.6%	1,045	92.3%	769	89.2%	5,727	91.0%	14	63.6%	35,862	90.5%
Post term (42-45 weeks)	97	0.3%	5	0.2%	0	0.0%	1	0.1%	2	0.2%	27	0.4%	1	4.5%	133	0.3%
Unknown	18	0.1%	5	0.2%	0	0.0%	0	0.0%	0	0.0%	7	0.1%	5	22.7%	35	0.1%
<b>Total</b>	<b>28,382</b>	<b>100%</b>	<b>2,708</b>	<b>100%</b>	<b>229</b>	<b>100%</b>	<b>1,132</b>	<b>100%</b>	<b>862</b>	<b>100%</b>	<b>6,293</b>	<b>100%</b>	<b>22</b>	<b>100%</b>	<b>39,628</b>	<b>100%</b>

Residence data

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

Created: August 1, 2013

Table 12. Number and Percent of Births by Population Group and County of Residence, Kansas, 2011

County	WHITE NH		BLACK NH		AMERICAN INDIAN-ALASKA NATIVE NH		ASIAN-PI NH		MULTI RACE-OTHER NH		HISPANIC		n.s.		TOTAL	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Allen	141	0.5%	4	0.1%	0	0.0%	0	0.0%	3	0.3%	4	0.1%	1	4.5%	153	0.4%
Anderson	106	0.4%	1	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.0%	0	0.0%	108	0.3%
Atchison	187	0.7%	13	0.5%	0	0.0%	0	0.0%	6	0.7%	6	0.1%	0	0.0%	212	0.5%
Barber	61	0.2%	1	0.0%	0	0.0%	1	0.1%	0	0.0%	2	0.0%	1	4.5%	66	0.2%
Barton	292	1.0%	3	0.1%	2	0.9%	3	0.3%	6	0.7%	73	1.2%	0	0.0%	379	1.0%
Bourbon	190	0.7%	7	0.3%	3	1.3%	1	0.1%	1	0.1%	3	0.0%	0	0.0%	205	0.5%
Brown	122	0.4%	2	0.1%	22	9.6%	0	0.0%	6	0.7%	7	0.1%	2	9.1%	161	0.4%
Butler	654	2.3%	6	0.2%	2	0.9%	11	1.0%	6	0.7%	45	0.7%	1	4.5%	725	1.8%
Chase	21	0.1%	0	0.0%	1	0.4%	0	0.0%	1	0.1%	0	0.0%	0	0.0%	23	0.1%
Chautauqua	35	0.1%	0	0.0%	2	0.9%	0	0.0%	1	0.1%	0	0.0%	0	0.0%	38	0.1%
Cherokee	229	0.8%	1	0.0%	7	3.1%	3	0.3%	10	1.2%	4	0.1%	0	0.0%	254	0.6%
Cheyenne	27	0.1%	0	0.0%	0	0.0%	1	0.1%	0	0.0%	6	0.1%	0	0.0%	34	0.1%
Clark	21	0.1%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.0%	0	0.0%	22	0.1%
Clay	99	0.3%	1	0.0%	1	0.4%	0	0.0%	3	0.3%	2	0.0%	0	0.0%	106	0.3%
Cloud	103	0.4%	0	0.0%	1	0.4%	1	0.1%	0	0.0%	2	0.0%	0	0.0%	107	0.3%
Coffey	72	0.3%	0	0.0%	0	0.0%	1	0.1%	2	0.2%	1	0.0%	1	4.5%	77	0.2%
Comanche	29	0.1%	1	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.0%	0	0.0%	31	0.1%
Cowley	369	1.3%	6	0.2%	10	4.4%	8	0.7%	7	0.8%	67	1.1%	0	0.0%	467	1.2%
Crawford	438	1.5%	11	0.4%	5	2.2%	10	0.9%	8	0.9%	36	0.6%	0	0.0%	508	1.3%
Decatur	30	0.1%	0	0.0%	0	0.0%	0	0.0%	1	0.1%	0	0.0%	0	0.0%	31	0.1%
Dickinson	216	0.8%	0	0.0%	0	0.0%	3	0.3%	4	0.5%	17	0.3%	0	0.0%	240	0.6%
Doniphan	81	0.3%	0	0.0%	0	0.0%	0	0.0%	2	0.2%	0	0.0%	0	0.0%	83	0.2%
Douglas	964	3.4%	40	1.5%	28	12.2%	67	5.9%	44	5.1%	72	1.1%	1	4.5%	1,216	3.1%
Edwards	17	0.1%	0	0.0%	0	0.0%	1	0.1%	0	0.0%	11	0.2%	0	0.0%	29	0.1%
Elk	16	0.1%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.0%	0	0.0%	17	0.0%
Ellis	358	1.3%	4	0.1%	1	0.4%	4	0.4%	4	0.5%	37	0.6%	0	0.0%	408	1.0%
Ellsworth	62	0.2%	0	0.0%	1	0.4%	0	0.0%	3	0.3%	3	0.0%	0	0.0%	69	0.2%
Finney	262	0.9%	15	0.6%	1	0.4%	30	2.7%	7	0.8%	406	6.5%	0	0.0%	721	1.8%

