



Natality Report by Racial and Ethnic Population Groups, Kansas, 2012

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 2012 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 tables containing counts and percentage rates were prepared.

Table 1. Number and percent of births by population group and education level of mother, Kansas, 2012

Table 2. Number and percent of births by population group and primary payor, Kansas, 2012

Table 3. Number and percent of births by population group and health preparedness region, Kansas, 2012

Table 4. Number and percent of births by population group and mother's marital status, Kansas, 2012

Table 5. Number and percent of births by population group and adequacy of prenatal care, Kansas, 2012

Table 6. Number and percent of births by population group and number of weeks gestation, Kansas, 2012

Table 7. Number and percent of births by population group and use of WIC services, Kansas, 2012

Table 8. Mother's weight gain in pregnancy by pre-pregnancy BMI category by population group, Kansas, 2012

Table 9. Number and percent of births by population group and age of Mother, 2012

Table 10. Number and percent of births by population group and trimester prenatal care began, Kansas, 2012

Table 11. Number and percent of births by population group and county of residence, Kansas, 2012

Table 12. Number and percent of births by population group and presence of medical risks to the mother during pregnancy, Kansas, 2012

Table 13. Number and percent of births by population group with and without poor outcomes, Kansas, 2012

Table 14. Number and percent of births with poor outcomes by population group and level of education attained, Kansas, 2012

Table 15. Number and percent of births with poor outcomes by population group and primary payor, Kansas, 2012

Table 16. Number and percent of births with poor outcomes by population group and health preparedness region, Kansas, 2012

Table 17. Number and percent of births with poor outcomes by population group and mother's marital status, Kansas, 2012

Table 18. Number and percent of births with poor outcomes by population group and adequacy of prenatal care, Kansas, 2012

Table 19. Number and percent of births with poor outcomes by population group and use of WIC services, Kansas, 2012

Table 20. Number and percent of births with poor outcomes by population group and age of mother, Kansas, 2012

Table 21. Number and percent of births with poor outcomes by population group and infant's birth weight in grams

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, 2012

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	266	0.9	32	1.2	3	1.5	39	3.2	44	4.8	825	13.1	0	0.0	1,209	3.0
9-12 Grade, No Diploma	2,219	7.7	441	16.4	43	21.9	73	6.0	128	14.0	1,761	28.0	5	22.7	4,670	11.6
H.S. or GED	5,962	20.6	887	33.1	63	32.1	191	15.8	255	27.8	1,801	28.7	5	22.7	9,164	22.7
Some College, No Degree	6,918	23.9	862	32.1	50	25.5	177	14.7	231	25.2	1,073	17.1	2	9.1	9,313	23.1
Associate Degree	2,741	9.5	174	6.5	11	5.6	66	5.5	58	6.3	265	4.2	1	4.5	3,316	8.2
Bachelor's Degree	7,467	25.8	187	7.0	21	10.7	368	30.5	126	13.8	379	6.0	2	9.1	8,550	21.2
Master's Degree	2,680	9.2	75	2.8	4	2.0	204	16.9	55	6.0	109	1.7	0	0.0	3,127	7.8
Doctorate	666	2.3	18	0.7	0	0.0	87	7.2	13	1.4	26	0.4	0	0.0	810	2.0
n.s.	76	0.3	6	0.2	1	0.5	2	0.2	6	0.7	47	0.7	7	31.8	145	0.4
Total	28,995	100.0	2,682	100.0	196	100.0	1,207	100.0	916	100.0	6,286	100.0	22	100.0	40,304	100.0

n.s. = not stated

Residence data

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

Created: November 5, 2013

Table 2. Number and Percent of Births by Population Group and Primary Payor, Kansas, 2012

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	8,295	28.6	1,732	64.6	110	56.1	205	17.0	435	47.5	2,463	39.2	9	40.9	13,249	32.9
Private/employer Ins	17,590	60.7	578	21.6	45	23.0	823	68.2	302	33.0	1,672	26.6	2	9.1	21,012	52.1
Self-pay	1,070	3.7	117	4.4	9	4.6	99	8.2	80	8.7	1,671	26.6	7	31.8	3,053	7.6
Indian Health Service	5	0.0	0	0.0	17	8.7	0	0.0	0	0.0	3	0.0	0	0.0	25	0.1
Champus/Tricare	1,658	5.7	230	8.6	7	3.6	72	6.0	88	9.6	264	4.2	0	0.0	2,319	5.8
Other gov	177	0.6	12	0.4	6	3.1	5	0.4	7	0.8	81	1.3	0	0.0	288	0.7
Other	105	0.4	4	0.1	2	1.0	2	0.2	1	0.1	37	0.6	0	0.0	151	0.4
Unknown	95	0.3	9	0.3	0	0.0	1	0.1	3	0.3	95	1.5	4	18.2	207	0.5
Total	28,995	100.0	2,682	100.0	196	100.0	1,207	100.0	916	100.0	6,286	100.0	22	100.0	40,304	100.0

n.s. = not stated

Residence data

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

Created: November 5, 2013

Table 3. Number and Percent of Births by Population Group and Health Preparedness Region, Kansas, 2012

