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# Natality Report by Racial and Ethnic Population Groups, Kansas, 2018

A graphic consisting of several horizontal grey lines. Overlaid on these lines is the word "Research" in a large, white, outlined, sans-serif font, tilted upwards. Below it, the word "Summary" is written in the same style, also tilted upwards.

## Research Summary

Kansas Department of Health and Environment  
Division of Public Health  
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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 2018 for Kansas resident live births by maternal population group based on race/Hispanic origin. Birth outcome indicators include maternal age, education level, marital status, adequacy of prenatal care, primary pay source, WIC service utilization, gestational age and weight of infant at birth. These indicators are examined among population groups by normal birth outcomes and by a summary measure of poor birth outcomes.

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

## Methods

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

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

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

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

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

## Results

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

Table 1. Number and Percent of Births by Mother’s Education Level by Population Group, Kansas, 2018

Table 2. Number and Percent of Births by Primary Payor by Population Group, Kansas, 2018

Table 3. Number and Percent of Births by Health Preparedness Region by Population Group, Kansas, 2018

Table 4. Number and Percent of Births by Mother’s Marital Status by Population Group, Kansas, 2018

Table 5. Number and Percent of Births by Adequacy of Prenatal Care by Population Group, Kansas, 2018

Table 6. Number and Percent of Births by Number of Weeks Gestation by Population Group, Kansas, 2018

Table 7. Number and Percent of Births by WIC Participation by Population Group, Kansas, 2018

Table 8. Number and Percent of Singleton Births by Mother's Weight Gain Recommendation Based on Pre-pregnancy BMI\* by Population Group, Kansas, 2018

Table 9. Number and Percent of Births by Mother's Age-group by Population Group, 2018

Table 10. Number and Percent of Births by Trimester Prenatal Care Began by Population Group, Kansas, 2018

Table 11. Number and Percent of Births by County of Residence by Population Group, Kansas, 2018

Table 12. Number of Births Where Reported Medical Risk Factors During Pregnancy and Reported Percent of Medical Risk Factors by Population Group, Kansas, 2018

Table 13. Number and Percent of Births with and Without Poor Birth Outcomes by Population Group, Kansas, 2018

Table 14. Number and Percent of Singleton Births with Poor Birth Outcomes at Mother's Level of Education by Population Group, Kansas, 2018

Table 15. Number and Percent of Singleton Births with Poor Birth Outcomes by Primary Payor by Population Group, Kansas, 2018

Table 16. Number and Percent of Singleton Births with Poor Birth Outcomes by Health Preparedness Region by Population Group, Kansas, 2018

Table 17. Number and Percent of Singleton Births with Poor Birth Outcomes by Mother's Marital Status by Population Group, Kansas, 2018

Table 18. Number and Percent of Singleton Births with Poor Birth Outcomes by Adequacy of Prenatal Care by Population Group, Kansas, 2018

Table 19. Number and Percent of Singleton Births with Poor Birth Outcomes by WIC Participation by Population Group, Kansas, 2018

Table 20. Number and Percent of Singleton Births with Poor Birth Outcomes by Mother's Age by Population Group, Kansas, 2018

Table 21. Number and Percent of Singleton Births with Poor Birth Outcomes by Infant's Birth Weight in Grams by Population Group, Kansas, 2018

Table 22. Number and Percent of Singleton Births with Poor Birth Outcomes by Weeks Gestation by Population Group, Kansas, 2018

## 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 Mother's Education Level by Population Group, Kansas, 2018

| Education of Mother     | White NH |      | Black NH |      | American Indian-<br>Alaska Native NH |      | Asian-PI NH |      | Multi Race-<br>Other NH |      | Hispanic-Any<br>Race |      | n.s.* |      | TOTAL  |      |
|-------------------------|----------|------|----------|------|--------------------------------------|------|-------------|------|-------------------------|------|----------------------|------|-------|------|--------|------|
|                         | N        | %    | N        | %    | N                                    | %    | N           | %    | N                       | %    | N                    | %    | N     | %    | N      | %    |
| 8th Grade or Less       | 249      | 1.0  | 52       | 2.1  | 1                                    | 0.7  | 49          | 4.0  | 32                      | 2.7  | 647                  | 10.8 | 0     | 0.0  | 1,030  | 2.8  |
| 9-12 Grade, No Diploma  | 1,462    | 5.8  | 330      | 13.2 | 18                                   | 11.8 | 63          | 5.1  | 147                     | 12.6 | 1,178                | 19.7 | 3     | 7.7  | 3,201  | 8.8  |
| H.S. or GED             | 5,247    | 20.8 | 945      | 37.8 | 49                                   | 32.2 | 186         | 15.0 | 355                     | 30.4 | 2,050                | 34.3 | 2     | 5.1  | 8,834  | 24.4 |
| Some College, No Degree | 5,122    | 20.3 | 644      | 25.8 | 46                                   | 30.3 | 150         | 12.1 | 268                     | 22.9 | 1,115                | 18.7 | 6     | 15.4 | 7,351  | 20.3 |
| Associate Degree        | 2,716    | 10.8 | 196      | 7.8  | 17                                   | 11.2 | 64          | 5.2  | 111                     | 9.5  | 381                  | 6.4  | 0     | 0.0  | 3,485  | 9.6  |
| Bachelor's Degree       | 7,048    | 28.0 | 214      | 8.6  | 12                                   | 7.9  | 361         | 29.2 | 177                     | 15.2 | 429                  | 7.2  | 8     | 20.5 | 8,249  | 22.7 |
| Master's Degree         | 2,558    | 10.2 | 90       | 3.6  | 9                                    | 5.9  | 266         | 21.5 | 57                      | 4.9  | 115                  | 1.9  | 2     | 5.1  | 3,097  | 8.5  |
| Doctorate               | 725      | 2.9  | 17       | 0.7  | 0                                    | 0.0  | 93          | 7.5  | 19                      | 1.6  | 34                   | 0.6  | 0     | 0.0  | 888    | 2.4  |
| n.s.*                   | 69       | 0.3  | 11       | 0.4  | 0                                    | 0.0  | 6           | 0.5  | 2                       | 0.2  | 27                   | 0.5  | 18    | 46.2 | 133    | 0.4  |
| Total                   | 25,196   | 100  | 2,499    | 100  | 152                                  | 100  | 1,238       | 100  | 1,168                   | 100  | 5,976                | 100  | 39    | 100  | 36,268 | 100  |

\*n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,

Bureau of Epidemiology and Public Health Informatics

Created May 15, 2020

Table 2. Number and Percent of Births by Primary Payor by Population Group, Kansas, 2018

| Payor                 | White NH |      | Black NH |      | American Indian-<br>Alaska Native NH |      | Asian-PI NH |      | Multi Race-<br>Other NH |      | Hispanic-Any<br>Race |      | n.s.* |      | Total  |      |
|-----------------------|----------|------|----------|------|--------------------------------------|------|-------------|------|-------------------------|------|----------------------|------|-------|------|--------|------|
|                       | N        | %    | N        | %    | N                                    | %    | N           | %    | N                       | %    | N                    | %    | N     | %    | N      | %    |
| Medicaid              | 6,766    | 26.9 | 1,498    | 59.9 | 94                                   | 61.8 | 202         | 16.3 | 546                     | 46.7 | 2,217                | 37.1 | 8     | 20.5 | 11,331 | 31.2 |
| Private Insurance     | 16,015   | 63.6 | 717      | 28.7 | 36                                   | 23.7 | 869         | 70.2 | 430                     | 36.8 | 1,955                | 32.7 | 15    | 38.5 | 20,037 | 55.2 |
| Self-pay              | 885      | 3.5  | 107      | 4.3  | 5                                    | 3.3  | 79          | 6.4  | 70                      | 6.0  | 1,384                | 23.2 | 6     | 15.4 | 2,536  | 7.0  |
| Indian Health Service | 7        | 0.0  | 0        | 0.0  | 11                                   | 7.2  | 0           | 0.0  | 6                       | 0.5  | 3                    | 0.1  | 0     | 0.0  | 27     | 0.1  |
| Tricare               | 1,125    | 4.5  | 144      | 5.8  | 4                                    | 2.6  | 69          | 5.6  | 89                      | 7.6  | 263                  | 4.4  | 0     | 0.0  | 1,694  | 4.7  |
| Other gov             | 139      | 0.6  | 13       | 0.5  | 0                                    | 0.0  | 6           | 0.5  | 11                      | 0.9  | 59                   | 1.0  | 0     | 0.0  | 228    | 0.6  |
| Other                 | 168      | 0.7  | 13       | 0.5  | 1                                    | 0.7  | 11          | 0.9  | 12                      | 1.0  | 35                   | 0.6  | 1     | 2.6  | 241    | 0.7  |
| n.s.*                 | 91       | 0.4  | 7        | 0.3  | 1                                    | 0.7  | 2           | 0.2  | 4                       | 0.3  | 60                   | 1.0  | 9     | 23.1 | 174    | 0.5  |
| Total                 | 25,196   | 100  | 2,499    | 100  | 152                                  | 100  | 1,238       | 100  | 1,168                   | 100  | 5,976                | 100  | 39    | 100  | 36,268 | 100  |

