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# Natality Report by Racial and Ethnic Population Groups, Kansas, 2013

## 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 2013 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 Non-Hispanic, 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-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, 2013

Table 2. Number and percent of births by primary payor by population group, Kansas, 2013

Table 3. Number and percent of births by health preparedness region by population group, Kansas, 2013

Table 4. Number and percent of births by mother's marital status by population group, Kansas, 2013

Table 5. Number and percent of births by adequacy of prenatal care by population group, Kansas, 2013

Table 6. Number and percent of births by number of weeks gestation by population group, Kansas, 2013

Table 7. Number and percent of births by WIC participation by population group, Kansas, 2013

Table 8. Number and percent of singleton births by mother's weight gain recommendation based on prepregnancy BMI by population group, Kansas, 2013

Table 9. Number and percent of births by age-group of mother by population group, 2013

Table 10. Number and percent of births by trimester prenatal care began by population group, Kansas, 2013

Table 11. Number and percent of births by county of residence by population group, Kansas, 2013

Table 12. Number and percent of births by presence of medical risks to the mother during pregnancy by population group, Kansas, 2013

Table 13. Number and percent of births with and without poor birth outcomes by population group, Kansas, 2013

Table 14. Number and percent of births with poor birth outcomes at mother's level of education by population group, Kansas, 2013

Table 15. Number and percent of births with poor birth outcomes by primary payor by population group, Kansas, 2013

Table 16. Number and percent of births with poor birth outcomes by health preparedness region by population group, Kansas, 2013

Table 17. Number and percent of births with poor birth outcomes by mother's marital status by population group, Kansas, 2013

Table 18. Number and percent of births with poor birth outcomes by adequacy of prenatal care by population group, Kansas, 2013

Table 19. Number and percent of births with poor birth outcomes by WIC participation by population group, Kansas, 2013

Table 20. Number and percent of births with poor birth outcomes by mother's age by population group, Kansas, 2013

Table 21. Number and percent of births by infant's birth weight in grams by population group, Kansas, 2013

## 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, 2013

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	255	0.9	30	1.2	2	1.1	41	3.5	54	5.9	810	13.2	1	5.9	1,193	3.1
9-12 Grade, No Diploma	1,976	7.1	401	15.7	39	21.3	65	5.5	134	14.5	1,657	27.0	1	5.9	4,273	11.0
H.S. or GED	5,597	20.1	861	33.8	55	30.1	227	19.3	255	27.7	1,813	29.5	3	17.6	8,811	22.7
Some College, No Degree	6,549	23.5	780	30.6	50	27.3	174	14.8	227	24.6	1,058	17.2	0	0.0	8,838	22.8
Associate Degree	2,751	9.9	181	7.1	11	6.0	75	6.4	64	6.9	285	4.6	1	5.9	3,368	8.7
Bachelor's Degree	7,379	26.5	190	7.5	19	10.4	320	27.2	116	12.6	367	6.0	3	17.6	8,394	21.6
Master's Degree	2,565	9.2	80	3.1	7	3.8	204	17.4	52	5.6	106	1.7	2	11.8	3,016	7.8
Doctorate	690	2.5	18	0.7	0	0.0	65	5.5	16	1.7	18	0.3	0	0.0	807	2.1
n.s.	59	0.2	8	0.3	0	0.0	4	0.3	3	0.3	25	0.4	6	35.3	105	0.3
Total	27,821	100.0	2,549	100.0	183	100.0	1,175	100.0	921	100.0	6,139	100.0	17	100.0	38,805	100.0

n.s. = not stated

Residence data

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

Table 2. Number and Percent of Births by Primary Payor by Population Group, Kansas, 2013

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	7,773	27.9	1,625	63.8	103	56.3	232	19.7	438	47.6	2,366	38.5	5	29.4	12,542	32.3
Private Insurance	17,070	61.4	576	22.6	55	30.1	766	65.2	308	33.4	1,717	28.0	8	47.1	20,500	52.8
Self-pay	1,093	3.9	133	5.2	6	3.3	105	8.9	80	8.7	1,580	25.7	1	5.9	2,998	7.7
Indian Health Service	5	0.0	0	0.0	9	4.9	0	0.0	3	0.3	1	0.0	0	0.0	18	0.0
Champus/Tricare	1,580	5.7	193	7.6	5	2.7	65	5.5	73	7.9	279	4.5	0	0.0	2,195	5.7
Other gov	134	0.5	11	0.4	4	2.2	4	0.3	8	0.9	75	1.2	0	0.0	236	0.6
Other	86	0.3	10	0.4	0	0.0	1	0.1	5	0.5	49	0.8	0	0.0	151	0.4
n.s.	80	0.3	1	0.0	1	0.5	2	0.2	6	0.7	72	1.2	3	17.6	165	0.4
Total	27,821	100.0	2,549	100.0	183	100.0	1,175	100.0	921	100.0	6,139	100.0	17	100.0	38,805	100.0

n.s. = not stated

Residence data

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

Table 3. Number and Percent of Births by Health Preparedness Region by Population Group, Kansas, 2013