Table 12. Number and Percent of Births by Population Group and County of Residence, Kansas, 2011

County	WHITE NH		BLACK NH		AMERICAN INDIAN-ALASKA NATIVE NH		ASIAN-PI NH		MULTI RACE-OTHER NH		HISPANIC		n.s.		TOTAL	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Ford	202	0.7%	8	0.3%	3	1.3%	6	0.5%	7	0.8%	474	7.5%	0	0.0%	700	1.8%
Franklin	275	1.0%	3	0.1%	2	0.9%	5	0.4%	6	0.7%	13	0.2%	0	0.0%	304	0.8%
Geary	565	2.0%	153	5.6%	5	2.2%	24	2.1%	50	5.8%	133	2.1%	0	0.0%	930	2.3%
Gove	33	0.1%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	0.0%	0	0.0%	35	0.1%
Graham	24	0.1%	0	0.0%	0	0.0%	0	0.0%	1	0.1%	0	0.0%	0	0.0%	25	0.1%
Grant	51	0.2%	0	0.0%	1	0.4%	0	0.0%	0	0.0%	75	1.2%	0	0.0%	127	0.3%
Gray	68	0.2%	0	0.0%	0	0.0%	0	0.0%	1	0.1%	18	0.3%	0	0.0%	87	0.2%
Greeley	14	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	5	0.1%	0	0.0%	19	0.0%
Greenwood	58	0.2%	0	0.0%	3	1.3%	1	0.1%	0	0.0%	3	0.0%	0	0.0%	65	0.2%
Hamilton	23	0.1%	1	0.0%	0	0.0%	0	0.0%	0	0.0%	19	0.3%	0	0.0%	43	0.1%
Harper	61	0.2%	0	0.0%	0	0.0%	0	0.0%	1	0.1%	6	0.1%	0	0.0%	68	0.2%
Harvey	351	1.2%	5	0.2%	1	0.4%	4	0.4%	9	1.0%	58	0.9%	0	0.0%	428	1.1%
Haskell	35	0.1%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	17	0.3%	0	0.0%	52	0.1%
Hodgeman	17	0.1%	0	0.0%	0	0.0%	0	0.0%	1	0.1%	3	0.0%	0	0.0%	21	0.1%
Jackson	127	0.4%	1	0.0%	14	6.1%	0	0.0%	6	0.7%	8	0.1%	0	0.0%	156	0.4%
Jefferson	160	0.6%	0	0.0%	2	0.9%	1	0.1%	3	0.3%	6	0.1%	0	0.0%	172	0.4%
Jewell	19	0.1%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	19	0.0%
Johnson	5,718	20.1%	381	14.1%	4	1.7%	394	34.8%	120	13.9%	736	11.7%	2	9.1%	7,355	18.6%
Kearny	39	0.1%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	23	0.4%	0	0.0%	62	0.2%
Kingman	69	0.2%	0	0.0%	0	0.0%	1	0.1%	0	0.0%	1	0.0%	0	0.0%	71	0.2%
Kiowa	32	0.1%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	6	0.1%	0	0.0%	38	0.1%
Labette	206	0.7%	16	0.6%	4	1.7%	2	0.2%	8	0.9%	7	0.1%	0	0.0%	243	0.6%
Lane	21	0.1%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.0%	0	0.0%	22	0.1%
Leavenworth	795	2.8%	74	2.7%	3	1.3%	16	1.4%	22	2.6%	56	0.9%	1	4.5%	967	2.4%
Lincoln	35	0.1%	0	0.0%	1	0.4%	0	0.0%	0	0.0%	2	0.0%	0	0.0%	38	0.1%
Linn	97	0.3%	0	0.0%	0	0.0%	1	0.1%	0	0.0%	3	0.0%	0	0.0%	101	0.3%
Logan	34	0.1%	0	0.0%	0	0.0%	0	0.0%	1	0.1%	1	0.0%	0	0.0%	36	0.1%
Lyon	276	1.0%	13	0.5%	2	0.9%	4	0.4%	13	1.5%	112	1.8%	0	0.0%	420	1.1%