\*n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,

Bureau of Epidemiology and Public Health Informatics

Created May 15, 2020

Table 3. Number and Percent of Births by Health Preparedness Region by Population Group, Kansas, 2018

| Preparedness Region                | White NH |      | Black NH |      | American Indian-<br>Alaska Native NH |      | Asian-PI NH |      | Multi Race-<br>Other NH |      | Hispanic-Any<br>Race |      | n.s.* |      | Total  |      |
|------------------------------------|----------|------|----------|------|--------------------------------------|------|-------------|------|-------------------------|------|----------------------|------|-------|------|--------|------|
|                                    | N        | %    | N        | %    | N                                    | %    | N           | %    | N                       | %    | N                    | %    | N     | %    | N      | %    |
| Central Kansas Region              | 1,163    | 4.6  | 24       | 1.0  | 1                                    | 0.7  | 14          | 1.1  | 39                      | 3.3  | 230                  | 3.8  | 1     | 2.6  | 1,472  | 4.1  |
| East Central Coalition             | 940      | 3.7  | 21       | 0.8  | 6                                    | 3.9  | 6           | 0.5  | 28                      | 2.4  | 158                  | 2.6  | 2     | 5.1  | 1,161  | 3.2  |
| KC Metro Region                    | 8,259    | 32.8 | 1,066    | 42.7 | 36                                   | 23.7 | 692         | 55.9 | 428                     | 36.6 | 1,838                | 30.8 | 26    | 66.7 | 12,345 | 34.0 |
| South-Central Metro Region         | 6,292    | 25.0 | 839      | 33.6 | 26                                   | 17.1 | 314         | 25.4 | 265                     | 22.7 | 1,473                | 24.6 | 4     | 10.3 | 9,213  | 25.4 |
| Lower 8 of SE Kansas               | 1,395    | 5.5  | 38       | 1.5  | 12                                   | 7.9  | 22          | 1.8  | 58                      | 5.0  | 109                  | 1.8  | 4     | 10.3 | 1,638  | 4.5  |
| North Central Kansas               | 846      | 3.4  | 5        | 0.2  | 3                                    | 2.0  | 4           | 0.3  | 9                       | 0.8  | 32                   | 0.5  | 0     | 0.0  | 899    | 2.5  |
| Northwest Bioterror                | 653      | 2.6  | 7        | 0.3  | 2                                    | 1.3  | 10          | 0.8  | 10                      | 0.9  | 50                   | 0.8  | 1     | 2.6  | 733    | 2.0  |
| Northeast Corner                   | 2,252    | 8.9  | 223      | 8.9  | 55                                   | 36.2 | 39          | 3.2  | 158                     | 13.5 | 421                  | 7.0  | 1     | 2.6  | 3,149  | 8.7  |
| South Central Coalition            | 352      | 1.4  | 3        | 0.1  | 1                                    | 0.7  | 1           | 0.1  | 5                       | 0.4  | 33                   | 0.6  | 0     | 0.0  | 395    | 1.1  |
| South East Kansas Multi-County     | 462      | 1.8  | 1        | 0.0  | 0                                    | 0.0  | 4           | 0.3  | 15                      | 1.3  | 8                    | 0.1  | 0     | 0.0  | 490    | 1.4  |
| Southwest Kansas Health Initiative | 210      | 0.8  | 2        | 0.1  | 1                                    | 0.7  | 4           | 0.3  | 2                       | 0.2  | 475                  | 7.9  | 0     | 0.0  | 694    | 1.9  |
| Southwest Surveillance             | 293      | 1.2  | 22       | 0.9  | 2                                    | 1.3  | 8           | 0.6  | 5                       | 0.4  | 418                  | 7.0  | 0     | 0.0  | 748    | 2.1  |
| West Central Public Health         | 211      | 0.8  | 1        | 0.0  | 0                                    | 0.0  | 1           | 0.1  | 1                       | 0.1  | 26                   | 0.4  | 0     | 0.0  | 240    | 0.7  |
| Western Pyramid                    | 389      | 1.5  | 36       | 1.4  | 1                                    | 0.7  | 15          | 1.2  | 20                      | 1.7  | 412                  | 6.9  | 0     | 0.0  | 873    | 2.4  |
| Wildcat Region                     | 1,477    | 5.9  | 210      | 8.4  | 6                                    | 3.9  | 104         | 8.4  | 125                     | 10.7 | 292                  | 4.9  | 0     | 0.0  | 2,214  | 6.1  |
| n.s.*                              | 2        | 0.0  | 1        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 0                       | 0.0  | 1                    | 0.0  | 0     | 0.0  | 4      | 0.0  |
| Total                              | 25,196   | 100  | 2,499    | 100  | 152                                  | 100  | 1,238       | 100  | 1,168                   | 100  | 5,976                | 100  | 39    | 100  | 36,268 | 100  |

\*n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,

Bureau of Epidemiology and Public Health Informatics

Created May 15, 2020

Table 4. Number and Percent of Births by Mother's Marital Status by Population Group, Kansas, 2018

| Status      | White NH |      | Black NH |      | American Indian-<br>Alaska Native NH |      | Asian-PI NH |      | Multi Race-<br>Other NH |      | Hispanic-Any<br>Race |      | n.s.* |      | Total  |      |
|-------------|----------|------|----------|------|--------------------------------------|------|-------------|------|-------------------------|------|----------------------|------|-------|------|--------|------|
|             | N        | %    | N        | %    | N                                    | %    | N           | %    | N                       | %    | N                    | %    | N     | %    | N      | %    |
| Married     | 17,686   | 70.2 | 756      | 30.3 | 56                                   | 36.8 | 1,088       | 87.9 | 589                     | 50.4 | 2,869                | 48.0 | 29    | 74.4 | 23,073 | 63.6 |
| Not Married | 7,500    | 29.8 | 1,743    | 69.7 | 96                                   | 63.2 | 150         | 12.1 | 579                     | 49.6 | 3,102                | 51.9 | 8     | 20.5 | 13,178 | 36.3 |
| Unknown     | 10       | 0.0  | 0        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 0                       | 0.0  | 5                    | 0.1  | 2     | 5.1  | 17     | 0.0  |
| Total       | 25,196   | 100  | 2,499    | 100  | 152                                  | 100  | 1,238       | 100  | 1,168                   | 100  | 5,976                | 100  | 39    | 100  | 36,268 | 100  |

\*n.s. = not stated

Residence data

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

Created May 15, 2020

Table 5. Number and Percent of Births by Adequacy of Prenatal Care by Population Group, Kansas, 2018

| 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          | 8,061    | 32.0 | 658      | 26.3 | 39                               | 25.7 | 364         | 29.4 | 335                 | 28.7 | 1,499             | 25.1 | 11    | 28.2 | 10,967 | 30.2 |
| Adequate               | 13,690   | 54.3 | 1,137    | 45.5 | 62                               | 40.8 | 672         | 54.3 | 547                 | 46.8 | 2,731             | 45.7 | 15    | 38.5 | 18,854 | 52.0 |
| Intermediate           | 1,053    | 4.2  | 217      | 8.7  | 16                               | 10.5 | 51          | 4.1  | 81                  | 6.9  | 546               | 9.1  | 3     | 7.7  | 1,967  | 5.4  |
| Inadequate             | 2,090    | 8.3  | 453      | 18.1 | 31                               | 20.4 | 143         | 11.6 | 189                 | 16.2 | 1,057             | 17.7 | 6     | 15.4 | 3,969  | 10.9 |
| n.s.*                  | 302      | 1.2  | 34       | 1.4  | 4                                | 2.6  | 8           | 0.6  | 16                  | 1.4  | 143               | 2.4  | 4     | 10.3 | 511    | 1.4  |
| Total                  | 25,196   | 100  | 2,499    | 100  | 152                              | 100  | 1,238       | 100  | 1,168               | 100  | 5,976             | 100  | 39    | 100  | 36,268 | 100  |

\*n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,  
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Table 6. Number and Percent of Births by Number of Weeks Gestation by Population Group, Kansas, 2018

| 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        | 16       | 0.1  | 8        | 0.3  | 0                                | 0.0  | 1           | 0.1  | 0                   | 0.0  | 0                 | 0.0  | 0     | 0.0  | 25     | 0.1  |
| 20-22           | 19       | 0.1  | 7        | 0.3  | 0                                | 0.0  | 1           | 0.1  | 2                   | 0.2  | 10                | 0.2  | 0     | 0.0  | 39     | 0.1  |
| 23-27           | 93       | 0.4  | 24       | 1.0  | 1                                | 0.7  | 11          | 0.9  | 4                   | 0.3  | 39                | 0.7  | 0     | 0.0  | 172    | 0.5  |
| 28-31           | 185      | 0.7  | 30       | 1.2  | 2                                | 1.3  | 7           | 0.6  | 11                  | 0.9  | 42                | 0.7  | 0     | 0.0  | 277    | 0.8  |
| 32-35           | 1,049    | 4.2  | 139      | 5.6  | 4                                | 2.6  | 43          | 3.5  | 49                  | 4.2  | 229               | 3.8  | 2     | 5.1  | 1,515  | 4.2  |
| 36              | 956      | 3.8  | 125      | 5.0  | 9                                | 5.9  | 36          | 2.9  | 53                  | 4.5  | 232               | 3.9  | 1     | 2.6  | 1,412  | 3.9  |
| 37-38           | 6,390    | 25.4 | 724      | 29.0 | 48                               | 31.6 | 371         | 30.0 | 325                 | 27.8 | 1,657             | 27.7 | 8     | 20.5 | 9,523  | 26.3 |
| 39              | 10,371   | 41.2 | 953      | 38.1 | 54                               | 35.5 | 501         | 40.5 | 468                 | 40.1 | 2,397             | 40.1 | 17    | 43.6 | 14,761 | 40.7 |
| 40-41           | 6,025    | 23.9 | 484      | 19.4 | 34                               | 22.4 | 262         | 21.2 | 252                 | 21.6 | 1,355             | 22.7 | 7     | 17.9 | 8,419  | 23.2 |
| 42 and over     | 79       | 0.3  | 4        | 0.2  | 0                                | 0.0  | 3           | 0.2  | 1                   | 0.1  | 7                 | 0.1  | 2     | 5.1  | 96     | 0.3  |
| n.s.*           | 13       | 0.1  | 1        | 0.0  | 0                                | 0.0  | 2           | 0.2  | 3                   | 0.3  | 8                 | 0.1  | 2     | 5.1  | 29     | 0.1  |
| Total           | 25,196   | 100  | 2,499    | 100  | 152                              | 100  | 1,238       | 100  | 1,168               | 100  | 5,976             | 100  | 39    | 100  | 36,268 | 100  |

\*n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,

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Table 7. Number and Percent of Births by WIC Participation by Population Group, Kansas, 2018

| WIC Use | White NH |      | Black NH |      | American Indian-<br>Alaska Native NH |      | Asian-PI NH |      | Multi Race-<br>Other NH |      | Hispanic-Any<br>Race |      | n.s.* |      | Total  |      |
|---------|----------|------|----------|------|--------------------------------------|------|-------------|------|-------------------------|------|----------------------|------|-------|------|--------|------|
|         | N        | %    | N        | %    | N                                    | %    | N           | %    | N                       | %    | N                    | %    | N     | %    | N      | %    |
| Yes     | 5,362    | 21.3 | 1,172    | 46.9 | 71                                   | 46.7 | 222         | 17.9 | 449                     | 38.4 | 3,013                | 50.4 | 3     | 7.7  | 10,292 | 28.4 |
| No      | 19,725   | 78.3 | 1,311    | 52.5 | 80                                   | 52.6 | 1,007       | 81.3 | 714                     | 61.1 | 2,949                | 49.3 | 29    | 74.4 | 25,815 | 71.2 |
| n.s.*   | 109      | 0.4  | 16       | 0.6  | 1                                    | 0.7  | 9           | 0.7  | 5                       | 0.4  | 14                   | 0.2  | 7     | 17.9 | 161    | 0.4  |
| Total   | 25,196   | 100  | 2,499    | 100  | 152                                  | 100  | 1,238       | 100  | 1,168                   | 100  | 5,976                | 100  | 39    | 100  | 36,268 | 100  |

