

# Maternal Characteristics and Infant Outcomes in Appalachia and the Delta

## Supplemental tables

Table I-1. Preterm births, by early and late preterm births, maternal characteristics, and region: Delta, Appalachia, and the rest of the United States, 2017

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**Table I–1. Preterm births, by early and late preterm births, maternal characteristics, and region: Delta, Appalachia, and the rest of the United States, 2017**

Characteristic	Delta			Appalachia			Rest of United States		
	Early <sup>1</sup>	Late <sup>2</sup>	Preterm <sup>3</sup>	Early <sup>1</sup>	Late <sup>2</sup>	Preterm <sup>3</sup>	Early <sup>1</sup>	Late <sup>2</sup>	Preterm <sup>3</sup>
	Percent								
Total . . . . .	3.56	8.81	12.37	2.95	7.80	10.75	2.72	7.07	9.78
Race and Hispanic origin <sup>4</sup>									
Non-Hispanic white . . . . .	2.59	8.08	10.68	2.61	7.62	10.23	2.25	6.60	8.85
Non-Hispanic black . . . . .	5.16	10.28	15.45	5.45	9.76	15.22	4.80	8.90	13.70
Hispanic <sup>5</sup> . . . . .	2.31	7.10	9.41	2.61	7.24	9.85	2.56	7.05	9.61
Age									
Under 20 . . . . .	3.77	8.26	12.02	3.47	7.35	10.81	3.12	7.04	10.16
20–24 . . . . .	3.32	8.34	11.66	2.79	7.45	10.24	2.63	6.75	9.38
25–29 . . . . .	3.46	8.56	12.03	2.68	7.56	10.24	2.50	6.59	9.09
30–34 . . . . .	3.37	8.95	12.32	2.98	7.78	10.76	2.57	6.87	9.44
35–39 . . . . .	4.55	10.58	15.13	3.42	8.94	12.36	3.09	8.04	11.14
40 and over . . . . .	5.58	13.15	18.73	4.46	11.23	15.69	4.17	10.30	14.46
Marital status <sup>6</sup>									
Married . . . . .	2.68	8.25	10.93	2.40	7.28	9.68	2.32	6.65	8.97
Unmarried, paternity . . . . .	3.92	8.85	12.77	3.17	7.86	11.02	3.06	7.45	10.51
Unmarried, no paternity . . . . .	5.05	10.15	15.19	4.95	10.08	15.03	4.62	9.25	13.87
Education <sup>7</sup>									
Less than high school . . . . .	4.44	10.64	15.08	3.53	9.36	12.89	3.21	8.28	11.50
High school graduate or GED . . . . .	4.28	9.97	14.25	3.64	9.00	12.64	3.22	7.93	11.14
Some college . . . . .	3.79	9.41	13.20	3.27	8.58	11.84	3.04	7.69	10.73
Associate's degree . . . . .	3.65	9.28	12.93	2.77	8.18	10.95	2.77	7.29	10.06
Bachelor's degree or higher . . . . .	2.69	7.50	10.19	2.22	6.55	8.78	2.14	6.21	8.36
Received WIC									
Yes . . . . .	3.51	9.01	12.53	3.03	8.40	11.43	2.72	7.48	10.20
No . . . . .	3.53	8.61	12.14	2.85	7.33	10.18	2.69	6.80	9.49
Source of payment for delivery									
Medicaid . . . . .	3.91	9.48	13.39	3.44	8.73	12.17	3.09	7.69	10.78
Private health insurance . . . . .	2.83	7.82	10.64	2.53	7.09	9.62	2.40	6.62	9.02
Self-pay . . . . .	4.33	8.11	12.44	2.35	6.05	8.40	2.55	6.00	8.55
Other . . . . .	4.33	8.01	12.33	3.00	7.49	10.49	2.69	6.96	9.65
Smoked during pregnancy									
Yes . . . . .	4.29	10.69	14.98	4.06	9.67	13.72	4.02	9.84	13.86
No . . . . .	3.43	8.59	12.03	2.74	7.45	10.20	2.62	6.87	9.49
Body mass index									
Underweight (less than 18.5) . . . . .	4.17	11.06	15.22	3.59	9.76	13.35	2.88	7.93	10.81
Normal weight (18.5–24.9) . . . . .	3.10	8.58	11.68	2.60	7.12	9.72	2.27	6.38	8.65
Overweight (25.0–29.9) . . . . .	3.13	8.02	11.15	2.66	7.53	10.20	2.52	6.83	9.34
Obese (30.0 and over) . . . . .	4.05	9.36	13.41	3.33	8.54	11.87	3.34	8.11	11.45
Timing of prenatal care									
First trimester . . . . .	3.36	8.70	12.06	2.65	7.55	10.21	2.55	6.95	9.50
Second trimester . . . . .	2.97	8.17	11.14	2.70	7.32	10.02	2.53	6.62	9.16
Third trimester or no care . . . . .	5.06	10.13	15.19	4.77	10.05	14.82	3.58	8.53	12.12