Table 12. Number and Percent of Births by Population Group and County of Residence, Kansas, 2011

County	WHITE NH		BLACK NH		AMERICAN INDIAN-ALASKA NATIVE NH		ASIAN-PI NH		MULTI RACE-OTHER NH		HISPANIC		n.s.		TOTAL	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
McPherson	318	1.1%	4	0.1%	3	1.3%	3	0.3%	1	0.1%	18	0.3%	0	0.0%	347	0.9%
Marion	102	0.4%	0	0.0%	0	0.0%	0	0.0%	1	0.1%	8	0.1%	1	4.5%	112	0.3%
Marshall	108	0.4%	2	0.1%	0	0.0%	0	0.0%	0	0.0%	4	0.1%	0	0.0%	114	0.3%
Meade	52	0.2%	1	0.0%	0	0.0%	0	0.0%	1	0.1%	18	0.3%	0	0.0%	72	0.2%
Miami	355	1.3%	2	0.1%	2	0.9%	4	0.4%	7	0.8%	10	0.2%	0	0.0%	380	1.0%
Mitchell	77	0.3%	0	0.0%	0	0.0%	1	0.1%	0	0.0%	6	0.1%	0	0.0%	84	0.2%
Montgomery	360	1.3%	28	1.0%	9	3.9%	3	0.3%	12	1.4%	45	0.7%	0	0.0%	457	1.2%
Morris	61	0.2%	0	0.0%	0	0.0%	2	0.2%	1	0.1%	0	0.0%	0	0.0%	64	0.2%
Morton	24	0.1%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	15	0.2%	0	0.0%	39	0.1%
Nemaha	118	0.4%	1	0.0%	1	0.4%	1	0.1%	0	0.0%	3	0.0%	1	4.5%	125	0.3%
Neosho	199	0.7%	1	0.0%	1	0.4%	1	0.1%	2	0.2%	10	0.2%	0	0.0%	214	0.5%
Ness	26	0.1%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	0.0%	0	0.0%	28	0.1%
Norton	41	0.1%	0	0.0%	1	0.4%	1	0.1%	2	0.2%	3	0.0%	1	4.5%	49	0.1%
Osage	175	0.6%	1	0.0%	0	0.0%	3	0.3%	2	0.2%	3	0.0%	0	0.0%	184	0.5%
Osborne	36	0.1%	0	0.0%	1	0.4%	1	0.1%	1	0.1%	0	0.0%	0	0.0%	39	0.1%
Ottawa	43	0.2%	0	0.0%	0	0.0%	0	0.0%	2	0.2%	1	0.0%	0	0.0%	46	0.1%
Pawnee	66	0.2%	3	0.1%	1	0.4%	0	0.0%	1	0.1%	4	0.1%	0	0.0%	75	0.2%
Phillips	47	0.2%	0	0.0%	0	0.0%	1	0.1%	0	0.0%	2	0.0%	0	0.0%	50	0.1%
Pottawatomie	324	1.1%	2	0.1%	2	0.9%	4	0.4%	5	0.6%	15	0.2%	2	9.1%	354	0.9%
Pratt	139	0.5%	1	0.0%	1	0.4%	0	0.0%	3	0.3%	20	0.3%	0	0.0%	164	0.4%
Rawlins	12	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	3	0.0%	0	0.0%	15	0.0%
Reno	655	2.3%	16	0.6%	0	0.0%	4	0.4%	13	1.5%	71	1.1%	0	0.0%	759	1.9%
Republic	42	0.1%	2	0.1%	0	0.0%	1	0.1%	0	0.0%	1	0.0%	0	0.0%	46	0.1%
Rice	97	0.3%	0	0.0%	1	0.4%	0	0.0%	1	0.1%	20	0.3%	0	0.0%	119	0.3%
Riley	842	3.0%	70	2.6%	4	1.7%	59	5.2%	31	3.6%	112	1.8%	1	4.5%	1,119	2.8%
Rooks	60	0.2%	0	0.0%	0	0.0%	0	0.0%	1	0.1%	2	0.0%	0	0.0%	63	0.2%
Rush	25	0.1%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.0%	0	0.0%	26	0.1%
Russell	80	0.3%	0	0.0%	0	0.0%	0	0.0%	3	0.3%	2	0.0%	0	0.0%	85	0.2%