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	1,382	4.8	39	1.5	2	1.0	23	1.9	40	4.4	273	4.3	1	4.5	1,760	4.4
East Central Coalition	1,052	3.6	6	0.2	1	0.5	19	1.6	21	2.3	149	2.4	1	4.5	1,249	3.1
Ellis County	356	1.2	2	0.1	0	0.0	2	0.2	4	0.4	42	0.7	0	0.0	406	1.0
KC Mmetro Region	9,080	31.3	1,158	43.2	39	19.9	560	46.4	317	34.6	1737	27.6	5	22.7	12,896	32.0
South-Central Metro Region	7,538	26.0	869	32.4	56	28.6	378	31.3	220	24.0	1680	26.7	1	4.5	10,742	26.7
Lower 8 of SE Kansas	1,693	5.8	52	1.9	22	11.2	16	1.3	41	4.5	115	1.8	0	0.0	1,939	4.8
North Central Kansas	922	3.2	6	0.2	3	1.5	5	0.4	15	1.6	36	0.6	1	4.5	988	2.5
Northwest Bioterror	395	1.4	0	0.0	2	1.0	4	0.3	2	0.2	29	0.5	0	0.0	432	1.1
Northeast Corner	2,614	9.0	246	9.2	57	29.1	43	3.6	117	12.8	395	6.3	6	27.3	3,478	8.6
Rush County	29	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	9.1	31	0.1
South Central Coalition	413	1.4	0	0.0	1	0.5	1	0.1	5	0.5	35	0.6	0	0.0	455	1.1
South East Kansas Multi-County	441	1.5	11	0.4	2	1.0	4	0.3	5	0.5	7	0.1	0	0.0	470	1.2
Southwest Kansas Health Initiative	243	0.8	11	0.4	3	1.5	7	0.6	7	0.8	473	7.5	0	0.0	744	1.8
Southwest Surrveillance	374	1.3	13	0.5	0	0.0	4	0.3	5	0.5	525	8.4	0	0.0	921	2.3
West Central Public Health	207	0.7	0	0.0	0	0.0	1	0.1	2	0.2	23	0.4	0	0.0	233	0.6
Western Pyramid	427	1.5	9	0.3	0	0.0	25	2.1	19	2.1	470	7.5	3	13.6	953	2.4
Wildcat Region	1,829	6.3	260	9.7	8	4.1	115	9.5	96	10.5	297	4.7	2	9.1	2,607	6.5
Total	28,995	100.0	2,682	100.0	196	100.0	1,207	100.0	916	100.0	6,286	100.0	22	100.0	40,304	100.0

n.s. = not stated

Residence data

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

Created: November 5, 2013

Table 4. Number and Percent of Births by Population Group and Mother's Marital Status, Kansas, 2012

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	20,126	69.4	765	28.5	68	34.7	1,034	85.7	497	54.3	2,977	47.4	14	63.6	25,481	63.2
Not Married	8,857	30.5	1,916	71.4	128	65.3	173	14.3	418	45.6	3,306	52.6	7	31.8	14,805	36.7
Unknown	12	0.0	1	0.0	0	0.0	0	0.0	1	0.1	3	0.0	1	4.5	18	0.0
Total	28,995	100.0	2,682	100.0	196	100.0	1,207	100.0	916	100.0	6,286	100.0	22	100.0	40,304	100.0

n.s. = not stated

Residence data

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

Created: November 5, 2013

Table 5. Number and Percent of Births by Population Group and Adequacy of Prenatal Care, Kansas, 2012

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	9,507	32.8	759	28.3	53	27.0	338	28.0	233	25.4	1,491	23.7	3	13.6	12,384	30.7
Adequate	15,044	51.9	1,136	42.4	79	40.3	614	50.9	416	45.4	2,713	43.2	7	31.8	20,009	49.6
Intermediate	1,431	4.9	241	9.0	18	9.2	79	6.5	81	8.8	686	10.9	4	18.2	2,540	6.3
Inadequate	2,549	8.8	480	17.9	41	20.9	157	13.0	148	16.2	1,246	19.8	5	22.7	4,626	11.5
n.s.	464	1.6	66	2.5	5	2.6	19	1.6	38	4.1	150	2.4	3	13.6	745	1.8
Total	28,995	100.0	2,682	100.0	196	100.0	1,207	100.0	916	100.0	6,286	100.0	22	100.0	40,304	100.0

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 6. Number and Percent of Births by Population Group and Number of Weeks Gestation, Kansas, 2012

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	9	0.0	7	0.3	0	0.0	0	0.0	1	0.1	4	0.1	0	0.0	21	0.1
20-22	19	0.1	11	0.4	0	0.0	0	0.0	1	0.1	12	0.2	0	0.0	43	0.1
23-27	128	0.4	32	1.2	0	0.0	5	0.4	10	1.1	34	0.5	0	0.0	209	0.5
28-31	233	0.8	52	1.9	2	1.0	13	1.1	5	0.5	51	0.8	0	0.0	356	0.9
32-35	1,112	3.8	130	4.8	11	5.6	55	4.6	42	4.6	225	3.6	0	0.0	1,575	3.9
36	998	3.4	118	4.4	9	4.6	47	3.9	37	4.0	216	3.4	0	0.0	1,425	3.5
37-41	26,376	91.0	2,329	86.8	173	88.3	1,082	89.6	813	88.8	5,716	90.9	21	95.5	36,510	90.6
42 & over	103	0.4	3	0.1	1	0.5	4	0.3	6	0.7	26	0.4	0	0.0	143	0.4
n.s.	17	0.1	0	0.0	0	0.0	1	0.1	1	0.1	2	0.0	1	4.5	22	0.1
Total	28,995	100.0	2,682	100.0	196	100.0	1,207	100.0	916	100.0	6,286	100.0	22	100.0	40,304	100.0

n.s. = not stated

Residence data

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

Created: November 6, 2013

Table 7. Number and Percent of Births by Population Group and Use of WIC Services, Kansas, 2012

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	8,696	30.0	1,708	63.7	121	61.7	293	24.3	477	52.1	4,275	68.0	7	31.8	15,577	38.6
No	20,212	69.7	970	36.2	75	38.3	911	75.5	437	47.7	1,978	31.5	11	50.0	24,594	61.0
Unknown	87	0.3	4	0.1	0	0.0	3	0.2	2	0.2	33	0.5	4	18.2	133	0.3
Total	28,995	100.0	2,682	100.0	196	100.0	1,207	100.0	916	100.0	6,286	100.0	22	100.0	40,304	100.0

n.s. = not stated

Residence data

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

Created: November 6, 2013

Table 8. Mother's Weight Gain in Pregnancy by Prepregnancy BMI Category* by Population Group, Kansas, 2012