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	1,338	4.8	35	1.4	2	1.1	29	2.5	32	3.5	244	4.0	2	11.8	1,682	4.3
East Central Coalition	1,034	3.7	10	0.4	5	2.7	16	1.4	34	3.7	140	2.3	1	5.9	1,240	3.2
Ellis County	316	1.1	1	0.0	2	1.1	5	0.4	6	0.7	30	0.5	0	0.0	360	0.9
KC Metro Region	8,881	31.9	1,088	42.7	44	24.0	579	49.3	308	33.4	1,652	26.9	8	47.1	12,560	32.4
South-Central Metro Region	7,159	25.7	837	32.8	34	18.6	352	30.0	225	24.4	1,654	26.9	2	11.8	10,263	26.4
Lower 8 of SE Kansas	1,530	5.5	58	2.3	19	10.4	16	1.4	58	6.3	97	1.6	1	5.9	1,779	4.6
North Central Kansas	898	3.2	3	0.1	3	1.6	8	0.7	13	1.4	43	0.7	0	0.0	968	2.5
Northwest Bioterror	339	1.2	1	0.0	2	1.1	1	0.1	6	0.7	31	0.5	0	0.0	380	1.0
Northeast Corner	2,504	9.0	234	9.2	63	34.4	35	3.0	114	12.4	443	7.2	0	0.0	3,393	8.7
Rush County	29	0.1	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	30	0.1
South Central Coalition	384	1.4	4	0.2	2	1.1	7	0.6	3	0.3	47	0.8	0	0.0	447	1.2
South East Kansas Multi-County	461	1.7	11	0.4	0	0.0	3	0.3	2	0.2	7	0.1	0	0.0	484	1.2
Southwest Kansas Health Initiative	250	0.9	9	0.4	2	1.1	8	0.7	7	0.8	460	7.5	2	11.8	738	1.9
Southwest Surveillance	413	1.5	16	0.6	2	1.1	9	0.8	5	0.5	501	8.2	0	0.0	946	2.4
West Central Public Health	213	0.8	1	0.0	0	0.0	1	0.1	0	0.0	25	0.4	0	0.0	240	0.6
Western Pyramid	401	1.4	18	0.7	0	0.0	22	1.9	11	1.2	460	7.5	1	5.9	913	2.4
Wildcat Region	1,670	6.0	223	8.7	3	1.6	84	7.1	97	10.5	304	5.0	0	0.0	2,381	6.1
n.s.	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Total	27,821	100.0	2,549	100.0	183	100.0	1,175	100.0	921	100.0	6,139	100.0	17	100.0	38,805	100.0

n.s. = not stated

Residence data

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

Table 4. Number and Percent of Births by Mother's Marital Status by Population Group, Kansas, 2013

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	19,377	69.6	782	30.7	62	33.9	990	84.3	496	53.9	3,023	49.2	8	47.1	24,738	63.7
Not Married	8,437	30.3	1,766	69.3	121	66.1	184	15.7	425	46.1	3,114	50.7	6	35.3	14,053	36.2
Unknown	7	0.0	1	0.0	0	0.0	1	0.1	0	0.0	2	0.0	3	17.6	14	0.0
Total	27,821	100.0	2,549	100.0	183	100.0	1,175	100.0	921	100.0	6,139	100.0	17	100.0	38,805	100.0

n.s. = not stated

Residence data

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



Table 5. Number and Percent of Births by Adequacy of Prenatal Care by Population Group  
 Kansas, 2013

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	8,913	32.0	694	27.2	47	25.7	320	27.2	254	27.6	1,514	24.7	5	29.4	11,747	30.3
Adequate	14,797	53.2	1,121	44.0	81	44.3	631	53.7	409	44.4	2,733	44.5	6	35.3	19,778	51.0
Intermediate	1,465	5.3	251	9.8	18	9.8	78	6.6	99	10.7	668	10.9	1	5.9	2,580	6.6
Inadequate	2,422	8.7	456	17.9	36	19.7	140	11.9	151	16.4	1,175	19.1	3	17.6	4,383	11.3
n.s.	224	0.8	27	1.1	1	0.5	6	0.5	8	0.9	49	0.8	2	11.8	317	0.8
Total	27,821	100.0	2,549	100.0	183	100.0	1,175	100.0	921	100.0	6,139	100.0	17	100.0	38,805	100.0

n.s. = not stated

Residence data

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

Table 6. Number and Percent of Births by Number of Weeks Gestation by Population Group, Kansas, 2013

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	8	0.0	3	0.1	0	0.0	0	0.0	0	0.0	3	0.0	0	0.0	14	0.0
20-22	26	0.1	16	0.6	0	0.0	0	0.0	1	0.1	9	0.1	0	0.0	52	0.1
23-27	135	0.5	30	1.2	2	1.1	6	0.5	5	0.5	18	0.3	0	0.0	196	0.5
28-31	238	0.9	40	1.6	1	0.5	11	0.9	1	0.1	44	0.7	0	0.0	335	0.9
32-35	1,137	4.1	153	6.0	11	6.0	36	3.1	34	3.7	210	3.4	0	0.0	1,581	4.1
36	875	3.1	102	4.0	12	6.6	42	3.6	47	5.1	192	3.1	0	0.0	1,270	3.3
37	2,123	7.6	232	9.1	9	4.9	92	7.8	65	7.1	470	7.7	0	0.0	2,991	7.7
38-39	15,101	54.3	1,340	52.6	104	56.8	652	55.5	516	56.0	3,352	54.6	10	58.8	21,075	54.3
40-41	8,063	29.0	626	24.6	44	24.0	335	28.5	250	27.1	1,821	29.7	4	23.5	11,143	28.7
42 and over	108	0.4	4	0.2	0	0.0	1	0.1	2	0.2	17	0.3	0	0.0	132	0.3
n.s.	7	0.0	3	0.1	0	0.0	0	0.0	0	0.0	3	0.0	3	17.6	16	0.0
Total	27,821	100.0	2,549	100.0	183	100.0	1,175	100.0	921	100.0	6,139	100.0	17	100.0	38,805	100.0

n.s. = not stated

Residence data

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

Table 7. Number and Percent of Births by WIC Participation by Population Group, Kansas, 2013

