

WIC PNNS & PedNSS

Table 1C

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Demographic Indicators (2)

| Total Records | Number | % |
|--------------------|---------------|------|
| Complete Records | 40,571 | 70.3 |
| Prenatal Records | 3,416 | 5.9 |
| Postpartum Records | 13,689 | 23.7 |
| Total | 57,676 | |

| Source of Data | Number | % |
|-------------------------|---------------|--------------|
| WIC | 57,676 | 100.0 |
| Maternal Health | 0 | 0.0 |
| Other | 0 | 0.0 |
| Total | 57,676 | 100.0 |
| <i>Excluded Unknown</i> | 0 | 0.0 % |

| Race/Ethnic Distribution | Number | % |
|-------------------------------|---------------|--------------|
| White, Not Hispanic | 30,034 | 52.3 |
| Black, Not Hispanic | 17,505 | 30.5 |
| Hispanic | 6,016 | 10.5 |
| American Indian/Alaska Native | 194 | 0.3 |
| Asian/Pacific Islander | 1,315 | 2.3 |
| Multiple Races | 2,312 | 4.0 |
| All Other | 0 | 0.0 |
| Total | 57,376 | 100.0 |
| <i>Excluded Unknown</i> | 293 | 0.5 % |

| Age Distribution | Number | % |
|--------------------------|---------------|--------------|
| < 15 Years | 70 | 0.1 |
| 15 - 17 Years | 1,641 | 2.8 |
| 18 - 19 Years | 4,439 | 7.7 |
| 20 - 29 Years | 36,365 | 63.1 |
| 30 - 39 Years | 14,027 | 24.3 |
| >= 40 Years | 1,065 | 1.8 |
| Total | 57,607 | 100.0 |
| <i>Excluded Unknown:</i> | 69 | 0.1 % |

| Education Distribution | Number | % |
|-------------------------|---------------|--------------|
| < High School | 13,502 | 23.8 |
| High School | 25,743 | 45.4 |
| > High School | 17,459 | 30.8 |
| Total | 56,704 | 100.0 |
| <i>Excluded Unknown</i> | 972 | 1.7 % |

| % of Poverty Level | Number | % |
|-------------------------|---------------|--------------|
| 0 - 50 | 16,434 | 37.4 |
| 51 - 100 | 11,845 | 27.0 |
| 101 - 130 | 5,807 | 13.2 |
| 131 - 150 | 2,439 | 5.6 |
| 151 - 185 | 3,510 | 8.0 |
| 186 - 200 | 1,019 | 2.3 |
| > 200 | 2,681 | 6.1 |
| Adjunctive Eligibility | 175 | 0.4 |
| Total | 43,910 | 100.0 |
| <i>Excluded Unknown</i> | 77 | 0.1 % |

| Program Participation (3) | Number | % |
|---------------------------|--------|-------|
| WIC | 43,987 | 100.0 |
| SNAP | 43,941 | 48.3 |
| Medicaid | 43,942 | 89.5 |
| Tanf | 43,955 | 5.4 |
| Excluded Unknown: | | |
| WIC: | 0 | 0.0 |
| SNAP: | 46 | 0.1 |
| Medicaid: | 45 | 0.1 |
| Tanf: | 32 | 0.1 |

| Migrant Status | Number | % |
|-------------------------|---------------|--------------|
| Yes | 415 | 0.7 |
| No | 57,261 | 99.3 |
| Total | 57,676 | 100.0 |
| <i>Excluded Unknown</i> | 0 | 0.0 % |

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data or errors.

(3) Prenatal program participation

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Table 2C 2017 Pregnancy Nutrition Surveillance (1) Michigan Summary of Health Indicators

| Summary of Health Indicators (2) | | | | |
|----------------------------------|---------------------|------|--------------------------------------|------|
| | Michigan Prevalence | | National (7) Prevalence (Prior Year) | |
| | Number | % | Number | % |
| Prepregnancy BMI (3) | | | | |
| Underweight | 47,111 | 4.3 | 106,629 | 4.4 |
| Normal Weight | 47,111 | 37.0 | 106,629 | 37.4 |
| Overweight | 47,111 | 24.9 | 106,629 | 24.7 |
| Obese | 47,111 | 33.8 | 106,629 | 33.6 |
| Maternal Weight Gain (4) | | | | |
| Less Than Ideal | 31,292 | 19.1 | 62,805 | 21.4 |
| Ideal | 31,292 | 29.0 | 62,805 | 28.2 |
| Greater Than Ideal | 31,292 | 51.9 | 62,805 | 50.4 |
| Anemia (Low Hb/Hct) (5) | | | | |
| 1st Trimester | 17,198 | 13.3 | 19,860 | 5.9 |
| 2nd Trimester | 16,317 | 20.1 | 18,082 | 7.0 |
| 3rd Trimester | 9,416 | 49.2 | 35,452 | 17.4 |
| Postpartum | 11,325 | 36.6 | 20,899 | 27.9 |
| Parity (6) | | | | |
| 0 | 56,970 | 34.5 | 86,498 | 26.3 |
| 1 | 56,970 | 29.5 | 86,498 | 36.9 |
| 2 | 56,970 | 18.7 | 86,498 | 24.0 |
| >= 3 | 56,970 | 17.4 | 86,498 | 12.8 |
| Interpregnancy Interval | | | | |
| <= 6 Months | 36,387 | 12.2 | 70,757 | 13.9 |
| 6 - <18 Months | 36,387 | 26.4 | 70,757 | 24.1 |
| >= 18 Months | 36,387 | 61.4 | 70,757 | 62.0 |
| Gestational Diabetes | 53,680 | 7.1 | 60,377 | 6.9 |
| Hypertension During Pregnancy | 53,693 | 11.2 | 60,411 | 10.7 |

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

(4) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

(6) Number of times a woman has given birth to an infant 20 or more weeks gestation

(7) National includes previous year's data for all participating States and ITOs.

* Percentages are not calculated if <100 records are available for analysis after exclusions

WIC PNNS & PedNSS

Table 2C 2017 Pregnancy Nutrition Surveillance (1) Michigan Summary of Health Indicators

| Summary of Health Indicators (2) | | | | |
|--|---------------------|------|--------------------------------------|------|
| | Michigan Prevalence | | National (7) Prevalence (Prior Year) | |
| | Number | % | Number | % |
| Medical Care | | | | |
| 1st Trimester | 53,045 | 83.1 | 88,167 | 83.4 |
| No Care | 53,045 | 7.7 | 88,167 | 5.4 |
| WIC Enrollment | | | | |
| 1st Trimester | 56,717 | 30.6 | 108,369 | 19.0 |
| 2nd Trimester | 56,717 | 29.4 | 108,369 | 17.6 |
| 3rd Trimester | 56,717 | 17.1 | 108,369 | 30.1 |
| Postpartum (3) | 56,717 | 22.9 | 108,369 | 33.2 |
| Prepregnancy Multivitamin Consumption (4) | 44,576 | 19.0 | 50,771 | 25.4 |
| Multivitamin Consumption During Pregnancy (5) | 43,643 | 87.3 | 50,162 | 87.6 |
| Smoking | | | | |
| 3 Months Prior to Pregnancy | 51,028 | 27.1 | 112,214 | 29.5 |
| During Pregnancy | 43,689 | 15.9 | 105,039 | 23.6 |
| Last 3 Months of Pregnancy | 53,711 | 14.1 | 114,607 | 15.2 |
| Postpartum | 53,705 | 15.1 | 114,749 | 15.7 |
| Smoking Changes (6) | | | | |
| Quit Smoking by First Prenatal Visit | 12,345 | 44.1 | 22,399 | 30.8 |
| Quit Smoking by First Prenatal Visit and Stayed Off Cigarettes | 11,398 | 39.3 | 15,803 | 35.0 |
| Smoking in Household | | | | |
| During Pregnancy | 43,712 | 11.3 | 75,630 | 14.7 |
| Postpartum | 53,738 | 3.2 | 88,858 | 11.7 |
| Drinking | | | | |
| 3 Months Prior to Pregnancy | 50,928 | 17.5 | 113,221 | 15.6 |
| Last 3 Months of Pregnancy | 53,731 | 0.5 | 91,491 | 0.5 |

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Women who initially enrolled in WIC during the postpartum period.

(4) Women who reported taking a multivitamin four times a weeks or more in the month before pregnancy, proxy for folic acid consumption.

(5) Pregnant women who reported taking a multivitamin in the past month; proxy for prenatal iron consumption.

(6) Among women who smoked 3 months prior to pregnancy.

(7) National includes previous year's data for all participating States and ITOs.