\*n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,  
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*Table 8. Number and Percent of Singleton Births by Mother's Weight Gain Recommendation Based on Prepregnancy BMI\* by Population Group, Kansas, 2018*

| Weight Gain*             | White NH |      | Black NH |      | American Indian-<br>Alaska Native NH |      | Asian-PI NH |      | Multi Race-<br>Other NH |      | Hispanic-Any<br>Race |      | n.s.† |      | Total  |      |
|--------------------------|----------|------|----------|------|--------------------------------------|------|-------------|------|-------------------------|------|----------------------|------|-------|------|--------|------|
|                          | N        | %    | N        | %    | N                                    | %    | N           | %    | N                       | %    | N                    | %    | N     | %    | N      | %    |
| Less than<br>recommended | 4,771    | 19.6 | 605      | 25.3 | 38                                   | 25.0 | 341         | 28.1 | 272                     | 24.3 | 1,565                | 26.8 | 8     | 22.2 | 7,600  | 21.7 |
| Recommended              | 7,668    | 31.5 | 673      | 28.1 | 39                                   | 25.7 | 453         | 37.4 | 317                     | 28.3 | 1,749                | 30.0 | 9     | 25.0 | 10,908 | 31.1 |
| More than<br>recommended | 11,789   | 48.4 | 1,090    | 45.5 | 73                                   | 48.0 | 414         | 34.2 | 513                     | 45.8 | 2,467                | 42.3 | 11    | 30.6 | 16,357 | 46.6 |
| n.s.†                    | 123      | 0.5  | 26       | 1.1  | 2                                    | 1.3  | 4           | 0.3  | 17                      | 1.5  | 58                   | 1.0  | 8     | 22.2 | 238    | 0.7  |
| Total                    | 24,351   | 100  | 2,394    | 100  | 152                                  | 100  | 1,212       | 100  | 1,119                   | 100  | 5,839                | 100  | 36    | 100  | 35,103 | 100  |

\*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

Created May 15, 2020

Table 9. Number and Percent of Births by Mother's Age-Group by Population Group, Kansas, 2018

| 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              | 3        | 0.0  | 2        | 0.1  | 0                                | 0.0  | 0           | 0.0  | 2                   | 0.2  | 4                 | 0.1  | 0     | 0.0  | 11     | 0.0  |
| 15-17              | 192      | 0.8  | 59       | 2.4  | 1                                | 0.7  | 1           | 0.1  | 35                  | 3.0  | 173               | 2.9  | 0     | 0.0  | 461    | 1.3  |
| 18-19              | 805      | 3.2  | 173      | 6.9  | 6                                | 3.9  | 19          | 1.5  | 70                  | 6.0  | 400               | 6.7  | 0     | 0.0  | 1,473  | 4.1  |
| 20-24              | 4,942    | 19.6 | 716      | 28.7 | 46                               | 30.3 | 89          | 7.2  | 356                 | 30.5 | 1,692             | 28.3 | 3     | 7.7  | 7,844  | 21.6 |
| 25-29              | 8,186    | 32.5 | 750      | 30.0 | 48                               | 31.6 | 367         | 29.6 | 338                 | 28.9 | 1,683             | 28.2 | 13    | 33.3 | 11,385 | 31.4 |
| 30-34              | 7,535    | 29.9 | 508      | 20.3 | 33                               | 21.7 | 473         | 38.2 | 230                 | 19.7 | 1,224             | 20.5 | 10    | 25.6 | 10,013 | 27.6 |
| 35-39              | 3,045    | 12.1 | 245      | 9.8  | 13                               | 8.6  | 244         | 19.7 | 120                 | 10.3 | 628               | 10.5 | 9     | 23.1 | 4,304  | 11.9 |
| 40-44              | 459      | 1.8  | 45       | 1.8  | 4                                | 2.6  | 43          | 3.5  | 16                  | 1.4  | 161               | 2.7  | 2     | 5.1  | 730    | 2.0  |
| 45 and over        | 29       | 0.1  | 1        | 0.0  | 1                                | 0.7  | 2           | 0.2  | 1                   | 0.1  | 11                | 0.2  | 0     | 0.0  | 45     | 0.1  |
| n.s.*              | 0        | 0.0  | 0        | 0.0  | 0                                | 0.0  | 0           | 0.0  | 0                   | 0.0  | 0                 | 0.0  | 2     | 5.1  | 2      | 0.0  |
| Total              | 25,196   | 100  | 2,499    | 100  | 152                              | 100  | 1,238       | 100  | 1,168               | 100  | 5,976             | 100  | 39    | 100  | 36,268 | 100  |

\*n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,

Bureau of Epidemiology and Public Health Informatics

Created May 15, 2020

Table 10. Number and Percent of Births by Trimester Prenatal Care Began by Population Group, Kansas, 2018

| 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     | 21,069   | 83.6 | 1,784    | 71.4 | 98                               | 64.5 | 1,001       | 80.9 | 853                 | 73.0 | 4,190             | 70.1 | 26    | 66.7 | 29,021 | 80.0 |
| Second Trimester    | 3,088    | 12.3 | 496      | 19.8 | 41                               | 27.0 | 179         | 14.5 | 224                 | 19.2 | 1,227             | 20.5 | 5     | 12.8 | 5,260  | 14.5 |
| Third Trimester     | 612      | 2.4  | 122      | 4.9  | 7                                | 4.6  | 40          | 3.2  | 61                  | 5.2  | 329               | 5.5  | 2     | 5.1  | 1,173  | 3.2  |
| No Prenatal Care    | 180      | 0.7  | 60       | 2.4  | 3                                | 2.0  | 11          | 0.9  | 15                  | 1.3  | 88                | 1.5  | 2     | 5.1  | 359    | 1.0  |
| n.s.*               | 247      | 1.0  | 37       | 1.5  | 3                                | 2.0  | 7           | 0.6  | 15                  | 1.3  | 142               | 2.4  | 4     | 10.3 | 455    | 1.3  |
| Total               | 25,196   | 100  | 2,499    | 100  | 152                              | 100  | 1,238       | 100  | 1,168               | 100  | 5,976             | 100  | 39    | 100  | 36,268 | 100  |

\*n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,

Bureau of Epidemiology and Public Health Informatics

Created May 15, 2020

Table 11. Number and Percent of Births by County of Residence by Population Group, Kansas, 2018

| County     | White NH |     | Black NH |     | American Indian-<br>Alaska Native NH |      | Asian-PI NH |     | Multi Race-<br>Other NH |     | Hispanic-Any<br>Race |     | n.s.* |     | TOTAL |     |
|------------|----------|-----|----------|-----|--------------------------------------|------|-------------|-----|-------------------------|-----|----------------------|-----|-------|-----|-------|-----|
|            | N        | %   | N        | %   | N                                    | %    | N           | %   | N                       | %   | N                    | %   | N     | %   | N     | %   |
| Allen      | 149      | 0.6 | 0        | 0.0 | 0                                    | 0.0  | 1           | 0.1 | 5                       | 0.4 | 4                    | 0.1 | 0     | 0.0 | 159   | 0.4 |
| Anderson   | 98       | 0.4 | 0        | 0.0 | 0                                    | 0.0  | 2           | 0.2 | 3                       | 0.3 | 2                    | 0.0 | 0     | 0.0 | 105   | 0.3 |
| Atchison   | 155      | 0.6 | 9        | 0.4 | 1                                    | 0.7  | 0           | 0.0 | 8                       | 0.7 | 11                   | 0.2 | 1     | 2.6 | 185   | 0.5 |
| Barber     | 51       | 0.2 | 1        | 0.0 | 1                                    | 0.7  | 0           | 0.0 | 0                       | 0.0 | 2                    | 0.0 | 0     | 0.0 | 55    | 0.2 |
| Barton     | 241      | 1.0 | 4        | 0.2 | 0                                    | 0.0  | 3           | 0.2 | 6                       | 0.5 | 67                   | 1.1 | 0     | 0.0 | 321   | 0.9 |
| Bourbon    | 193      | 0.8 | 1        | 0.0 | 0                                    | 0.0  | 1           | 0.1 | 5                       | 0.4 | 2                    | 0.0 | 0     | 0.0 | 202   | 0.6 |
| Brown      | 101      | 0.4 | 1        | 0.0 | 13                                   | 8.6  | 0           | 0.0 | 9                       | 0.8 | 6                    | 0.1 | 0     | 0.0 | 130   | 0.4 |
| Butler     | 636      | 2.5 | 6        | 0.2 | 2                                    | 1.3  | 8           | 0.6 | 17                      | 1.5 | 31                   | 0.5 | 0     | 0.0 | 700   | 1.9 |
| Chase      | 23       | 0.1 | 0        | 0.0 | 0                                    | 0.0  | 0           | 0.0 | 0                       | 0.0 | 1                    | 0.0 | 0     | 0.0 | 24    | 0.1 |
| Chautauqua | 29       | 0.1 | 0        | 0.0 | 1                                    | 0.7  | 0           | 0.0 | 1                       | 0.1 | 4                    | 0.1 | 0     | 0.0 | 35    | 0.1 |
| Cherokee   | 203      | 0.8 | 0        | 0.0 | 1                                    | 0.7  | 3           | 0.2 | 16                      | 1.4 | 7                    | 0.1 | 2     | 5.1 | 232   | 0.6 |
| Cheyenne   | 18       | 0.1 | 0        | 0.0 | 0                                    | 0.0  | 0           | 0.0 | 0                       | 0.0 | 3                    | 0.1 | 0     | 0.0 | 21    | 0.1 |
| Clark      | 18       | 0.1 | 1        | 0.0 | 1                                    | 0.7  | 0           | 0.0 | 0                       | 0.0 | 4                    | 0.1 | 0     | 0.0 | 24    | 0.1 |
| Clay       | 81       | 0.3 | 1        | 0.0 | 0                                    | 0.0  | 2           | 0.2 | 2                       | 0.2 | 4                    | 0.1 | 0     | 0.0 | 90    | 0.2 |
| Cloud      | 97       | 0.4 | 1        | 0.0 | 0                                    | 0.0  | 1           | 0.1 | 1                       | 0.1 | 4                    | 0.1 | 0     | 0.0 | 104   | 0.3 |
| Coffey     | 67       | 0.3 | 1        | 0.0 | 1                                    | 0.7  | 0           | 0.0 | 0                       | 0.0 | 4                    | 0.1 | 0     | 0.0 | 73    | 0.2 |
| Comanche   | 14       | 0.1 | 0        | 0.0 | 0                                    | 0.0  | 0           | 0.0 | 0                       | 0.0 | 0                    | 0.0 | 0     | 0.0 | 14    | 0.0 |
| Cowley     | 275      | 1.1 | 8        | 0.3 | 2                                    | 1.3  | 9           | 0.7 | 15                      | 1.3 | 74                   | 1.2 | 0     | 0.0 | 383   | 1.1 |
| Crawford   | 378      | 1.5 | 10       | 0.4 | 0                                    | 0.0  | 12          | 1.0 | 7                       | 0.6 | 44                   | 0.7 | 0     | 0.0 | 451   | 1.2 |
| Decatur    | 29       | 0.1 | 0        | 0.0 | 0                                    | 0.0  | 0           | 0.0 | 0                       | 0.0 | 1                    | 0.0 | 0     | 0.0 | 30    | 0.1 |
| Dickinson  | 174      | 0.7 | 0        | 0.0 | 0                                    | 0.0  | 1           | 0.1 | 2                       | 0.2 | 6                    | 0.1 | 0     | 0.0 | 183   | 0.5 |
| Doniphan   | 87       | 0.3 | 0        | 0.0 | 0                                    | 0.0  | 1           | 0.1 | 2                       | 0.2 | 0                    | 0.0 | 0     | 0.0 | 90    | 0.2 |
| Douglas    | 828      | 3.3 | 62       | 2.5 | 25                                   | 16.4 | 70          | 5.7 | 42                      | 3.6 | 86                   | 1.4 | 1     | 2.6 | 1,114 | 3.1 |
| Edwards    | 21       | 0.1 | 0        | 0.0 | 0                                    | 0.0  | 0           | 0.0 | 1                       | 0.1 | 9                    | 0.2 | 0     | 0.0 | 31    | 0.1 |
| Elk        | 23       | 0.1 | 0        | 0.0 | 0                                    | 0.0  | 0           | 0.0 | 1                       | 0.1 | 0                    | 0.0 | 0     | 0.0 | 24    | 0.1 |
| Ellis      | 270      | 1.1 | 5        | 0.2 | 1                                    | 0.7  | 6           | 0.5 | 7                       | 0.6 | 25                   | 0.4 | 0     | 0.0 | 314   | 0.9 |
| Ellsworth  | 49       | 0.2 | 0        | 0.0 | 1                                    | 0.7  | 0           | 0.0 | 1                       | 0.1 | 2                    | 0.0 | 0     | 0.0 | 53    | 0.1 |
| Finney     | 201      | 0.8 | 36       | 1.4 | 1                                    | 0.7  | 15          | 1.2 | 20                      | 1.7 | 348                  | 5.8 | 0     | 0.0 | 621   | 1.7 |
| Ford       | 161      | 0.6 | 21       | 0.8 | 1                                    | 0.7  | 8           | 0.6 | 4                       | 0.3 | 381                  | 6.4 | 0     | 0.0 | 576   | 1.6 |
| Franklin   | 267      | 1.1 | 6        | 0.2 | 1                                    | 0.7  | 1           | 0.1 | 6                       | 0.5 | 20                   | 0.3 | 1     | 2.6 | 302   | 0.8 |