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	7,846	28.2	1,540	60.4	97	53.0	282	24.0	483	52.4	4,089	66.6	2	11.8	14,339	37.0
No	19,901	71.5	1,006	39.5	84	45.9	891	75.8	437	47.4	2,030	33.1	10	58.8	24,359	62.8
n.s.	74	0.3	3	0.1	2	1.1	2	0.2	1	0.1	20	0.3	5	29.4	107	0.3
Total	27,821	100.0	2,549	100.0	183	100.0	1,175	100.0	921	100.0	6,139	100.0	17	100.0	38,805	100.0

n.s. = not stated

Residence data

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

Table 8. Number and Percent of Singleton Births by Mother's Weight Gain Recommendation Based on Prepregnancy BMI\*, by Population Group, Kansas, 2013

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	912	3.4	78	3.2	7	4.0	84	7.4	38	4.3	157	2.6	1	8.3	1,277	3.4
Recommended	12,613	47.3	903	37.0	55	31.1	685	60.4	403	45.3	2,424	40.7	9	75.0	17,092	45.9
More than recommended	13,126	49.3	1,462	59.8	115	65.0	366	32.2	449	50.4	3,369	56.6	2	16.7	18,889	50.7
Total	26,651	100.0	2,443	100.0	177	100.0	1,135	100.0	890	100.0	5,950	100.0	12	100.0	37,258	100.0

\*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

Table 9. Number and Percent of Births by Age-group of Mother by Population Group, Kansas, 2013

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	2	0.1	0	0.0	1	0.1	3	0.3	15	0.2	0	0.0	31	0.1
15-17	343	1.2	76	3.0	7	3.8	8	0.7	30	3.3	256	4.2	1	5.9	743	1.9
18-19	1,243	4.5	224	8.8	9	4.9	25	2.1	87	9.4	557	9.1	1	5.9	2,191	5.6
20-24	6,399	23.0	896	35.2	65	35.5	131	11.1	291	31.6	1,792	29.2	2	11.8	9,753	25.1
25-29	9,232	33.2	688	27.0	52	28.4	362	30.8	272	29.5	1,608	26.2	6	35.3	12,430	32.0
30-34	7,417	26.7	413	16.2	30	16.4	431	36.7	159	17.3	1,187	19.3	4	23.5	9,797	25.2
35-39	2,644	9.5	206	8.1	14	7.7	171	14.6	63	6.8	585	9.5	3	17.6	3,760	9.7
40-44	506	1.8	42	1.6	5	2.7	44	3.7	12	1.3	134	2.2	0	0.0	756	1.9
45 and above	28	0.1	2	0.1	1	0.5	2	0.2	4	0.4	4	0.1	0	0.0	42	0.1
n.s.	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	1	0.0
Total	27,821	100.0	2,549	100.0	183	100.0	1,175	100.0	921	100.0	6,139	100.0	17	100.0	38,805	100.0

n.s. = not stated

Residence data

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

Table 10. Number and Percent of Births by Trimester Prenatal Care Began by Population Group, Kansas, 2013

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	23,002	82.7	1,762	69.1	129	70.5	923	78.6	660	71.7	4,130	67.3	12	70.6	30,618	78.9
Second Trimester	3,874	13.9	595	23.3	37	20.2	206	17.5	202	21.9	1,552	25.3	1	5.9	6,467	16.7
Third Trimester	613	2.2	115	4.5	12	6.6	33	2.8	45	4.9	330	5.4	0	0.0	1,148	3.0
No Prenatal Care	153	0.5	54	2.1	5	2.7	8	0.7	7	0.8	84	1.4	2	11.8	313	0.8
n.s.	179	0.6	23	0.9	0	0.0	5	0.4	7	0.8	43	0.7	2	11.8	259	0.7
Total	27,821	100.0	2,549	100.0	183	100.0	1,175	100.0	921	100.0	6,139	100.0	17	100.0	38,805	100.0

n.s. = not stated

Residence data

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

Table 11. Number and Percent of Births by County of Residence by Population Group, Kansas, 2013