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	1,053	3.6	94	3.5	5	2.6	99	8.2	47	5.1	186	3.0	0	0.0	1,484	3.7
Recommended	13,727	47.3	996	37.1	56	28.6	780	64.6	409	44.7	2,489	39.6	8	36.4	18,465	45.8
More than recommended	13,992	48.3	1,564	58.3	133	67.9	319	26.4	452	49.3	3,523	56.0	8	36.4	19,991	49.6
Unknown	223	0.8	28	1.0	2	1.0	9	0.7	8	0.9	88	1.4	6	27.3	364	0.9
Total	28,995	100.0	2,682	100.0	196	100.0	1,207	100.0	916	100.0	6,286	100.0	22	100.0	40,304	100.0

n.s. = not stated

Residence data

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

Created: November 1, 2013

*See Technical Notes and Definitions

Table 9. Number and Percent of Births by Population Group and Age of Mother, Kansas, 2012

Mother's Age	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	10	0.0	7	0.3	1	0.5	0	0.0	0	0.0	10	0.2	0	0.0	28	0.1
15-17	422	1.5	83	3.1	7	3.6	5	0.4	34	3.7	282	4.5	0	0.0	833	2.1
18-19	1,483	5.1	255	9.5	13	6.6	25	2.1	91	9.9	602	9.6	1	4.5	2,470	6.1
20-24	6,914	23.8	996	37.1	61	31.1	143	11.8	268	29.3	1,830	29.1	7	31.8	10,219	25.4
25-29	9,696	33.4	670	25.0	55	28.1	391	32.4	270	29.5	1,645	26.2	4	18.2	12,731	31.6
30-34	7,312	25.2	439	16.4	38	19.4	379	31.4	171	18.7	1,147	18.2	6	27.3	9,492	23.6
35-39	2,631	9.1	192	7.2	20	10.2	210	17.4	66	7.2	616	9.8	2	9.1	3,737	9.3
40-44	498	1.7	36	1.3	1	0.5	51	4.2	16	1.7	145	2.3	0	0.0	747	1.9
45 and above	29	0.1	3	0.1	0	0.0	3	0.2	0	0.0	9	0.1	2	9.1	46	0.1
Unknown	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Total	28,995	100.0	2,682	100.0	196	100.0	1,207	100.0	916	100.0	6,286	100.0	22	100.0	40,304	100.0

n.s. = not stated

Residence data

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

Created: November 6, 2013

Table 10. Number and Percent of Births by Population Group and Trimester Prenatal Care Began, Kansas, 2012

Prenatal Care Began	White NH		Black NH		American Indian-Alaska Native NH		ASIAN-PI		Multi Race-Other NH		Hispanic-Any Race		n.s.		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
First Trimester	23,778	82.0	1,829	68.2	130	66.3	936	77.5	646	70.5	4,126	65.6	12	54.5	31,457	78.0
Second Trimester	4,144	14.3	623	23.2	50	25.5	201	16.7	198	21.6	1,640	26.1	4	18.2	6,860	17.0
Third Trimester	675	2.3	138	5.1	11	5.6	45	3.7	43	4.7	319	5.1	2	9.1	1,233	3.1
No Prenatal Care	155	0.5	56	2.1	4	2.0	14	1.2	9	1.0	113	1.8	1	4.5	352	0.9
Unknown	243	0.8	36	1.3	1	0.5	11	0.9	20	2.2	88	1.4	3	13.6	402	1.0
Total	28,995	100.0	2,682	100.0	196	100.0	1,207	100.0	916	100.0	6,286	100.0	22	100.0	40,304	100.0

n.s. = not stated

Residence data

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

Created: November 7, 2013

Table 11. Number and Percent of Births by Population Group and County of Residence, Kansas, 2012