* Percentages are not calculated if <100 records are available for analysis after exclusions

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Table 2C 2017 Pregnancy Nutrition Surveillance (1) Michigan Summary of Health Indicators

| Summary of Health Indicators (2) | | | | |
|----------------------------------|---------------------|------|--------------------------------------|------|
| | Michigan Prevalence | | National (6) Prevalence (Prior Year) | |
| | Number | % | Number | % |
| Birthweight (3) | | | | |
| Very Low | 50,526 | 1.5 | 56,577 | 1.4 |
| Low | 50,526 | 8.7 | 56,577 | 8.2 |
| Normal | 50,526 | 83.1 | 56,577 | 83.3 |
| High | 50,526 | 6.7 | 56,577 | 7.0 |
| Preterm (4) | 52,025 | 12.4 | 58,441 | 12.2 |
| Full term Low Birth Weight (5) | 43,785 | 4.3 | 49,086 | 4.1 |
| Multiple Births | 53,461 | 1.9 | 91,393 | 1.2 |
| Breastfeeding | | | | |
| Ever Breastfed | 51,003 | 66.7 | 56,962 | 66.9 |

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Very low birth weight (<1500 g), low birth weight (1500 - <2500 g), normal birth weight (2500 - <4000 g), high birth weight (>4000 g).

(4) <37 weeks gestation.

(5) 37 or more weeks gestation <2500 g.

(6) National includes previous year's data for all participating States and ITOs.

* Percentages are not calculated if <100 records are available for analysis after exclusions

WIC PNNS & PedNSS

Table 3C

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Racial and Ethnic Distribution by Contributor to National (3)

| Comparison of Racial and Ethnic Distribution (2) | | | | | | | | |
|---|------------------------------------|----------------------------------|----------------------------------|-----------------------|--|-------------------------------------|-----------------------------|--------------------------------|
| Contributor | Number Included in Analysis | White, Not Hispanic % | Black, Not Hispanic % | Hispanic % | American Indian/Alaska Native % | Asian/Pacific Islander % | Multiple Races % | All Other/Unknown % |
| Michigan | 57,669 | 52.1 | 30.4 | 10.4 | 0.3 | 2.3 | 4.0 | 0.5 |
| National (Prior Year) | 120,297 | 55.2 | 27.3 | 9.5 | 1.5 | 2.3 | 3.9 | 0.3 |

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors

(3) National includes previous year's data for all participating States and ITOs.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

WIC PNNS & PedNSS

Table 4C

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Age Distribution by Contributor to National (3)

| Comparison of Age Distribution (2) | | | | | | | | |
|---|------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------------------|------------------|
| Contributor | Number Included in Analysis | < 15 Years % | 15 - 17 Years % | 18 - 19 Years % | 20 - 29 Years % | 30 - 39 Years % | >= 40 Years % | Unknown % |
| Michigan | 57,676 | 0.1 | 2.8 | 7.7 | 63.1 | 24.3 | 1.8 | 0.1 |
| National (Prior Year) | 120,303 | 0.2 | 3.4 | 9.1 | 63.1 | 22.7 | 1.5 | 0.1 |

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors

(3) National includes previous year's data for all participating States and ITOs.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

WIC PNNS & PedNSS

Table 5C

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Maternal Health Indicators by Contributor to National (6)

| Comparison of Maternal Health Indicators (2) | | | | | | | | | | | | | | |
|---|------------------|------------|-----------------|---------------|-------------|-------------|------------------------|-------------|---------------|-------------|--|------------|-------------------------------------|-------------|
| Contributor | Pregnancy BMI | | | Weight Gain | | | Anemia (Low Hb/Hct) | | | | Gestational Diabetes During Pregnancy | | Hypertension During Pregnancy | |
| | (3) | | | (4) | | | (5) | | | | | | | |
| | Under- weight | | Over- weight | < Ideal | | > Ideal | 3rd Trimester | | Postpartum | | | | | |
| | Number | % | % | Number | % | % | Number | % | Number | % | Number | % | Number | % |
| Michigan | 47,111 | 4.3 | 58.8 | 31,292 | 19.1 | 51.9 | 9,416 | 49.2 | 11,325 | 36.6 | 53,680 | 7.1 | 53,693 | 11.2 |
| National (Prior Year) | 106,629 | 4.4 | 58.2 | 62,805 | 21.4 | 50.4 | 35,452 | 17.4 | 20,899 | 27.9 | 60,377 | 6.9 | 60,411 | 10.7 |

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

(4) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 40 40 pounds), normal weight pregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese pregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

(6) National includes previous year's data for all participating States and ITOs.

* Percentages are not calculated if <100 records are available for analysis after exclusions

WIC PNNS & PedNSS

Table 6C

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Maternal Behavioral Indicators by Contributor to National (5)

| Comparison of Maternal Behavioral Indicators (2) | | | | | | | | | |
|---|---------------|-------------|------------|----------------|-------------|--------------------------|-------------|-------------------------|-------------|
| Contributor | Medical Care | | | WIC Enrollment | | Multivitamin Consumption | | | |
| | 1st Trimester | | No Care | 1st Trimester | | Pregnancy (3) | | During Pregnancy (4) | |
| | Number | % | % | Number | % | Number | % | Number | % |
| Michigan | 53,045 | 83.1 | 7.7 | 56,717 | 30.6 | 44,576 | 19.0 | 43,643 | 87.3 |
| National (Prior Year) | 88,167 | 83.4 | 5.4 | 108,369 | 19.0 | 50,771 | 25.4 | 50,162 | 87.6 |

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) Woman who reported taking a multivitamin four times a weeks or more in the month before pregnancy; proxy for folic acid consumption.

(4) Pregnant women who reported tkaing a multivitamin in the past month; proxy for prenatal iron consumption.

(5) National includes previous year's data for all participating States and ITOs.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

WIC PNNS & PedNSS

Table 7C

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Smoking Indicators by Contributor to National (4)

| Comparison of Smoking Indicators (2) | | | | | | | | | | |
|---|--|-------------|---------------------------------------|-------------|---|-------------|-----------------------------|-------------|-------------------|-------------|
| Contributor | Smoking | | | | Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3) | | Smoking in Household | | | |
| | 3 Months Prior to Pregnancy | | Last 3 Months of Pregnancy | | | | Prenatal | | Postpartum | |
| | Number | % | Number | % | Number | % | Number | % | Number | % |
| Michigan | 51,028 | 27.1 | 53,711 | 14.1 | 11,398 | 39.3 | 43,712 | 11.3 | 53,738 | 3.2 |
| National (Prior Year) | 112,214 | 29.5 | 114,607 | 15.2 | 15,803 | 35.0 | 75,630 | 14.7 | 88,858 | 11.7 |

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) Among women who smoked 3 months prior to pregnancy.

(4) National includes previous year's data for all participating States and ITOs.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

WIC PNNS & PedNSS

Table 8C

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Infant Health Indicators by Contributor to National (7)

| Comparison of Infant Health Indicators (2) | | | | | | | | | |
|---|---------------|-------------|-------------|---------------|-------------|---------------|------------|----------------|-------------|
| Contributor | Birthweight | | | Preterm | | Full Term LBW | | Ever Breastfed | |
| | Low (3) | | High (4) | (5) | | (6) | | | |
| | Number | % | % | Number | % | Number | % | Number | % |
| Michigan | 50,526 | 10.2 | 6.7 | 52,025 | 12.4 | 43,785 | 4.3 | 51,003 | 66.7 |
| National (Prior Year) | 56,577 | 9.7 | 7.0 | 58,441 | 12.2 | 49,086 | 4.1 | 56,962 | 58.2 |

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

(7) National includes previous year's data for all participating States and ITOs.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

WIC PNNS & PedNSS

Table 9C

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Maternal Health Indicators by Race/Ethnicity, Age, or Education

Maternal Health Indicators by Race/Ethnicity, Age, or Education (2)