Table 12. Number and Percent of Births by Population Group and County of Residence, Kansas, 2011

County	WHITE NH		BLACK NH		AMERICAN INDIAN-ALASKA NATIVE NH		ASIAN-PI NH		MULTI RACE-OTHER NH		HISPANIC		n.s.		TOTAL	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Saline	567	2.0%	21	0.8%	4	1.7%	13	1.1%	34	3.9%	117	1.9%	0	0.0%	756	1.9%
Scott	55	0.2%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	21	0.3%	0	0.0%	76	0.2%
Sedgwick	4,930	17.4%	914	33.8%	37	16.2%	300	26.5%	157	18.2%	1,480	23.5%	0	0.0%	7,818	19.7%
Seward	101	0.4%	9	0.3%	2	0.9%	6	0.5%	1	0.1%	332	5.3%	0	0.0%	451	1.1%
Shawnee	1,664	5.9%	244	9.0%	21	9.2%	32	2.8%	93	10.8%	405	6.4%	5	22.7%	2,464	6.2%
Sheridan	24	0.1%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	7	0.1%	0	0.0%	31	0.1%
Sherman	62	0.2%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	10	0.2%	0	0.0%	72	0.2%
Smith	25	0.1%	0	0.0%	0	0.0%	0	0.0%	1	0.1%	1	0.0%	0	0.0%	27	0.1%
Stafford	35	0.1%	0	0.0%	0	0.0%	1	0.1%	0	0.0%	9	0.1%	0	0.0%	45	0.1%
Stanton	14	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	15	0.2%	0	0.0%	29	0.1%
Stevens	47	0.2%	0	0.0%	0	0.0%	1	0.1%	1	0.1%	34	0.5%	1	4.5%	84	0.2%
Sumner	246	0.9%	2	0.1%	1	0.4%	1	0.1%	3	0.3%	10	0.2%	0	0.0%	263	0.7%
Thomas	85	0.3%	1	0.0%	0	0.0%	2	0.2%	0	0.0%	11	0.2%	0	0.0%	99	0.2%
Trego	27	0.1%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	27	0.1%
Wabaunsee	77	0.3%	0	0.0%	0	0.0%	1	0.1%	1	0.1%	4	0.1%	0	0.0%	83	0.2%
Wallace	16	0.1%	0	0.0%	0	0.0%	0	0.0%	1	0.1%	1	0.0%	0	0.0%	18	0.0%
Washington	56	0.2%	0	0.0%	0	0.0%	1	0.1%	0	0.0%	4	0.1%	0	0.0%	61	0.2%
Wichita	16	0.1%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	7	0.1%	0	0.0%	23	0.1%
Wilson	111	0.4%	1	0.0%	0	0.0%	0	0.0%	1	0.1%	1	0.0%	0	0.0%	114	0.3%
Woodson	27	0.1%	0	0.0%	0	0.0%	0	0.0%	1	0.1%	3	0.0%	0	0.0%	31	0.1%
Wyandotte	1,106	3.9%	611	22.6%	5	2.2%	81	7.2%	103	11.9%	826	13.1%	0	0.0%	2,732	6.9%
Unknown	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.1%	0	0.0%	0	0.0%	1	0.0%
Total	28,382	100%	2,708	100%	229	100%	1132	100%	862	100%	6,293	100%	22	100%	39,628	100%

Residence data

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

Created: August 1, 2013

Table 13. Number and Percent of Births by Population Group with and without Poor Outcomes, Kansas, 2011