Table 11. Number and Percent of Births by County of Residence by Population Group, Kansas, 2018

| County      | White NH |      | Black NH |      | American Indian-<br>Alaska Native NH |      | Asian-PI NH |      | Multi Race-<br>Other NH |      | Hispanic-Any<br>Race |      | n.s.* |      | TOTAL |      |
|-------------|----------|------|----------|------|--------------------------------------|------|-------------|------|-------------------------|------|----------------------|------|-------|------|-------|------|
| Geary       | 527      | 2.1  | 142      | 5.7  | 4                                    | 2.6  | 40          | 3.2  | 56                      | 4.8  | 167                  | 2.8  | 0     | 0.0  | 936   | 2.6  |
| Gove        | 34       | 0.1  | 1        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 1                       | 0.1  | 2                    | 0.0  | 0     | 0.0  | 38    | 0.1  |
| Graham      | 24       | 0.1  | 0        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 0                       | 0.0  | 0                    | 0.0  | 0     | 0.0  | 24    | 0.1  |
| Grant       | 41       | 0.2  | 0        | 0.0  | 1                                    | 0.7  | 0           | 0.0  | 0                       | 0.0  | 84                   | 1.4  | 0     | 0.0  | 126   | 0.3  |
| Gray        | 65       | 0.3  | 0        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 0                       | 0.0  | 13                   | 0.2  | 0     | 0.0  | 78    | 0.2  |
| Greeley     | 11       | 0.0  | 0        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 0                       | 0.0  | 3                    | 0.1  | 0     | 0.0  | 14    | 0.0  |
| Greenwood   | 49       | 0.2  | 1        | 0.0  | 1                                    | 0.7  | 0           | 0.0  | 2                       | 0.2  | 1                    | 0.0  | 0     | 0.0  | 54    | 0.1  |
| Hamilton    | 14       | 0.1  | 0        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 0                       | 0.0  | 17                   | 0.3  | 0     | 0.0  | 31    | 0.1  |
| Harper      | 60       | 0.2  | 0        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 1                       | 0.1  | 8                    | 0.1  | 0     | 0.0  | 69    | 0.2  |
| Harvey      | 310      | 1.2  | 5        | 0.2  | 1                                    | 0.7  | 6           | 0.5  | 8                       | 0.7  | 56                   | 0.9  | 0     | 0.0  | 386   | 1.1  |
| Haskell     | 45       | 0.2  | 0        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 0                       | 0.0  | 22                   | 0.4  | 0     | 0.0  | 67    | 0.2  |
| Hodgeman    | 13       | 0.1  | 0        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 1                       | 0.1  | 0                    | 0.0  | 0     | 0.0  | 14    | 0.0  |
| Jackson     | 120      | 0.5  | 1        | 0.0  | 20                                   | 13.2 | 0           | 0.0  | 12                      | 1.0  | 16                   | 0.3  | 0     | 0.0  | 169   | 0.5  |
| Jefferson   | 171      | 0.7  | 2        | 0.1  | 2                                    | 1.3  | 2           | 0.2  | 5                       | 0.4  | 6                    | 0.1  | 0     | 0.0  | 188   | 0.5  |
| Jewell      | 23       | 0.1  | 0        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 0                       | 0.0  | 1                    | 0.0  | 0     | 0.0  | 24    | 0.1  |
| Johnson     | 5,337    | 21.2 | 357      | 14.3 | 4                                    | 2.6  | 492         | 39.7 | 211                     | 18.1 | 714                  | 11.9 | 18    | 46.2 | 7,133 | 19.7 |
| Kearny      | 47       | 0.2  | 0        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 0                       | 0.0  | 18                   | 0.3  | 0     | 0.0  | 65    | 0.2  |
| Kingman     | 60       | 0.2  | 1        | 0.0  | 0                                    | 0.0  | 1           | 0.1  | 2                       | 0.2  | 4                    | 0.1  | 0     | 0.0  | 68    | 0.2  |
| Kiowa       | 40       | 0.2  | 1        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 1                       | 0.1  | 0                    | 0.0  | 0     | 0.0  | 42    | 0.1  |
| Labette     | 240      | 1.0  | 9        | 0.4  | 0                                    | 0.0  | 0           | 0.0  | 7                       | 0.6  | 11                   | 0.2  | 1     | 2.6  | 268   | 0.7  |
| Lane        | 16       | 0.1  | 0        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 0                       | 0.0  | 3                    | 0.1  | 0     | 0.0  | 19    | 0.1  |
| Leavenworth | 788      | 3.1  | 63       | 2.5  | 0                                    | 0.0  | 15          | 1.2  | 48                      | 4.1  | 88                   | 1.5  | 3     | 7.7  | 1,005 | 2.8  |
| Lincoln     | 29       | 0.1  | 0        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 0                       | 0.0  | 1                    | 0.0  | 0     | 0.0  | 30    | 0.1  |
| Linn        | 95       | 0.4  | 0        | 0.0  | 1                                    | 0.7  | 0           | 0.0  | 1                       | 0.1  | 5                    | 0.1  | 0     | 0.0  | 102   | 0.3  |
| Logan       | 43       | 0.2  | 0        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 0                       | 0.0  | 4                    | 0.1  | 0     | 0.0  | 47    | 0.1  |
| Lyon        | 264      | 1.0  | 10       | 0.4  | 0                                    | 0.0  | 4           | 0.3  | 10                      | 0.9  | 118                  | 2.0  | 0     | 0.0  | 406   | 1.1  |
| McPherson   | 104      | 0.4  | 0        | 0.0  | 1                                    | 0.7  | 0           | 0.0  | 2                       | 0.2  | 4                    | 0.1  | 1     | 2.6  | 112   | 0.3  |
| Marion      | 111      | 0.4  | 0        | 0.0  | 0                                    | 0.0  | 1           | 0.1  | 2                       | 0.2  | 3                    | 0.1  | 0     | 0.0  | 117   | 0.3  |
| Marshall    | 273      | 1.1  | 2        | 0.1  | 0                                    | 0.0  | 4           | 0.3  | 4                       | 0.3  | 18                   | 0.3  | 1     | 2.6  | 302   | 0.8  |
| Meade       | 36       | 0.1  | 0        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 0                       | 0.0  | 20                   | 0.3  | 0     | 0.0  | 56    | 0.2  |
| Miami       | 343      | 1.4  | 3        | 0.1  | 1                                    | 0.7  | 6           | 0.5  | 7                       | 0.6  | 10                   | 0.2  | 1     | 2.6  | 371   | 1.0  |