| | Prepregnancy BMI (3) | | | Weight Gain (4) | | | Anemia (Low Hb/Hct) (5) | | | | Gestational Diabetes | | Hypertension During Pregnancy | | |
|-------------------------------|-------------------------|--------------|-------------|--------------------|-------------|-------------|----------------------------|-------------|---------------|-------------|----------------------|------------|-------------------------------|-------------|--|
| | Number | Under-Weight | Over-Weight | Number | < Ideal | >Ideal | 3rd Trimester | | Postpartum | | Number | % | Number | % | |
| | | % | % | | % | % | Number | % | Number | % | | | | | |
| Race/Ethnicity | | | | | | | | | | | | | | | |
| White, Not Hispanic | 24,340 | 4.7 | 56.3 | 15,648 | 17.8 | 53.3 | 4,514 | 39.7 | 6,533 | 29.0 | 27,979 | 7.2 | 27,998 | 10.5 | |
| Black, Not Hispanic | 14,791 | 3.7 | 62.3 | 10,603 | 19.4 | 52.4 | 3,380 | 63.6 | 2,870 | 53.4 | 16,528 | 5.8 | 16,528 | 13.7 | |
| Hispanic | 4,919 | 3.0 | 64.2 | 3,119 | 23.0 | 45.8 | 908 | 42.4 | 1,071 | 37.0 | 5,576 | 9.1 | 5,571 | 8.6 | |
| American Indian/Alaska Native | 153 | 6.5 | 58.2 | 96 | * | * | 23 | * | 42 | * | 171 | 10.5 | 171 | 15.2 | |
| Asian/Pacific Islander | 964 | 7.6 | 38.1 | 602 | 30.2 | 34.6 | 186 | 37.6 | 295 | 32.5 | 1,247 | 14.0 | 1,246 | 4.6 | |
| Multiple Races | 1,927 | 4.4 | 59.0 | 1,210 | 18.5 | 52.9 | 400 | 54.3 | 497 | 41.4 | 2,156 | 6.4 | 2,156 | 11.5 | |
| All Other/Unknown | 10 | * | * | 9 | * | * | 0 | * | 15 | * | 16 | * | 16 | * | |
| Total | 47,111 | 4.3 | 58.8 | 31,292 | 19.1 | 51.9 | 9,416 | 49.2 | 11,325 | 36.6 | 53,680 | 7.1 | 53,693 | 11.2 | |
| Age | | | | | | | | | | | | | | | |
| < 15 Years | 48 | * | * | 38 | * | * | 16 | * | 4 | * | 66 | * | 66 | * | |
| 15 - 17 Years | 1,410 | 8.2 | 38.5 | 874 | 19.5 | 53.0 | 305 | 54.1 | 275 | 47.3 | 1,532 | 1.8 | 1,531 | 11.0 | |
| 18 - 19 Years | 3,802 | 7.2 | 45.7 | 2,363 | 18.7 | 54.3 | 687 | 53.4 | 762 | 40.9 | 4,050 | 3.0 | 4,055 | 10.0 | |
| 20 - 29 Years | 29,903 | 4.6 | 57.5 | 20,089 | 19.0 | 52.1 | 6,191 | 49.3 | 6,994 | 37.4 | 34,000 | 5.6 | 34,007 | 10.3 | |
| 30 - 39 Years | 11,104 | 2.2 | 68.3 | 7,413 | 19.5 | 50.7 | 2,074 | 46.5 | 3,034 | 32.8 | 13,032 | 12.1 | 13,036 | 13.5 | |
| >= 40 Years | 796 | 1.6 | 73.5 | 484 | 19.6 | 49.0 | 136 | 50.7 | 239 | 32.6 | 934 | 19.0 | 933 | 18.5 | |
| Unknown | 48 | * | * | 31 | * | * | 7 | * | 17 | * | 66 | * | 65 | * | |
| Total | 47,111 | 4.3 | 58.8 | 31,292 | 19.1 | 51.9 | 9,416 | 49.2 | 11,325 | 36.6 | 53,680 | 7.1 | 53,693 | 11.2 | |
| Education | | | | | | | | | | | | | | | |
| < High School | 10,636 | 5.5 | 54.4 | 6,818 | 22.6 | 48.0 | 2,135 | 51.7 | 2,339 | 41.6 | 12,581 | 6.4 | 12,585 | 9.4 | |
| High School | 21,271 | 4.5 | 58.7 | 14,191 | 18.9 | 52.0 | 4,274 | 50.4 | 4,784 | 37.1 | 24,113 | 6.6 | 24,117 | 11.6 | |
| > High School | 14,705 | 3.1 | 62.1 | 9,991 | 17.1 | 54.2 | 2,924 | 45.8 | 4,010 | 33.4 | 16,356 | 8.3 | 16,362 | 12.1 | |
| Excluded Unknown | 499 | 3.0 | 57.5 | 292 | 18.2 | 52.1 | 83 | * | 192 | 28.1 | 630 | 9.5 | 629 | 9.5 | |
| Total | 47,111 | 4.3 | 58.8 | 31,292 | 19.1 | 51.9 | 9,416 | 49.2 | 11,325 | 36.6 | 53,680 | 7.1 | 53,693 | 11.2 | |

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data for health indicators, and data with errors for health and demographic indicators.

(3) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

(4) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 40 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

* Percentages are not calculated if <100 records are available for analysis after exclusions

WIC PNNS & PedNSS

Table 10C

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Maternal Behavioral Indicators by Race/Ethnicity, Age, or Education

| Maternal Behavioral Indicators by Race/Ethnicity, Age, or Education (2) | | | | | | | | | |
|--|---------------|-------------|------------|----------------|-------------|--------------------------|-------------|-------------------------|-------------|
| | Medical Care | | | WIC Enrollment | | Multivitamin Consumption | | | |
| | 1st Trimester | | No Care | 1st Trimester | | Prenatal (3) | | During Pregnancy (4) | |
| | Number | % | % | Number | % | Number | % | Number | % |
| Race/Ethnicity | | | | | | | | | |
| White, Not Hispanic | 27,700 | 84.7 | 9.1 | 29,532 | 34.7 | 24,356 | 22.2 | 23,055 | 88.8 |
| Black, Not Hispanic | 16,319 | 81.6 | 4.4 | 17,248 | 21.8 | 12,561 | 12.6 | 12,749 | 86.4 |
| Hispanic | 5,474 | 79.4 | 11.0 | 5,888 | 36.7 | 4,575 | 19.8 | 4,886 | 82.6 |
| American Indian/Alaska Native | 174 | 82.8 | 10.3 | 192 | 39.1 | 157 | 24.2 | 149 | 89.9 |
| Asian/Pacific Islander | 1,226 | 87.7 | 5.3 | 1,293 | 28.0 | 1,081 | 19.3 | 986 | 86.4 |
| Multiple Races | 2,129 | 80.5 | 9.3 | 2,278 | 33.0 | 1,826 | 17.1 | 1,813 | 86.3 |
| All Other/Unknown | 16 | * | * | 279 | 0.7 | 14 | * | 0 | * |
| Total | 53,045 | 83.1 | 7.7 | 56,717 | 30.6 | 44,576 | 19.0 | 43,643 | 87.3 |
| Age | | | | | | | | | |
| < 15 Years | 65 | * | * | 68 | * | 65 | * | 62 | * |
| 15 - 17 Years | 1,515 | 68.7 | 11.9 | 1,626 | 34.4 | 1,384 | 8.6 | 1,402 | 84.5 |
| 18 - 19 Years | 4,000 | 80.3 | 9.5 | 4,387 | 34.5 | 3,646 | 10.1 | 3,700 | 86.1 |
| 20 - 29 Years | 33,607 | 84.0 | 7.1 | 35,775 | 28.9 | 27,704 | 17.7 | 27,180 | 87.3 |
| 30 - 39 Years | 12,873 | 83.9 | 8.2 | 13,751 | 32.9 | 10,876 | 25.8 | 10,437 | 88.0 |
| >= 40 Years | 919 | 78.8 | 9.8 | 1,042 | 37.1 | 852 | 27.7 | 814 | 85.7 |
| Unknown | 66 | * | * | 68 | * | 49 | * | 48 | * |
| Total | 53,045 | 83.1 | 7.7 | 56,717 | 30.6 | 44,576 | 19.0 | 43,643 | 87.3 |
| Education | | | | | | | | | |
| < High School | 12,360 | 77.8 | 9.5 | 13,249 | 32.4 | 9,892 | 13.7 | 10,469 | 82.1 |
| High School | 23,851 | 83.1 | 7.6 | 25,339 | 30.7 | 19,806 | 16.8 | 19,666 | 87.2 |
| > High School | 16,233 | 87.1 | 6.5 | 17,181 | 29.8 | 14,320 | 25.7 | 13,074 | 91.6 |
| Excluded Unknown | 601 | 81.0 | 10.0 | 948 | 20.8 | 558 | 18.3 | 434 | 82.5 |
| Total | 53,045 | 83.1 | 7.7 | 56,717 | 30.6 | 44,576 | 19.0 | 43,643 | 87.3 |

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data for behavioral indicators, and data with errors for behavioral and demographic indicators.

(3) Woman who reported taking a multivitamin four a weeks or more in the month before pregnancy. proxy for folic acid consumption.

(4) Pregnant women who reported taking a multivitamin in the past month; proxy for prenatal iron consumption.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

WIC PNNS & PedNSS

Table 11C

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Smoking Indicators by Race/Ethnicity, Age, or Education