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	138	0.5	2	0.1	0	0.0	0	0.0	2	0.2	1	0.0	0	0.0	143	0.4
Anderson	91	0.3	0	0.0	0	0.0	1	0.1	0	0.0	2	0.0	0	0.0	94	0.2
Atchison	164	0.6	12	0.5	0	0.0	1	0.1	3	0.3	11	0.2	0	0.0	191	0.5
Barber	53	0.2	1	0.0	0	0.0	2	0.2	0	0.0	4	0.1	0	0.0	60	0.2
Barton	262	0.9	3	0.1	0	0.0	2	0.2	6	0.7	76	1.2	1	5.9	350	0.9
Bourbon	204	0.7	9	0.4	0	0.0	2	0.2	0	0.0	3	0.0	0	0.0	218	0.6
Brown	109	0.4	2	0.1	19	10.4	0	0.0	6	0.7	3	0.0	0	0.0	139	0.4
Butler	692	2.5	6	0.2	3	1.6	10	0.9	15	1.6	25	0.4	0	0.0	751	1.9
Chase	25	0.1	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	26	0.1
Chautauqua	31	0.1	0	0.0	0	0.0	0	0.0	1	0.1	2	0.0	0	0.0	34	0.1
Cherokee	183	0.7	1	0.0	4	2.2	4	0.3	19	2.1	8	0.1	0	0.0	219	0.6
Cheyenne	24	0.1	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0	0	0.0	27	0.1
Clark	18	0.1	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0	0	0.0	20	0.1
Clay	105	0.4	1	0.0	0	0.0	0	0.0	1	0.1	6	0.1	0	0.0	113	0.3
Cloud	96	0.3	1	0.0	0	0.0	1	0.1	2	0.2	3	0.0	0	0.0	103	0.3
Coffey	88	0.3	0	0.0	1	0.5	2	0.2	0	0.0	3	0.0	0	0.0	94	0.2
Comanche	17	0.1	0	0.0	0	0.0	0	0.0	0	0.0	4	0.1	0	0.0	21	0.1
Cowley	341	1.2	3	0.1	4	2.2	9	0.8	19	2.1	80	1.3	0	0.0	456	1.2
Crawford	432	1.6	15	0.6	1	0.5	4	0.3	10	1.1	27	0.4	0	0.0	489	1.3
Decatur	32	0.1	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	33	0.1
Dickinson	194	0.7	1	0.0	2	1.1	3	0.3	3	0.3	15	0.2	0	0.0	218	0.6
Doniphan	74	0.3	1	0.0	1	0.5	0	0.0	4	0.4	1	0.0	0	0.0	81	0.2
Douglas	957	3.4	51	2.0	25	13.7	60	5.1	43	4.7	83	1.4	0	0.0	1,219	3.1
Edwards	23	0.1	0	0.0	0	0.0	0	0.0	0	0.0	9	0.1	0	0.0	32	0.1
Elk	26	0.1	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	27	0.1
Ellis	316	1.1	1	0.0	2	1.1	5	0.4	6	0.7	30	0.5	0	0.0	360	0.9
Ellsworth	48	0.2	0	0.0	0	0.0	0	0.0	2	0.2	2	0.0	0	0.0	52	0.1
Finney	227	0.8	18	0.7	0	0.0	21	1.8	10	1.1	379	6.2	1	5.9	656	1.7
Ford	206	0.7	16	0.6	2	1.1	8	0.7	5	0.5	444	7.2	0	0.0	681	1.8

Table 11. Number and Percent of Births by County of Residence by Population Group, Kansas, 2013

County	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.		TOTAL	
Franklin	307	1.1	2	0.1	0	0.0	5	0.4	4	0.4	14	0.2	0	0.0	332	0.9
Geary	628	2.3	154	6.0	2	1.1	28	2.4	49	5.3	168	2.7	0	0.0	1,029	2.7
Gove	29	0.1	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	30	0.1
Graham	21	0.1	1	0.0	0	0.0	0	0.0	1	0.1	1	0.0	0	0.0	24	0.1
Grant	45	0.2	0	0.0	0	0.0	0	0.0	0	0.0	77	1.3	1	5.9	123	0.3
Gray	79	0.3	0	0.0	0	0.0	1	0.1	0	0.0	23	0.4	0	0.0	103	0.3
Greeley	20	0.1	0	0.0	0	0.0	0	0.0	0	0.0	5	0.1	0	0.0	25	0.1
Greenwood	58	0.2	0	0.0	1	0.5	0	0.0	1	0.1	2	0.0	0	0.0	62	0.2
Hamilton	21	0.1	0	0.0	0	0.0	0	0.0	0	0.0	16	0.3	0	0.0	37	0.1
Harper	67	0.2	0	0.0	1	0.5	1	0.1	2	0.2	12	0.2	0	0.0	83	0.2
Harvey	350	1.3	5	0.2	2	1.1	5	0.4	3	0.3	80	1.3	0	0.0	445	1.1
Haskell	36	0.1	0	0.0	0	0.0	0	0.0	0	0.0	16	0.3	0	0.0	52	0.1
Hodgeman	19	0.1	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0	0	0.0	21	0.1
Jackson	122	0.4	0	0.0	17	9.3	0	0.0	9	1.0	8	0.1	0	0.0	156	0.4
Jefferson	189	0.7	1	0.0	0	0.0	1	0.1	3	0.3	1	0.0	0	0.0	195	0.5
Jewell	26	0.1	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	27	0.1
Johnson	5,713	20.5	390	15.3	6	3.3	397	33.8	126	13.7	681	11.1	7	41.2	7,320	18.9
Kearny	38	0.1	0	0.0	0	0.0	0	0.0	0	0.0	25	0.4	0	0.0	63	0.2
Kingman	83	0.3	1	0.0	1	0.5	2	0.2	1	0.1	2	0.0	0	0.0	90	0.2
Kiowa	35	0.1	1	0.0	0	0.0	1	0.1	0	0.0	2	0.0	0	0.0	39	0.1
Labette	233	0.8	16	0.6	2	1.1	2	0.2	8	0.9	9	0.1	0	0.0	270	0.7
Lane	20	0.1	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0	0	0.0	23	0.1
Leavenworth	785	2.8	68	2.7	2	1.1	21	1.8	22	2.4	56	0.9	1	5.9	955	2.5
Lincoln	23	0.1	0	0.0	0	0.0	1	0.1	1	0.1	0	0.0	0	0.0	25	0.1
Linn	89	0.3	0	0.0	1	0.5	0	0.0	0	0.0	1	0.0	0	0.0	91	0.2
Logan	30	0.1	0	0.0	0	0.0	1	0.1	0	0.0	2	0.0	0	0.0	33	0.1
Lyon	269	1.0	8	0.3	2	1.1	8	0.7	20	2.2	111	1.8	1	5.9	419	1.1
McPherson	290	1.0	0	0.0	1	0.5	0	0.0	0	0.0	0	0.0	0	0.0	109	0.3
Marion	108	0.4	2	0.1	1	0.5	0	0.0	3	0.3	3	0.0	0	0.0	125	0.3