Poor Outcome	WHITE NH		BLACK NH		AMERICAN INDIAN-ALASKA NATIVE NH		ASIAN-PI NH		MULTI RACE-OTHER NH		HISPANIC		n.s.		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
No	23,839	84.0%	2,097	77.4%	179	78.2%	957	84.5%	688	79.8%	5,326	84.6%	19	86.4%	33,105	83.5%
Yes	4,543	16.0%	611	22.6%	50	21.8%	175	15.5%	174	20.2%	967	15.4%	3	13.6%	6,523	16.5%
Total	28,382	100%	2,708	100%	229	100%	1,132	100%	862	100%	6,293	100%	22	100%	39,628	100%

Residence data

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

Created: August 1, 2013

Table 14. Number and Percent of Births with Poor Outcomes by Population Group and Level of Education Attained, Kansas, 2011

Education of Mother	WHITE NH		BLACK NH		AMERICAN INDIAN-ALASKA NATIVE NH		ASIAN-PI NH		MULTI RACE-OTHER NH		HISPANIC		n.s.	TOTAL		
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
8th Grade or Less	40	0.9%	6	1.0%	0	0.0%	8	4.6%	9	5.2%	111	11.5%	0	0.0%	174	2.7%
9-12 Grade, No Diploma	426	9.4%	109	17.8%	9	18.0%	13	7.4%	31	17.8%	264	27.3%	0	0.0%	852	13.1%
H.S. or GED	1,091	24.0%	233	38.1%	15	30.0%	28	16.0%	44	25.3%	297	30.7%	0	0.0%	1,708	26.2%
Some College, No Degree	1,138	25.0%	175	28.6%	15	30.0%	29	16.6%	49	28.2%	167	17.3%	2	66.7%	1,575	24.1%
Associate Degree	408	9.0%	38	6.2%	7	14.0%	7	4.0%	9	5.2%	40	4.1%	0	0.0%	509	7.8%
Bachelor's Degree	1,005	22.1%	34	5.6%	2	4.0%	43	24.6%	25	14.4%	55	5.7%	0	0.0%	1,164	17.8%
Master's Degree	336	7.4%	9	1.5%	2	4.0%	38	21.7%	7	4.0%	8	0.8%	0	0.0%	400	6.1%
Doctorate	88	1.9%	3	0.5%	0	0.0%	5	2.9%	0	0.0%	8	0.8%	0	0.0%	104	1.6%
n.s.	11	0.2%	4	0.7%	0	0.0%	4	2.3%	0	0.0%	17	1.8%	1	33.3%	37	0.6%
Total	4,543	100%	611	100%	50	100%	175	100%	174	100%	967	100%	3	100%	6,523	100%

Residence data

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

Created: August 1, 2013

Table 15. Number and Percent of Births with Poor Outcomes by Population Group and Primary Payor, Kansas, 2011

Payor	WHITE NH		BLACK NH		AMERICAN INDIAN-ALASKA NATIVE NH		ASIAN-PI NH		MULTI RACE-OTHER NH		HISPANIC		n.s.	Total		
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Medicaid	1,434	31.6%	375	61.4%	30	60.0%	23	13.1%	72	41.4%	359	37.1%	0	0.0%	2,293	35.2%
Private/employer Ins	2,203	48.5%	108	17.7%	11	22.0%	117	66.9%	51	29.3%	203	21.0%	2	66.7%	2,695	41.3%
Self-pay	156	3.4%	33	5.4%	0	0.0%	11	6.3%	7	4.0%	228	23.6%	1	33.3%	436	6.7%
Indian Health Service	0	0.0%	2	0.3%	3	6.0%	0	0.0%	0	0.0%	1	0.1%	0	0.0%	6	0.1%
Champus/Tricare	649	14.3%	80	13.1%	6	12.0%	17	9.7%	33	19.0%	121	12.5%	0	0.0%	906	13.9%
Other gov	24	0.5%	3	0.5%	0	0.0%	0	0.0%	3	1.7%	8	0.8%	0	0.0%	38	0.6%
Other	63	1.4%	7	1.1%	0	0.0%	7	4.0%	7	4.0%	28	2.9%	0	0.0%	112	1.7%
Unknown	14	0.3%	3	0.5%	0	0.0%	0	0.0%	1	0.6%	19	2.0%	0	0.0%	37	0.6%
<b>Total</b>	<b>4,543</b>	<b>100%</b>	<b>611</b>	<b>100%</b>	<b>50</b>	<b>100%</b>	<b>175</b>	<b>100%</b>	<b>174</b>	<b>100%</b>	<b>967</b>	<b>100%</b>	<b>3</b>	<b>100%</b>	<b>6,523</b>	<b>100%</b>