Table 11. Number and Percent of Births by County of Residence by Population Group, Kansas, 2018

| County       | White NH |      | Black NH |      | American Indian-<br>Alaska Native NH |      | Asian-PI NH |      | Multi Race-<br>Other NH |      | Hispanic-Any<br>Race |      | n.s.* | TOTAL |       |      |
|--------------|----------|------|----------|------|--------------------------------------|------|-------------|------|-------------------------|------|----------------------|------|-------|-------|-------|------|
| Mitchell     | 71       | 0.3  | 0        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 1                       | 0.1  | 3                    | 0.1  | 0     | 0.0   | 75    | 0.2  |
| Montgomery   | 273      | 1.1  | 19       | 0.8  | 10                                   | 6.6  | 6           | 0.5  | 21                      | 1.8  | 33                   | 0.6  | 1     | 2.6   | 363   | 1.0  |
| Morris       | 57       | 0.2  | 1        | 0.0  | 1                                    | 0.7  | 0           | 0.0  | 1                       | 0.1  | 4                    | 0.1  | 0     | 0.0   | 64    | 0.2  |
| Morton       | 18       | 0.1  | 0        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 0                       | 0.0  | 9                    | 0.2  | 0     | 0.0   | 27    | 0.1  |
| Nemaha       | 138      | 0.5  | 1        | 0.0  | 1                                    | 0.7  | 0           | 0.0  | 2                       | 0.2  | 6                    | 0.1  | 0     | 0.0   | 148   | 0.4  |
| Neosho       | 151      | 0.6  | 0        | 0.0  | 0                                    | 0.0  | 1           | 0.1  | 2                       | 0.2  | 9                    | 0.2  | 0     | 0.0   | 163   | 0.4  |
| Ness         | 27       | 0.1  | 0        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 0                       | 0.0  | 8                    | 0.1  | 0     | 0.0   | 35    | 0.1  |
| Norton       | 47       | 0.2  | 1        | 0.0  | 0                                    | 0.0  | 2           | 0.2  | 0                       | 0.0  | 5                    | 0.1  | 1     | 2.6   | 56    | 0.2  |
| Osage        | 146      | 0.6  | 2        | 0.1  | 1                                    | 0.7  | 1           | 0.1  | 7                       | 0.6  | 9                    | 0.2  | 0     | 0.0   | 166   | 0.5  |
| Osborne      | 41       | 0.2  | 1        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 0                       | 0.0  | 0                    | 0.0  | 0     | 0.0   | 42    | 0.1  |
| Ottawa       | 58       | 0.2  | 0        | 0.0  | 1                                    | 0.7  | 0           | 0.0  | 1                       | 0.1  | 3                    | 0.1  | 0     | 0.0   | 63    | 0.2  |
| Pawnee       | 45       | 0.2  | 1        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 0                       | 0.0  | 6                    | 0.1  | 0     | 0.0   | 52    | 0.1  |
| Phillips     | 60       | 0.2  | 0        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 0                       | 0.0  | 2                    | 0.0  | 0     | 0.0   | 62    | 0.2  |
| Pottawatomie | 349      | 1.4  | 4        | 0.2  | 0                                    | 0.0  | 1           | 0.1  | 9                       | 0.8  | 20                   | 0.3  | 0     | 0.0   | 383   | 1.1  |
| Pratt        | 106      | 0.4  | 0        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 0                       | 0.0  | 10                   | 0.2  | 0     | 0.0   | 116   | 0.3  |
| Rawlins      | 33       | 0.1  | 0        | 0.0  | 0                                    | 0.0  | 1           | 0.1  | 0                       | 0.0  | 3                    | 0.1  | 0     | 0.0   | 37    | 0.1  |
| Reno         | 504      | 2.0  | 12       | 0.5  | 7                                    | 4.6  | 7           | 0.6  | 29                      | 2.5  | 83                   | 1.4  | 0     | 0.0   | 642   | 1.8  |
| Republic     | 42       | 0.2  | 1        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 0                       | 0.0  | 1                    | 0.0  | 0     | 0.0   | 44    | 0.1  |
| Rice         | 94       | 0.4  | 1        | 0.0  | 1                                    | 0.7  | 0           | 0.0  | 1                       | 0.1  | 17                   | 0.3  | 0     | 0.0   | 114   | 0.3  |
| Riley        | 601      | 2.4  | 64       | 2.6  | 2                                    | 1.3  | 63          | 5.1  | 60                      | 5.1  | 105                  | 1.8  | 0     | 0.0   | 895   | 2.5  |
| Rooks        | 64       | 0.3  | 0        | 0.0  | 1                                    | 0.7  | 0           | 0.0  | 1                       | 0.1  | 1                    | 0.0  | 0     | 0.0   | 67    | 0.2  |
| Rush         | 21       | 0.1  | 0        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 0                       | 0.0  | 2                    | 0.0  | 0     | 0.0   | 23    | 0.1  |
| Russell      | 80       | 0.3  | 0        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 1                       | 0.1  | 3                    | 0.1  | 0     | 0.0   | 84    | 0.2  |
| Saline       | 471      | 1.9  | 16       | 0.6  | 0                                    | 0.0  | 7           | 0.6  | 28                      | 2.4  | 117                  | 2.0  | 0     | 0.0   | 639   | 1.8  |
| Scott        | 51       | 0.2  | 0        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 0                       | 0.0  | 16                   | 0.3  | 0     | 0.0   | 67    | 0.2  |
| Sedgwick     | 4,233    | 16.8 | 802      | 32.1 | 13                                   | 8.6  | 280         | 22.6 | 191                     | 16.4 | 1,210                | 20.2 | 3     | 7.7   | 6,732 | 18.6 |
| Seward       | 61       | 0.2  | 2        | 0.1  | 0                                    | 0.0  | 1           | 0.1  | 1                       | 0.1  | 316                  | 5.3  | 0     | 0.0   | 381   | 1.1  |
| Shawnee      | 1,369    | 5.4  | 209      | 8.4  | 18                                   | 11.8 | 35          | 2.8  | 118                     | 10.1 | 373                  | 6.2  | 0     | 0.0   | 2,122 | 5.9  |
| Sheridan     | 19       | 0.1  | 0        | 0.0  | 0                                    | 0.0  | 1           | 0.1  | 0                       | 0.0  | 4                    | 0.1  | 0     | 0.0   | 24    | 0.1  |
| Sherman      | 58       | 0.2  | 0        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 0                       | 0.0  | 7                    | 0.1  | 0     | 0.0   | 65    | 0.2  |
| Smith        | 28       | 0.1  | 1        | 0.0  | 1                                    | 0.7  | 0           | 0.0  | 0                       | 0.0  | 0                    | 0.0  | 0     | 0.0   | 30    | 0.1  |

Table 11. Number and Percent of Births by County of Residence by Population Group, Kansas, 2018

| County     | White NH |     | Black NH |      | American Indian-<br>Alaska Native NH |     | Asian-PI NH |     | Multi Race-<br>Other NH |      | Hispanic-Any<br>Race |      | n.s.* |     | TOTAL  |     |
|------------|----------|-----|----------|------|--------------------------------------|-----|-------------|-----|-------------------------|------|----------------------|------|-------|-----|--------|-----|
| Stafford   | 39       | 0.2 | 0        | 0.0  | 0                                    | 0.0 | 0           | 0.0 | 0                       | 0.0  | 5                    | 0.1  | 0     | 0.0 | 44     | 0.1 |
| Stanton    | 11       | 0.0 | 0        | 0.0  | 0                                    | 0.0 | 1           | 0.1 | 0                       | 0.0  | 9                    | 0.2  | 0     | 0.0 | 21     | 0.1 |
| Stevens    | 34       | 0.1 | 0        | 0.0  | 0                                    | 0.0 | 2           | 0.2 | 1                       | 0.1  | 35                   | 0.6  | 0     | 0.0 | 72     | 0.2 |
| Sumner     | 230      | 0.9 | 6        | 0.2  | 0                                    | 0.0 | 4           | 0.3 | 3                       | 0.3  | 15                   | 0.3  | 0     | 0.0 | 258    | 0.7 |
| Thomas     | 87       | 0.3 | 1        | 0.0  | 0                                    | 0.0 | 1           | 0.1 | 2                       | 0.2  | 8                    | 0.1  | 0     | 0.0 | 99     | 0.3 |
| Trego      | 30       | 0.1 | 0        | 0.0  | 0                                    | 0.0 | 0           | 0.0 | 0                       | 0.0  | 1                    | 0.0  | 0     | 0.0 | 31     | 0.1 |
| Wabaunsee  | 67       | 0.3 | 0        | 0.0  | 1                                    | 0.7 | 0           | 0.0 | 2                       | 0.2  | 1                    | 0.0  | 1     | 2.6 | 72     | 0.2 |
| Wallace    | 34       | 0.1 | 0        | 0.0  | 0                                    | 0.0 | 0           | 0.0 | 0                       | 0.0  | 0                    | 0.0  | 0     | 0.0 | 34     | 0.1 |
| Washington | 73       | 0.3 | 0        | 0.0  | 0                                    | 0.0 | 0           | 0.0 | 0                       | 0.0  | 4                    | 0.1  | 0     | 0.0 | 77     | 0.2 |
| Wichita    | 15       | 0.1 | 0        | 0.0  | 0                                    | 0.0 | 0           | 0.0 | 0                       | 0.0  | 7                    | 0.1  | 0     | 0.0 | 22     | 0.1 |
| Wilson     | 98       | 0.4 | 0        | 0.0  | 0                                    | 0.0 | 0           | 0.0 | 3                       | 0.3  | 1                    | 0.0  | 0     | 0.0 | 102    | 0.3 |
| Woodson    | 22       | 0.1 | 0        | 0.0  | 0                                    | 0.0 | 0           | 0.0 | 2                       | 0.2  | 0                    | 0.0  | 0     | 0.0 | 24     | 0.1 |
| Wyandotte  | 868      | 3.4 | 581      | 23.2 | 5                                    | 3.3 | 109         | 8.8 | 119                     | 10.2 | 935                  | 15.6 | 3     | 7.7 | 2,620  | 7.2 |
| n.s.*      | 2        | 0.0 | 1        | 0.0  | 0                                    | 0.0 | 0           | 0.0 | 0                       | 0.0  | 1                    | 0.0  | 0     | 0.0 | 4      | 0.0 |
| Total      | 25,196   | 100 | 2,499    | 100  | 152                                  | 100 | 1,238       | 100 | 1,168                   | 100  | 5,976                | 100  | 39    | 100 | 36,268 | 100 |

\*n.s. = not stated

Residence data

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

Created May 15, 2020

Table 12. Number of Births Where Reported Medical Risk Factors During Pregnancy and Reported Percent of Medical Risk Factors by Population Group, Kansas, 2018

| Medical Risk Factors                                  | White NH |      | Black NH |      | American Indian-<br>Alaska Native NH |      | Asian-PI NH |      | Multi Race-<br>Other NH |      | Hispanic-Any<br>Race |      | n.s.* |      | Total  |      |
|---|----------|------|----------|------|--------------------------------------|------|-------------|------|-------------------------|------|----------------------|------|-------|------|--------|------|
|   | N        | %    | N        | %    | N                                    | %    | N           | %    | N                       | %    | N                    | %    | N     | %    | N      | %    |
| Pre-pregnancy Diabetes                                | 178      | 1.3  | 26       | 1.8  | 6                                    | 4.7  | 7           | 1.3  | 9                       | 1.4  | 67                   | 2.5  | 0     | 0.0  | 293    | 1.6  |
| Gestational Diabetes                                  | 1,586    | 11.8 | 146      | 10.1 | 22                                   | 17.2 | 153         | 28.9 | 82                      | 13.0 | 502                  | 19.0 | 5     | 25.0 | 2,496  | 13.3 |
| Pre-pregnancy Hypertension                            | 460      | 3.4  | 90       | 6.2  | 5                                    | 3.9  | 11          | 2.1  | 17                      | 2.7  | 78                   | 2.9  | 1     | 5.0  | 662    | 3.5  |
| Pre-eclampsia   | 1,899    | 14.1 | 158      | 10.9 | 10                                   | 7.8  | 55          | 10.4 | 76                      | 12.1 | 350                  | 13.2 | 3     | 15.0 | 2,551  | 13.6 |
| Eclampsia   | 116      | 0.9  | 15       | 1.0  | 2                                    | 1.6  | 5           | 0.9  | 5                       | 0.8  | 27                   | 1.0  | 0     | 0.0  | 170    | 0.9  |
| Previous Pre-term Birth                               | 617      | 4.6  | 77       | 5.3  | 5                                    | 3.9  | 15          | 2.8  | 32                      | 5.1  | 153                  | 5.8  | 0     | 0.0  | 899    | 4.8  |
| Previous Poor Pregnancy<br>Outcome                    | 422      | 3.1  | 46       | 3.2  | 9                                    | 7.0  | 16          | 3.0  | 18                      | 2.9  | 93                   | 3.5  | 0     | 0.0  | 604    | 3.2  |
| Vaginal Bleeding                                      | 226      | 1.7  | 29       | 2.0  | 1                                    | 0.8  | 16          | 3.0  | 8                       | 1.3  | 40                   | 1.5  | 0     | 0.0  | 320    | 1.7  |
| Previous C-Section                                    | 3,742    | 27.9 | 376      | 26.0 | 24                                   | 18.8 | 178         | 33.6 | 151                     | 24.0 | 819                  | 30.9 | 8     | 40.0 | 5,298  | 28.1 |
| Infertility Treatment                                 | 480      | 3.6  | 11       | 0.8  | 0                                    | 0.0  | 27          | 5.1  | 6                       | 1.0  | 40                   | 1.5  | 0     | 0.0  | 564    | 3.0  |
| Infections Contracted or<br>Treated During Pregnancy† | 913      | 6.8  | 213      | 14.7 | 8                                    | 6.3  | 31          | 5.8  | 66                      | 10.5 | 254                  | 9.6  | 0     | 0.0  | 1,485  | 7.9  |
| Smoking During Pregnancy                              | 2,757    | 20.5 | 256      | 17.7 | 34                                   | 26.6 | 16          | 3.0  | 157                     | 24.9 | 215                  | 8.1  | 3     | 15.0 | 3,438  | 18.3 |
| Alcohol Use During<br>Pregnancy                       | 27       | 0.2  | 2        | 0.1  | 2                                    | 1.6  | 0           | 0.0  | 3                       | 0.5  | 10                   | 0.4  | 0     | 0.0  | 44     | 0.2  |
| Total Births  | 13,423   | 100  | 1,445    | 100  | 128                                  | 100  | 530         | 100  | 630                     | 100  | 2,648                | 100  | 20    | 100  | 18,824 | 100  |

Note: More than one medical risk factor may have been reported for a birth. Therefore, actual number of births maybe lower than totals.

\*n.s. = not stated

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

Residence data

Source: Kansas Department of Health and Environment,

Bureau of Epidemiology and Public Health Informatics

Created May 15, 2020

*Table 13. Number and Percent of Total Births With and Without Poor Birth Outcomes\* by Population Group  
Kansas, 2018*

| Poor Outcome | White NH |      | Black NH |      | American Indian-<br>Alaska Native NH |      | Asian-PI NH |      | Multi Race-<br>Other NH |      | Hispanic-Any<br>Race |      | n.s.† |      | Total  |      |
|--------------|----------|------|----------|------|--------------------------------------|------|-------------|------|-------------------------|------|----------------------|------|-------|------|--------|------|
|              | N        | %    | N        | %    | N                                    | %    | N           | %    | N                       | %    | N                    | %    | N     | %    | N      | %    |
| Yes          | 4,089    | 16.2 | 551      | 22.0 | 24                                   | 15.8 | 204         | 16.5 | 201                     | 17.2 | 932                  | 15.6 | 6     | 15.4 | 6,007  | 16.6 |
| No           | 21,107   | 83.8 | 1,948    | 78.0 | 128                                  | 84.2 | 1,034       | 83.5 | 967                     | 82.8 | 5,044                | 84.4 | 33    | 84.6 | 30,261 | 83.4 |
| Total        | 25,196   | 100  | 2,499    | 100  | 152                                  | 100  | 1,238       | 100  | 1,168                   | 100  | 5,976                | 100  | 39    | 100  | 36,268 | 100  |

\*See Technical Notes for definition of poor birth outcomes

†n.s. = not stated

Residence data

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

Created May 15, 2020

Table 14. Number and Percent of Singleton Births with Poor Birth Outcomes\* at Mother's Level of Education by Population Group, Kansas, 2018

| Education of Mother     | White NH |      | Black NH |      | American Indian-<br>Alaska Native NH |      | Asian-PI NH |      | Multi Race-<br>Other NH |      | Hispanic-Any<br>Race |      | n.s.† |      | TOTAL |      |
|-------------------------|----------|------|----------|------|--------------------------------------|------|-------------|------|-------------------------|------|----------------------|------|-------|------|-------|------|
|                         | N        | %    | N        | %    | N                                    | %    | N           | %    | N                       | %    | N                    | %    | N     | %    | N     | %    |
| 8th Grade or Less       | 39       | 1.1  | 7        | 1.5  | 0                                    | 0.0  | 4           | 2.2  | 5                       | 2.9  | 75                   | 9.0  | 0     | 0.0  | 130   | 2.5  |
| 9-12 Grade, No Diploma  | 274      | 7.9  | 77       | 16.8 | 5                                    | 20.8 | 6           | 3.3  | 29                      | 16.9 | 182                  | 21.8 | 1     | 25.0 | 574   | 11.1 |
| H.S. or GED             | 855      | 24.6 | 189      | 41.3 | 8                                    | 33.3 | 26          | 14.2 | 57                      | 33.1 | 285                  | 34.1 | 0     | 0.0  | 1,420 | 27.6 |
| Some College, No Degree | 769      | 22.1 | 109      | 23.8 | 9                                    | 37.5 | 22          | 12.0 | 31                      | 18.0 | 161                  | 19.3 | 1     | 25.0 | 1,102 | 21.4 |
| Associate Degree        | 361      | 10.4 | 30       | 6.6  | 1                                    | 4.2  | 9           | 4.9  | 12                      | 7.0  | 51                   | 6.1  | 0     | 0.0  | 464   | 9.0  |
| Bachelor's Degree       | 817      | 23.5 | 32       | 7.0  | 0                                    | 0.0  | 59          | 32.2 | 26                      | 15.1 | 50                   | 6.0  | 1     | 25.0 | 985   | 19.1 |
| Master's Degree         | 280      | 8.1  | 11       | 2.4  | 1                                    | 4.2  | 46          | 25.1 | 9                       | 5.2  | 22                   | 2.6  | 0     | 0.0  | 369   | 7.2  |
| Doctorate               | 68       | 2.0  | 1        | 0.2  | 0                                    | 0.0  | 11          | 6.0  | 2                       | 1.2  | 6                    | 0.7  | 0     | 0.0  | 88    | 1.7  |
| n.s.†                   | 14       | 0.4  | 2        | 0.4  | 0                                    | 0.0  | 0           | 0.0  | 1                       | 0.6  | 3                    | 0.4  | 1     | 25.0 | 21    | 0.4  |
| Total                   | 3,477    | 100  | 458      | 100  | 24                                   | 100  | 183         | 100  | 172                     | 100  | 835                  | 100  | 4     | 100  | 5,153 | 100  |

\*See Technical Notes for definition of poor birth outcomes

†n.s. = not stated

Residence data

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

Created May 15, 2020

Table 15. Number and Percent of Singleton Births with Poor Birth Outcomes\* by Primary Payor by Population Group, Kansas, 2018

| Payor                 | White NH |      | Black NH |      | American Indian-<br>Alaska Native NH |      | Asian-PI NH |      | Multi Race-<br>Other NH |      | Hispanic-<br>Any Race |      | n.s.† |      | Total |      |
|-----------------------|----------|------|----------|------|--------------------------------------|------|-------------|------|-------------------------|------|-----------------------|------|-------|------|-------|------|
|                       | N        | %    | N        | %    | N                                    | %    | N           | %    | N                       | %    | N                     | %    | N     | %    | N     | %    |
| Medicaid              | 1,198    | 34.5 | 324      | 70.7 | 16                                   | 66.7 | 23          | 12.6 | 88                      | 51.2 | 321                   | 38.4 | 1     | 25.0 | 1,971 | 38.2 |
| Private/employer Ins  | 1,991    | 57.3 | 101      | 22.1 | 3                                    | 12.5 | 131         | 71.6 | 54                      | 31.4 | 266                   | 31.9 | 2     | 50.0 | 2,548 | 49.4 |
| Self-pay              | 124      | 3.6  | 16       | 3.5  | 2                                    | 8.3  | 13          | 7.1  | 12                      | 7.0  | 211                   | 25.3 | 0     | 0.0  | 378   | 7.3  |
| Indian Health Service | 0        | 0.0  | 0        | 0.0  | 3                                    | 12.5 | 0           | 0.0  | 0                       | 0.0  | 1                     | 0.1  | 0     | 0.0  | 4     | 0.1  |
| Tricare               | 104      | 3.0  | 14       | 3.1  | 0                                    | 0.0  | 13          | 7.1  | 17                      | 9.9  | 21                    | 2.5  | 0     | 0.0  | 169   | 3.3  |
| Other gov             | 24       | 0.7  | 2        | 0.4  | 0                                    | 0.0  | 1           | 0.5  | 0                       | 0.0  | 3                     | 0.4  | 0     | 0.0  | 30    | 0.6  |
| Other                 | 22       | 0.6  | 1        | 0.2  | 0                                    | 0.0  | 1           | 0.5  | 1                       | 0.6  | 6                     | 0.7  | 0     | 0.0  | 31    | 0.6  |
| n.s.†                 | 14       | 0.4  | 0        | 0.0  | 0                                    | 0.0  | 1           | 0.5  | 0                       | 0.0  | 6                     | 0.7  | 1     | 25.0 | 22    | 0.4  |
| Total                 | 3,477    | 100  | 458      | 100  | 24                                   | 100  | 183         | 100  | 172                     | 100  | 835                   | 100  | 4     | 100  | 5,153 | 100  |

\*See Technical Notes for definition of poor birth outcomes

†n.s. = not stated

Residence data

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

Created May 15, 2020

Table 16. Number and Percent of Singleton Births with Poor Birth Outcomes\* by Health Preparedness Region by Population Group Kansas, 2018

| Preparedness Region                | White NH     |            | Black NH   |            | American Indian-<br>Alaska Native NH |            | Asian-PI NH |            | Multi Race-<br>Other NH |            | Hispanic-Any<br>Race |            | n.s.†    |            | Total        |            |
|------------------------------------|--------------|------------|------------|------------|--------------------------------------|------------|-------------|------------|-------------------------|------------|----------------------|------------|----------|------------|--------------|------------|
|                                    | N            | %          | N          | %          | N                                    | %          | N           | %          | N                       | %          | N                    | %          | N        | %          | N            | %          |
| Central Kansas Region              | 176          | 5.1        | 4          | 0.9        | 0                                    | 0.0        | 4           | 2.2        | 7                       | 4.1        | 28                   | 3.4        | 0        | 0.0        | 219          | 4.2        |
| East Central Coalition             | 142          | 4.1        | 3          | 0.7        | 1                                    | 4.2        | 2           | 1.1        | 4                       | 2.3        | 36                   | 4.3        | 0        | 0.0        | 188          | 3.6        |
| KC Mmetro Region                   | 1,018        | 29.3       | 196        | 42.8       | 10                                   | 41.7       | 97          | 53.0       | 68                      | 39.5       | 253                  | 30.3       | 2        | 50.0       | 1,644        | 31.9       |
| KS South-Central Metro Region      | 991          | 28.5       | 165        | 36.0       | 4                                    | 16.7       | 48          | 26.2       | 31                      | 18.0       | 219                  | 26.2       | 2        | 50.0       | 1,460        | 28.3       |
| Lower 8 of SE Kansas               | 239          | 6.9        | 14         | 3.1        | 1                                    | 4.2        | 3           | 1.6        | 7                       | 4.1        | 15                   | 1.8        | 0        | 0.0        | 279          | 5.4        |
| North Central Kansas               | 140          | 4.0        | 1          | 0.2        | 0                                    | 0.0        | 1           | 0.5        | 2                       | 1.2        | 3                    | 0.4        | 0        | 0.0        | 147          | 2.9        |
| Northwest Bioterror                | 89           | 2.6        | 1          | 0.2        | 0                                    | 0.0        | 3           | 1.6        | 2                       | 1.2        | 10                   | 1.2        | 0        | 0.0        | 105          | 2.0        |
| Northeast Corner                   | 291          | 8.4        | 38         | 8.3        | 8                                    | 33.3       | 8           | 4.4        | 24                      | 14.0       | 52                   | 6.2        | 0        | 0.0        | 421          | 8.2        |
| South Central Coalition            | 44           | 1.3        | 0          | 0.0        | 0                                    | 0.0        | 0           | 0.0        | 0                       | 0.0        | 1                    | 0.1        | 0        | 0.0        | 45           | 0.9        |
| South East Kansas Multi-County     | 70           | 2.0        | 0          | 0.0        | 0                                    | 0.0        | 1           | 0.5        | 4                       | 2.3        | 2                    | 0.2        | 0        | 0.0        | 77           | 1.5        |
| Southwest Kansas Health Initiative | 21           | 0.6        | 1          | 0.2        | 0                                    | 0.0        | 1           | 0.5        | 0                       | 0.0        | 73                   | 8.7        | 0        | 0.0        | 96           | 1.9        |
| Southwest Surrveillance            | 24           | 0.7        | 1          | 0.2        | 0                                    | 0.0        | 0           | 0.0        | 0                       | 0.0        | 41                   | 4.9        | 0        | 0.0        | 66           | 1.3        |
| West Central Public Health         | 35           | 1.0        | 0          | 0.0        | 0                                    | 0.0        | 0           | 0.0        | 0                       | 0.0        | 5                    | 0.6        | 0        | 0.0        | 40           | 0.8        |
| Western Pyramid                    | 53           | 1.5        | 8          | 1.7        | 0                                    | 0.0        | 6           | 3.3        | 4                       | 2.3        | 67                   | 8.0        | 0        | 0.0        | 138          | 2.7        |
| Wildcat Region                     | 143          | 4.1        | 26         | 5.7        | 0                                    | 0.0        | 9           | 4.9        | 19                      | 11.0       | 29                   | 3.5        | 0        | 0.0        | 226          | 4.4        |
| n.s.*                              | 1            | 0.0        | 0          | 0.0        | 0                                    | 0.0        | 0           | 0.0        | 0                       | 0.0        | 1                    | 0.1        | 0        | 0.0        | 2            | 0.0        |
| <b>Total</b>                       | <b>3,477</b> | <b>100</b> | <b>458</b> | <b>100</b> | <b>24</b>                            | <b>100</b> | <b>183</b>  | <b>100</b> | <b>172</b>              | <b>100</b> | <b>835</b>           | <b>100</b> | <b>4</b> | <b>100</b> | <b>5,153</b> | <b>100</b> |

\*See Technical Notes for definition of poor birth outcomes

†n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,

Bureau of Epidemiology and Public Health Informatics

Created May 15, 2020

*Table 17. Number and Percent of Singleton Births with Poor Birth Outcomes\* by Mother's Marital Status by Population Group, Kansas, 2018*

| Status      | White NH |      | Black NH |      | American Indian-<br>Alaska Native NH |      | Asian-PI NH |      | Multi Race-<br>Other NH |      | Hispanic-Any<br>Race |      | n.s.† |      | Total |      |
|-------------|----------|------|----------|------|--------------------------------------|------|-------------|------|-------------------------|------|----------------------|------|-------|------|-------|------|
|             | N        | %    | N        | %    | N                                    | %    | N           | %    | N                       | %    | N                    | %    | N     | %    | N     | %    |
| Married     | 2,138    | 61.5 | 107      | 23.4 | 7                                    | 29.2 | 159         | 86.9 | 80                      | 46.5 | 369                  | 44.2 | 3     | 75.0 | 2,863 | 55.6 |
| Not Married | 1,336    | 38.4 | 351      | 76.6 | 17                                   | 70.8 | 24          | 13.1 | 92                      | 53.5 | 465                  | 55.7 | 1     | 25.0 | 2,286 | 44.4 |
| n.s.†       | 3        | 0.1  | 0        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 0                       | 0.0  | 1                    | 0.1  | 0     | 0.0  | 4     | 0.1  |
| Total       | 3,477    | 100  | 458      | 100  | 24                                   | 100  | 183         | 100  | 172                     | 100  | 835                  | 100  | 4     | 100  | 5,153 | 100  |

\*See Technical Notes for definition of poor birth outcomes

†n.s. = not stated

Residence data

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

Created May 15, 2020

Table 18. Number and Percent of Singleton Births with Poor Birth Outcomes\* by Adequacy of Prenatal Care by Population Group, Kansas, 2018

| 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          | 1,542    | 44.3 | 150      | 32.8 | 5                                | 20.8 | 74          | 40.4 | 69                  | 40.1 | 339               | 40.6 | 2     | 50.0 | 2,181 | 42.3 |
| Adequate               | 1,330    | 38.3 | 166      | 36.2 | 5                                | 20.8 | 77          | 42.1 | 60                  | 34.9 | 257               | 30.8 | 1     | 25.0 | 1,896 | 36.8 |
| Intermediate           | 153      | 4.4  | 45       | 9.8  | 5                                | 20.8 | 11          | 6.0  | 13                  | 7.6  | 59                | 7.1  | 0     | 0.0  | 286   | 5.6  |
| Inadequate             | 385      | 11.1 | 91       | 19.9 | 8                                | 33.3 | 19          | 10.4 | 27                  | 15.7 | 159               | 19.0 | 1     | 25.0 | 690   | 13.4 |
| n.s.†                  | 67       | 1.9  | 6        | 1.3  | 1                                | 4.2  | 2           | 1.1  | 3                   | 1.7  | 21                | 2.5  | 0     | 0.0  | 100   | 1.9  |
| Total                  | 3,477    | 100  | 458      | 100  | 24                               | 100  | 183         | 100  | 172                 | 100  | 835               | 100  | 4     | 100  | 5,153 | 100  |

\*See Technical Notes for definition of poor birth outcomes

†n.s. = not stated

Residence data

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

Created May 15, 2020

Table 19. Number and Percent of Singleton Births with Poor Birth Outcomes\* by WIC Participation by Population Group, Kansas, 2018

| WIC Use | White NH |      | Black NH |      | American Indian-<br>Alaska Native NH |      | Asian-PI NH |      | Multi Race-<br>Other NH |      | Hispanic-<br>Any Race |      | n.s.† |      | Total |      |
|---------|----------|------|----------|------|--------------------------------------|------|-------------|------|-------------------------|------|-----------------------|------|-------|------|-------|------|
|         | N        | %    | N        | %    | N                                    | %    | N           | %    | N                       | %    | N                     | %    | N     | %    | N     | %    |
| Yes     | 885      | 25.5 | 229      | 50.0 | 9                                    | 37.5 | 27          | 14.8 | 73                      | 42.4 | 410                   | 49.1 | 1     | 25.0 | 1,634 | 31.7 |
| No      | 2578     | 74.1 | 224      | 48.9 | 15                                   | 62.5 | 156         | 85.2 | 99                      | 57.6 | 421                   | 50.4 | 2     | 50.0 | 3,495 | 67.8 |
| n.s.†   | 14       | 0.4  | 5        | 1.1  | 0                                    | 0.0  | 0           | 0.0  | 0                       | 0.0  | 4                     | 0.5  | 1     | 25.0 | 24    | 0.5  |
| Total   | 3,477    | 100  | 458      | 100  | 24                                   | 100  | 183         | 100  | 172                     | 100  | 835                   | 100  | 4     | 100  | 5,153 | 100  |