Table 11. Number and Percent of Births by County of Residence by Population Group, Kansas, 2013

County	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.		TOTAL	
Marshall	116	0.4	4	0.2	1	0.5	3	0.3	5	0.5	17	0.3	0	0.0	320	0.8
Meade	55	0.2	0	0.0	0	0.0	0	0.0	0	0.0	14	0.2	0	0.0	69	0.2
Miami	285	1.0	2	0.1	0	0.0	4	0.3	3	0.3	3	0.0	0	0.0	297	0.8
Mitchell	70	0.3	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0	0	0.0	72	0.2
Montgomery	331	1.2	25	1.0	11	6.0	3	0.3	17	1.8	39	0.6	1	5.9	427	1.1
Morris	55	0.2	0	0.0	0	0.0	0	0.0	1	0.1	3	0.0	0	0.0	59	0.2
Morton	22	0.1	0	0.0	0	0.0	0	0.0	1	0.1	14	0.2	0	0.0	37	0.1
Nemaha	149	0.5	0	0.0	1	0.5	0	0.0	0	0.0	4	0.1	0	0.0	154	0.4
Neosho	191	0.7	1	0.0	0	0.0	0	0.0	1	0.1	11	0.2	0	0.0	204	0.5
Ness	25	0.1	0	0.0	0	0.0	0	0.0	0	0.0	8	0.1	0	0.0	33	0.1
Norton	49	0.2	0	0.0	1	0.5	0	0.0	0	0.0	1	0.0	0	0.0	51	0.1
Osage	143	0.5	0	0.0	0	0.0	1	0.1	4	0.4	2	0.0	0	0.0	150	0.4
Osborne	47	0.2	0	0.0	1	0.5	1	0.1	0	0.0	1	0.0	0	0.0	50	0.1
Ottawa	56	0.2	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0	0	0.0	58	0.1
Pawnee	52	0.2	0	0.0	0	0.0	1	0.1	0	0.0	10	0.2	0	0.0	63	0.2
Phillips	62	0.2	0	0.0	0	0.0	0	0.0	1	0.1	2	0.0	0	0.0	65	0.2
Pottawatomie	320	1.2	2	0.1	1	0.5	4	0.3	5	0.5	21	0.3	0	0.0	353	0.9
Pratt	106	0.4	1	0.0	0	0.0	1	0.1	0	0.0	14	0.2	0	0.0	122	0.3
Rawlins	15	0.1	0	0.0	0	0.0	0	0.0	0	0.0	7	0.1	0	0.0	22	0.1
Reno	604	2.2	12	0.5	1	0.5	5	0.4	18	2.0	102	1.7	1	5.9	743	1.9
Republic	48	0.2	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	49	0.1
Rice	107	0.4	1	0.0	0	0.0	2	0.2	2	0.2	16	0.3	0	0.0	128	0.3
Riley	722	2.6	67	2.6	0	0.0	52	4.4	43	4.7	115	1.9	0	0.0	999	2.6
Rooks	53	0.2	0	0.0	1	0.5	1	0.1	2	0.2	3	0.0	0	0.0	60	0.2
Rush	29	0.1	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	30	0.1
Russell	87	0.3	0	0.0	0	0.0	0	0.0	3	0.3	4	0.1	0	0.0	94	0.2
Saline	587	2.1	27	1.1	1	0.5	21	1.8	19	2.1	116	1.9	1	5.9	772	2.0
Scott	44	0.2	0	0.0	0	0.0	0	0.0	0	0.0	17	0.3	0	0.0	61	0.2
Sedgwick	4,811	17.3	808	31.7	23	12.6	323	27.5	168	18.2	1,353	22.0	1	5.9	7,487	19.3

Table 11. Number and Percent of Births by County of Residence by Population Group, Kansas, 2013

County	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.	TOTAL		
Seward	113	0.4	9	0.4	1	0.5	8	0.7	5	0.5	305	5.0	0	0.0	441	1.1
Shawnee	1,581	5.7	216	8.5	24	13.1	33	2.8	86	9.3	412	6.7	0	0.0	2,352	6.1
Sheridan	29	0.1	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0	0	0.0	31	0.1
Sherman	70	0.3	1	0.0	0	0.0	0	0.0	0	0.0	9	0.1	0	0.0	80	0.2
Smith	27	0.1	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	28	0.1
Stafford	40	0.1	0	0.0	0	0.0	0	0.0	0	0.0	9	0.1	0	0.0	49	0.1
Stanton	19	0.1	0	0.0	1	0.5	0	0.0	0	0.0	17	0.3	1	5.9	38	0.1
Stevens	51	0.2	0	0.0	0	0.0	0	0.0	1	0.1	47	0.8	0	0.0	99	0.3
Sumner	253	0.9	3	0.1	0	0.0	0	0.0	2	0.2	14	0.2	0	0.0	272	0.7
Thomas	83	0.3	0	0.0	0	0.0	0	0.0	2	0.2	13	0.2	0	0.0	98	0.3
Trego	30	0.1	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0	0	0.0	33	0.1
Wabaunsee	89	0.3	0	0.0	1	0.5	0	0.0	3	0.3	5	0.1	0	0.0	98	0.3
Wallace	19	0.1	0	0.0	0	0.0	1	0.1	0	0.0	3	0.0	0	0.0	23	0.1
Washington	71	0.3	0	0.0	0	0.0	1	0.1	1	0.1	6	0.1	0	0.0	79	0.2
Wichita	12	0.0	0	0.0	0	0.0	0	0.0	1	0.1	12	0.2	0	0.0	25	0.1
Wilson	103	0.4	0	0.0	1	0.5	3	0.3	2	0.2	0	0.0	0	0.0	109	0.3
Woodson	28	0.1	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	29	0.1
Wyandotte	1,052	3.8	577	22.6	10	5.5	97	8.3	114	12.4	828	13.5	0	0.0	2,678	6.9
n.s.	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Total	27,821	100.0	2,549	100.0	183	100.0	1,175	100.0	921	100.0	6,139	100.0	17	100.0	38,805	100.0

n.s. = not stated

Residence data

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

Table 12. Number and Percent of Births by Presence of Medical Risks to the Mother During Pregnancy by Population Group  
 Kansas, 2013

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	175	1.2	35	2.3	7	4.1	7	1.5	6	1.2	70	2.7	0	0.0	300	1.5
Gestational Diabetes	1,313	9.0	82	5.5	16	9.5	116	24.4	43	8.3	441	17.2	0	0.0	2,011	10.2
Pre-pregnancy Hypertension	402	2.8	65	4.3	6	3.6	13	2.7	14	2.7	49	1.9	0	0.0	549	2.8
Pre-eclampsia	1,416	9.7	121	8.1	11	6.5	33	6.9	36	6.9	244	9.5	0	0.0	1,861	9.4
Eclampsia	50	0.3	4	0.3	0	0.0	3	0.6	1	0.2	13	0.5	0	0.0	71	0.4
Previous Pre-term Birth	748	5.1	118	7.9	15	8.9	16	3.4	39	7.5	159	6.2	0	0.0	1,095	5.5
Previous Poor Pregnancy Outcome	631	4.3	65	4.3	6	3.6	25	5.3	13	2.5	105	4.1	0	0.0	845	4.3
Vaginal Bleeding	329	2.3	26	1.7	3	1.8	9	1.9	15	2.9	51	2.0	0	0.0	433	2.2
Previous C-Section	3,967	27.3	412	27.5	30	17.8	171	35.9	122	23.5	875	34.1	2	100.0	5,579	28.2
Infertility Treatment	470	3.2	11	0.7	0	0.0	19	4.0	2	0.4	28	1.1	0	0.0	530	2.7
Infections Contracted or Treated During Pregnancy*	1,030	7.1	214	14.3	17	10.1	37	7.8	59	11.4	277	10.8	0	0.0	1,634	8.3
Smoking During Pregnancy	3,988	27.4	338	22.6	57	33.7	26	5.5	168	32.4	248	9.7	0	0.0	4,825	24.4
Alcohol Use During Pregnancy	35	0.2	6	0.4	1	0.6	1	0.2	1	0.2	5	0.2	0	0.0	49	0.2
Total Births	14,554	100.0	1,497	100.0	169	100.0	476	100.0	519	100.0	2,565	100.0	2	100.0	19,782	100.0

n.s. = not stated

Residence data

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

\*Infections include: Gonorrhea, Syphilis, Herpes Simplex Virus, Chlamydia, HIV, Hepatitis B & Hepatitis C

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

Table 13. Number and Percent of Births With and Without Poor Birth Outcomes\* by Population Group, Kansas, 2013

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	4,082	14.7	569	22.3	34	18.6	176	15.0	160	17.4	839	13.7	0	0.0	5,860	15.1
No	23,739	85.3	1,980	77.7	149	81.4	999	85.0	761	82.6	5,300	86.3	17	100.0	32,945	84.9
Total	27,821	100.0	2,549	100.0	183	100.0	1,175	100.0	921	100.0	6,139	100.0	17	100.0	38,805	100.0

\*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

Table 14. Number and Percent of Births with Poor Birth Outcomes\* at Mother's Level of Education by Population Group  
 Kansas, 2013

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	32	0.8	7	1.2	0	0.0	6	3.4	10	6.3	106	12.6	0	0.0	161	2.7
9-12 Grade, No Diploma	345	8.5	98	17.2	6	17.6	10	5.7	29	18.1	221	26.3	0	0.0	709	12.1
H.S. or GED	928	22.7	198	34.8	9	26.5	33	18.8	48	30.0	267	31.8	0	0.0	1,483	25.3
Some College, No Degree	973	23.8	154	27.1	11	32.4	24	13.6	41	25.6	136	16.2	0	0.0	1,339	22.8
Associate Degree	404	9.9	46	8.1	4	11.8	11	6.3	10	6.3	35	4.2	0	0.0	510	8.7
Bachelor's Degree	948	23.2	40	7.0	4	11.8	48	27.3	15	9.4	53	6.3	0	0.0	1,108	18.9
Master's Degree	369	9.0	19	3.3	0	0.0	36	20.5	6	3.8	15	1.8	0	0.0	445	7.6
Doctorate	73	1.8	3	0.5	0	0.0	8	4.5	1	0.6	1	0.1	0	0.0	86	1.5
n.s.	10	0.2	4	0.7	0	0.0	0	0.0	0	0.0	5	0.6	0	0.0	19	0.3
Total	4,082	100.0	569	100.0	34	100.0	176	100.0	160	100.0	839	100.0	0	0.0	5,860	100.0

\*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

Table 15. Number and Percent of Births with Poor Birth Outcomes\* by Primary Payor by Population Group, Kansas, 2013

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	1,383	33.9	368	64.7	17	50.0	31	17.6	90	56.3	340	40.5	1	50.0	2,229	38.0
Private/employer Ins	2,288	56.1	123	21.6	9	26.5	122	69.3	49	30.6	225	26.8	1	50.0	2,816	48.1
Self-pay	147	3.6	26	4.6	0	0.0	18	10.2	11	6.9	216	25.7	0	0.0	418	7.1
Indian Health Service	0	0.0	0	0.0	3	8.8	0	0.0	0	0.0	0	0.0	0	0.0	3	0.1
Champus/Tricare	214	5.2	48	8.4	3	8.8	4	2.3	8	5.0	29	3.5	0	0.0	306	5.2
Other gov	18	0.4	3	0.5	2	5.9	0	0.0	1	0.6	10	1.2	0	0.0	34	0.6
Other	16	0.4	1	0.2	0	0.0	0	0.0	0	0.0	11	1.3	0	0.0	28	0.5
n.s.	16	0.4	0	0.0	0	0.0	1	0.6	1	0.6	8	1.0	0	0.0	26	0.4
<b>Total</b>	<b>4,082</b>	<b>100.0</b>	<b>569</b>	<b>100.0</b>	<b>34</b>	<b>100.0</b>	<b>176</b>	<b>100.0</b>	<b>160</b>	<b>100.0</b>	<b>839</b>	<b>100.0</b>	<b>2</b>	<b>100.0</b>	<b>5,860</b>	<b>100.0</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

Table 16. Number and Percent of Births with Poor Birth Outcomes\* by Health Preparedness Region by Population Group, Kansas, 2013

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	223	5.5	5	0.9	2	5.9	5	2.8	7	4.4	42	5.0	2	11.8	284	4.8
East Central Coalition	151	3.7	3	0.5	0	0.0	5	2.8	5	3.1	25	3.0	1	5.9	189	3.2
Ellis County	34	0.8	0	0.0	0	0.0	1	0.6	0	0.0	3	0.4	0	0.0	38	0.6
KC Mmetro Region	1,235	30.3	229	40.2	10	29.4	82	46.6	46	28.8	212	25.3	8	47.1	1,814	31.0
KS South-Central Metro Region	1,126	27.6	201	35.3	9	26.5	52	29.5	37	23.1	226	26.9	2	11.8	1,651	28.2
Lower 8 of SE Kansas	216	5.3	13	2.3	4	11.8	6	3.4	18	11.3	17	2.0	1	5.9	274	4.7
North Central Kansas	132	3.2	1	0.2	1	2.9	1	0.6	1	0.6	4	0.5	0	0.0	140	2.4
Northwest Bioterror	65	1.6	0	0.0	0	0.0	0	0.0	1	0.6	6	0.7	0	0.0	72	1.2
Northeast Corner	369	9.0	62	10.9	8	23.5	8	4.5	28	17.5	68	8.1	0	0.0	543	9.3
Rush County	7	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	0.1
South Central Coalition	51	1.2	0	0.0	0	0.0	0	0.0	0	0.0	7	0.8	0	0.0	58	1.0
South East Kansas Multi-County	47	1.2	2	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	49	0.8
Southwest Kansas Health Initiative	40	1.0	0	0.0	0	0.0	2	1.1	2	1.3	54	6.4	2	11.8	98	1.7
Southwest Surveillance	58	1.4	1	0.2	0	0.0	2	1.1	0	0.0	62	7.4	0	0.0	123	2.1
West Central Public Health	33	0.8	0	0.0	0	0.0	1	0.6	0	0.0	4	0.5	0	0.0	38	0.6
Western Pyramid	63	1.5	3	0.5	0	0.0	3	1.7	1	0.6	65	7.7	1	5.9	135	2.3
Wildcat Region	232	5.7	49	8.6	0	0.0	8	4.5	14	8.8	44	5.2	0	0.0	347	5.9
n.s.	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	4,082	100.0	569	100.0	34	100.0	176	100.0	160	100.0	839	100.0	17	100.0	5,860	100.0

\*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

Table 17. Number and Percent of Births with Poor Birth Outcomes\* by Mother's Marital Status by Population Group  
 Kansas, 2013