Residence data

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

Created: August 1, 2013

Table 16. Number and Percent of Births with Poor Outcomes by Population Group and Health Preparedness Region, Kansas, 2011

Preparedness Region	WHITE NH		BLACK NH		AMERICAN INDIAN-ALASKA NATIVE NH		ASIAN-PI NH		MULTI RACE-OTHER NH		HISPANIC		n.s.		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Central Kansas Region	225	5.0%	5	0.8%	1	2.0%	4	2.3%	8	4.6%	32	3.3%	0	0.0%	275	4.2%
East Central Coalition	148	3.3%	1	0.2%	2	4.0%	2	1.1%	5	2.9%	21	2.2%	0	0.0%	179	2.7%
Ellis County	48	1.1%	1	0.2%	0	0.0%	2	1.1%	0	0.0%	6	0.6%	0	0.0%	57	0.9%
KC Mmetro Region	1,166	25.7%	193	31.6%	12	24.0%	74	42.3%	50	28.7%	206	21.3%	0	0.0%	1,701	26.1%
Lower 8 of SE Kansas	251	5.5%	26	4.3%	2	4.0%	3	1.7%	8	4.6%	16	1.7%	0	0.0%	306	4.7%
North Central Kansas	133	2.9%	0	0.0%	0	0.0%	2	1.1%	7	4.0%	11	1.1%	0	0.0%	153	2.3%
Northeast Corner	434	9.6%	71	11.6%	13	26.0%	11	6.3%	22	12.6%	64	6.6%	2	66.7%	617	9.5%
Northwest Bioterror	44	1.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	4	0.4%	0	0.0%	48	0.7%
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	68	1.5%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	7	0.7%	1	33.3%	76	1.2%
South East Kansas Multi-County	71	1.6%	3	0.5%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	74	1.1%
South-Central Metro Region	1,092	24.0%	216	35.4%	12	24.0%	46	26.3%	38	21.8%	244	25.2%	0	0.0%	1,648	25.3%
Southwest Kansas Health Initiative	40	0.9%	1	0.2%	0	0.0%	3	1.7%	1	0.6%	68	7.0%	0	0.0%	113	1.7%
Southwest Surrveillance	52	1.1%	1	0.2%	2	4.0%	1	0.6%	2	1.1%	80	8.3%	0	0.0%	138	2.1%
West Central Public Health	32	0.7%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	0.1%	0	0.0%	33	0.5%
Western Pyramid	89	2.0%	4	0.7%	0	0.0%	5	2.9%	2	1.1%	82	8.5%	0	0.0%	182	2.8%
Wildcat Region	645	14.2%	89	14.6%	6	12.0%	22	12.6%	31	17.8%	125	12.9%	0	0.0%	918	14.1%
Unknown	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Total	4,543	100%	611	100%	50	100%	175	100%	174	100%	967	100%	3	100%	6,523	100%

Residence data

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

Created: August 1, 2013

Table 17. Number and Percent of Births with Poor Outcomes by Population Group and Mother's Marital Status, Kansas, 2011

Status	WHITE NH		BLACK NH		AMERICAN INDIAN-ALASKA NATIVE NH		ASIAN-PI NH		MULTI RACE-OTHER NH		HISPANIC		n.s.	Total		
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Married	3,093	68.1%	177	29.0%	17	34.0%	145	82.9%	100	57.5%	486	50.3%	0	0.0%	4,018	61.6%
Not Married	1,443	31.8%	434	71.0%	33	66.0%	30	17.1%	74	42.5%	481	49.7%	2	66.7%	2,497	38.3%
Unknown	7	0.2%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	33.3%	8	0.1%
Total	4,543	100%	611	100%	50	100%	175	100%	174	100%	967	100%	3	100%	6,523	100%

Residence data

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

Created: August 1, 2013

Table 18. Number and Percent of Births with Poor Outcomes by Population Group and Adequacy of Prenatal Care, Kansas, 2011