\*See Technical Notes for definition of poor birth outcomes

†n.s. = not stated

Residence data

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

Created May 11, 2020

Table 20. Number and Percent of Singleton Births with Poor Birth Outcomes\* by Mother's Age by Population Group, Kansas, 2018

| Years        | White NH |      | Black NH |      | American Indian-<br>Alaska Native NH |      | Asian-PI NH |      | Multi Race-<br>Other NH |      | Hispanic-<br>Any Race |      | n.s.† |      | Total |      |
|--------------|----------|------|----------|------|--------------------------------------|------|-------------|------|-------------------------|------|-----------------------|------|-------|------|-------|------|
|              | N        | %    | N        | %    | N                                    | %    | N           | %    | N                       | %    | N                     | %    | N     | %    | N     | %    |
| 10-14        | 0        | 0.0  | 0        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 0                       | 0.0  | 0                     | 0.0  | 0     | 0.0  | 0     | 0.0  |
| 15-17        | 34       | 1.0  | 8        | 1.7  | 0                                    | 0.0  | 0           | 0.0  | 7                       | 4.1  | 29                    | 3.5  | 0     | 0.0  | 78    | 1.5  |
| 18-19        | 142      | 4.1  | 42       | 9.2  | 1                                    | 4.2  | 5           | 2.7  | 10                      | 5.8  | 63                    | 7.5  | 0     | 0.0  | 263   | 5.1  |
| 20-24        | 730      | 21.0 | 125      | 27.3 | 3                                    | 12.5 | 11          | 6.0  | 54                      | 31.4 | 234                   | 28.0 | 0     | 0.0  | 1,157 | 22.5 |
| 25-29        | 1119     | 32.2 | 126      | 27.5 | 7                                    | 29.2 | 59          | 32.2 | 43                      | 25.0 | 207                   | 24.8 | 3     | 75.0 | 1,564 | 30.4 |
| 30-34        | 932      | 26.8 | 89       | 19.4 | 10                                   | 41.7 | 65          | 35.5 | 32                      | 18.6 | 169                   | 20.2 | 1     | 25.0 | 1,298 | 25.2 |
| 35-39        | 447      | 12.9 | 60       | 13.1 | 3                                    | 12.5 | 38          | 20.8 | 23                      | 13.4 | 96                    | 11.5 | 0     | 0.0  | 667   | 12.9 |
| 40-44        | 71       | 2.0  | 8        | 1.7  | 0                                    | 0.0  | 5           | 2.7  | 3                       | 1.7  | 35                    | 4.2  | 0     | 0.0  | 122   | 2.4  |
| 45 and above | 2        | 0.1  | 0        | 0.0  | 0                                    | 0.0  | 0           | 0.0  | 0                       | 0.0  | 2                     | 0.2  | 0     | 0.0  | 4     | 0.1  |
| Total        | 3,477    | 100  | 458      | 100  | 24                                   | 100  | 183         | 100  | 172                     | 100  | 835                   | 100  | 4     | 100  | 5,153 | 100  |

\*See Technical Notes for definition of poor birth outcomes

†n.s. = not stated

Residence data

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

Created May 15, 2020

*Table 21. Number and Percent of Singleton Births with Poor Birth Outcomes\* by Infant's Birth Weight in Grams by Population Group, Kansas, 2018*

| Birth Weight<br>in Grams | White NH |      | Black NH |      | American Indian-<br>Alaska Native NH |      | Asian-PI NH |      | Multi Race-<br>Other NH |      | Hispanic-<br>Any Race |      | n.s.† |      | Total |      |
|--------------------------|----------|------|----------|------|--------------------------------------|------|-------------|------|-------------------------|------|-----------------------|------|-------|------|-------|------|
|                          | N        | %    | N        | %    | N                                    | %    | N           | %    | N                       | %    | N                     | %    | N     | %    | N     | %    |
| Under 500                | 29       | 0.8  | 15       | 3.3  | 0                                    | 0.0  | 2           | 1.1  | 0                       | 0.0  | 9                     | 1.1  | 0     | 0.0  | 55    | 1.1  |
| 500-999                  | 62       | 1.8  | 17       | 3.7  | 0                                    | 0.0  | 6           | 3.3  | 6                       | 3.5  | 34                    | 4.1  | 0     | 0.0  | 125   | 2.4  |
| 1000-1499                | 106      | 3.0  | 24       | 5.2  | 3                                    | 12.5 | 4           | 2.2  | 3                       | 1.7  | 29                    | 3.5  | 0     | 0.0  | 169   | 3.3  |
| 1500-1999                | 202      | 5.8  | 41       | 9.0  | 1                                    | 4.2  | 13          | 7.1  | 13                      | 7.6  | 49                    | 5.9  | 0     | 0.0  | 319   | 6.2  |
| 2000-2499                | 875      | 25.2 | 163      | 35.6 | 3                                    | 12.5 | 63          | 34.4 | 54                      | 31.4 | 238                   | 28.5 | 1     | 25.0 | 1,397 | 27.1 |
| 2500-2999                | 790      | 22.7 | 94       | 20.5 | 6                                    | 25.0 | 40          | 21.9 | 46                      | 26.7 | 181                   | 21.7 | 0     | 0.0  | 1,157 | 22.5 |
| 3000-3499                | 761      | 21.9 | 57       | 12.4 | 7                                    | 29.2 | 28          | 15.3 | 27                      | 15.7 | 173                   | 20.7 | 0     | 0.0  | 1,053 | 20.4 |
| 3500-3999                | 468      | 13.5 | 35       | 7.6  | 4                                    | 16.7 | 22          | 12.0 | 14                      | 8.1  | 83                    | 9.9  | 2     | 50.0 | 628   | 12.2 |
| 4000-4499                | 136      | 3.9  | 8        | 1.7  | 0                                    | 0.0  | 3           | 1.6  | 7                       | 4.1  | 32                    | 3.8  | 1     | 25.0 | 187   | 3.6  |
| 4500-4999                | 43       | 1.2  | 3        | 0.7  | 0                                    | 0.0  | 2           | 1.1  | 1                       | 0.6  | 6                     | 0.7  | 0     | 0.0  | 55    | 1.1  |
| 5000 and over            | 5        | 0.1  | 1        | 0.2  | 0                                    | 0.0  | 0           | 0.0  | 1                       | 0.6  | 1                     | 0.1  | 0     | 0.0  | 8     | 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  |
| All                      | 3,477    | 100  | 458      | 100  | 24                                   | 100  | 183         | 100  | 172                     | 100  | 835                   | 100  | 4     | 100  | 5,153 | 100  |

\*See Technical Notes for definition of poor birth outcomes

†n.s. = not stated

Residence data

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

Created May 11, 2020

Table 22. Number and Percent of Singleton Births with Poor Birth Outcomes\* by Weeks of Gestation by Population Group  
 Kansas, 2018

| 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        | 14       | 0.4  | 8        | 1.7  | 0                                | 0.0  | 1           | 0.5  | 0                   | 0.0  | 0                 | 0.0  | 0     | 0.0  | 23    | 0.4  |
| 20-22           | 15       | 0.4  | 5        | 1.1  | 0                                | 0.0  | 1           | 0.5  | 1                   | 0.6  | 10                | 1.2  | 0     | 0.0  | 32    | 0.6  |
| 23-27           | 59       | 1.7  | 18       | 3.9  | 1                                | 4.2  | 7           | 3.8  | 4                   | 2.3  | 31                | 3.7  | 0     | 0.0  | 120   | 2.3  |
| 28-31           | 126      | 3.6  | 25       | 5.5  | 2                                | 8.3  | 5           | 2.7  | 7                   | 4.1  | 38                | 4.6  | 0     | 0.0  | 203   | 3.9  |
| 32-35           | 782      | 22.5 | 93       | 20.3 | 4                                | 16.7 | 35          | 19.1 | 37                  | 21.5 | 185               | 22.2 | 0     | 0.0  | 1,136 | 22.0 |
| 36              | 786      | 22.6 | 111      | 24.2 | 9                                | 37.5 | 34          | 18.6 | 47                  | 27.3 | 210               | 25.1 | 1     | 25.0 | 1,198 | 23.2 |
| 37              | 465      | 13.4 | 62       | 13.5 | 3                                | 12.5 | 28          | 15.3 | 30                  | 17.4 | 95                | 11.4 | 1     | 25.0 | 684   | 13.3 |
| 38-39           | 891      | 25.6 | 106      | 23.1 | 5                                | 20.8 | 51          | 27.9 | 31                  | 18.0 | 186               | 22.3 | 2     | 50.0 | 1,272 | 24.7 |
| 40-41           | 329      | 9.5  | 29       | 6.3  | 0                                | 0.0  | 21          | 11.5 | 15                  | 8.7  | 76                | 9.1  | 0     | 0.0  | 470   | 9.1  |
| 42 and over     | 7        | 0.2  | 1        | 0.2  | 0                                | 0.0  | 0           | 0.0  | 0                   | 0.0  | 2                 | 0.2  | 0     | 0.0  | 10    | 0.2  |
| n.s.*           | 3        | 0.1  | 0        | 0.0  | 0                                | 0.0  | 0           | 0.0  | 0                   | 0.0  | 2                 | 0.2  | 0     | 0.0  | 5     | 0.1  |
| Total           | 3,477    | 100  | 458      | 100  | 24                               | 100  | 183         | 100  | 172                 | 100  | 835               | 100  | 4     | 100  | 5,153 | 100  |

\*See Technical Notes for definition of poor birth outcomes

\*n.s. = not stated

Residence data

Source: Kansas Department of Health and Environment,

Bureau of Epidemiology and Public Health Informatics

Created May 15, 2020

## Technical Notes

**Registration.** Reporting of Kansas vital events to the Kansas Department of Health and Environment (KDHE) is mandated by law (K.S.A. 65-102, K.S.A. 65-2422b, K.S.A. 65-445). These reports are completed by the combined efforts of physicians, hospital personnel, funeral directors, attorneys, and local courts. All certificates and reports are filed with the Office of Vital Statistics by direct reporting.

### **Data Caveats.**

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

**Criteria for Small for Gestational Age (SGA).** Small for gestational age is when the infant's birth-weight is less than the 10th percentile, (lowest 9.9 percent of births). These infants may be normal but small or pathologically small (intrauterine growth restriction). Many different things can lead to intrauterine growth restriction (IUGR). An unborn baby may not get enough nutrition because of:

- High altitudes
- Multiple pregnancies (twins, triplets, etc.)
- Placenta problems
- High blood pressure (pre-eclampsia)

Congenital or chromosomal abnormalities are often associated with below-normal weight. Infections during pregnancy that affect the developing baby, such as rubella, cytomegalovirus, toxoplasmosis, and syphilis may also affect the weight of the developing baby. Infants born small for gestational age but constitutionally normal may represent 40% or more of the SGA infants at term.

## Definitions

### ***Live Birth***

The complete expulsion or extraction of a product of human conception from its mother, irrespective of the duration of pregnancy, that, after such expulsion or extraction, shows any evidence of life such as breathing, heartbeat, pulsation of the umbilical cord, or voluntary muscle movement, whether or not the umbilical cord has been cut or the placenta attached.

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

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

### ***Prematurity***

Less than 37 weeks gestation.

### ***Congenital Anomalies***

Defects existing at and usually before birth regardless of causation.

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

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

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

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

### ***Prenatal Care***

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

### ***Trimester***

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

### ***Weeks Gestation***

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

### ***WIC Services***

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

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

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

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

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