| Smoking Indicators by Race/Ethnicity, Age, or Education (2) | | | | | | | | | | |
|--|--------------------------------|-------------|-------------------------------|-------------|---|-------------|----------------------|-------------|---------------|------------|
| | Smoking | | | | Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3) | | Smoking in Household | | | |
| | 3 Months Prior to Pregnancy | | Last 3 Months of Pregnancy | | | | Prenatal | | Postpartum | |
| | Number | % | Number | % | Number | % | Number | % | Number | % |
| Race/Ethnicity | | | | | | | | | | |
| White, Not Hispanic | 27,201 | 34.3 | 28,001 | 20.2 | 7,583 | 33.4 | 23,102 | 11.9 | 28,026 | 3.1 |
| Black, Not Hispanic | 14,920 | 19.3 | 16,531 | 6.9 | 2,473 | 54.7 | 12,760 | 12.2 | 16,535 | 3.9 |
| Hispanic | 5,434 | 14.2 | 5,582 | 5.7 | 653 | 53.0 | 4,894 | 5.4 | 5,578 | 1.6 |
| American Indian/Alaska Native | 175 | 49.7 | 171 | 33.3 | 73 | * | 150 | 24.0 | 172 | 8.1 |
| Asian/Pacific Islander | 1,232 | 3.6 | 1,248 | 1.4 | 37 | * | 991 | 2.8 | 1,249 | 1.5 |
| Multiple Races | 2,043 | 34.0 | 2,155 | 18.1 | 577 | 36.0 | 1,810 | 15.0 | 2,155 | 4.4 |
| All Other/Unknown | 16 | * | 16 | * | 0 | * | 0 | * | 16 | * |
| Total | 51,028 | 27.1 | 53,711 | 14.1 | 11,398 | 39.3 | 43,712 | 11.3 | 53,738 | 3.2 |
| Age | | | | | | | | | | |
| < 15 Years | 68 | * | 66 | * | 6 | * | 62 | * | 67 | * |
| 15 - 17 Years | 1,602 | 19.0 | 1,532 | 8.5 | 263 | 47.1 | 1,407 | 25.8 | 1,533 | 7.0 |
| 18 - 19 Years | 4,211 | 26.5 | 4,055 | 11.2 | 923 | 49.2 | 3,702 | 19.6 | 4,058 | 5.2 |
| 20 - 29 Years | 31,690 | 27.9 | 34,017 | 14.4 | 7,408 | 40.7 | 27,230 | 10.7 | 34,026 | 3.1 |
| 30 - 39 Years | 12,414 | 26.9 | 13,041 | 15.5 | 2,660 | 31.3 | 10,451 | 8.0 | 13,053 | 2.5 |
| >= 40 Years | 979 | 21.3 | 934 | 10.9 | 132 | 31.8 | 812 | 7.4 | 935 | 1.6 |
| Unknown | 64 | * | 66 | * | 6 | * | 48 | * | 66 | * |
| Total | 51,028 | 27.1 | 53,711 | 14.1 | 11,398 | 39.3 | 43,712 | 11.3 | 53,738 | 3.2 |
| Education | | | | | | | | | | |
| < High School | 11,616 | 34.0 | 12,581 | 20.4 | 3,312 | 30.4 | 10,488 | 14.9 | 12,600 | 4.6 |
| High School | 22,760 | 28.7 | 24,126 | 14.6 | 5,427 | 40.6 | 19,699 | 11.8 | 24,136 | 3.2 |
| > High School | 16,018 | 19.9 | 16,374 | 8.7 | 2,571 | 47.9 | 13,090 | 7.7 | 16,371 | 2.1 |
| Excluded Unknown | 634 | 22.6 | 630 | 11.4 | 88 | * | 435 | 8.0 | 631 | 1.9 |
| Total | 51,028 | 27.1 | 53,711 | 14.1 | 11,398 | 39.3 | 43,712 | 11.3 | 53,738 | 3.2 |

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data for smoking indicators, and data with errors for smoking and demographic indicators.

(3) Among women who smoked 3 months prior to pregnancy.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

WIC PNNS & PedNSS

Table 12C 2017 Pregnancy Nutrition Surveillance (1) Michigan

Infant Health Indicators by Race/Ethnicity, Age, or Education

| Infant Health Indicators by Race/Ethnicity, Age, or Education (2) | | | | | | | | | |
|---|---------------|-------------|-------------|---------------|-------------|---------------|------------|----------------|-------------|
| | Birthweight | | | Preterm | | Full Term LBW | | Ever Breastfed | |
| | Low (3) | | High (4) | (5) | | (6) | | | |
| | Number | % | % | Number | % | Number | % | Number | % |
| Race/Ethnicity | | | | | | | | | |
| White, Not Hispanic | 26,229 | 8.4 | 8.5 | 27,065 | 10.8 | 23,152 | 3.5 | 26,555 | 71.5 |
| Black, Not Hispanic | 15,697 | 14.1 | 3.4 | 16,145 | 15.5 | 13,154 | 6.3 | 15,781 | 55.3 |
| Hispanic | 5,232 | 7.5 | 7.9 | 5,329 | 11.9 | 4,543 | 2.9 | 5,262 | 72.5 |
| American Indian/Alaska Native | 157 | 10.2 | 7.6 | 167 | 16.8 | 128 | 3.9 | 157 | 79.0 |
| Asian/Pacific Islander | 1,155 | 10.7 | 6.1 | 1,199 | 11.3 | 1,012 | 5.4 | 1,183 | 79.9 |
| Multiple Races | 2,035 | 9.8 | 6.7 | 2,097 | 11.8 | 1,779 | 4.2 | 2,043 | 69.7 |
| All Other/Unknown | 15 | * | * | 16 | * | 12 | * | 16 | * |
| Total | 50,526 | 10.2 | 6.7 | 52,025 | 12.4 | 43,785 | 4.3 | 51,003 | 66.7 |
| Age | | | | | | | | | |
| < 15 Years | 65 | * | * | 65 | * | 54 | * | 66 | * |
| 15 - 17 Years | 1,467 | 9.3 | 4.0 | 1,511 | 11.8 | 1,290 | 5.5 | 1,470 | 63.3 |
| 18 - 19 Years | 3,835 | 8.7 | 5.1 | 3,976 | 11.9 | 3,354 | 4.6 | 3,857 | 66.2 |
| 20 - 29 Years | 32,186 | 8.3 | 6.6 | 33,085 | 11.4 | 28,210 | 4.3 | 32,465 | 66.9 |
| 30 - 39 Years | 12,104 | 9.5 | 8.0 | 12,474 | 15.0 | 10,183 | 4.3 | 12,252 | 67.1 |
| >= 40 Years | 810 | 11.1 | 7.3 | 849 | 20.0 | 644 | 5.4 | 830 | 62.9 |
| Unknown | 59 | * | * | 65 | * | 50 | * | 63 | * |
| Total | 50,526 | 10.2 | 6.7 | 52,025 | 12.4 | 43,785 | 4.3 | 51,003 | 66.7 |
| Education | | | | | | | | | |
| < High School | 11,656 | 9.6 | 5.7 | 12,130 | 13.4 | 9,947 | 5.2 | 11,823 | 56.6 |
| High School | 22,745 | 8.8 | 6.5 | 23,383 | 12.3 | 19,754 | 4.3 | 22,947 | 64.7 |
| > High School | 15,554 | 7.9 | 7.8 | 15,900 | 11.9 | 13,586 | 3.8 | 15,634 | 76.9 |
| Excluded Unknown | 571 | 8.2 | 8.2 | 612 | 12.1 | 498 | 5.4 | 599 | 76.0 |
| Total | 50,526 | 10.2 | 6.7 | 52,025 | 12.4 | 43,785 | 4.3 | 51,003 | 66.7 |

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data for health indicators, and data with errors for health and demographic indicators.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions

WIC PNNS & PedNSS

Table 13C 2017 Pregnancy Nutrition Surveillance (1) Michigan

Maternal Weight Gain and Birth Outcomes by Select Health Indicators

| Maternal Weight Gain and Birth Outcomes by Select Health Indicators (2) | | | | | | | | | | |
|---|-----------------|---------|------|-------------|----------|-----|-------------|------|-------------------|-----|
| | Weight Gain (3) | | | Birthweight | | | Preterm (6) | | Full Term LBW (7) | |
| | < Ideal | > Ideal | | Low (4) | High (5) | | | | | |
| | Number | % | % | Number | % | % | Number | % | Number | % |
| Prepregnancy BMI | | | | | | | | | | |
| Underweight | 1,329 | 29.7 | 28.1 | 1,759 | 14.7 | 2.2 | 1,808 | 14.3 | 1,495 | 7.8 |
| Normal Weight | 11,811 | 23.9 | 42.0 | 15,473 | 11.0 | 4.7 | 15,913 | 11.9 | 13,513 | 5.1 |
| Overweight | 7,873 | 11.3 | 62.0 | 10,547 | 9.6 | 6.6 | 10,790 | 11.7 | 9,210 | 4.0 |
| Obese | 10,279 | 18.3 | 58.5 | 14,266 | 9.0 | 9.2 | 14,612 | 13.1 | 12,271 | 3.3 |
| Weight Gain | | | | | | | | | | |
| < Ideal | - | - | - | 5,654 | 16.7 | 3.0 | 5,778 | 17.2 | 4,643 | 7.1 |
| Ideal | - | - | - | 8,720 | 10.2 | 4.5 | 8,922 | 12.0 | 7,605 | 4.6 |
| > Ideal | - | - | - | 15,638 | 7.6 | 8.8 | 15,996 | 10.7 | 13,838 | 3.0 |
| Smoking During Pregnancy | | | | | | | | | | |
| Smokers | 3,326 | 20.3 | 50.0 | 5,789 | 13.6 | 4.1 | 6,066 | 13.7 | 4,989 | 7.2 |
| Non-Smokers | 18,402 | 18.4 | 52.5 | 32,040 | 8.3 | 7.4 | 33,126 | 11.5 | 28,303 | 3.6 |

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(4) <2500 g.

(5) >4000 g.

(6) <37 weeks gestation.