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	2,648	64.9	156	27.4	16	47.1	145	82.4	66	41.3	385	45.9	0	0.0	3,416	58.3
Not Married	1,433	35.1	413	72.6	18	52.9	30	17.0	94	58.8	454	54.1	0	0.0	2,442	41.7
n.s.	1	0.0	0	0.0	0	0.0	1	0.6	0	0.0	0	0.0	0	0.0	2	0.0
Total	4,082	100.0	569	100.0	34	100.0	176	100.0	160	100.0	839	100.0	0	0.0	5,860	100.0

\*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



Table 18. Number and Percent of Births with Poor Birth Outcomes\* by Adequacy of Prenatal Care by Population Group, Kansas, 2013

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	2,247	55.0	247	43.4	14	41.2	78	44.3	81	50.6	371	44.2	0	0.0	3,038	51.8
Adequate	1,253	30.7	162	28.5	10	29.4	61	34.7	38	23.8	236	28.1	0	0.0	1,760	30.0
Intermediate	140	3.4	41	7.2	1	2.9	8	4.5	9	5.6	52	6.2	0	0.0	251	4.3
Inadequate	370	9.1	109	19.2	9	26.5	24	13.6	29	18.1	168	20.0	0	0.0	709	12.1
n.s.	72	1.8	10	1.8	0	0.0	5	2.8	3	1.9	12	1.4	0	0.0	102	1.7
Total	4,082	100.0	569	100.0	34	100.0	176	100.0	160	100.0	839	100.0	0	0.0	5,860	100.0

\*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

Table 19. Number and Percent of Births with Poor Birth Outcomes\* by WIC Participation by Population Group, Kansas, 2013

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	1,361	33.3	347	61.0	17	50.0	42	23.9	89	55.6	536	63.9	1	50.0	2,392	40.8
No	2,708	66.3	222	39.0	16	47.1	133	75.6	70	43.8	298	35.5	0	0.0	3,447	58.8
n.s.	13	0.3	0	0.0	1	2.9	1	0.6	1	0.6	5	0.6	1	50.0	21	0.4
Total	4,082	100.0	569	100.0	34	100.0	176	100.0	160	100.0	839	100.0	2	100.0	5,860	100.0

\*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

Table 20. Number and Percent of Births with Poor Birth Outcomes\* by Mother's Age by Population Group, Kansas, 2013

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	0	0.0	0	0.0	0	0.0	1	0.6	2	0.2	0	0.0	5	0.1
15-17	65	1.6	16	2.8	1	2.9	3	1.7	7	4.4	36	4.3	0	0.0	128	2.2
18-19	202	4.9	59	10.4	2	5.9	4	2.3	21	13.1	78	9.3	0	0.0	366	6.2
20-24	956	23.4	204	35.9	6	17.6	19	10.8	58	36.3	251	29.9	0	0.0	1494	25.5
25-29	1288	31.6	142	25.0	11	32.4	57	32.4	42	26.3	187	22.3	0	0.0	1727	29.5
30-34	1036	25.4	86	15.1	9	26.5	54	30.7	23	14.4	169	20.1	0	0.0	1377	23.5
35-39	423	10.4	55	9.7	3	8.8	23	13.1	6	3.8	85	10.1	0	0.0	595	10.2
40-44	101	2.5	6	1.1	2	5.9	14	8.0	0	0.0	29	3.5	0	0.0	152	2.6
45 and above	9	0.2	1	0.2	0	0.0	2	1.1	2	1.3	2	0.2	0	0.0	16	0.3
n.s.	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	4,082	100.0	569	100.0	34	100.0	176	100.0	160	100.0	839	100.0	0	0.0	5,860	100.0

\*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

Table 21. Number and Percent of Births by Infant's Birth Weight in Grams by Population Group, Kansas, 2013

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	35	0.1	16	0.6	0	0.0	0	0.0	1	0.1	13	0.2	0	0.0	65	0.2
500-999	119	0.4	32	1.3	2	1.1	9	0.8	4	0.4	16	0.3	0	0.0	182	0.5
1000-1499	173	0.6	33	1.3	0	0.0	7	0.6	4	0.4	30	0.5	0	0.0	247	0.6
1500-1999	376	1.4	66	2.6	2	1.1	8	0.7	10	1.1	77	1.3	0	0.0	539	1.4
2000-2499	1,167	4.2	190	7.5	8	4.4	67	5.7	43	4.7	220	3.6	0	0.0	1,695	4.4
2500-2999	4,405	15.8	645	25.3	33	18.0	294	25.0	189	20.5	1,043	17.0	3	17.6	6,612	17.0
3000-3499	10,398	37.4	984	38.6	67	36.6	487	41.4	375	40.7	2,495	40.6	7	41.2	14,813	38.2
3500-3999	8,522	30.6	474	18.6	52	28.4	254	21.6	229	24.9	1,753	28.6	4	23.5	11,288	29.1
4000-4499	2,275	8.2	92	3.6	17	9.3	45	3.8	58	6.3	409	6.7	0	0.0	2,896	7.5
4500-4999	310	1.1	15	0.6	2	1.1	4	0.3	6	0.7	73	1.2	0	0.0	410	1.1
5000 and over	39	0.1	2	0.1	0	0.0	0	0.0	2	0.2	9	0.1	0	0.0	52	0.1
n.s.	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	3	17.6	6	0.0
All	27,821	100.0	2,549	100.0	183	100.0	1,175	100.0	921	100.0	6,139	100.0	17	100.0	38,805	100.0

n.s. = not stated

Residence data

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

## 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, 2013 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.