<sup>1</sup>Less than 34 completed weeks of gestation.<sup>2</sup>34–36 completed weeks of gestation.<sup>3</sup>Less than 37 completed weeks of gestation.<sup>4</sup>Race and Hispanic origin are reported separately on birth certificates; persons of Hispanic origin may be of any race. In this table, non-Hispanic women are classified by race. Race categories are consistent with the 1997 Office of Management and Budget standards. Single race is defined as only one race reported on the birth certificate.<sup>5</sup>Includes all persons of Hispanic origin of any race.<sup>6</sup>California not included in Rest of United States category.<sup>7</sup>Limited to women aged 25 and over.

NOTE: WIC is Special Supplemental Nutrition Program for Women, Infants, and Children.

SOURCE: NCHS, National Vital Statistics System, Natality.

**Table 1-2. Low birthweight, by very and moderately low birthweight, maternal characteristics, and region: Delta, Appalachia, and the rest of the United States, 2017**

Characteristic	Delta			Appalachia			Rest of United States		
	Very low <sup>1</sup>	Moderately low <sup>2</sup>	Low <sup>3</sup>	Very low <sup>1</sup>	Moderately low <sup>2</sup>	Low <sup>3</sup>	Very low <sup>1</sup>	Moderately low <sup>2</sup>	Low <sup>3</sup>
	Percent								
Total	1.93	8.82	10.75	1.51	7.37	8.87	1.38	6.76	8.14
Race and Hispanic origin <sup>4</sup>									
Non-Hispanic white	1.21	6.74	7.95	1.24	6.76	8.00	1.02	5.82	6.84
Non-Hispanic black	3.13	12.23	15.36	3.37	12.03	15.39	2.91	10.75	13.66
Hispanic <sup>5</sup>	1.07	6.29	7.35	1.31	6.17	7.48	1.26	6.18	7.43
Age									
Under 20	2.31	9.73	12.04	1.94	8.46	10.40	1.72	8.02	9.74
20–24	1.77	9.26	11.03	1.50	7.42	8.92	1.41	7.03	8.44
25–29	1.85	8.33	10.18	1.40	6.95	8.34	1.27	6.33	7.59
30–34	1.81	8.02	9.83	1.43	7.11	8.53	1.26	6.29	7.55
35–39	2.51	9.65	12.16	1.60	7.86	9.45	1.52	7.19	8.72
40 and over	2.76	11.97	14.73	2.26	9.93	12.19	2.07	9.37	11.43
Marital status <sup>6</sup>									
Married	1.33	6.86	8.19	1.17	5.97	7.14	1.12	5.89	7.01
Unmarried, paternity	2.20	9.74	11.94	1.68	8.41	10.09	1.63	7.72	9.35
Unmarried, no paternity	2.89	11.97	14.87	2.63	11.31	13.94	2.52	10.47	12.99
Education <sup>7</sup>									
Less than high school	2.37	11.10	13.47	1.74	9.44	11.19	1.59	7.75	9.34
High school graduate or GED	2.38	10.03	12.41	1.81	9.13	10.94	1.64	7.71	9.35
Some college	1.94	9.20	11.14	1.58	7.75	9.33	1.55	7.02	8.57
Associate's degree	2.01	7.81	9.82	1.52	6.68	8.20	1.35	6.40	7.75
Bachelor's degree or higher	1.42	6.01	7.43	1.07	5.36	6.43	1.02	5.68	6.70
Received WIC									
Yes	1.87	9.91	11.78	1.56	8.59	10.15	1.38	7.50	8.88
No	1.94	7.71	9.65	1.43	6.43	7.86	1.36	6.30	7.66
Source of payment for delivery									
Medicaid	2.16	10.26	12.42	1.78	9.05	10.83	1.61	7.87	9.48
Private health insurance	1.45	6.49	7.94	1.27	5.91	7.18	1.19	5.94	7.13
Self-pay	2.21	8.73	10.94	1.18	5.56	6.73	1.28	5.72	7.00
Other	2.38	8.45	10.83	1.67	7.15	8.82	1.33	6.38	7.71
Smoked during pregnancy									
Yes	2.32	13.27	15.59	2.09	12.62	14.71	2.07	12.10	14.17
No	1.86	8.28	10.13	1.39	6.41	7.81	1.33	6.40	7.73
Body mass index									
Underweight (less than 18.5)	2.04	14.96	17.00	1.74	13.75	15.49	1.50	10.70	12.20
Normal weight (18.5–24.9)	1.61	9.29	10.90	1.27	7.49	8.76	1.10	6.74	7.85
Overweight (25.0–29.9)	1.74	7.70	9.44	1.36	6.59	7.94	1.27	6.21	7.48
Obese (30.0 and over)	2.26	8.21	10.47	1.77	6.78	8.55	1.75	6.62	8.37
Timing of prenatal care									
First trimester	1.83	8.36	10.20	1.33	6.78	8.11	1.27	6.41	7.69
Second trimester	1.57	9.43	11.00	1.48	8.32	9.80	1.32	7.31	8.63
Third trimester or no care	2.55	10.52	13.08	2.24	9.96	12.20	1.78	8.35	10.13