(7) 37 or more weeks gestation and <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions

WIC PNNS & PedNSS

Table 14C

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Racial and Ethnic Distribution

Summary of Trends in Racial and Ethnic Distribution (2)

| Year | Number Included in Analysis | White, Not Hispanic % | Black, Not Hispanic % | Hispanic % | American Indian/Alaska Native % | Asian/Pacific Islander % | Multiple Races % | All Other/Unknown % |
|------|-----------------------------|--------------------------|--------------------------|---------------|------------------------------------|-----------------------------|---------------------|------------------------|
| 2017 | 57,669 | 52.1 | 30.4 | 10.4 | 0.3 | 2.3 | 4.0 | 0.5 |
| 2016 | 60,139 | 53.6 | 28.9 | 10.6 | 0.3 | 2.1 | 4.0 | 0.5 |
| 2015 | 63,103 | 54.0 | 29.0 | 10.2 | 0.4 | 2.1 | 3.6 | 0.8 |
| 2014 | 65,941 | 55.7 | 28.0 | 9.7 | 0.4 | 2.0 | 3.6 | 0.6 |
| 2013 | 67,256 | 55.5 | 28.3 | 9.9 | 0.4 | 2.0 | 3.5 | 0.6 |
| 2012 | 67,977 | 56.2 | 27.5 | 10.0 | 0.4 | 1.9 | 3.4 | 0.6 |
| 2011 | 68,267 | 57.0 | 27.3 | 10.0 | 0.4 | 1.7 | 2.9 | 0.6 |

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

* Percentages are not calculated if <100 records are available for analysis after exclusions

WIC PNNS & PedNSS

Table 15C

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Age Distribution

| Summary of Trends in Age Distribution (2) | | | | | | | | |
|--|--|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|----------------------|
| Year | Number Included in Analysis | < 15 Years % | 15 - 17 Years % | 18 - 19 Years % | 20 - 29 Years % | 30 - 39 Years % | >= 40 Years % | Unknown % |
| 2017 | 57,676 | 0.1 | 2.8 | 7.7 | 63.1 | 24.3 | 1.8 | 0.1 |
| 2016 | 60,143 | 0.1 | 3.0 | 7.9 | 63.4 | 23.7 | 1.8 | 0.1 |
| 2015 | 63,108 | 0.1 | 3.2 | 8.4 | 63.8 | 22.8 | 1.6 | 0.2 |
| 2014 | 65,945 | 0.2 | 3.4 | 9.1 | 63.5 | 22.1 | 1.7 | 0.2 |
| 2013 | 67,261 | 0.2 | 3.9 | 9.8 | 63.1 | 21.2 | 1.6 | 0.2 |
| 2012 | 67,977 | 0.2 | 4.5 | 10.7 | 62.2 | 20.5 | 1.5 | 0.3 |
| 2011 | 68,267 | 0.2 | 4.9 | 11.5 | 61.7 | 19.9 | 1.5 | 0.3 |

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

* Percentages are not calculated if <100 records are available for analysis after exclusions

WIC PNNS & PedNSS

Table 16C

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Maternal Health Indicators

| Summary of Trends in Maternal Health Indicators (2) | | | | | | | | | | |
|---|-------------------------|-------------|------|--------------------|---------|--------|-------------------------------|------|------------|------|
| Year | Prepregnancy BMI (3) | | | Weight Gain (4) | | | Anemia (Low Hb/Hct) (5) | | | |
| | Under-weight | Over-weight | | < Ideal | > Ideal | | 3rd Trimester | | Postpartum | |
| | | Number | % | | % | Number | % | % | Number | % |
| 2017 | 47,111 | 4.3 | 58.8 | 31,292 | 19.1 | 51.9 | 9,416 | 49.2 | 11,325 | 36.6 |
| 2016 | 51,019 | 4.4 | 58.1 | 33,141 | 19.4 | 51.2 | 9,642 | 45.1 | 12,082 | 34.6 |
| 2015 | 53,616 | 4.4 | 56.8 | 44,468 | 19.6 | 50.7 | 9,750 | 41.4 | 12,310 | 31.6 |
| 2014 | 56,540 | 4.3 | 56.3 | 45,714 | 17.2 | 52.3 | 9,959 | 39.6 | 12,485 | 28.7 |
| 2013 | 58,063 | 4.3 | 56.0 | 46,728 | 16.9 | 52.4 | 9,903 | 38.9 | 11,995 | 28.7 |
| 2012 | 61,321 | 4.4 | 54.9 | 48,759 | 17.4 | 51.3 | 9,736 | 38.4 | 12,636 | 27.9 |
| 2011 | 62,450 | 4.4 | 54.4 | 50,780 | 17.6 | 51.0 | 10,073 | 35.7 | 13,689 | 27.5 |

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

(4) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 40 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

* Percentages are not calculated if <100 records are available for analysis after exclusions

WIC PNNS & PedNSS
Table 17C
2017 Pregnancy Nutrition Surveillance (1)
Michigan
Summary of Maternal Behavioral Indicators

| Summary of Maternal Behavioral Indicators (2) | | | | | |
|--|---------------------|------|---------|-----------------------|------|
| Year | Medical Care | | | WIC Enrollment | |
| | 1st Trimester | | No Care | 1st Trimester | |
| | Number | % | % | Number | % |
| 2017 | 53,045 | 83.1 | 7.7 | 56,717 | 30.6 |
| 2016 | 54,902 | 82.2 | 8.4 | 59,189 | 32.4 |
| 2015 | 57,579 | 81.1 | 9.4 | 62,203 | 34.1 |
| 2014 | 60,317 | 79.7 | 10.8 | 64,954 | 35.7 |
| 2013 | 61,039 | 79.9 | 10.5 | 66,266 | 36.9 |
| 2012 | 61,308 | 79.8 | 10.6 | 67,036 | 38.0 |
| 2011 | 60,703 | 81.1 | 9.2 | 67,132 | 36.7 |

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

* Percentages are not calculated if <100 records are available for analysis after exclusions

WIC PNNS & PedNSS

Table 18C

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Smoking Indicators

| Summary of Trends in Smoking Indicators (2) | | | | | | | | | | |
|---|--------------------------------|------|-------------------------------|------|---|------|----------------------|------|------------|-----|
| Year | Smoking | | | | Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3) | | Smoking in Household | | | |
| | 3 Months Prior to Pregnancy | | Last 3 Months of Pregnancy | | | | Prenatal | | Postpartum | |
| | Number | % | Number | % | Number | % | Number | % | Number | % |
| 2017 | 51,028 | 27.1 | 53,711 | 14.1 | 11,398 | 39.3 | 43,712 | 11.3 | 53,738 | 3.2 |
| 2016 | 53,738 | 28.6 | 55,530 | 15.1 | 12,776 | 39.3 | 46,598 | 11.9 | 55,576 | 3.4 |
| 2015 | 56,882 | 30.6 | 58,245 | 15.8 | 14,580 | 39.6 | 49,656 | 13.4 | 58,264 | 4.2 |
| 2014 | 60,217 | 32.0 | 61,120 | 16.4 | 16,301 | 39.4 | 52,726 | 14.6 | 61,124 | 4.5 |
| 2013 | 62,025 | 32.3 | 61,793 | 16.8 | 18,044 | 36.4 | 54,649 | 15.1 | 61,835 | 5.0 |
| 2012 | 63,072 | 32.4 | 61,988 | 16.9 | 16,769 | 38.6 | 55,380 | 16.0 | 61,994 | 4.9 |
| 2011 | 64,049 | 32.8 | 61,427 | 16.9 | 16,751 | 39.5 | 55,787 | 16.8 | 61,403 | 5.5 |

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Prenatal program participation

* Percentages are not calculated if <100 records are available for analysis after exclusions

WIC PNNS & PedNSS

Table 19C

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Infant Health Indicators

| Summary of Trends in Infant Health Indicators (2) | | | | | | | | | |
|---|-------------|-------------|-----|---------|------|---------------|-----|----------------|------|
| Year | Birthweight | | | Preterm | | Full Term LBW | | Ever Breastfed | |
| | Low (3) | High (4) | | (5) | | (6) | | | |
| | Number | % | % | Number | % | Number | % | Number | % |
| 2017 | 50,526 | 10.2 | 6.7 | 52,025 | 12.4 | 43,785 | 4.3 | 51,003 | 66.7 |
| 2016 | 52,145 | 9.8 | 6.9 | 53,729 | 12.3 | 45,193 | 4.2 | 52,506 | 66.2 |
| 2015 | 54,702 | 9.7 | 6.9 | 56,532 | 11.9 | 47,832 | 4.2 | 54,837 | 65.1 |
| 2014 | 57,572 | 9.0 | 7.0 | 59,292 | 11.8 | 50,471 | 3.8 | 57,574 | 63.6 |
| 2013 | 58,028 | 8.7 | 7.2 | 59,882 | 11.5 | 50,981 | 3.7 | 58,101 | 63.1 |
| 2012 | 58,368 | 8.8 | 7.3 | 60,111 | 12.1 | 50,877 | 3.7 | 58,753 | 61.2 |
| 2011 | 58,040 | 8.6 | 7.1 | 59,523 | 11.7 | 50,780 | 3.6 | 58,401 | 60.5 |