County	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.	TOTAL		
Allen	144	0.5	4	0.1	1	0.5	1	0.1	2	0.2	2	0.0	0	0.0	154	0.4
Anderson	84	0.3	0	0.0	1	0.5	0	0.0	0	0.0	0	0.0	0	0.0	85	0.2
Atchison	184	0.6	12	0.4	0	0.0	1	0.1	3	0.3	4	0.1	0	0.0	204	0.5
Barber	64	0.2	0	0.0	1	0.5	0	0.0	0	0.0	1	0.0	0	0.0	66	0.2
Barton	305	1.1	2	0.1	0	0.0	1	0.1	5	0.5	87	1.4	1	4.5	401	1.0
Bourbon	186	0.6	7	0.3	0	0.0	3	0.2	3	0.3	4	0.1	0	0.0	203	0.5
Brown	104	0.4	1	0.0	16	8.2	3	0.2	3	0.3	9	0.1	0	0.0	136	0.3
Butler	728	2.5	6	0.2	3	1.5	13	1.1	14	1.5	37	0.6	0	0.0	801	2.0
Chase	24	0.1	0	0.0	0	0.0	0	0.0	1	0.1	1	0.0	0	0.0	26	0.1
Chautauqua	36	0.1	0	0.0	1	0.5	0	0.0	2	0.2	1	0.0	0	0.0	40	0.1
Cherokee	199	0.7	1	0.0	5	2.6	2	0.2	10	1.1	10	0.2	0	0.0	227	0.6
Cheyenne	22	0.1	0	0.0	0	0.0	0	0.0	1	0.1	3	0.0	0	0.0	26	0.1
Clark	25	0.1	1	0.0	0	0.0	1	0.1	2	0.2	1	0.0	0	0.0	30	0.1
Clay	96	0.3	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	97	0.2
Cloud	121	0.4	2	0.1	2	1.0	2	0.2	4	0.4	4	0.1	0	0.0	135	0.3
Coffey	72	0.2	0	0.0	0	0.0	3	0.2	2	0.2	5	0.1	0	0.0	82	0.2
Comanche	21	0.1	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0	0	0.0	23	0.1
Cowley	365	1.3	6	0.2	10	5.1	5	0.4	10	1.1	60	1.0	0	0.0	456	1.1
Crawford	439	1.5	6	0.2	0	0.0	6	0.5	12	1.3	30	0.5	0	0.0	493	1.2
Decatur	35	0.1	0	0.0	0	0.0	0	0.0	1	0.1	1	0.0	0	0.0	37	0.1
Dickinson	186	0.6	1	0.0	0	0.0	1	0.1	6	0.7	10	0.2	1	4.5	205	0.5
Doniphan	81	0.3	1	0.0	0	0.0	0	0.0	2	0.2	1	0.0	0	0.0	85	0.2
Douglas	979	3.4	43	1.6	29	14.8	67	5.6	48	5.2	95	1.5	1	4.5	1262	3.1
Edwards	25	0.1	0	0.0	0	0.0	0	0.0	1	0.1	13	0.2	0	0.0	39	0.1
Elk	24	0.1	0	0.0	1	0.5	0	0.0	0	0.0	2	0.0	0	0.0	27	0.1
Ellis	356	1.2	2	0.1	0	0.0	2	0.2	4	0.4	42	0.7	0	0.0	406	1.0
Ellsworth	63	0.2	0	0.0	0	0.0	1	0.1	1	0.1	2	0.0	0	0.0	67	0.2
Finney	253	0.9	9	0.3	0	0.0	24	2.0	17	1.9	398	6.3	2	9.1	703	1.7
Ford	184	0.6	12	0.4	0	0.0	3	0.2	3	0.3	471	7.5	0	0.0	673	1.7

Table 11. Number and Percent of Births by Population Group and County of Residence, Kansas, 2012

County	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.		TOTAL	
Franklin	305	1.1	0	0.0	0	0.0	3	0.2	3	0.3	13	0.2	0	0.0	324	0.8
Geary	633	2.2	176	6.6	4	2.0	46	3.8	47	5.1	154	2.4	0	0.0	1060	2.6
Gove	30	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	30	0.1
Graham	24	0.1	0	0.0	1	0.5	0	0.0	0	0.0	4	0.1	0	0.0	29	0.1
Grant	49	0.2	0	0.0	0	0.0	1	0.1	1	0.1	61	1.0	0	0.0	112	0.3
Gray	73	0.3	0	0.0	0	0.0	0	0.0	0	0.0	14	0.2	0	0.0	87	0.2
Greeley	13	0.0	0	0.0	0	0.0	0	0.0	1	0.1	5	0.1	0	0.0	19	0.0
Greenwood	56	0.2	0	0.0	0	0.0	0	0.0	1	0.1	2	0.0	0	0.0	59	0.1
Hamilton	25	0.1	0	0.0	0	0.0	0	0.0	0	0.0	16	0.3	0	0.0	41	0.1
Harper	59	0.2	0	0.0	0	0.0	0	0.0	1	0.1	6	0.1	0	0.0	66	0.2
Harvey	369	1.3	3	0.1	2	1.0	5	0.4	11	1.2	73	1.2	0	0.0	463	1.1
Haskell	37	0.1	0	0.0	0	0.0	0	0.0	0	0.0	21	0.3	0	0.0	58	0.1
Hodgeman	26	0.1	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0	0	0.0	28	0.1
Jackson	135	0.5	1	0.0	18	9.2	1	0.1	5	0.5	16	0.3	0	0.0	176	0.4
Jefferson	190	0.7	0	0.0	0	0.0	0	0.0	4	0.4	2	0.0	0	0.0	196	0.5
Jewell	31	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	31	0.1
Johnson	5791	20.0	386	14.4	5	2.6	386	32.0	139	15.2	729	11.6	1	4.5	7437	18.5
Kearny	35	0.1	0	0.0	0	0.0	1	0.1	0	0.0	19	0.3	0	0.0	55	0.1
Kingman	80	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	80	0.2
Kiowa	30	0.1	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0	0	0.0	32	0.1
Labette	268	0.9	13	0.5	1	0.5	1	0.1	3	0.3	11	0.2	0	0.0	297	0.7
Lane	20	0.1	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0	0	0.0	22	0.1
Leavenworth	773	2.7	74	2.8	1	0.5	16	1.3	29	3.2	72	1.1	1	4.5	966	2.4
Lincoln	33	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	33	0.1
Linn	96	0.3	0	0.0	1	0.5	0	0.0	0	0.0	0	0.0	0	0.0	97	0.2
Logan	30	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	30	0.1
Lyon	275	0.9	6	0.2	1	0.5	11	0.9	13	1.4	115	1.8	0	0.0	421	1.0
McPherson	100	0.3	2	0.1	0	0.0	1	0.1	3	0.3	6	0.1	0	0.0	112	0.3
Marion	120	0.4	1	0.0	0	0.0	0	0.0	2	0.2	1	0.0	0	0.0	124	0.3

Table 11. Number and Percent of Births by Population Group and County of Residence, Kansas, 2012