<sup>1</sup>Less than 1,500 grams.<sup>2</sup>1,500–2,499 grams.<sup>3</sup>Less than 2,500 grams.<sup>4</sup>Race and Hispanic origin are reported separately on birth certificates; persons of Hispanic origin may be of any race. In this table, non-Hispanic women are classified by race. Race categories are consistent with the 1997 Office of Management and Budget standards. Single race is defined as only one race reported on the birth certificate.<sup>5</sup>Includes all persons of Hispanic origin of any race.<sup>6</sup>California not included in Rest of United States category.<sup>7</sup>Limited to women aged 25 and over.

NOTE: WIC is Special Supplemental Nutrition Program for Women, Infants, and Children.

SOURCE: NCHS, National Vital Statistics System, Natality.

**Table I-3. Infant mortality, by age at death, maternal characteristics, and region: Delta, Appalachia, and the rest of the United States, 2016–2017**

Characteristic	Delta			Appalachia			Rest of United States		
	Neonatal <sup>1</sup>	Postneonatal <sup>2</sup>	Total	Neonatal <sup>1</sup>	Postneonatal <sup>2</sup>	Total	Neonatal <sup>1</sup>	Postneonatal <sup>2</sup>	Total
Deaths per 1,000 live births									
Total . . . . .	4.61	3.57	8.17	4.36	2.46	6.82	3.80	1.87	5.67
Race and Hispanic origin <sup>3</sup>									
Non-Hispanic white . . . . .	3.34	2.68	6.01	3.70	2.33	6.03	2.98	1.58	4.56
Non-Hispanic black . . . . .	6.64	5.05	11.70	8.44	3.84	12.29	7.34	3.71	11.05
Hispanic <sup>4</sup> . . . . .	3.06	2.48	5.54	4.22	1.94	6.16	3.49	1.50	4.99
Age									
Under 20 . . . . .	5.43	5.09	10.53	5.60	3.57	9.20	5.39	3.31	8.70
20–24 . . . . .	4.81	3.98	8.78	4.52	3.25	7.77	4.12	2.75	6.88
25–29 . . . . .	4.25	3.46	7.72	4.00	2.18	6.19	3.61	1.82	5.43
30–34 . . . . .	4.47	2.83	7.31	3.98	1.93	5.92	3.34	1.33	4.68
35–39 . . . . .	3.99	2.87	6.87	4.76	1.77	6.53	3.82	1.38	5.20
40 and over . . . . .	8.68	3.86	12.53	6.18	3.00	9.19	5.05	1.87	6.92
Marital status <sup>5</sup>									
Married . . . . .	3.75	2.31	6.05	3.45	1.72	5.17	3.10	1.25	4.35
Unmarried, paternity . . . . .	4.01	4.08	8.09	4.39	2.87	7.26	3.84	2.52	6.36
Unmarried, no paternity . . . . .	7.82	5.78	13.58	8.49	4.92	13.41	8.00	4.33	12.32
Education <sup>6</sup>									
Less than high school . . . . .	4.69	6.35	11.05	6.01	3.69	9.70	4.56	2.47	7.03