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions

WIC PNNS & PedNSS

Table 20C

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Maternal Health Indicators by Race/Ethnicity

| Summary of Trends in Maternal Health Indicators by Race/Ethnicity (2) | | | | | | | | | | | |
|---|------|------------------|-----------------|------|-------------|---------|------|------------------------|------|------------|------|
| Race/Ethnicity | Year | Prepregnancy BMI | | | Weight Gain | | | Anemia (Low Hb/Hct) | | | |
| | | (3) | | | (4) | | | (5) | | | |
| | | Under- weight | Over- weight | | < Ideal | > Ideal | | 3rd Trimester | | Postpartum | |
| | | Number | % | % | Number | % | % | Number | % | Number | % |
| White, Not Hispanic | 2017 | 24,340 | 4.7 | 56.3 | 15,648 | 17.8 | 53.3 | 4,514 | 39.7 | 6,533 | 29.0 |
| | 2016 | 27,427 | 4.8 | 55.7 | 17,582 | 17.8 | 52.5 | 4,843 | 35.9 | 7,093 | 27.4 |
| | 2015 | 29,203 | 4.8 | 54.7 | 24,343 | 18.2 | 51.9 | 4,999 | 31.7 | 7,322 | 24.6 |
| | 2014 | 31,771 | 4.7 | 53.8 | 25,693 | 15.5 | 53.8 | 5,165 | 30.6 | 7,430 | 22.2 |
| Black, Not Hispanic | 2017 | 14,791 | 3.7 | 62.3 | 10,603 | 19.4 | 52.4 | 3,380 | 63.6 | 2,870 | 53.4 |
| | 2016 | 14,954 | 3.9 | 62.3 | 10,223 | 19.5 | 51.9 | 3,280 | 59.2 | 2,992 | 52.1 |
| | 2015 | 15,907 | 4.2 | 60.2 | 13,240 | 20.2 | 51.2 | 3,363 | 58.0 | 3,041 | 49.8 |
| | 2014 | 16,219 | 3.9 | 60.9 | 13,406 | 18.5 | 52.2 | 3,417 | 54.7 | 3,075 | 45.9 |

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

(4) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

* Percentages are not calculated if <100 records are available for analysis after exclusions

WIC PNNS & PedNSS

Table 20C

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Maternal Health Indicators by Race/Ethnicity

| Summary of Trends in Maternal Health Indicators by Race/Ethnicity (2) | | | | | | | | | | | |
|---|------|-------------------------|-----|-------------|--------------------|------|---------|-------------------------------|------|------------|------|
| Race/Ethnicity | Year | Prepregnancy BMI (3) | | | Weight Gain (4) | | | Anemia (Low Hb/Hct) (5) | | | |
| | | Under-weight | | Over-weight | < Ideal | | > Ideal | 3rd Trimester | | Postpartum | |
| | | Number | % | % | Number | % | % | Number | % | Number | % |
| Hispanic | 2017 | 4,919 | 3.0 | 64.2 | 3,119 | 23.0 | 45.8 | 908 | 42.4 | 1,071 | 37.0 |
| | 2016 | 5,372 | 3.1 | 62.6 | 3,323 | 24.8 | 44.2 | 935 | 45.3 | 1,149 | 33.9 |
| | 2015 | 5,335 | 2.4 | 62.0 | 4,309 | 24.0 | 44.4 | 840 | 34.4 | 1,156 | 30.2 |
| | 2014 | 5,293 | 2.2 | 62.5 | 4,053 | 21.9 | 46.0 | 810 | 33.7 | 1,170 | 25.3 |
| American Indian/Alaska Native | 2017 | 153 | 6.5 | 58.2 | 96 | * | * | 23 | * | 42 | * |
| | 2016 | 156 | 3.2 | 63.5 | 78 | * | * | 22 | * | 42 | * |
| | 2015 | 206 | 3.9 | 59.2 | 165 | 20.0 | 47.3 | 33 | * | 41 | * |
| | 2014 | 191 | 4.7 | 53.4 | 139 | 23.7 | 55.4 | 21 | * | 50 | * |

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

(4) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

* Percentages are not calculated if <100 records are available for analysis after exclusions

WIC PNNS & PedNSS

Table 20C

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Maternal Health Indicators by Race/Ethnicity

| Summary of Trends in Maternal Health Indicators by Race/Ethnicity (2) | | | | | | | | | | | |
|---|------|------------------|-------------|------|-------------|---------|------|-------------------------------|------|------------|------|
| Race/Ethnicity | Year | Prepregnancy BMI | | | Weight Gain | | | Anemia (Low Hb/Hct) (5) | | | |
| | | (3) | | | (4) | | | 3rd Trimester | | Postpartum | |
| | | Under-weight | Over-weight | | < Ideal | > Ideal | | Number | % | Number | % |
| | | Number | % | % | Number | % | % | Number | % | Number | % |
| Asian/Pacific Islander | 2017 | 964 | 7.6 | 38.1 | 602 | 30.2 | 34.6 | 186 | 37.6 | 295 | 32.5 |
| | 2016 | 1,003 | 7.7 | 37.9 | 610 | 30.7 | 30.7 | 183 | 40.4 | 292 | 29.5 |
| | 2015 | 975 | 9.0 | 34.7 | 769 | 27.8 | 34.7 | 172 | 29.1 | 294 | 26.2 |
| | 2014 | 986 | 9.0 | 32.0 | 785 | 27.1 | 30.7 | 187 | 34.8 | 289 | 26.3 |
| Multiple Races | 2017 | 1,927 | 4.4 | 59.0 | 1,210 | 18.5 | 52.9 | 400 | 54.3 | 497 | 41.4 |
| | 2016 | 2,084 | 4.7 | 58.0 | 1,318 | 19.8 | 54.9 | 376 | 41.2 | 506 | 35.8 |
| | 2015 | 1,981 | 4.3 | 56.2 | 1,636 | 19.6 | 52.7 | 342 | 42.1 | 453 | 28.5 |
| | 2014 | 2,069 | 4.7 | 55.8 | 1,630 | 16.9 | 54.5 | 358 | 42.5 | 470 | 30.0 |

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

(4) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

* Percentages are not calculated if <100 records are available for analysis after exclusions

WIC PNNS & PedNSS

Table 20C

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Maternal Health Indicators by Race/Ethnicity

| Summary of Trends in Maternal Health Indicators by Race/Ethnicity (2) | | | | | | | | | | | |
|--|------|-------------------------|-----|-------------|--------------------|------|---------|-------------------------------|------|------------|------|
| Race/Ethnicity | Year | Prepregnancy BMI (3) | | | Weight Gain (4) | | | Anemia (Low Hb/Hct) (5) | | | |
| | | Under-weight | | Over-weight | < Ideal | | > Ideal | 3rd Trimester | | Postpartum | |
| | | Number | % | % | Number | % | % | Number | % | Number | % |
| All Other/Unknown | 2017 | 10 | * | * | 9 | * | * | 0 | * | 15 | * |
| | 2016 | 20 | * | * | 6 | * | * | 3 | * | 7 | * |
| | 2015 | 6 | * | * | 3 | * | * | 0 | * | 2 | * |
| | 2014 | 7 | * | * | 5 | * | * | 0 | * | 1 | * |
| Total All Race/Ethnic Groups | 2017 | 47,111 | 4.3 | 58.8 | 31,292 | 19.1 | 51.9 | 9,416 | 49.2 | 11,325 | 36.6 |
| | 2016 | 51,019 | 4.4 | 58.1 | 33,141 | 19.4 | 51.2 | 9,642 | 45.1 | 12,082 | 34.6 |
| | 2015 | 53,616 | 4.4 | 56.8 | 44,468 | 19.6 | 50.7 | 9,750 | 41.4 | 12,310 | 31.6 |
| | 2014 | 56,540 | 4.3 | 56.3 | 45,714 | 17.2 | 52.3 | 9,959 | 39.6 | 12,485 | 28.7 |

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

(4) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

* Percentages are not calculated if <100 records are available for analysis after exclusions

WIC PNNS & PedNSS

Table 21C

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

| Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity (2) | | | | | | |
|--|------|---------------|------|---------|----------------|------|
| Race/Ethnicity | Year | Medical Care | | | WIC Enrollment | |
| | | 1st Trimester | | No Care | 1st Trimester | |
| | | Number | % | % | Number | % |
| White, Not Hispanic | 2017 | 27,700 | 84.7 | 9.1 | 29,532 | 34.7 |
| | 2016 | 29,471 | 83.8 | 9.8 | 31,689 | 36.0 |
| | 2015 | 31,266 | 82.6 | 10.8 | 33,651 | 37.4 |
| | 2014 | 33,737 | 81.3 | 12.3 | 36,233 | 39.3 |
| Black, Not Hispanic | 2017 | 16,319 | 81.6 | 4.4 | 17,248 | 21.8 |
| | 2016 | 16,144 | 80.4 | 4.8 | 17,148 | 23.5 |
| | 2015 | 16,981 | 79.5 | 5.7 | 18,059 | 25.1 |
| | 2014 | 17,232 | 78.0 | 6.4 | 18,263 | 26.2 |

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors.