Level of prenatal care	WHITE NH		BLACK NH		AMERICAN INDIAN-ALASKA NATIVE NH		ASIAN-PI NH		MULTI RACE-OTHER NH		HISPANIC		n.s.		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Adequate Plus	2,393	52.7%	256	41.9%	23	46.0%	83	47.4%	71	40.8%	355	36.7%	0	0.0%	3,181	48.8%
Adequate	1,260	27.7%	158	25.9%	5	10.0%	53	30.3%	44	25.3%	265	27.4%	0	0.0%	1,785	27.4%
Intermediate	174	3.8%	26	4.3%	6	12.0%	6	3.4%	9	5.2%	53	5.5%	0	0.0%	274	4.2%
Inadequate	432	9.5%	100	16.4%	12	24.0%	24	13.7%	26	14.9%	187	19.3%	1	33.3%	782	12.0%
n.s.	284	6.3%	71	11.6%	4	8.0%	9	5.1%	24	13.8%	107	11.1%	2	66.7%	501	7.7%
Total	4,543	100%	611	100%	50	100%	175	100%	174	100%	967	100%	3	100%	6,523	100%

Residence data

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

Created: August 1, 2013

Table 19. Number and Percent of Births with Poor Outcomes by Population Group and Use of WIC Services, Kansas, 2011

WIC Use	WHITE NH		BLACK NH		AMERICAN INDIAN-ALASKA NATIVE NH		ASIAN-PI NH		MULTI RACE-OTHER NH		HISPANIC		n.s.	Total		
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Yes	1,549	34.1%	368	60.2%	32	64.0%	39	22.3%	81	46.6%	655	67.7%	2	66.7%	2,726	41.8%
No	2,983	65.7%	239	39.1%	18	36.0%	136	77.7%	92	52.9%	312	32.3%	0	0.0%	3,780	57.9%
Unknown	11	0.2%	4	0.7%	0	0.0%	0	0.0%	1	0.6%	0	0.0%	1	33.3%	17	0.3%
Total	4,543	100%	611	100%	50	100%	175	100%	174	100%	967	100%	3	100%	6,523	100%

Residence data

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

Created: August 1, 2013

Table 20. Number and Percent of Births with Poor Outcomes by Population Group and Age of Mother, Kansas, 2011

Mother's Age	WHITE NH		BLACK NH		AMERICAN INDIAN-ALASKA NATIVE NH		ASIAN-PI NH		MULTI RACE-OTHER NH		HISPANIC		n.s.		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
10-14	2	0.0%	2	0.3%	0	0.0%	1	0.6%	0	0.0%	3	0.3%	0	0.0%	8	0.1%
15-17	71	1.6%	23	3.8%	0	0.0%	3	1.7%	8	4.6%	41	4.2%	0	0.0%	146	2.2%
18-19	264	5.8%	69	11.3%	5	10.0%	2	1.1%	21	12.1%	108	11.2%	0	0.0%	469	7.2%
20-24	1,229	27.1%	209	34.2%	16	32.0%	18	10.3%	68	39.1%	296	30.6%	3	100.0%	1,839	28.2%
25-29	1,464	32.2%	148	24.2%	21	42.0%	51	29.1%	39	22.4%	220	22.8%	0	0.0%	1,943	29.8%
30-34	1,020	22.5%	115	18.8%	4	8.0%	54	30.9%	21	12.1%	159	16.4%	0	0.0%	1,373	21.0%
35-39	397	8.7%	37	6.1%	3	6.0%	41	23.4%	13	7.5%	106	11.0%	0	0.0%	597	9.2%
40-44	91	2.0%	8	1.3%	1	2.0%	5	2.9%	3	1.7%	31	3.2%	0	0.0%	139	2.1%
45 and above	5	0.1%	0	0.0%	0	0.0%	0	0.0%	1	0.6%	3	0.3%	0	0.0%	9	0.1%
Unknown	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Total	4,543	100%	611	100%	50	100%	175	100%	174	100%	967	100%	3	100%	6,523	100%

Residence data

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

Created: August 1, 2013

## 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, 2011 where n.s. is subtracted from the total.
- 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).

### ***Prenatal Care***

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

### ***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.

### ***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.