High school graduate or GED . . . . .	5.46	3.82	9.28	5.33	2.70	8.02	4.54	2.32	6.86
Some college . . . . .	4.64	3.59	8.26	3.97	2.50	6.48	3.96	1.98	5.94
Associate's degree . . . . .	4.29	1.90	6.19	3.70	1.40	5.10	3.41	1.36	4.77
Bachelor's degree or higher . . . . .	2.72	1.61	4.33	2.88	1.12	4.00	2.41	0.81	3.22
Received WIC									
Yes . . . . .	3.80	3.94	7.74	3.94	3.33	7.27	3.29	2.54	5.83
No . . . . .	4.95	3.11	8.07	4.41	1.76	6.18	3.90	1.44	5.34
Source of payment for delivery									
Medicaid . . . . .	4.90	4.42	9.32	5.11	3.49	8.60	4.42	2.77	7.19
Private health insurance . . . . .	3.69	2.06	5.76	3.45	1.43	4.89	3.13	1.11	4.24
Self-pay . . . . .	7.53	4.30	11.83	5.82	2.22	8.04	4.67	1.82	6.50
Other . . . . .	4.94	3.23	8.17	4.14	3.12	7.26	3.69	1.89	5.57
Smoked during pregnancy									
Yes . . . . .	5.62	6.82	12.44	5.69	5.38	11.07	5.64	4.96	10.60
No . . . . .	4.36	3.14	7.50	4.06	1.89	5.95	3.61	1.65	5.26
Body mass index									
Underweight (less than 18.5) . . . . .	6.09	4.17	10.26	5.02	3.41	8.43	3.36	2.14	5.51
Normal weight (18.5–24.9) . . . . .	3.37	3.14	6.51	3.33	2.25	5.57	2.90	1.60	4.49
Overweight (25.0–29.9) . . . . .	4.02	3.42	7.45	4.16	2.15	6.31	3.44	1.74	5.17
Obese (30.0 and over) . . . . .	5.51	3.95	9.45	5.03	2.76	7.79	4.83	2.31	7.14
Timing of prenatal care									
First trimester . . . . .	3.88	2.93	6.81	3.49	1.95	5.44	3.26	1.52	4.78
Second trimester . . . . .	3.90	4.24	8.15	4.35	3.58	7.96	3.48	2.58	6.06
Third trimester or no care . . . . .	9.16	6.80	15.95	9.03	4.73	13.77	6.79	3.56	10.35

<sup>1</sup>Age at death less than 28 days.<sup>2</sup>Age at death 28–364 days.<sup>3</sup>Race and Hispanic origin are reported separately on birth certificates; persons of Hispanic origin may be of any race. In this table, non-Hispanic women are classified by race. Race categories are consistent with the 1997 Office of Management and Budget standards. Single race is defined as only one race reported on the birth certificate.<sup>4</sup>Includes all persons of Hispanic origin of any race.<sup>5</sup>California not included in Rest of United States category.<sup>6</sup>Limited to women aged 25 and over.

NOTE: WIC is Special Supplemental Nutrition Program for Women, Infants, and Children.

SOURCE: NCHS, National Vital Statistics System, Linked birth/infant death files.