* Percentages are not calculated if <100 records are available for analysis after exclusions

WIC PNNS & PedNSS

Table 21C

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

| Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity (2) | | | | | | |
|---|------|---------------|------|---------|----------------|------|
| Race/Ethnicity | Year | Medical Care | | | WIC Enrollment | |
| | | 1st Trimester | | No Care | 1st Trimester | |
| | | Number | % | % | Number | % |
| Hispanic | 2017 | 5,474 | 79.4 | 11.0 | 5,888 | 36.7 |
| | 2016 | 5,744 | 79.0 | 11.7 | 6,262 | 38.5 |
| | 2015 | 5,822 | 77.3 | 12.7 | 6,336 | 40.6 |
| | 2014 | 5,752 | 74.6 | 15.5 | 6,304 | 42.3 |
| American Indian/Alaska Native | 2017 | 174 | 82.8 | 10.3 | 192 | 39.1 |
| | 2016 | 162 | 84.6 | 5.6 | 182 | 40.7 |
| | 2015 | 205 | 82.0 | 9.8 | 227 | 37.0 |
| | 2014 | 207 | 80.7 | 11.6 | 227 | 46.3 |

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors.

* Percentages are not calculated if <100 records are available for analysis after exclusions

WIC PNNS & PedNSS

Table 21C

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

| Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity (2) | | | | | | |
|--|------|---------------|------|---------|----------------|------|
| Race/Ethnicity | Year | Medical Care | | | WIC Enrollment | |
| | | 1st Trimester | | No Care | 1st Trimester | |
| | | Number | % | % | Number | % |
| Asian/Pacific Islander | 2017 | 1,226 | 87.7 | 5.3 | 1,293 | 28.0 |
| | 2016 | 1,164 | 84.8 | 7.6 | 1,240 | 31.2 |
| | 2015 | 1,222 | 84.0 | 8.5 | 1,299 | 33.7 |
| | 2014 | 1,213 | 82.8 | 10.1 | 1,304 | 33.8 |
| Multiple Races | 2017 | 2,129 | 80.5 | 9.3 | 2,278 | 33.0 |
| | 2016 | 2,205 | 81.0 | 9.2 | 2,348 | 34.6 |
| | 2015 | 2,077 | 79.5 | 10.6 | 2,240 | 36.7 |
| | 2014 | 2,170 | 78.8 | 11.5 | 2,360 | 37.4 |

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors.

* Percentages are not calculated if <100 records are available for analysis after exclusions

WIC PNNS & PedNSS

Table 21C

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

| Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity (2) | | | | | | |
|--|------|---------------|------|---------|----------------|------|
| Race/Ethnicity | Year | Medical Care | | | WIC Enrollment | |
| | | 1st Trimester | | No Care | 1st Trimester | |
| | | Number | % | % | Number | % |
| All Other/Unknown | 2017 | 16 | * | * | 279 | 0.7 |
| | 2016 | 9 | * | * | 316 | 6.0 |
| | 2015 | 1 | * | * | 386 | 42.2 |
| | 2014 | 2 | * | * | 259 | 6.6 |
| Total All Race/Ethnic Groups | 2017 | 53,045 | 83.1 | 7.7 | 56,717 | 30.6 |
| | 2016 | 54,902 | 82.2 | 8.4 | 59,189 | 32.4 |
| | 2015 | 57,579 | 81.1 | 9.4 | 62,203 | 34.1 |
| | 2014 | 60,317 | 79.7 | 10.8 | 64,954 | 35.7 |

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors.

* Percentages are not calculated if <100 records are available for analysis after exclusions

WIC PNNS & PedNSS

Table 22C

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Smoking Indicators by Race/Ethnicity

| Summary of Trends in Smoking Indicators by Race/Ethnicity (2) | | | | | | | | | | | |
|--|-------------|--|----------|---------------------------------------|----------|---|----------|-----------------------------|----------|-------------------|----------|
| Race/Ethnicity | Year | Smoking | | | | Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3) | | Smoking in Household | | | |
| | | 3 Months Prior to Pregnancy | | Last 3 Months of Pregnancy | | | | Prenatal | | Postpartum | |
| | | Number | % | Number | % | Number | % | Number | % | Number | % |
| White, Not Hispanic | 2017 | 27,201 | 34.3 | 28,001 | 20.2 | 7,583 | 33.4 | 23,102 | 11.9 | 28,026 | 3.1 |
| | 2016 | 29,428 | 35.6 | 29,826 | 20.8 | 8,628 | 33.1 | 25,257 | 12.4 | 29,852 | 3.0 |
| | 2015 | 31,435 | 37.9 | 31,631 | 21.7 | 9,922 | 34.1 | 27,142 | 13.9 | 31,643 | 3.7 |
| | 2014 | 34,182 | 39.5 | 34,171 | 22.0 | 11,369 | 34.4 | 29,651 | 15.1 | 34,175 | 4.0 |
| Black, Not Hispanic | 2017 | 14,920 | 19.3 | 16,531 | 6.9 | 2,473 | 54.7 | 12,760 | 12.2 | 16,535 | 3.9 |
| | 2016 | 15,021 | 20.9 | 16,280 | 8.1 | 2,669 | 55.8 | 13,003 | 13.6 | 16,292 | 4.6 |
| | 2015 | 16,083 | 22.5 | 17,134 | 8.4 | 3,087 | 55.0 | 14,074 | 15.2 | 17,142 | 5.7 |
| | 2014 | 16,491 | 23.0 | 17,359 | 8.7 | 3,238 | 54.8 | 14,478 | 16.4 | 17,360 | 6.2 |

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors.

(3) Among women who smoked 3 months prior to pregnancy

* Percentages are not calculated if <100 records are available for analysis after exclusions

WIC PNNS & PedNSS

Table 22C

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Smoking Indicators by Race/Ethnicity

| Summary of Trends in Smoking Indicators by Race/Ethnicity (2) | | | | | | | | | | | |
|--|-------------|--|----------|---------------------------------------|----------|---|----------|-----------------------------|----------|-------------------|----------|
| Race/Ethnicity | Year | Smoking | | | | Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3) | | Smoking in Household | | | |
| | | 3 Months Prior to Pregnancy | | Last 3 Months of Pregnancy | | | | Prenatal | | Postpartum | |
| | | Number | % | Number | % | Number | % | Number | % | Number | % |
| Hispanic | 2017 | 5,434 | 14.2 | 5,582 | 5.7 | 653 | 53.0 | 4,894 | 5.4 | 5,578 | 1.6 |
| | 2016 | 5,775 | 14.7 | 5,846 | 6.0 | 721 | 53.5 | 5,271 | 6.1 | 5,850 | 1.7 |
| | 2015 | 5,835 | 15.5 | 5,932 | 5.4 | 791 | 54.6 | 5,347 | 6.7 | 5,928 | 2.4 |
| | 2014 | 5,895 | 15.6 | 5,918 | 6.2 | 795 | 52.3 | 5,406 | 7.2 | 5,921 | 2.3 |
| American Indian/Alaska Native | 2017 | 175 | 49.7 | 171 | 33.3 | 73 | * | 150 | 24.0 | 172 | 8.1 |
| | 2016 | 168 | 48.8 | 160 | 26.9 | 62 | * | 152 | 16.4 | 161 | 6.8 |
| | 2015 | 197 | 52.8 | 207 | 41.1 | 82 | * | 172 | 26.7 | 206 | 8.3 |
| | 2014 | 213 | 45.5 | 206 | 32.5 | 89 | * | 197 | 22.3 | 205 | 11.2 |

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors.

(3) Among women who smoked 3 months prior to pregnancy

* Percentages are not calculated if <100 records are available for analysis after exclusions

WIC PNNS & PedNSS

Table 22C

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Smoking Indicators by Race/Ethnicity

| Summary of Trends in Smoking Indicators by Race/Ethnicity (2) | | | | | | | | | | | |
|---|------|--------------------------------|------|-------------------------------|------|---|------|----------------------|------|------------|-----|
| Race/Ethnicity | Year | Smoking | | | | Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3) | | Smoking in Household | | | |
| | | 3 Months Prior to Pregnancy | | Last 3 Months of Pregnancy | | | | Prenatal | | Postpartum | |
| | | Number | % | Number | % | Number | % | Number | % | Number | % |
| Asian/Pacific Islander | 2017 | 1,232 | 3.6 | 1,248 | 1.4 | 37 | * | 991 | 2.8 | 1,249 | 1.5 |
| | 2016 | 1,176 | 3.6 | 1,182 | 1.1 | 36 | * | 977 | 3.0 | 1,182 | 1.2 |
| | 2015 | 1,241 | 3.8 | 1,245 | 1.2 | 39 | * | 1,042 | 3.4 | 1,245 | 1.4 |
| | 2014 | 1,253 | 3.8 | 1,259 | 1.4 | 39 | * | 1,020 | 3.7 | 1,255 | 1.0 |
| Multiple Races | 2017 | 2,043 | 34.0 | 2,155 | 18.1 | 577 | 36.0 | 1,810 | 15.0 | 2,155 | 4.4 |
| | 2016 | 2,147 | 36.0 | 2,224 | 19.5 | 660 | 37.7 | 1,924 | 14.5 | 2,227 | 3.8 |
| | 2015 | 2,085 | 37.6 | 2,090 | 21.6 | 657 | 33.9 | 1,874 | 16.6 | 2,094 | 5.2 |
| | 2014 | 2,176 | 41.0 | 2,200 | 23.1 | 770 | 35.6 | 1,970 | 17.6 | 2,201 | 5.6 |

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors.