County	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.		TOTAL	
Marshall	330	1.1	4	0.1	0	0.0	6	0.5	9	1.0	17	0.3	0	0.0	366	0.9
Meade	29	0.1	0	0.0	0	0.0	0	0.0	0	0.0	16	0.3	0	0.0	45	0.1
Miami	342	1.2	3	0.1	1	0.5	0	0.0	2	0.2	16	0.3	0	0.0	364	0.9
Mitchell	69	0.2	0	0.0	0	0.0	0	0.0	1	0.1	4	0.1	0	0.0	74	0.2
Montgomery	394	1.4	32	1.2	14	7.1	5	0.4	10	1.1	47	0.7	0	0.0	502	1.2
Morris	69	0.2	0	0.0	0	0.0	1	0.1	0	0.0	3	0.0	0	0.0	73	0.2
Morton	37	0.1	0	0.0	0	0.0	0	0.0	0	0.0	15	0.2	0	0.0	52	0.1
Nemaha	122	0.4	0	0.0	0	0.0	0	0.0	2	0.2	1	0.0	1	4.5	126	0.3
Neosho	214	0.7	0	0.0	0	0.0	2	0.2	1	0.1	13	0.2	0	0.0	230	0.6
Ness	33	0.1	0	0.0	0	0.0	0	0.0	0	0.0	8	0.1	0	0.0	41	0.1
Norton	48	0.2	0	0.0	0	0.0	0	0.0	0	0.0	5	0.1	0	0.0	53	0.1
Osage	152	0.5	0	0.0	0	0.0	0	0.0	1	0.1	4	0.1	0	0.0	157	0.4
Osborne	35	0.1	0	0.0	0	0.0	0	0.0	1	0.1	1	0.0	0	0.0	37	0.1
Ottawa	67	0.2	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	68	0.2
Pawnee	60	0.2	2	0.1	0	0.0	0	0.0	2	0.2	4	0.1	0	0.0	68	0.2
Phillips	68	0.2	0	0.0	1	0.5	2	0.2	0	0.0	3	0.0	0	0.0	74	0.2
Pottawatomie	330	1.1	1	0.0	2	1.0	6	0.5	11	1.2	19	0.3	1	4.5	370	0.9
Pratt	134	0.5	0	0.0	0	0.0	1	0.1	3	0.3	11	0.2	0	0.0	149	0.4
Rawlins	29	0.1	0	0.0	0	0.0	0	0.0	0	0.0	4	0.1	0	0.0	33	0.1
Reno	628	2.2	13	0.5	2	1.0	5	0.4	13	1.4	81	1.3	0	0.0	742	1.8
Republic	47	0.2	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	48	0.1
Rice	88	0.3	1	0.0	1	0.5	0	0.0	3	0.3	26	0.4	0	0.0	119	0.3
Riley	866	3.0	83	3.1	2	1.0	63	5.2	38	4.1	124	2.0	1	4.5	1177	2.9
Rooks	60	0.2	0	0.0	0	0.0	1	0.1	0	0.0	1	0.0	0	0.0	62	0.2
Rush	29	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	9.1	31	0.1
Russell	77	0.3	2	0.1	1	0.5	0	0.0	1	0.1	4	0.1	0	0.0	85	0.2
Saline	564	1.9	30	1.1	1	0.5	16	1.3	20	2.2	135	2.1	0	0.0	766	1.9
Scott	42	0.1	0	0.0	0	0.0	0	0.0	0	0.0	19	0.3	1	4.5	62	0.2
Sedgwick	5090	17.6	837	31.2	38	19.4	347	28.7	168	18.3	1408	22.4	1	4.5	7889	19.6

Table 11. Number and Percent of Births by Population Group and County of Residence, Kansas, 2012

County	White NH		Black NH		American Indian- Alaska Native NH		Asian-PI NH		Multi Race- Other NH		Hispanic-Any Race		n.s.		TOTAL	
Seward	94	0.3	11	0.4	2	1.0	6	0.5	6	0.7	343	5.5	0	0.0	462	1.1
Shawnee	1678	5.8	230	8.6	23	11.7	38	3.1	96	10.5	361	5.7	5	22.7	2431	6.0
Sheridan	25	0.1	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	26	0.1
Sherman	67	0.2	0	0.0	0	0.0	1	0.1	1	0.1	13	0.2	0	0.0	82	0.2
Smith	36	0.1	1	0.0	0	0.0	0	0.0	1	0.1	2	0.0	0	0.0	40	0.1
Stafford	35	0.1	0	0.0	0	0.0	0	0.0	1	0.1	4	0.1	0	0.0	40	0.1
Stanton	15	0.1	0	0.0	0	0.0	0	0.0	0	0.0	14	0.2	0	0.0	29	0.1
Stevens	48	0.2	0	0.0	1	0.5	0	0.0	0	0.0	40	0.6	0	0.0	89	0.2
Sumner	258	0.9	2	0.1	1	0.5	2	0.2	1	0.1	15	0.2	0	0.0	279	0.7
Thomas	109	0.4	0	0.0	0	0.0	1	0.1	0	0.0	8	0.1	0	0.0	118	0.3
Trego	22	0.1	0	0.0	0	0.0	0	0.0	1	0.1	1	0.0	0	0.0	24	0.1
Wabaunsee	99	0.3	0	0.0	0	0.0	1	0.1	0	0.0	6	0.1	1	4.5	107	0.3
Wallace	19	0.1	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	20	0.0
Washington	61	0.2	0	0.0	0	0.0	1	0.1	0	0.0	6	0.1	0	0.0	68	0.2
Wichita	20	0.1	0	0.0	0	0.0	0	0.0	1	0.1	10	0.2	0	0.0	31	0.1
Wilson	119	0.4	0	0.0	0	0.0	0	0.0	3	0.3	1	0.0	0	0.0	123	0.3
Woodson	27	0.1	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	28	0.1
Wyandotte	1099	3.8	652	24.3	2	1.0	91	7.5	99	10.8	825	13.1	2	9.1	2770	6.9
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	28,995	100.0	2,682	100.0	196	100.0	1,207	100.0	916	100.0	6,286	100.0	22	100.0	40,304	100.0

n.s. = not stated

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 Presence of Medical Risks to the Mother During Pregnancy, Kansas, 2012

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	195	1.3	27	1.7	4	2.5	3	0.6	8	1.6	57	2.2	0	0.0	304	1.5
Gestational Diabetes	1,349	8.8	103	6.4	31	19.4	116	24.8	47	9.6	446	17.1	1	12.5	2,093	10.1
Pre-pregnancy Hypertension	370	2.4	73	4.5	5	3.1	6	1.3	11	2.3	51	2.0	0	0.0	516	2.5
Pre-eclampsia	1,480	9.7	130	8.1	11	6.9	45	9.6	41	8.4	235	9.0	0	0.0	1,942	9.4
Eclampsia	44	0.3	7	0.4	1	0.6	0	0.0	1	0.2	3	0.1	0	0.0	56	0.3
Previous Pre-term Birth	832	5.4	103	6.4	8	5.0	22	4.7	32	6.6	191	7.3	1	12.5	1,189	5.8
Previous Poor Pregnancy Outcome	527	3.4	52	3.2	4	2.5	19	4.1	14	2.9	97	3.7	0	0.0	713	3.5
Vaginal Bleeding	398	2.6	33	2.0	3	1.9	15	3.2	13	2.7	63	2.4	0	0.0	525	2.5
Previous C-Section	4,067	26.6	399	24.7	31	19.4	128	27.4	104	21.3	883	33.9	3	37.5	5,615	27.2
Infertility Treatment	494	3.2	10	0.6	0	0.0	28	6.0	4	0.8	24	0.9	0	0.0	560	2.7
Infections Contracted or Treated During Pregnancy*	1,009	6.6	237	14.7	17	10.6	50	10.7	58	11.9	228	8.8	0	0.0	1,599	7.7
Smoking During Pregnancy	4,510	29.4	431	26.7	45	28.1	35	7.5	155	31.8	315	12.1	3	37.5	5,494	26.6
Alcohol Use During Pregnancy	42	0.3	9	0.6	0	0.0	0	0.0	0	0.0	9	0.3	0	0.0	60	0.3
Total Births	15,317	100.0	1,614	100.0	160	100.0	467	100.0	488	100.0	2,602	100.0	8	100.0	20,666	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

Created: November 7, 2013

Table 13. Number and Percent of Births by Population Group with and without Poor Outcomes*, Kansas, 2012

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	%	
Yes	4,508	15.5	664	24.8	35	17.9	218	18.1	177	19.3	973	15.5	2	9.1	6,577	16.3
No	24,487	84.5	2,018	75.2	161	82.1	989	81.9	739	80.7	5,313	84.5	20	90.9	33,727	83.7
Total	28,995	100.0	2,682	100.0	196	100.0	1,207	100.0	916	100.0	6,286	100.0	22	100.0	40,304	100.0

*See Technical Notes for poor outcomes

n.s. = not stated

Residence data

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

Created: November 7, 2013

Table 14. Number and Percent of Births with Poor Outcomes* by Population Group and Level of Education Attained, Kansas, 2012

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	31	0.7	5	0.8	2	5.7	10	4.6	11	6.2	115	11.8	0	0.0	174	2.6
9-12 Grade, No Diploma	422	9.4	117	17.6	8	22.9	15	6.9	19	10.7	256	26.3	0	0.0	837	12.7
H.S. or GED	991	22.0	220	33.1	7	20.0	32	14.7	63	35.6	282	29.0	0	0.0	1,595	24.3
Some College, No Degree	1,141	25.3	230	34.6	13	37.1	32	14.7	41	23.2	195	20.0	1	50.0	1,653	25.1
Associate Degree	416	9.2	43	6.5	0	0.0	15	6.9	14	7.9	46	4.7	0	0.0	534	8.1
Bachelor's Degree	1,020	22.6	30	4.5	5	14.3	55	25.2	23	13.0	55	5.7	0	0.0	1,188	18.1
Master's Degree	352	7.8	14	2.1	0	0.0	39	17.9	6	3.4	16	1.6	0	0.0	427	6.5
Doctorate	117	2.6	4	0.6	0	0.0	20	9.2	0	0.0	0	0.0	0	0.0	141	2.1
n.s.	18	0.4	1	0.2	0	0.0	0	0.0	0	0.0	8	0.8	1	50.0	28	0.4
Total	4,508	100.0	664	100.0	35	100.0	218	100.0	177	100.0	973	100.0	2	100.0	6,577	100.0

*See Technical Notes for poor outcomes

n.s. = not stated

Residence data

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

Created: November 21, 2013

Table 15. Number and Percent of Births with Poor Outcomes* by Population Group and Primary Payor, Kansas, 2012

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	1368	30.3	418	63.0	17	48.6	44	20.2	89	50.3	379	39.0	1	50.0	2,316	35.2
Private/employer Ins	2466	54.7	111	16.7	6	17.1	139	63.8	43	24.3	226	23.2	1	50.0	2,992	45.5
Self-pay	145	3.2	24	3.6	3	8.6	13	6.0	19	10.7	244	25.1	0	0.0	448	6.8
Indian Health Service	1	0.0	0	0.0	4	11.4	0	0.0	0	0.0	0	0.0	0	0.0	5	0.1
Champus/Tricare	473	10.5	106	16.0	4	11.4	19	8.7	25	14.1	96	9.9	0	0.0	723	11.0
Other gov	30	0.7	2	0.3	1	2.9	2	0.9	0	0.0	13	1.3	0	0.0	48	0.7
Other	12	0.3	2	0.3	0	0.0	0	0.0	0	0.0	3	0.3	0	0.0	17	0.3
n.s.	13	0.3	1	0.2	0	0.0	1	0.5	1	0.6	12	1.2	0	0.0	28	0.4
Total	4508	100.0	664	100.0	35	100.0	218	100.0	177	100.0	973	100.0	2	100.0	6,577	100.0

*See Technical Notes for poor outcomes

n.s. = not stated

Residence data

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

Created: November 7, 2013

Table 16. Number and Percent of Births with Poor Outcomes* by Population Group and Health Preparedness Region, Kansas, 2012

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	209	4.6	8	1.2	0	0.0	5	2.3	5	2.8	35	3.6	0	0.0	262	4.0
East Central Coalition	157	3.5	1	0.2	0	0.0	3	1.4	5	2.8	26	2.7	0	0.0	192	2.9
Ellis County	41	0.9	0	0.0	0	0.0	0	0.0	0	0.0	5	0.5	0	0.0	46	0.7
KC Mmetro Region	1306	29.0	258	38.9	5	14.3	95	43.6	49	27.7	225	23.1	0	0.0	1,938	29.5
Lower 8 of SE Kansas	1135	25.2	200	30.1	8	22.9	66	30.3	40	22.6	250	25.7	0	0.0	1,699	25.8
North Central Kansas	277	6.1	5	0.8	7	20.0	6	2.8	8	4.5	18	1.8	0	0.0	321	4.9
Northeast Corner	154	3.4	2	0.3	0	0.0	2	0.9	2	1.1	8	0.8	0	0.0	168	2.6
Northwest Bioterror	63	1.4	0	0.0	1	2.9	0	0.0	0	0.0	4	0.4	0	0.0	68	1.0
Rush County	406	9.0	69	10.4	9	25.7	11	5.0	23	13.0	75	7.7	1	50.0	594	9.0
South Central Coalition	4	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	50.0	5	0.1
South East Kansas Multi-County	44	1.0	0	0.0	0	0.0	0	0.0	1	0.6	5	0.5	0	0.0	50	0.8
South-Central Metro Region	67	1.5	3	0.5	0	0.0	0	0.0	3	1.7	1	0.1	0	0.0	74	1.1
Southwest Kansas Health Initiative	25	0.6	3	0.5	0	0.0	2	0.9	5	2.8	62	6.4	0	0.0	97	1.5
Southwest Surveillance	48	1.1	3	0.5	0	0.0	0	0.0	2	1.1	68	7.0	0	0.0	121	1.8
West Central Public Health	28	0.6	0	0.0	0	0.0	0	0.0	1	0.6	3	0.3	0	0.0	32	0.5
Western Pyramid	60	1.3	2	0.3	0	0.0	4	1.8	2	1.1	83	8.5	0	0.0	151	2.3
Wildcat Region	484	10.7	110	16.6	5	14.3	24	11.0	31	17.5	105	10.8	0	0.0	759	11.5
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	4,508	100.0	664	100.0	35	100.0	218	100.0	177	100.0	973	100.0	2	100.0	6,577	100.0

*See Technical Notes for poor outcomes

n.s. = not stated

Residence data

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

Created: November 21, 2013

Table 16. Number and Percent of Births with Poor Outcomes* by Population Group and Health Preparedness Region, Kansas, 2012

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	209	4.6	8	1.2	0	0.0	5	2.3	5	2.8	35	3.6	0	0.0	262	4.0
East Central Coalition	157	3.5	1	0.2	0	0.0	3	1.4	5	2.8	26	2.7	0	0.0	192	2.9
Ellis County	41	0.9	0	0.0	0	0.0	0	0.0	0	0.0	5	0.5	0	0.0	46	0.7
KC Mmetro Region	1306	29.0	258	38.9	5	14.3	95	43.6	49	27.7	225	23.1	0	0.0	1,938	29.5
Lower 8 of SE Kansas	277	6.1	5	0.8	7	20.0	6	2.8	8	4.5	18	1.8	0	0.0	321	4.9
North Central Kansas	154	3.4	2	0.3	0	0.0	2	0.9	2	1.1	8	0.8	0	0.0	168	2.6
Northeast Corner	406	9.0	69	10.4	9	25.7	11	5.0	23	13.0	75	7.7	1	50.0	594	9.0
Northwest Bioterror	63	1.4	0	0.0	1	2.9	0	0.0	0	0.0	4	0.4	0	0.0	68	1.0
Rush County	4	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	50.0	5	0.1
South Central Coalition	44	1.0	0	0.0	0	0.0	0	0.0	1	0.6	5	0.5	0	0.0	50	0.8
South East Kansas Multi-County	67	1.5	3	0.5	0	0.0	0	0.0	3	1.7	1	0.1	0	0.0	74	1.1
KS South-Central Metro Region	1135	25.2	200	30.1	8	22.9	66	30.3	40	22.6	250	25.7	0	0.0	1,699	25.8
Southwest Kansas Health Initiative	25	0.6	3	0.5	0	0.0	2	0.9	5	2.8	62	6.4	0	0.0	97	1.5
Southwest Surveillance	48	1.1	3	0.5	0	0.0	0	0.0	2	1.1	68	7.0	0	0.0	121	1.8
West Central Public Health	28	0.6	0	0.0	0	0.0	0	0.0	1	0.6	3	0.3	0	0.0	32	0.5
Western Pyramid	60	1.3	2	0.3	0	0.0	4	1.8	2	1.1	83	8.5	0	0.0	151	2.3
Wildcat Region	484	10.7	110	16.6	5	14.3	24	11.0	31	17.5	105	10.8	0	0.0	759	11.5
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	4,508	100.0	664	100.0	35	100.0	218	100.0	177	100.0	973	100.0	2	100.0	6,577	100.0

*See Technical Notes for poor outcomes

n.s. = not stated

Residence data

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

Created: November 21, 2013

Table 17. Number and Percent of Births with Poor Outcomes* by Population Group and Mother's Marital Status, Kansas, 2012

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	3,052	67.7	190	28.6	15	42.9	181	83.0	84	47.5	462	47.5	2	100.0	3,986	60.6
Not Married	1,452	32.2	474	71.4	20	57.1	37	17.0	93	52.5	510	52.4	0	0.0	2,586	39.3
n.s.	4	0.1	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	5	0.1
Total	4,508	100.0	664	100.0	35	100.0	218	100.0	177	100.0	973	100.0	2	100.0	6,577	100.0

*See Technical Notes for poor outcomes

n.s. = not stated

Residence data

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

Created: November 21, 2013

Table 18. Number and Percent of Births with Poor Outcomes* by Population Group and Adequacy of Prenatal Care, Kansas, 2012

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 P	2,369	52.6	278	41.9	14	40.0	104	47.7	73	41.2	410	42.1	1	50.0	3,249	49.4
Adequate	1,394	30.9	194	29.2	9	25.7	74	33.9	49	27.7	264	27.1	0	0.0	1,984	30.2
Intermediate	184	4.1	44	6.6	2	5.7	7	3.2	11	6.2	75	7.7	0	0.0	323	4.9
Inadequate	429	9.5	120	18.1	9	25.7	29	13.3	30	16.9	181	18.6	0	0.0	798	12.1
n.s.	132	2.9	28	4.2	1	2.9	4	1.8	14	7.9	43	4.4	1	50.0	223	3.4
Total	4,508	100.0	664	100.0	35	100.0	218	100.0	177	100.0	973	100.0	2	100.0	6,577	100.0

*See Technical Notes for poor outcomes

n.s. = not stated

Residence data

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

Created: November 22, 2013

Table 19. Number and Percent of Births with Poor Outcomes* by Population Group and Use of WIC Services, Kansas, 2012

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	1,542	34.2	431	64.9	25	71.4	55	25.2	101	57.1	637	65.5	1	50.0	2,792	42.5
No	2,952	65.5	231	34.8	10	28.6	163	74.8	76	42.9	329	33.8	0	0.0	3,761	57.2
n.s.	14	0.3	2	0.3	0	0.0	0	0.0	0	0.0	7	0.7	1	50.0	24	0.4
Total	4,508	100.0	664	100.0	35	100.0	218	100.0	177	100.0	973	100.0	2	100.0	6,577	100.0

*See Technical Notes for poor outcomes

n.s. = not stated

Residence data

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

Created: November 21, 2013

Table 20. Number and Percent of Births with Poor Outcomes* by Population Group and Infant's Birth Weight in Grams, Kansas, 2012

Mother's Age	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	1	0.0	1	0.2	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	3	0.0
15-17	62	1.4	17	2.6	1	2.9	1	0.5	4	2.3	41	4.2	0	0.0	126	1.9
18-19	262	5.8	64	9.6	1	2.9	4	1.8	21	11.9	95	9.8	0	0.0	447	6.8
20-24	1,102	24.4	259	39.0	10	28.6	19	8.7	57	32.2	272	28.0	0	0.0	1,719	26.1
25-29	1,405	31.2	157	23.6	9	25.7	82	37.6	47	26.6	249	25.6	0	0.0	1,949	29.6
30-34	1,125	25.0	102	15.4	7	20.0	67	30.7	34	19.2	181	18.6	1	50.0	1,517	23.1
35-39	446	9.9	49	7.4	7	20.0	34	15.6	12	6.8	110	11.3	0	0.0	658	10.0
40-44	98	2.2	14	2.1	0	0.0	10	4.6	2	1.1	21	2.2	0	0.0	145	2.2
45 and above	7	0.2	1	0.2	0	0.0	1	0.5	0	0.0	3	0.3	1	50.0	13	0.2
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	4,508	100.0	664	100.0	35	100.0	218	100.0	177	100.0	973	100.0	2	100.0	6,577	100.0

*See Technical Notes for poor outcomes

n.s. = not stated

*See Technical Notes for poor outcomes

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

Created: November 20, 2013

Table 21. Number and Percent of Births by Population Group and Infant's Birth Weight in Grams, Kansas, 2012

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	27	0.1	24	0.9	1	0.5	0	0.0	2	0.2	0	0.0	13	0.2	67	0.2
500-999	136	0.5	28	1.0	0	0.0	5	0.4	9	1.0	1	4.5	39	0.6	218	0.5
1000-1499	175	0.6	38	1.4	2	1.0	8	0.7	33	3.6	0	0.0	36	0.6	262	0.7
1500-1999	402	1.4	71	2.6	1	0.5	28	2.3	13	1.4	0	0.0	81	1.3	596	1.5
2000-2499	1,152	4.0	192	7.2	7	3.6	74	6.1	54	5.9	0	0.0	266	4.2	1,745	4.3
2500-2999	4,588	15.8	689	25.7	32	16.3	288	23.9	190	20.7	5	22.7	1,124	17.9	6,916	17.2
3000-3499	11,189	38.6	1,029	38.4	78	39.8	513	42.5	397	43.3	10	45.5	2,554	40.6	15,752	39.1
3500-3999	8,665	29.9	478	17.8	58	29.6	244	20.2	208	22.7	3	13.6	1,668	26.5	11,324	28.1
4000-4499	2,300	7.9	112	4.2	13	6.6	42	3.5	48	5.2	2	9.1	434	6.9	2,951	7.3
4500-4999	328	1.1	19	0.7	4	2.0	3	0.2	10	1.1	0	0.0	59	0.9	423	1.0
5000-9998	31	0.1	2	0.1	0	0.0	2	0.2	0	0.0	0	0.0	12	0.2	47	0.1
n.s.	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	4.5	0	0.0	3	0.0
All	28,995	100.0	2,682	100.0	196	100.0	1,207	100.0	916	100.0	22	100.0	6,286	100.0	40,304	100.0

*See Technical Notes for poor outcomes

n.s. = not stated

Residence data

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

Created: December 20, 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, 2012 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).

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.