(3) Among women who smoked 3 months prior to pregnancy

* Percentages are not calculated if <100 records are available for analysis after exclusions

WIC PNNS & PedNSS

Table 22C

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Smoking Indicators by Race/Ethnicity

| Summary of Trends in Smoking Indicators by Race/Ethnicity (2) | | | | | | | | | | | |
|--|------|--------------------------------|------|-------------------------------|------|---|------|----------------------|------|------------|-----|
| Race/Ethnicity | Year | Smoking | | | | Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3) | | Smoking in Household | | | |
| | | 3 Months Prior to Pregnancy | | Last 3 Months of Pregnancy | | | | Prenatal | | Postpartum | |
| | | Number | % | Number | % | Number | % | Number | % | Number | % |
| All Other/Unknown | 2017 | 16 | * | 16 | * | 0 | * | 0 | * | 16 | * |
| | 2016 | 19 | * | 9 | * | 0 | * | 10 | * | 9 | * |
| | 2015 | 2 | * | 1 | * | 0 | * | 1 | * | 1 | * |
| | 2014 | 3 | * | 3 | * | 0 | * | 0 | * | 3 | * |
| Total All Race/Ethnic Groups | 2017 | 51,028 | 27.1 | 53,711 | 14.1 | 11,398 | 39.3 | 43,712 | 11.3 | 53,738 | 3.2 |
| | 2016 | 53,738 | 28.6 | 55,530 | 15.1 | 12,776 | 39.3 | 46,598 | 11.9 | 55,576 | 3.4 |
| | 2015 | 56,882 | 30.6 | 58,245 | 15.8 | 14,580 | 39.6 | 49,656 | 13.4 | 58,264 | 4.2 |
| | 2014 | 60,217 | 32.0 | 61,120 | 16.4 | 16,301 | 39.4 | 52,726 | 14.6 | 61,124 | 4.5 |

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors.

(3) Among women who smoked 3 months prior to pregnancy

* Percentages are not calculated if <100 records are available for analysis after exclusions

WIC PNNS & PedNSS

Table 23C

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Infant Health Indicators by Race/Ethnicity

| Summary of Trends in Infant Health Indicators by Race/Ethnicity (2) | | | | | | | | | | |
|---|------|-------------|------|----------|-------------|------|-------------------|-----|----------------|------|
| Race/Ethnicity | Year | Birthweight | | | Preterm (5) | | Full Term LBW (6) | | Ever Breastfed | |
| | | Low (3) | | High (4) | Number | % | Number | % | Number | % |
| | | Number | % | % | | | | | | |
| White, Not Hispanic | 2017 | 26,229 | 8.4 | 8.5 | 27,065 | 10.8 | 23,152 | 3.5 | 26,555 | 71.5 |
| | 2016 | 27,800 | 8.0 | 8.8 | 28,754 | 11.1 | 24,436 | 3.2 | 28,124 | 70.6 |
| | 2015 | 29,537 | 8.0 | 8.8 | 30,649 | 10.5 | 26,222 | 3.3 | 29,774 | 70.3 |
| | 2014 | 32,113 | 7.4 | 8.6 | 33,081 | 10.4 | 28,601 | 3.0 | 32,154 | 68.8 |
| Black, Not Hispanic | 2017 | 15,697 | 14.1 | 3.4 | 16,145 | 15.5 | 13,154 | 6.3 | 15,781 | 55.3 |
| | 2016 | 15,487 | 13.8 | 3.5 | 15,903 | 15.3 | 12,985 | 6.3 | 15,497 | 54.6 |
| | 2015 | 16,302 | 13.8 | 3.5 | 16,767 | 14.7 | 13,798 | 6.1 | 16,200 | 52.3 |
| | 2014 | 16,556 | 13.1 | 3.9 | 16,994 | 14.7 | 14,036 | 5.7 | 16,472 | 50.5 |

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions

WIC PNNS & PedNSS

Table 23C

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Infant Health Indicators by Race/Ethnicity

| Summary of Trends in Infant Health Indicators by Race/Ethnicity (2) | | | | | | | | | | |
|---|------|-------------|------|----------|-------------|------|-------------------|-----|----------------|------|
| Race/Ethnicity | Year | Birthweight | | | Preterm (5) | | Full Term LBW (6) | | Ever Breastfed | |
| | | Low (3) | | High (4) | Number | % | Number | % | Number | % |
| | | Number | % | % | | | | | | |
| Hispanic | 2017 | 5,232 | 7.5 | 7.9 | 5,329 | 11.9 | 4,543 | 2.9 | 5,262 | 72.5 |
| | 2016 | 5,469 | 7.5 | 7.8 | 5,590 | 11.1 | 4,797 | 3.7 | 5,496 | 72.3 |
| | 2015 | 5,551 | 7.1 | 8.0 | 5,688 | 11.3 | 4,876 | 3.1 | 5,570 | 71.0 |
| | 2014 | 5,500 | 6.3 | 8.0 | 5,671 | 11.4 | 4,837 | 2.6 | 5,541 | 69.1 |
| American Indian/Alaska Native | 2017 | 157 | 10.2 | 7.6 | 167 | 16.8 | 128 | 3.9 | 157 | 79.0 |
| | 2016 | 149 | 3.4 | 12.1 | 158 | 8.2 | 136 | 1.5 | 150 | 73.3 |
| | 2015 | 199 | 4.5 | 11.1 | 200 | 12.5 | 171 | 1.2 | 196 | 68.4 |
| | 2014 | 183 | 6.0 | 12.6 | 194 | 13.9 | 157 | 3.8 | 182 | 67.6 |

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions

WIC PNNS & PedNSS

Table 23C

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Infant Health Indicators by Race/Ethnicity

| Summary of Trends in Infant Health Indicators by Race/Ethnicity (2) | | | | | | | | | | |
|--|------|-------------|------|-------------|----------------|------|----------------------|-----|----------------|------|
| Race/Ethnicity | Year | Birthweight | | | Preterm (5) | | Full Term LBW (6) | | Ever Breastfed | |
| | | Low (3) | | High (4) | | | | | | |
| | | Number | % | % | Number | % | Number | % | Number | % |
| Asian/Pacific Islander | 2017 | 1,155 | 10.7 | 6.1 | 1,199 | 11.3 | 1,012 | 5.4 | 1,183 | 79.9 |
| | 2016 | 1,112 | 10.6 | 4.5 | 1,159 | 11.8 | 972 | 5.1 | 1,127 | 74.4 |
| | 2015 | 1,161 | 9.7 | 4.0 | 1,200 | 10.5 | 1,028 | 6.1 | 1,155 | 76.8 |
| | 2014 | 1,153 | 10.5 | 5.0 | 1,206 | 10.9 | 1,017 | 6.0 | 1,170 | 73.2 |
| Multiple Races | 2017 | 2,035 | 9.8 | 6.7 | 2,097 | 11.8 | 1,779 | 4.2 | 2,043 | 69.7 |
| | 2016 | 2,119 | 9.1 | 6.4 | 2,155 | 11.2 | 1,860 | 4.0 | 2,102 | 70.7 |
| | 2015 | 1,947 | 8.7 | 6.5 | 2,022 | 10.2 | 1,733 | 4.1 | 1,937 | 68.5 |
| | 2014 | 2,060 | 8.9 | 6.7 | 2,140 | 11.4 | 1,817 | 3.8 | 2,048 | 65.5 |

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions

WIC PNNS & PedNSS

Table 23C

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Infant Health Indicators by Race/Ethnicity

| Summary of Trends in Infant Health Indicators by Race/Ethnicity (2) | | | | | | | | | | |
|--|------|-------------|------|-------------|----------------|------|----------------------|-----|----------------|------|
| Race/Ethnicity | Year | Birthweight | | | Preterm (5) | | Full Term LBW (6) | | Ever Breastfed | |
| | | Low (3) | | High (4) | | | | | | |
| | | Number | % | % | Number | % | Number | % | Number | % |
| All Other/Unknown | 2017 | 15 | * | * | 16 | * | 12 | * | 16 | * |
| | 2016 | 7 | * | * | 8 | * | 5 | * | 8 | * |
| | 2015 | 0 | * | * | 1 | * | 0 | * | 0 | * |
| | 2014 | 3 | * | * | 2 | * | 2 | * | 3 | * |
| Total All Race/Ethnic Groups | 2017 | 50,526 | 10.2 | 6.7 | 52,025 | 12.4 | 43,785 | 4.3 | 51,003 | 66.7 |
| | 2016 | 52,145 | 9.8 | 6.9 | 53,729 | 12.3 | 45,193 | 4.2 | 52,506 | 66.2 |
| | 2015 | 54,702 | 9.7 | 6.9 | 56,532 | 11.9 | 47,832 | 4.2 | 54,837 | 65.1 |
| | 2014 | 57,572 | 9.0 | 7.0 | 59,292 | 11.8 | 50,471 | 3.8 | 57,574 | 63.6 |

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions